

1882 C.S. 2nd Report on the Marine Invertebrata of Mount Desert Isle., ME.

Charles W. Townsend

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Description: Champlain Society Second Report on the Marine Invertebrata of Mount Desert

Report on the Marine Invertehata

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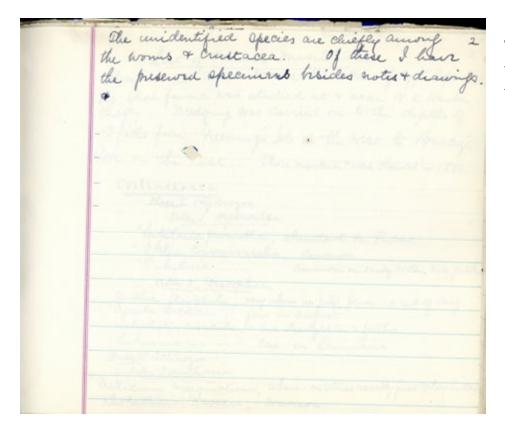
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C.S. <u>2d Report on the Marine Invertebrata</u> of Mount Desert Island, Maine.

Observations during July + August 1882.

Apr 14 1883. Charles W. Townsend

In this report I have given a classified list of the Marine invertebrates with a-brief notices of their abundance or rarity, + their habitat. The number of species observed was 92 besides a good many species which still remain unidentified. In my former report the number of species given was only 38. The increase in the number of species took place chiefly in the group of Mollusca which now number 53 species, or more than half of the identified species.



The unidentified species are chiefly among the worms + crustacea. Of these I have the preserved specimens besides notes + drawings.

List of marine Invertehales the pely - Sept 1 7800 shore fauna was studied at & near N. E. Harbn Dredging was carried on to the depth of Cove on the East. Those marked x were observed in (880. Corlenterata order 1 Hydroidea Sertularia Rumilla, ahundant on Fucus. \* Oblia Commisuralis, Common order 2 Discoplina Halyclistus auricula, one diedzed in 2 Class II actinozoa Metidum marginalum, abun on stones usually just below tides. Rhodactinia Davisii, common.

### List of Marine Invertebrates

Observed at Mount Desert Isle. Me. July 7 – Sept 1 1882 The shore fauna was studied at + near N.E. Harbor chiefly. Dredging was carried on to the depth of 12 faths from Greening's Isle on the west to Bracy's Cove on the East. Those marked x were observed in 1880.

### Coelenterata

Class I Hydrozoa

Order 1 Hydroidea

- Sertularia purnilla, abundant on Fucus.
- Obelia commisuralis, common. Tubularia.....common on sandy bottom 1-2 faths.

Order 2 Discoplina

Aurelia flavidula, very abun in July, fewer at end of Aug.

x Cyanea arctica, few in August

Halyclictus auricula, one dredged in 2 faths.

Lucemaria.....com. on Laminaria

Class II Actinozoa

Order Loantharia

x Metriduum marginatum, abun. On stones usually just below tides. Rhodactinia Davisii, common.

Class III Ctensphorae.

Prolina alata, abrudant.

E chinoder mata.

Ophinroidea.

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Ophinroidea.

Astevidea

Cerrina

Cerrina

Cerrina

Astevidea

Astevi

Class III Ctenophorae.

Bolina alata, abundant.

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### Echinodermata.

Ophiuroidea.

x Ophiophilis bellis, abund. Among rhizoids of Laminaria

**Asteroidea** 

x Asteracanthion berylinus, abundant rocky + sand bottoms

x A. pallidus, do

<u>Echiniodea</u>

x Strongylocentrotus diobachiensis, abun. rocky bottoms

x Echinarachrius parma, abun, sandy bottoms

Holothuroidea.

x Pentacta frondosa, abund, rocky bottoms

Cuvisica squamosal, com. On rocks just below tides.

Vermes

<u>Class I Platyhelminthes</u>.

Order Turbellaria

Stylochuselliphica, few under stones between tides.

Class Nematelminthes

Order Nematodes.

Class Polyzoa

Membranipora pillosa, abund.

Class Finicata. ascidia ampliora, com. Cynthia rolinata, his found an rhigoids of Laminaria Class Nemertina. Livrus vididis, abund under loves Class Gephysea Phaseolosoma Calmentaring ahend in comply shalls 4-12 faths. Class annulata \* Cisterides grannulatus, Common. \* Meis ocious, Common under Thous Serpulla - Com. on algal. Polydora Ciliatum! few. Lepidonolus squamatres, abund. MOLLUSCA Class I Lawelliharchiata. Solen susis, one dead, in 2 or 3 fuths mia arenaria, ahund hund between titles Pandora trelineater few in 10 pettes Lepousia hegalina, Com ins 10 petes candy mend. \* Saricava rigosa, ahu. htween tido rocky mud. macoma fusca, com htqueen tides & in , - 2 fuths. + astarte sulcata, abren 5-12 father sandy mus.

#### Class Funicata

Ascidia amphora, com.

Cynthia echinata, two found on rhizoids of Laminaria

#### Class Nemertina

Lineus vididis, abund under stones.

### Class Gephyrea

Phascolosomacalmenterius, abund in empty shells 4-12 faths

#### Class Annulata

x Cistenides grannulatus, common.

x Nereis virens, common unders stones.

Serpulla \_\_\_\_\_ com. on algae.

Polydora ciliatum, few.

Lepidonotus squamatus, abund.

### **MOLLUSCA**

Class I Lamellibranchiata.

Solen eusis, one dead in 2 or 3 faths

X Mia arenaria, abund mud between tides.

Pandora trileneata, few in 10 faths.

Lyonsia byalina, com, in 2-10 faths sandy mud.

x Sanicava rugose, abund. Between tides rocky mud.

Macoma fusca, com between tides + in 1-2 faths.

x Astante sulcate, abun 5-12 faths sandy mud.

Captinia islanitica, tatter Com. 5-12 peths sandy must. 6
Cardium furnilation. few 5-8 follos ""
Captinodite gronulardica, i dead in 6 peths ""
Cardial brailis, very abour. 5-12 feths ""
Necula proxima, setuly abour. -12 peths ""
Yoldia linatula few 8 peths "
y. atter com. 2-10 peths ""
Leda tenriisulcata, few in 5-10 peths ""
Sugtilis Edulis, abour in holes war low water rolon, modiolariahigra, catter com. 2-10 peths
Modiolariahigra, salter com. 2-10 peths
Modiolariahigra, few under cocks between tides.

Class II Captialophora.

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Order Sastuspoda

Doutslum deutale, tather common.

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order Sastuspoda

Doutslum tubu, two prund armong Forcers.

Chiton tubu, two prund armong Forcers.

Cyprina islandica, rather com. 5-12 faths sandy mud. Cardium pinnulatum, few 5-8 fath Aphrodite gromlandica, 1 dead in 6 faths " Cardica borealis, very abun 5-12 faths Mucula proxima, extremely abun 2-12 faths Yoldia linatula few 8 faths rather com. 2-10 faths Leda tenuisulcata, few in 5-10 faths x Mytilis edulis, abun in beds near low water + below Modiolo modilus, com below a few faths. Modiolacianigra, rather com. 2-10 faths discors, one found on eel grass. Crenella glandula, abun 4-5 faths mud. Anomia ephippium, few under rocks between tides.

# Class II Cephalophora.

# Order Scaphopoda

Dentalium dentale, rather common.

# Order Gasteropoda

x Dendronotus arborescens, com on focus.

Eolis ---- one dredged in 5 faths

Chiton ruber, two found among Fucus.

Uticulus gouldie, few in 5-8 fates Sandy muid. Cylichna - , com in 5-12 father " Tectura testudinalis, abun on locks were low tide mark alvers, alun on El grass merganita undulata, two in 2 faths. obscura, few in 5-12 argentata, one dredged Risson aculeus, com on locks between tides + Lacuna vincta, abus a cel grass + Laminaria Litorna Audis, com between tidas rocks L. pullista, " tenchosa, " on what in M. E. Harton. litorea, about on locks between tides. Scalaria grorulandica, one dudgedalir in 7 faths. Aponhais occidentalis, few in 5-6 fuths: menletto albula, eather com. 2- 10 puttes Jandy and Velutina gonata, me diedged alive 3 fectes. " dunatia heros, com. L. trisniata, abun in 1-10 pulles aandy med. Bela violacea Com. 2 - 10 fattis B. decussata? " "

Utriculus Gouldii, few in 5-8 faths sandy mud. Cytichina ---, com in 5-12 faths " x Tectura testudinalis, abun on rocks near low tide mark alveus, abun on eel grass. Margarita undulata, two in 2 faths. obscura, few in 5-12 faths. " M. M. argentata, one dredged. Rissoa aculeus, com on rocks between tides x Lacuna vincta, abun on eel grass + Laminaria Litorina Eudis, com between tides, rocks palliata, tenebrosa, " on wharf in N.E. Harbor. x L. litorea, abun on rocks between tides. Scalaria groenlandica, oone dredged alive in 7 faths. Menesetho albula, rather com. 2-10 faths sandy mud. Velutina zonata, one dredged alive 3 faths. x Lunatia heros, com. L. trisuiata, abun in 1-10 faths sandy mud. L. --?? abun 2-10 com. 2-10 faths " " Bela violacea

.. .. .. ..

B. decussata?

\* Parpuse lafellus, abun bloom tides weeks.

Praccinum undalum, abun blow tides.

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Pregnalus, few blow tides.

F. peggmalus, lather Com. 2-8 fellus Sandy mu.).

Trophon Scalarifornis: abund 3-10 fallus Sandy mu.).

ARTHROPODA.

Class Crustacea.

Rder / Airipectia

\* Balanus talamoides, abun on socks between tides

order Istradecopoda.

(b) Auptripoda.

\* Latia irrorata, abun blow low water mark

(b) Amplipoda.

\* Gammanus ornatus, very abun bloven tides

buicola irrorata, rather com. 5-12 fells.

\* Capella - abund

C. longimanus, ferr.

\* Hyperia - Come under disc of Cyanea arctica

- x Purpura lapillus, abun between tides rocks.
- x Nassa trivittata, " sandy mud below tides.
- x Buccinum undatum, abun between + below tides.
- x Fusus decemcostatus, few below tides
- F. pygmalus, rather com. 2-8 faths sandy mud. Trophon scalariformis abund 3-10 faths sandy mud.

#### **ARTHROPODA**

#### Class Crustacea.

# Order 1 Cirripedia

- x Balarus balaraoides, abun on rocks between tides Order <u>Tetradecopoda</u>
  - (a) Isopoda
- x Idotea irrorata, abund below low water mark
  - (b) Amphipoda.
- x Gammarus ornatus, very abun between tides Unicola irrorata, rather com. 5-12 faths
- x Caprella --- abund
- C. longimanus, few
- x Hyperia, \_\_com under disc of Cyanea arctica

Homeans americans, Come blow tides " Eupagusus -Canen inoratus. A cachinida. , Phoxicholidium mexillare, one obtained Besides a good many species still unidentified Expecially among the worms of Crustacea

# Order Decapoda

- x Homarus Americanus, Com below tides
- x Crangon vulgaris " " "
- x Eupagurus common Cancer inoratusm, common.

### Arachnida.

x Phonicholidiuna maxillare, one obtained.

# Total 93

Besides a good many species still unidentified especially among the worms + crustacea.

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additional noirs aurelia flavidula, Common white ply fish

### Additional Notes.

Aurelia flavidula, common white jelly fish. This was extremely abundant during July and the early part of August but diminished greatly in numbers towards the end of that month. This, as well as the numerous minute forms of hydroza, Protozoa, many annelides + ascidians, are phosphorescent. In the night the movements of their white jelly fish shows

Causes a circle of phosphorescent spots at the to the tentacles

periphery of the disc. This I think is due ^ to stirring up the water + exciting the Protozoa, chiefly Noctiluca, and the small Hydrozoans to phosphorescence. Besides this they have a luminosity

spots
of their own as is shown by large ^ pale
of light which would often increase in intensity
when the jell-fish was disturbed + would also
seem to move about in the disc.

I must not omit to mention here the " curious effect produced by the darting of fish disturbed by the boat in this water filled with phosphorescent animals. reminded one more of the fire-work serpent than anything else when a file mished away into the darkness, making a prey trail as he went. Rhodacturia davisii I found several specimen Containing numberous young in different alayer metridium marginatum. Phis Common brown Ila anemone grows to a large size. One I meas. wed was 4 1 inches high & 14 1 inches in cir-Cumperence.

I must not omit to mention here the curious effect produced by the darting of fish disturbed by the boat in this water filled with phosphorescent animals. It reminded me more of the fire-work serpent than anything else when a fish rushed away into the darkness, making a zig-zag firey trail as he went.

<u>Rhodactinia davisii</u> I found several specimens containing numerous young in different stages cf development.

Metridium marginatum. This common brown sea anemone grows to a large size. One I measured was 4 ½ inches high + 14 ½ inches in circumference.

bus very abundant piet blow tale mark on a have sandy bottom. It is intersting to note that the very young specimens I found to be more close alaped i.e. more surbyonic, hore like a sea wichin.

Pontacta fondosa. Although the adult lea cucumber is not often found in any numbers above low water mark, the young ones are not uncommon in that region in posts found clinging by their suckers to the sea werd. A piece of Laminaria deaged from cucumber ground waterally has several young cucumbers attached to it.

Crangon vulgaris. a Caprella. The protective colorations of these two crustaceans are very interesting. Among Fricaleur a

Echinarachnius parma. The common sand cake was very abundant just below tide mark on a hard sandy bottom. It is interesting to note that the very young specimens I found to be more dome shaped i.e. more embryonic, more like a sea urchin.

Pentacta frondosa. Although the adults sea-cucumber is not often found in any numbers above low water mark, the young ones are not uncommon in that region, in pools and are found clinging by their suckers to the sea weed. A piece of Laminaria dredged from cucumber ground usually has several young cucumbers attached to it.

<u>Crangon vulgaris</u> + <u>caprella</u> The protective colorations of these two crustaceans are very interesting. Among Fucaceae +

Saminariae they are of a hown color. 13
In sandy befores the shrimp (Crangon)
takes on a gray color with black spres, which
absorbractly exembles the bottom that it is
very difficult to detect him. Among
the red rea-wads the Phridiae) they are
both rea sometimes hight red, although
hown or gray specimens also occur. It
is obvious that the latter would stand a
poorer chance of recuping, when sought by
themies.

Laminariae they are of a brown color. In sandy bottoms places the shrimp (Crangon) takes on a gray color with black specs, which Almost so exactly resembles the bottom that it is very difficult to detect him. Among the red sea-[?] the (Floridiae) they are both red sometimes bright red, although brown or gray specimens also occur. It is obvious that the latter would stand a poorer chance of escaping, when sought by enemies.