

Occasional Papers

OF THE

Boston Society of Natural History.

VII.

FAUNA OF NEW ENGLAND.

12.

LIST OF THE MEDUSAE CRASPEDOTAE,
SIPHONOPHORAE, SCYPHOMEDUSAE,
CTENOPHORAE.

By HENRY B. BIGELOW.

BOSTON:

PRINTED FOR THE SOCIETY FROM THE
GURDON SALTONSTALL FUND.
JULY, 1914.

Announcement.

FAUNA OF NEW ENGLAND.

The Library and Publishing Committee will issue, as volume seven of the Occasional Papers, a Catalogue of the animals of New England.

Parts will be published at irregular intervals, and though the details of the several lists will vary somewhat in the different groups, each list will include: 1st, the accepted name (scientific and vernacular); 2d, reference to the original description, with record of locality; 3d, reference to an authentic description and illustration; and 4th, habitat and occurrence.

The Committee considers these lists a necessary preliminary to a series of comprehensive, illustrated monographs, the publication of which it is hoped the Society will at some later time take upon itself. The Committee also believes that these lists will aid in the accumulation of valuable material for the New England collection of the Society. With this in view a check list of names will accompany each part, to show the representation of the group in the Society's New England collection. A price list of the parts already published will be found on the back cover page.

Toward the accomplishment of its aims the Committee invites the coöperation of all interested in the Fauna of New England.

Communications concerning specimens should be addressed to the CURATOR of the Society (Chas. W. Johnson), notes and records of occurrence to the EDITOR of the "Fauna of New England."

Boston Society of Natural History.
234 Berkeley St., Boston, Mass.

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MEDUSAE CRASPEDOTAE.

ANTHOMEDUSAE.

SARSIIDAE.

1. SARSIA MIRABILIS L. Agassiz.

L. Agassiz, Mem. Amer. acad. arts and sci., 1850, new ser., vol. 4, p. 228, pls. 4, 5. "BOSTON HARBOUR."

Coryne mirabilis L. Agassiz, Contr. nat. hist. U. S., 1860, vol. 3, pl. 11c, figs. 14, 15; *ibid.*, 1862, vol. 4, p. 185, pl. 20, fig. 1-9; pl. 23a, fig. 12.

New England coast.

ME.—Eastport region, Penobscot bay.

N. H.—Portsmouth.

MASS.—Gloucester, Nahant, Boston, Cohasset, Woods Hole region.

R. I.—Newport.

Probably the same as the European *S. tubulosa* Allman.

2. SARSIA RETICULATA (A. Agassiz) Hartlaub.

Syndictyon reticulatum A. Agassiz, in L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 340, footnote. "NAHANT, NEAR BOSTON." A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 177, fig. 290-300.

Sarsia mirabilis var. *reticulata* Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 57, pl. 4, figs. 3, 4; pl. 5, fig. 6.

New England coast, April to June.

MASS.—Massachusetts Bay, Nahant, Boston Harbor.

May be a variety of *S. mirabilis*.

3. SARSIA HARGITTI Mayer.

Coryne producta Hargitt, Amer. nat., 1902, vol. 36, p. 551, fig. 3.
[WOODS HOLE, MASS.]

Syncoryne producta Hargitt, Bull. U. S. bureau of fisheries, 1905, vol. 24, p. 30, pl. 1, fig. 1. [Non *Sarsia producta* (Wright) Mayer.]

Sarsia hargitti Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 63.

MASS.— Woods Hole.

4. *SARSIA HAECKELI* (Hargitt).

Protiara haeckeli Hargitt, Biol. bull., 1902, vol. 4, p. 17, fig. 4.
"NEAR NO MANS LAND, [MASS.]."

MASS.— "Off Gay Head and No Mans Land, Vineyard Sound"
(Hargitt).

Known from only one record. This species may prove to be identical with *Protiara borealis* (Wagner) Mayer.

5. *SLABBERIA STRANGULATA* (McCrary) Hartlaub.

Dipurena strangulata McCrary, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 135, pl. 9, figs. 1, 2. [CHARLESTON HARBOR, SOUTH CAROLINA.]

Dipurena conica A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 181, fig. 301-305.

Slabberia strangulata Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 76, pl. 7, fig. 1-3.

A southern species not known north of Cape Cod.

MASS.— Naushon, Buzzards Bay, Woods Hole.

R. I.— Newport (Fewkes).

6. *HYDRICHTHYS MIRUS* Fewkes.

Fewkes, Bull. Mus. comp. zoöl., 1888, vol. 13, p. 224, pls. 4, 5.
"SURFACE FISHING CARRIED ON AT THE NEWPORT MARINE LABORATORY."

R. I.— Newport.

7. CORYNITIS AGASSIZII McCrady.

McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 132, pl. 9, fig. 3-8. [CHARLESTON HARBOR, SOUTH CAROLINA.] Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 72, pl. 5, fig. 2.

A southern species not known north of Cape Cod.

MASS.—Woods Hole.

8. PENNARIA TIARELLA (Ayres) McCrady.

Globiceps tiarella Ayres, Proc. Boston soc. nat. hist., 1852, vol. 4, p. 193. "SAG HARBOR, L[ONG] I[SLAND], NEW YORK."

Pennaria tiarella Hargitt, Bull. U. S. bureau of fisheries, 1905, vol. 24, p. 32, pl. 3. Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 25, pl. 1, fig. 2-5.

West Indies to Maine.

ME.

MASS.—Massachusetts Bay, Woods Hole, Buzzards Bay.

R. I.—Newport.

9. STEENSTRUPIA VIRGULATA (A. Agassiz) Mayer.

Euphysa virgulata A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 189, fig. 316-319. "MASSACHUSETTS BAY, NAHANT."

MASS.—Massachusetts Bay, Woods Hole.

Probably the same as the European *S. aurata* Forbes.

10. HYBOCODON PENDULA (L. Agassiz) Haeckel.

Corymorpha pendula L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, pp. 276, 343, pl. 26, fig. 7-17. "MASSACHUSETTS BAY."

Hybocodon pendula Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 41, pl. 2, fig. 2.

ME.—Eastport, 5 to 20 fathoms (hydroid); Kittery.

N. H.—Portsmouth.

MASS.—Nahant, Race Point, Chatham, Vineyard Sound, 10 to 100 fathoms (hydroid). Medusa, April and May.

11. HYBOCODON PROLIFER L. Agassiz.

L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, pp. 243, 343, pl. 23a, figs. 10, 11; pl. 25. "NAHANT."

Boreal, widely distributed in the North Atlantic.

MASS.—Massachusetts Bay, Nahant, Woods Hole, Vineyard Sound.

Georges Bank.

12. ECTOPLEURA OCHRACEA A. Agassiz.

A. Agassiz, in L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 343, footnote. "NAUSHON, BUZZARD'S BAY."

Ectopleura dumortieri Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 69, pl. 5, figs. 4, 5; pl. 6, figs. 1, 1', 2.

Cape Cod southward, summer and autumn. Not known from north of Cape Cod.

MASS.—Naushon, Woods Hole, Buzzards Bay.

R. I.—Newport.

Probably the same as the European *E. dumortieri*.

CLADONEMIDAE.

13. ZANCLEA GEMMOSA McCrady.

McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 151, pl. 8, figs. 4, 5. [CHARLESTON HARBOR, SOUTH CAROLINA.] Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 88, pl. 6, fig. 7; pl. 7, fig. 5; pl. 8, figs. 4, 5.

A southern species unknown north of Cape Cod. West Indies to southern New England.

MASS.—Buzzards Bay, Naushon, Woods Hole.

R. I.—Newport, common in late summer.

14. ZANCLEA CLADOPHORA (A. Agassiz) Hartlaub.

Gemmaria cladophora A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 184, fig. 307-310. "MASSACHUSETTS BAY, NAHANT."

MASS.—Massachusetts Bay, Woods Hole.

R. I.—Newport.

CYTAEIDAE.

15. PODOCORYNA CARNEA M. Sars.

M. Sars, Fauna littoralis Norvegiae, 1846, pt. 1, p. 4, pl. 1, fig. 7-18. "BEI FLORÖE UND MANGER."

Podocoryne carnea Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 136, pl. 14, fig. 2-6; pl. 15, fig. 14; p. 138, fig. 74.

Atlantic coasts of Europe, the Mediterranean and South Africa. The American records are limited to southern New England, in late summer.

MASS.—Woods Hole region.

R. I.—Newport.

16. PODOCORYNA FULGURANS (A. Agassiz) Mayer.

Dysmorphosa fulgurans A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 163, figs. 259, 260. "MASSACHUSETTS BAY, NAHANT...BUZZARD'S BAY, NAUSHON."

Podocoryne fulgurans Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 139, pl. 12, fig. 5-9; pl. 13, fig. 3-5.

North Carolina to southern New England.

MASS.—Massachusetts Bay, Vineyard Sound, Woods Hole region.

R. I.—Newport, abundant in late summer in Narragansett Bay.

17. LYMNOREA BOREALIS Mayer.

Mayer, Bull. Mus. comp. zool., 1900, vol. 37, p. 6, pl. 5, fig. 16-18.

"EASTPORT HARBOR, MAINE." Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 154, pl. 15, fig. 1-3.

ME.— Eastport.

18. *TURRITOPSIS NUTRICULA* (McCrady).

Oceania (Turritopsis) nutricula McCrady, Proc. Elliott soc. nat. hist., 1856, vol. 1, pp. 55, 58, pls. 4, 5. [CHARLESTON HARBOR, SOUTH CAROLINA.]

Turritopsis nutricula Brooks, Mem. Boston soc. nat. hist., 1886, vol. 3, p. 388, pl. 37. Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 143, pl. 14, fig. 10-13; pl. 15, fig. 10-13.

Various localities from Cuba and the Bahamas to southern New England; not known north of Cape Cod.

MASS.— Woods Hole, Vineyard Sound, Naushon, Buzzards Bay.
R. I.— Newport.

19. *STYLACTIS HOOPERI* Sigerfoos.

Sigerfoos, Amer. nat., 1899, vol. 33, p. 806, fig. 1-5. "COLD-SPRING HARBOR, LONG ISLAND, [NEW YORK]."

MASS.— Woods Hole.

BOUGAINVILLIIDAE.

20. *BOUGAINVILLIA SUPERCILIARIS* (L. Agassiz).

Hippocrene superciliaris L. Agassiz, Mem. Amer. acad. arts and sci., 1850, new ser., vol. 4, p. 273, pl. 1-3. "MASSACHUSETTS."

Boreal, widely distributed in North Atlantic and Arctic waters. The medusa appears in April south of Cape Cod; north of that point in summer.

ME.— Eastport.

MASS.— Massachusetts Bay, Woods Hole region, Vineyard Sound.

R. I.— Newport.

21. BOUGAINVILLIA GIBBSI Mayer.

Mayer, Bull. Mus. comp. zoöl., 1900, vol. 37, p. 5, pl. 4, figs. 14
15. "NEWPORT HARBOR, RHODE ISLAND."

R. I.—Newport.

Probably the same as the European *B. autumnalis* Hartlaub.

22. BOUGAINVILLIA CAROLINENSIS (McCrary) Allman.

Hippocrene carolinensis McCrary, Proc. Elliott soc. nat. hist.,
1857, vol. 1, p. 164, pl. 10, fig. 8-10. [CHARLESTON HARBOR,
SOUTH CAROLINA.]

Bougainvillia carolinensis Mayer, Publ. Carnegie inst., 1910, no.
109, vol. 1, p. 165, pl. 16, fig. 7-9; pl. 17, fig. 7.

A southern species known from the Tortugas, South Carolina,
and southern New England; rare north of Cape Cod.

ME.—Casco Bay.

MASS.—Woods Hole region, Vineyard Sound, Naushon.

R. I.—Newport.

23. NEMOPSIS BACHEI L. Agassiz.

L. Agassiz, Mem. Amer. acad. arts and sci., 1850, new ser., vol. 4,
p. 289, text-fig. "IN THE HARBOUR OF NANTUCKET."

Numerous localities, Florida to southern New England. Not
known north of Cape Cod.

MASS.—Nantucket, Vineyard Sound, Naushon, Woods Hole.

24. RATHKEA BLUMENBACHII (Rathke) Brandt.

Oceania blumenbachii Rathke, Mém. Acad. sci. St. Pétersbourg,
mém. des sav. étrang., 1835, vol. 2, p. 321, pl. 1, fig. 1-4. "SEVAS-
TOPOL."

Rathkea octopunctata and var. *grata* Mayer, Publ. Carnegie inst.,
1910, no. 109, vol. 1, pp. 177, 179, pl. 18, fig. 5; pl. 20, fig. 11.

Widely distributed in the North Atlantic, and in the Labrador
current.

Mass.—Massachusetts Bay (February to June), Woods Hole region (April to August).

R. I.—Newport (February to June).

AMPHINEMIDAE.

25. *AMPHINEMA APICATA* (McCrady) Haeckel.

Saphenia apicata McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 129, pl. 8, figs. 2, 3. [CHARLESTON HARBOR, SOUTH CAROLINA.]

Stomotoca dinema [American Medusa], Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 110, pl. 9, fig. 8-10; pl. 10, fig. 2-4.

A southern species not known north of Cape Cod.

R. I.—Newport, July 15 to September.

Probably the same as the European *A. dinema* (Péron and Lesueur) Browne.

26. *AMPHINEMA RUGOSA* (Mayer) Bigelow.

Stomotoca rugosa Mayer, Bull. Mus. comp. zool., 1900, vol. 37, p. 4, pl. 2, fig. 5. "NEWPORT, RHODE ISLAND, AND . . . CHARLESTON, SOUTH CAROLINA." Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 112, pl. 10, figs. 5, 6; pl. 11, figs. 1, 2.

Florida to southern New England.

R. I.—Newport, summer.

PANDEIDAE.

27. *LEUCKARTIARA OCTONA* (Flemming) Hartlaub.

Geryonia octona Flemming, Edinburgh philos. journ., 1823, vol. 8, p. 299.

Leuckartiara octona Hartlaub, Nordisches plankton, 1914, pt. 17, no. 12, p. 285, fig. 238-253.

Widely distributed on both sides of the North Atlantic.

ME.—Eastport region; Grand Manan.

R. I.—Newport.

28. CATABLEMA VESICARIA (A. Agassiz) Haeckel.

Turris vesicaria A. Agassiz, Proc. Boston soc. nat. hist., 1862, vol. 9, p. 97. "NAHANT, [MASSACHUSETTS]." A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 164, fig. 261-268.

Catablema vesicaria Bigelow, Proc. U. S. nat. mus., 1909, vol. 37, p. 304, pl. 30, figs. 3, 4; pl. 31, fig. 6.

Catablema vesicarium Hartlaub, Nordisches plankton, 1914, pt. 17, no. 12, p. 315, fig. 263-267.

An Arctic species seldom taken south of Cape Cod.

ME.—Eastport.

MASS.—Nahant.

R. I.—Newport (young).

WILLIIDAE.

29. PROBOSCIDACTYLA ORNATA (McCrady) Browne.

Willsia ornata McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 149, pl. 9, fig. 9-11. [CHARLESTON HARBOR, SOUTH CAROLINA.]

Willia ornata A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 171, fig. 274a-279.

Proboscidactyla ornata Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 1, p. 189, pl. 20, fig. 1-10.

A southern species not recorded north of Cape Cod.

MASS.—Naushon, Woods Hole, Buzzards Bay.

R. I.—Newport.

LEPTOMEDUSAE.

THAUMANTHIDAE.

30. MELICERTUM CAMPANULA (Fabricius) A. Agassiz.

Medusa campanula Fabricius, Fauna Groenlandica, 1780, p. 366. [WEST GREENLAND.]

Melicertum campanula A. Agassiz, Mem. Mus. comp. zool., 1865,

vol. 1, no. 2, p. 130, fig. 202-214. Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 207, pl. 23, figs. 4, 5; pl. 24, fig. 5.

Boreal; New England coast north of Cape Cod.

ME.—Eastport, Grand Manan, Penobscot Bay, summer.

N. H.—Portsmouth, July.

MASS.—Massachusetts Bay, Salem, Nahant, Cohasset (May and June), Cape Cod.

31. *STOMOBRACHIUM TENTACULATUM* L. Agassiz.

L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 361. "MASSACHUSETTS BAY, NAHANT." A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 98, fig. 140-142.

MASS.—Nahant. Not recorded since 1865.

32. *ORCHISTOMA TENTACULATA* Mayer.

Mayer, Bull. Mus. comp. zool., 1900, vol. 37, p. 8, pl. 5, fig. 19. "NEWPORT, RHODE ISLAND."

R. I.—Newport.

33. *LAODICEA CALCARATA* A. Agassiz.

A. Agassiz, in L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 350, footnote. "NAUSHON, BUZZARD'S BAY."

Lafoca calcarata A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 122, fig. 184-194.

Atlantic coast of the United States, south of Cape Cod.

MASS.—Naushon, Vineyard Sound, Woods Hole, summer.

Probably the same as the European *L. cruciata*.

34. *STAUROPHORA MERTENSII* Brandt.

Brandt, Mém. Acad. sci. St. Pétersbourg, 1838, ser. 6, sci. math. phys. et nat., vol. 4, pt. 2, sci. nat., p. 400, pls. 24, 25. "NORD-FOLKSUNDE."

Staurophora laciniata L. Agassiz, Mem. Amer. acad. arts and sci.,

1850, new ser., vol. 4, p. 308, pl. 7. A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 136, figs. 215a, 216a-219.

Abundant north of Cape Cod, occasional in spring off southern New England.

ME.—Grand Manan, Eastport, summer; off Casco Bay, July.

MASS.—Boston Harbor, Nahant, April to July, Cape Cod, Vineyard Sound, Woods Hole.

Gulf of Maine; German Bank; Platt's Bank.

35. *PTYCHOGENA LACTEA* A. Agassiz.

A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 137, fig. 220-224. "MASSACHUSETTS BAY, NAHANT."

A boreal species not known south of Cape Cod.

MASS.—Nahant.

MITROCOMIDAE.

36. *HALOPSIS OCELLATA* A. Agassiz.

A. Agassiz, Proc. Boston soc. nat. hist., 1863, vol. 9, p. 220. "NAHANT." Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 99, fig. 143-150.

Not recorded south of Cape Cod.

ME.—Grand Manan.

MASS.—Massachusetts Bay, Nahant.

Gulf of Maine, off Casco Bay.

37. *TIAROPSIS DIADEMATA* L. Agassiz.

L. Agassiz, Mem. Amer. acad. arts and sci., 1850, new ser., vol. 4, p. 298, pl. 6, fig. 1-18; pl. 8, fig. 11. "ALONG THE WHARVES OF BOSTON HARBOUR." L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 308, pl. 31, fig. 9-15.

Boreal, common on the northern New England coast March to May; occasional south of Cape Cod.

ME.—Eastport region, Casco Bay.

MASS.—Massachusetts Bay, Nahant, Boston, Cohasset, Cape Cod, Woods Hole.

38. MITROCOMA CRUCIATA (A. Agassiz) Mayer.

Halopsis cruciata A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 102, figs. 151, 152. "MASSACHUSETTS BAY, NAHANT."

MASS.—Massachusetts Bay.

Gulf of Maine, northeast part.

Probably the same as the European *M. annae* Haeckel.

EUCOPIDAE.

39. OBELIA GENICULATA (Linné) Allman.

Sertularia geniculata Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 812. "IN OCEANO."

Eucope diaphana A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 83, fig. 115-125.

Obelia sp. (*geniculata*?) Böhm, Jena. zeitschr., 1878, vol. 12, p. 174, pl. 3, fig. 1-34.

A world-wide species, abundant on the New England coast.

ME.—Penobscot Bay, Casco Bay.

MASS.—Massachusetts Bay, Woods Hole region.

R. I.—Newport.

40. OBELIA PLANA (M. Sars) Haeckel.

Thaumantias? plana M. Sars, Beskrivelser og jagttagelser, 1835, p. 28, pl. 5, fig. 13a-13g. "FLORÖEN OM FORAARET," NORWAY.

Obelia flabellata Hincks, British hydroid zoophytes, 1868, p. 157, pl. 29.

Rocky tide-pools on both sides of the North Atlantic.

MASS.—Nahant, off Thimble Island, 4 to 5 fathoms, Woods Hole.

41. *OBELIA LONGISSIMA* (Pallas) Hincks.

Sertularia longissima Pallas, Elenchus zoophytorum, 1766, p. 119.

"OCEANUS EUROPAEUS. . . . IN MARI BELGIUM."

Obelia longissima Hincks, British hydroid zoophytes, 1868, p. 154, pl. 27.

Common on both sides of the North Atlantic.

ME.—Casco Bay.

MASS.—Woods Hole, and 40 miles southeast of No Man's Land.

42. *OBELIA GELATINOSA* (Pallas) Hincks.

Sertularia gelatinosa Pallas, Elenchus zoophytorum, 1766, p. 116.

"MARE BELGIUM ALLUENS."

Obelia gelatinosa Hincks, British hydroid zoophytes, 1868, p. 151, pl. 26, figs. 1, 1', 1a.

Abundant in the Mediterranean, and both sides of the North Atlantic. Not known north of Cape Cod.

MASS.—Vineyard Sound.

R. I.—Coast.

CONN.—New Haven.

43. *OBELIA COMMISSURALIS* McCrady.

McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 197, pl. 11, fig. 5-7. "SULLIVAN'S ISLAND, [SOUTH CAROLINA]." A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 91, figs. 134, 135.

Abundant along the New England coast.

ME.—Eastport region.

MASS.—Massachusetts Bay, Woods Hole region.

R. I.—Newport.

44. *OBELIA DICHOTOMA* (Linné) Hincks.

Sertularia dichotoma Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 812.

"IN OCEANO."

Obelia dichotoma Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 246, pl. 30, fig. 1-4.

Common on both sides of the North Atlantic.

ME.— Eastport region, Casco Bay.

MASS.— Massachusetts Bay, Nahant, Marthas Vineyard, Woods Hole region.

R. I.— Newport.

45. *CLYTIA VOLUBILIS* (Ellis and Solander) Lamouroux.

Sertularia volubilis Ellis and Solander, Nat. hist. zoophytes, 1786, p. 51, pl. 4, figs. e, f, E, F. "COAST OF SUSSEX."

Clytia bicophora A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 78, fig. 108-111.

Clytia volubilis Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 262, pl. 32, fig. 1-7.

Widely distributed on the northern coasts of Europe and the United States.

ME.— Eastport region.

MASS.— Massachusetts Bay, Vineyard Sound, Woods Hole, Buzzards Bay.

R. I.— Newport.

46. *CLYTIA FOLLEATA* (McCrady) Mayer.

Epenthesis folleata McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 191. "CHARLESTON HARBOR, [SOUTH CAROLINA]."

Clytia folleata Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 264, pl. 31, figs. 9, 10; pl. 33, fig. 1-3.

Coast of the United States from southern New England to the West Indies. Not known north of Cape Cod.

MASS.— Vineyard Sound, Woods Hole, summer.

R. I.— Newport, summer.

47. *EUCHEILOTA VENTRICULARIS* McCrady.

McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 187, pl. 11,

fig. 1-3; pl. 12, figs. 1, 2. [CHARLESTON HARBOR, SOUTH CAROLINA.] Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 282, pl. 37, fig. 5; pl. 38, fig. 1-1".

Atlantic coast of the United States between southern New England and the Tortugas. Not recorded north of Cape Cod.

MASS.—Naushon, Woods Hole, Buzzards Bay, Vineyard Sound.
R. I.—Newport.

48. *PHIALIUM DUODECIMALIS* (A. Agassiz) Haeckel.

Eucheilota duodecimalis A. Agassiz, in L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 353, footnote. "NAUSHON." A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 75, figs. 106, 107, 107a. Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 283, pl. 36, fig. 6; pl. 37, figs. 1, 2.

A southern species not known north of Cape Cod.

MASS.—Naushon, Woods Hole.
R. I.—Newport.

49. *PHIALIDIUM LANGUIDUM* (A. Agassiz) Haeckel.

Oceania languida A. Agassiz, in L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 353, footnote. "NAHANT AND NAUSHON." A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 70, fig. 94-102.

Phialidium languidum Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 269, pl. 33, fig. 4-8; pl. 34, fig. 5.

Abundant in summer on the New England coast, and in the Gulf of Maine near land; occasional as far south as South Carolina.

ME.—Eastport, Mt. Desert, Penobscot Bay, Casco Bay.
N. H.—Portsmouth.

MASS.—Massachusetts Bay, Nahant, Gloucester, Cohasset, Vineyard Sound, Buzzards Bay, Woods Hole.
R. I.—Newport.

50. PHIALIDIUM SINGULARIS (Mayer).

Oceania singularis Mayer, Bull. Mus. comp. zoöl., 1900, vol. 37, p. 7, pl. 4, figs. 12, 13. "NEWPORT HARBOR, RHODE ISLAND."

R. I.—Newport.

51. TIMA FORMOSA L. Agassiz.

L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 362, footnote. "MASSACHUSETTS BAY." A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 113, fig. 164-172. Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 315, pl. 41, fig. 1-3.

General on the southern New England coast in early spring; recorded in Massachusetts Bay, March to May, and September.

MASS.—Nahant, Gloucester (winter), Cape Cod, Vineyard Sound, Woods Hole, Buzzards Bay.

R. I.—Newport.

52. EUTIMA MIRA McCrady.

McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 190, pl. 11, figs. 8, 9. [CHARLESTON HARBOR, SOUTH CAROLINA.] Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 295, pl. 39, fig. 1; pl. 40, figs. 3, 3'; p. 297, fig. 160.

Coast of the United States between the West Indies and southern New England; not known north of Cape Cod.

MASS.—Woods Hole region, Vineyard Sound, late summer.

R. I.—Newport.

AEQUOREIDAE.

53. AEQUOREA AEQUOREA var. ALBIDA A. Agassiz.

Aequorea albida A. Agassiz, in L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 359, footnote. "NAUSHON." A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 110, fig. 160-162. Mayer,

Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 331, pl. 43, fig. 1-5; pl. 44, fig. 5; p. 329, fig. 189.

New England coast, June to October.

ME.—Eastport region.

MASS.—Buzzards Bay, Woods Hole, Naushon.

R. I.—Newport.

54. *AEQUOREA TENUIS* (A. Agassiz) Bigelow.

Rhegmatores tenuis A. Agassiz, in L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, p. 361, footnote. "NAUSHON, BUZZARD'S BAY." A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 95, fig. 136-138.

Southern New England in summer and early autumn; not known north of Cape Cod.

MASS.—Woods Hole, Naushon, Buzzards Bay.

R. I.—Newport.

55. *AEQUOREA GROENLANDICA* Péron and Lesueur.

Medusa aequorea Fabricius, Fauna Groenlandica, 1780, p. 364. [WEST GREENLAND.]

Aequorea groenlandica Péron and Lesueur, Ann. Mus. d'hist. nat. Paris, 1809, vol. 14, p. 339. "LA MER DU GROËNLAND."

Zygodactyla groenlandica A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 103, fig. 153-155 (*non* fig. 156). Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 335, pl. 44, fig. 1-4.

A northern species, known as far south as Newport, R. I., and represented by a distinct variety to North Carolina.

ME.—Eastport region.

MASS.—Massachusetts Bay, Vineyard Sound, Buzzards Bay, summer and autumn.

R. I.—Newport.

TRACHOMEDUSAE.

PETASIDAE.

56. GONIONEMUS MURBACHII Mayer.

Mayer, Sci. bull. Brooklyn inst. arts and sci., 1901, vol. 1, p. 5.
 "WOODS HOLL, MASSACHUSETTS." Mayer, Publ. Carnegie inst.,
 1910, no. 109, vol. 2, p. 343, pl. 45, fig. 1-4; pl. 46, fig. 1-3.

MASS.—Woods Hole, Vineyard Haven, Muskeget.

CONN.—Noank.

TRACHYNEMIDAE.

57. AGLAURA HEMISTOMA Péron and Lesueur.

Péron and Lesueur, Ann. Mus. d'hist. nat. Paris, 1809, vol. 14,
 p. 351. "CÔTES DE NICE." Haeckel, System der medusen, in
 Denkschr. med.-nat. ges. Jena, 1879, vol. 1, p. 275, pl. 16, figs. 1
 ("A. nausicaa"), 2 ("A. laterna"), 3, 4. Bigelow, Mem. Mus.
 comp. zoöl., 1909, vol. 37, p. 119, pl. 2, fig. 6.

Tropical; all oceans.

Gulf Stream, 60 miles south of Marthas Vineyard.

58. AGLANTHA DIGITALE (Fabricius) Haeckel.

Medusa digitale Fabricius, Fauna Groenlandica, 1780, p. 366,
 [WEST GREENLAND.]

Trachynema digitale A. Agassiz, Mem. Mus. comp. zoöl., 1865,
 vol. 1, no. 2, p. 57, fig. 81-86.

Aglantha digitale Mayer, Publ. Carnegie inst., 1910, no. 109, vol.
 2, p. 402, pl. 49, figs. 2, 2'.

North Atlantic north of lat. 40°.

ME.—Eastport region, summer.

MASS.—Massachusetts Bay, Chatham, Nantucket, Woods Hole
 region, chiefly in early spring.

Gulf of Maine.

59. RHOPALONEMA VELATUM Gegenbaur.

Gegenbaur, Zeitschr. wiss. zool., 1856, vol. 8, p. 251, pl. 9, fig.

- 1-5. [MESSINA.] Vanhöffen, Wiss. ergebn. deutschen tiefsee-exp., "Valdivia," 1902, vol. 3, p. 59, pl. 10, figs. 16, 28; pl. 11, fig. 32.
Tropical waters of all oceans.

MASS.—Vineyard Sound, Gulf Stream south of Nantucket.

GERYONIIDAE.

60. LIRIOPE SCUTIGERA McCrady.

McCrady, Proc. Elliott soc. nat. hist., 1857, vol. 1, p. 208.
[CHARLESTON HARBOR, SOUTH CAROLINA.] Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 2, p. 421, pl. 50, fig. 7-10; pl. 51, fig. 1; p. 422, fig. 278.

A southern species not recorded north of Cape Cod.

R. I.—Newport.

61. LIRIOPE TETRAPHYLLA (Chamisso and Eysenhardt) Gegenbaur.

Geryonia tetraphylla Chamisso and Eysenhardt, Nova acta Acad. Leop.-Carol., 1821, vol. 10, p. 357, pl. 27, fig. 2. "IN OCEANO INDICO."

Liriope tetraphylla Bigelow, Mem. Mus. comp. zoöl., 1909, vol. 37, p. 112, pl. 3, figs. 6, 7; pl. 4, figs. 2, 3.

Tropical and subtropical regions of all oceans.

MASS.—Gulf Stream, south of Marthas Vineyard.

NARCOMEDUSAE.

SOLMARIDAE.

62. PEGANTHA CLARA R. P. Bigelow.

R. P. Bigelow, Biol. bull., 1909, vol. 16, p. 80, figs. 1, 2. "NEAR THE BORDER OF THE GULF STREAM, OFF THE SOUTHERN COAST OF NEW ENGLAND."

MASS.—Borders of Gulf Stream, south of Woods Hole.

SIPHONOPHORAE.

CALYCOPHOREA.

SPHAERONECTIDAE.

1. SPHAERONECTES TRUNCATA (Will) Schneider.

Ersaea truncata Will, Horae tergestinae, 1844, p. 82, pl. 2, fig. 28.
[TRIEST.]

Monophyes gracilis Claus, Schriften zoöl. inhalts, Wien, 1874,
p. 29, pl. 4, fig. 8-14.

R. I.—Newport.

Only eudoxids have been recorded from New England.

DIPHYIDAE.

2. DIPHYES APPENDICULATA Eschscholtz.

Eschscholtz, System der Acalephen, 1829, p. 138, pl. 12, fig. 7.
"NÖRDLICHEN STILLEN MEERE." Bigelow, Mem. Mus. comp.
zoöl., 1911, vol. 38, p. 248, pl. 7, figs. 5, 6; pl. 8, figs. 7, 8; pl. 9, fig.
6; pl. 10, fig. 6; pl. 11, fig. 1.

Warmer parts of all oceans.

MASS.—South of Marthas Vineyard.

R. I.—Newport, late summer.

3. DIPHYOPSIS DISPAR (Chamisso and Eysenhardt) Haeckel.

Diphyes dispar Chamisso and Eysenhardt, Nova acta Acad.
Leop.-Carol., 1821, vol. 10, p. 365, pl. 33, fig. 4. "IN MARE PACI-
FICO AEQUINOCTIALIS."

Diphyopsis compressa Haeckel, Rep. sci. results...H. M. S.
Challenger, 1888, Zoöl., vol. 28, Siphonophorae, p. 153, pls. 33, 34.

A southern species; accidental on the New England coast south
of Cape Cod.

MASS.—Nantucket, and south of Marthas Vineyard; surface
waters of the Gulf Stream.

PHYSOPHORAE.

AGALMIDAE.

4. AGALMA ELEGANS (M. Sars) Fewkes.

Agalmopsis elegans M. Sars, Fauna littoralis Norvegiae, 1846, pt. 1, p. 32, pls. 5, 6 *partim*. "FLORÖE."

Agalma elegans Fewkes, Bull. Mus. comp. zool., 1881, vol. 8, p. 163, pls. 9, 10.

Atlantic and Indo-Pacific.

ME.—Eastport region (?).

R. I.—Newport; Gulf Stream south of Newport.

Gulf of Maine, eastern part.

5. STEPHANOMIA CARA (A. Agassiz) Metschnikoff.

Nanomia cara A. Agassiz, Proc. Boston soc. nat. hist., 1863, vol. 9, p. 181. "NAHANT." A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 200, fig. 331-350. Fewkes, Bull. Mus. comp. zool., 1888, vol. 13, p. 213, pl. 1-3.

ME.—Eastport region.

MASS.—Massachusetts Bay; off Cape Ann; off Cape Cod.

R. I.—Newport.

Gulf of Maine, central part; Georges Bank.

PHYSOPHORIDAE.

6. PHYSOPHORA HYDROSTATICA Forskål.

Physophora hydrostatica Forskål, Descriptiones animalium . . . quae in itinere orientali observavit, post mortem edidit Carsten Niebuhr, Hauniae, 1775, p. 119; Icones . . . 1776, pl. 33, fig. e. No locality. Claus, Zeitschr. wiss. zool., 1860, vol. 10, p. 295-332, pl. 25-27.

Physophora borealis M. Sars, Fauna littoralis Norvegiae, 1877, pt. 3, p. 32, pl. 5; pl. 6, fig. 1-8.

Oceanic.

Gulf of Maine, eastern part.

ANTHOPHYSIDAE.

7. ANTHOPHYSA FORMOSA (Fewkes) Haeckel.

Athorybia formosa Fewkes, Bull. Mus. comp. zoöl., 1882, vol. 9, p. 271, pl. 5, figs. 3, 4; pl. 6, fig. 7-14. "TORTUGAS."

Anthophysa formosa Bedot, Résultats des campagnes sci. Monaco, 1904, fasc. 27, p. 5, pl. 1, fig. 4-15.

MASS.— South of Marthas Vineyard.

PHYSALIIDAE.

8. PHYSALIA PHYSALIS (Linné) Schneider.

Portuguese Man-o'-War.

Holothuria physalis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 657. "IN PELAGO."

Physalia arethusa L. Agassiz, Contr. nat. hist. U. S., 1862, vol. 4, pp. 335, 367, pl. 35.

A southern species often recorded from southern New England.

ME.— Eastport region (one record).

MASS.— Vineyard Sound and adjacent waters; Nantucket, Tuckernuck.

R. I.— Newport.

PORPITIDAE.

9. PORPITA UMBELLA (O. F. Müller) Eschscholtz.

O. F. Müller, Beschäft. Berlin ges. naturforsch. freunde, 1776, vol. 2, p. 295, pl. 9, figs. 2, 3. [EQUATORIAL ATLANTIC.]

Porpita linnaeana A. Agassiz, Mem. Mus. comp. zoöl., 1883, vol. 8, no. 2, p. 12, pl. 7-12.

A southern species, not recorded north of Cape Cod.

MASS.— Vineyard Sound, Woods Hole, Nantucket.

R. I.— Newport.

VELELLIDAE.

10. VELELLA VELELLA (Linné) Schneider.

Medusa velella Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 660. "IN PELAGO . . . IN MARI MEDITERRANEO."

Velella mutica A. Agassiz, Mem. Mus. comp. zoöl., 1883, vol. 8, no. 2, p. 2, pl. 1-6.

A southern species not recorded north of Cape Cod.

MASS.—Vineyard Sound, Buzzards Bay, Nantucket.

R. I.—Newport.

SCYPHOMEDUSAE.

CHARYBDEIDA.

CHARYBDEIDAE.

1. TAMOYA HAPLONEMA F. Müller.

F. Müller, Abh. naturf. ges. Halle, 1859, vol. 5, p. 1, pl. 1; pl. 2, fig. 15-17; pl. 3, fig. 30-31. "DAS MEER VON SANTA CATHARINA [BRASILIENS] . . . BEI DESTERRO." Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 3, p. 513, pl. 57, fig. 2-2''.

Coasts of America between Brazil and southern New England.

CONN.—Branford Harbor.

STAUROMEDUSAE.

LUCERNARIIDAE.

2. HALICLYSTUS AURICULA H. James-Clark.

H. James-Clark, Journ. Boston soc. nat. hist., 1863, vol. 7, p. 559. "ANTICOSTI Is." Smithson. contr. knowledge, 1878, vol. 23, p. 13-92, pl. 1-11.

Common from Massachusetts Bay northward to Labrador, not known south of Cape Cod.

ME.—Eastport region, Mt. Desert Id., Casco Bay.

MASS.—Massachusetts Bay, Nahant, Cohasset.

3. *HALICLYSTUS SALPINX* H. James-Clark.

H. James-Clark, Journ. Boston soc. nat. hist., 1863, vol. 7, p. 563.
 "MT. DESERT IS., MAINE." Mayer, Publ. Carnegie inst., 1910,
 no. 109, vol. 3, p. 535, pl. 56, fig. 1-4.

ME.—Mt. Desert Id.

MASS.—Ram. Id., Manchester.

4. *LUCERNARIA QUADRICORNIS* O. F. Müller.

O. F. Müller, Prodröm. zool. Danicæ, 1776, p. 227. [CHRISTIANIA, NORWAY.] M. Sars, Fauna littoralis Norvegiæ, 1846, pt. 1, p. 20, pl. 3, fig. 1-7. H. James-Clark, Journ. Boston soc. nat. hist., 1863, vol. 7, p. 552.

Northern Europe, Greenland to northern New England; not recorded south of Cape Cod.

ME.—Eastport region, Owl's Head, Casco Bay.

MASS.—Massachusetts Bay.

5. *HALIMOCYATHUS PLATYPUS* H. James-Clark.

H. James-Clark, Journ. Boston soc. nat. hist., 1863, vol. 7, p. 537.
 "CHELSEA BEACH, MASS."

One record only.

MASS.—Massachusetts Bay.

6. *HALIMOCYATHUS LAGENA* (O. F. Müller) Haeckel.

Holothuria lagenam referens O. F. Müller, Prodröm. zool. Danicæ, 1776, p. 232. "GR[ŒNLAND,] UNNERAISUK."

Lucernaria auricula Milne-Edwards, Règne animal, zoophytes, 1849, pl. 63, 9 figs.

Manania auricula H. James-Clark, Journ. Boston soc. nat. hist., 1863, vol. 7, p. 542.

Atlantic coasts of Europe, Greenland, and northern New England.

ME.—Eastport.

MASS.—Massachusetts Bay.

CORONATA.

PERIPHYLLIDAE.

7. PERIPHYLLA HYACINTHINA Steenstrup.

Steenstrup, Acta et cat. Mus. Hafniensis, 1837. "GREENLAND."
Vanhöffen, Wiss. ergebn. deutschen tiefsee-exp., "Valdivia," 1902,
vol. 3, p. 23, pl. 2, fig. 9. Mayer, Publ. Carnegie inst., 1910, no.
109, vol. 3, pp. 545, 546, figs. 342, 343.

Intermediate depths of all oceans.

MASS.— Georges Bank.

DISCOPHORA.

PELAGIIDAE.

8. PELAGIA CYANELLA Péron and Lesueur.

Péron and Lesueur, Ann. Mus. d'hist. nat. Paris, 1809, vol. 14,
p. 349. "OCÉAN ATLANTIQUE SEPTENTRIONAL." L. Agassiz,
Contr. nat. hist. U. S., 1860, vol. 3, pls. 12, 13, 13a; *ibid.*, 1862,
vol. 4, pp. 128, 164.

A southern species, occasionally taken in the Gulf Stream south
of Marthas Vineyard; not recorded north of Cape Cod.

MASS.— Off Marthas Vineyard.

9. DACTYLOMETRA QUINQUECIRRHA (Desor) L. Agassiz.

Pelagia quinquecirrha Desor, Proc. Boston soc. nat. hist., 1848,
vol. 3, p. 76. "NANTUCKET BAY."

Dactylometra quinquecirrha Mayer, Publ. Carnegie inst., 1910, no.
109, vol. 3, p. 585, pl. 62-64A.

Tropics to southern New England; not recorded north of Cape
Cod.

MASS.— Buzzards Bay, Woods Hole, Nantucket.

R. I.— Newport.

CYANEIDAE.

10. CYANEA CAPILLATA (Linné) Eschscholtz.

Medusa capillata Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 660.
 "OCEANO SEPTENTRIONALI."

Cyanea capillata Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 3,
 p. 596, pl. 65, figs. 3, 4.

Cyanea arctica L. Agassiz, Contr. nat. hist. U. S., 1860, vol. 3,
 pl. 3-5a; pl. 10, fig. 1-17, 19-21, 23-30, 33-35, 37; 38; pl. 10a,
 fig. 1-4a, 5-12a, 14, 15; *ibid.*, 1862, vol. 4, pp. 87, 162.

ME.—Eastport region, Penobscot Bay, Casco Bay, August and
 September.

N. H.—Isles of Shoals.

MASS.—Nahant, Boston, Cohasset, Cape Cod, Woods Hole
 region.

R. I.—Newport, spring and early summer.

AURELIIDAE.

11. PHACELLOPHORA ORNATA (Verrill) Haeckel.

Callinema ornata Verrill, Amer. journ. sci., 1869, ser. 2, vol. 48,
 p. 117. "EASTPORT HARBOR." Fewkes, Bull. Mus. comp. zool.,
 1888, vol. 13, p. 235, pl. 6.

ME.—Eastport.

Probably the same as the European *P. sicula* Haeckel, and the
 North Pacific *P. ambiguum* Brandt.

12. AURELIA AURITA (Linné) Lamarck.

Medusa aurita Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 660.
 "IN MARI BALTHICO, OCEANO."

Aurelia flavidula L. Agassiz, Contr. nat. hist. U. S., 1860, vol. 3,

pl. 6-9; pl. 10, figs. 18, 22, 31, 32, 36; pl. 10a, figs. 4b, 13, 15a, 16-41; pl. 11-11b; pl. 11c, fig. 1-13; *ibid.*, 1862, vol. 4, pp. 10, 160. Cosmopolitan.

New England coast, Maine to Rhode Island, spring and summer.

ME.—Eastport region, Mt. Desert, Blue Hill Bay, Penobscot Bay, Casco Bay, Kittery.

N. H.—Portsmouth Harbor, Isles of Shoals.

MASS.—Gloucester, Nahant, Boston Harbor, Cohasset, Marthas Vineyard, Woods Hole region.

R. I.—Newport.

RHIZOSTOMIDAE.

13. RHOPILEMA VERRILLI (Fewkes) Mayer.

Nectopilema verrilli Fewkes, Amer. journ. sci., 1887, ser. 3, vol. 33, p. 120, pl. 4. "NEW HAVEN HARBOR."

Rhopilema verrillii Mayer, Publ. Carnegie inst., 1910, no. 109, vol. 3, p. 707, pl. 74, figs. 1, 1'; p. 708, fig. 424.

Coast of the United States between North Carolina and southern New England.

CONN.—New Haven, Thimble Id.; Branford Harbor.

CTENOPHORAE.

CYDIPPIDA.

MERTENSIIDAE.

1. MERTENSIA OVUM (Fabricius) Moersch.

Beroe ovum Fabricius, Fauna Groenlandica, 1780, p. 362. [WEST GREENLAND.]

Mertensia ovum A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 26, fig. 29-37.

A common Arctic species.

In winter the young is recorded from New Jersey; but the adult is not known south of Marthas Vineyard.

ME.—Eastport.

MASS.—Massachusetts Bay, Woods Hole (?).

PLEUROBRACHIIDAE.

2. PLEUROBRACHIA PILEUS (Fabricius) Vanhöffen.

Beroe pileus Fabricius, Fauna Groenlandica, 1780, p. 361. [WEST GREENLAND.]

Pleurobrachia rhododactyla L. Agassiz, Mem. Amer. acad. arts and sci., 1850, new ser., vol. 4, p. 317, pl. 1-5. A. Agassiz, Mem. Mus. comp. zoöl., 1865, vol. 1, no. 2, p. 30, fig. 38-51.

Probably cosmopolitan.

ME.—Bay of Fundy, Casco Bay, Penobscot Bay (?).

N. H.—Isles of Shoals.

MASS.—Massachusetts Bay, Woods Hole.

R. I.—Newport.

Gulf of Maine in general.

CESTIDA.

CESTIDAE.

3. CESTUM VENERIS Lesueur.

Venus girdle.

Lesueur, Nouv. bull. soc. philom. Paris, 1813, vol. 3, p. 282, pl. 5, fig. 1, A, B. "NICE."

Cestus veneris Chun, Fauna und flora d. Golfes von Neapel, 1880, Monogr. 1, p. 301, pl. 11, fig. 1-3; pl. 12.

A southern species not recorded north of Cape Cod.

MASS.—Georges Bank.

R. I.—Newport.

LOBATA.

BOLINOPSIDAE.

4. BOLINOPSIS INFUNDIBULUM (O. F. Müller) Mayer.

Beroë infundibulum O. F. Müller, Prodröm. zool. Danicae, 1776, p. 232. "GR[ÖENLAND,] IKPIARSURSAK."

Bolinopsis infundibulum Mayer, Publ. Carnegie inst., 1912, no. 162, p. 21, pl. 4, fig. 12-15.

Arctic Ocean and North Atlantic, south to Germany, and New England; possibly to the Mediterranean.

ME.—Eastport region, Penobscot Bay, Casco Bay.

MASS.—Nahant, Cohasset, Woods Hole.

Gulf of Maine in general.

5. MNEMIOPSIS LEIDYI A. Agassiz.

A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 20, fig. 22-24. "NAUSHON, BUZZARD'S BAY." Mayer, Publ. Carnegie inst., 1912, no. 162, p. 26, pls. 6, 7; pl. 8, fig. 46.

Coast of the United States between North Carolina and New England; not recorded north of Cape Cod.

MASS.—Naushon, Vineyard Sound, Buzzards Bay, Woods Hole.

R. I.—Newport.

BEROIDA.

BEROIDAE.

6. BEROË OVATA Bosc.

Bosc, Hist. nat. des vers, 1809, p. 149, pl. 18, fig. 1. [JAMAICA.] Chun, Fauna und flora d. Golfes von Neapel, 1880, Monogr. 1, p. 308, pl. 14, figs. 1, 2.

MASS.— Woods Hole.

Probably the same as the following species.

7. *BEROË CUCUMIS* Fabricius.

Fabricius, *Fauna Groenlandica*, 1780, p. 361. [WEST GREENLAND.] Mayer, *Publ. Carnegie inst.*, 1912, no. 162, p. 52, pl. 15, fig. 67; pl. 17, fig. 76.

North Atlantic; probably cosmopolitan.

ME.— Eastport, Penobscot Bay, Casco Bay.

MASS.— Vineyard Sound; Crab Ledge, off Chatham.

Gulf of Maine in general.

Doubtful List.

MEDUSAE CRASPEDOTAE.

CAMPANELLA PACHYDERMA A. Agassiz.

A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 52, fig. 70-75. "FOUND AT NAHANT."

This species is probably founded on a young stage of one of the Aeginidae.

SOLMARIS TETRANEMA Hargitt.

Hargitt, Biol. bull., 1902, vol. 4, p. 18, fig. 5. "NEAR THE GULF STREAM."

Probably the young of Solmissus.

CUNINA DISCOIDES Fewkes.

Fewkes, Bull. Mus. comp. zool., 1881, vol. 8, p. 161, pl. 2, fig. 8; pl. 4, figs. 1, 2. "NARRAGANSETT BAY."

Probably the young of Solmissus.

SCYPHOMEDUSAE.

CHARYBDEA VERRUCOSA Hargitt.

Charibdea verrucosa Hargitt, Amer. nat., 1902, vol. 36, p. 559, fig. 4. "WOODS HOLE."

Charybdea verrucosa Hargitt, Bull. U. S. bureau of fisheries, 1905, vol. 24, p. 65, pl. 5, fig. 5.

Too young for determination.

CTENOPHORAE.

LESUEURIA HYOPTERA A. Agassiz.

A. Agassiz, Mem. Mus. comp. zool., 1865, vol. 1, no. 2, p. 23, fig. 25-28. "MASSACHUSETTS BAY, AND NEWPORT, R. I."

MASS.—Massachusetts Bay, Woods Hole (?).

R. I.—Newport.

Probably regenerated *Bolinopsis infundibulum*.

CHECK LIST AND INDEX.

In this check list the + indicates a specimen in the Society's Museum;
the — that a trustworthy record exists.

Medusae Craspedotae.

	Page.	Me.	N. H.	Mass.	R. I.	Conn.	Gulf of Maine, etc.
<i>Aequorea aequorea</i> var. <i>albida</i> . . .	18	—		—	—		
<i>groenlandica</i>	19	—		—	—		
<i>tenuis</i>	19			—	—		
<i>Aglantha digitale</i>	20	—		—			—
<i>Aglaura hemistoma</i>	20						—
<i>Amphinema apicata</i>	10				—		
<i>rugosa</i>	10				—		
<i>Bougainvillia carolinensis</i>	9	—		—	—		
<i>gibbsi</i>	9				—		
<i>superciliaris</i>	8	—			—		
<i>Campanella pachyderma</i>	33			—			
<i>Catablema vesicaria</i>	11	—		—	—		
<i>Clytia folleata</i>	16			—	—		
<i>volubilis</i>	16	—		—	—		
<i>Corynitis agassizii</i>	5			—			
<i>Cunina discoides</i>	33				—		
<i>Ectopleura ochracea</i>	6			—	—		
<i>Eucheilota ventricularis</i>	16			—	—		
<i>Eutima mira</i>	18			—	—		
<i>Gonionemus murbachii</i>	20			—		—	
<i>Halopsis ocellata</i>	13	—		—			—
<i>Hybocodon pendula</i>	5	—	—	—			
<i>prolifer</i>	6			—			—
<i>Hydriethys mirus</i>	4				—		
<i>Laodicea calcarata</i>	12			—			
<i>Leuckartiara octona</i>	10	—			—		
<i>Liriope scutigera</i>	21				—		
<i>tetraphylla</i>	21			—			
<i>Lymnorea borealis</i>	7	—					
<i>Melicertum campanula</i>	11	—	—	—			
<i>Mitrocoma cruciata</i>	14			—			—
<i>Nemopsis bachei</i>	9			—			
<i>Obelia commissuralis</i>	15	—		—	—		
<i>dichotoma</i>	15	—		—	—		
<i>gelatinosa</i>	15			—	—	—	

	Page.	Me.	N. H.	Mass.	R. I.	Conn.	Gulf of Maine, etc.
<i>Obelia geniculata</i>	14	—		+	—		
<i>longissima</i>	15	—		—			
<i>plana</i>	14			—			
<i>Orchistoma tentaculata</i>	12				—		
<i>Pegantha clara</i>	21			—			
<i>Pennaria tiarella</i>	5	—		+	—		
<i>Phialidium languidum</i>	17	—	—	—	—		—
<i>singularis</i>	18				—		
<i>Phialium duodecimalis</i>	17			—	—		
<i>Podocoryna carnea</i>	7			—	—		
<i>fulgurans</i>	7			—	—		
<i>Proboscidaetyla ornata</i>	11			—	—		
<i>Ptychogena lactea</i>	13			—			
<i>Rathkea blumenbachii</i>	9			—	—		
<i>Rhopalonema velatum</i>	20			—			
<i>Sarsia haeckeli</i>	4			—			
<i>hargitti</i>	3			—			
<i>mirabilis</i>	3	—	—	—	—		
<i>reticulata</i>	3			—			
<i>Slabberia strangulata</i>	4			—	—		
<i>Solmaris tetranema</i>	33			—			
<i>Staurophora mertensii</i>	12	—		—			—
<i>Steenstrupia virgulata</i>	5			—			
<i>Stomobrachium tentaculatum</i> .	12			—			
<i>Stylactis hooperi</i>	8			—			
<i>Tiaropsis diademata</i>	13	—		—			
<i>Tima formosa</i>	18			+	—		
<i>Turritopsis nutricula</i>	8			—	—		
<i>Zanlea cladophora</i>	7			—	—		
<i>gemmosa</i>	6			—	—		

Siphonophoræ.

<i>Agalma elegans</i>	23	—			—		—
<i>Anthophysa formosa</i>	24			—			
<i>Diphyes appendiculata</i>	22			—	—		
<i>Diphyopsis dispar</i>	22			—			
<i>Physalia physalis</i>	24	—		+	—		
<i>Physophora hydrostatica</i>	23						—
<i>Porpita umbella</i>	24			—	—		
<i>Sphaeroneustes truncata</i>	22				—		
<i>Stephanomia cara</i>	23	—		—	—		—
<i>Velella velella</i>	25			—	—		

Scyphomedusae.

	Page.	Me.	N. H.	Mass.	R. I.	Conn.	Gulf of Maine, etc.
<i>Aurelia aurita</i>	28	—	—	+	—		
<i>Charybdea verrucosa</i>	33			—			
<i>Cyanea capillata</i>	28	—	—	—	—		
<i>Dactylometra quinquecirrha</i>	27			—	—		
<i>Halicystus auricula</i>	25	—		—			
<i>salpinx</i>	26	—		—			
<i>Halimocyathus lagena</i>	26	—		—			
<i>platypus</i>	26			—			
<i>Lucernaria quadricornis</i>	26	—		—			
<i>Pelagia cyanella</i>	27			—			
<i>Periphylla hyacinthina</i>	27			—			
<i>Phacellophora ornata</i>	28	—					
<i>Rhopilema verrilli</i>	29					+	
<i>Tamoya haplonema</i>	25					+	

Ctenophorae.

<i>Beroë ovata</i>	31			—			
<i>cucumis</i>	31	—		—			—
<i>Bolinopsis infundibulum</i>	31	—		—			—
<i>Cestum veneris</i>	30			—	—		
<i>Lesueuria hyoptera</i>	33			—	—		
<i>Mertensia ovum</i>	30	—		—			
<i>Mnemiopsis leidyi</i>	31			—	—		
<i>Pleurobrachia pileus</i>	30	—	—	—	—		—