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Occasional Papers

of the

Boston Society of Natural History

Volume 7

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Fauna of New England

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Part 2

List of the Invertebrates

Volume 2

Boston

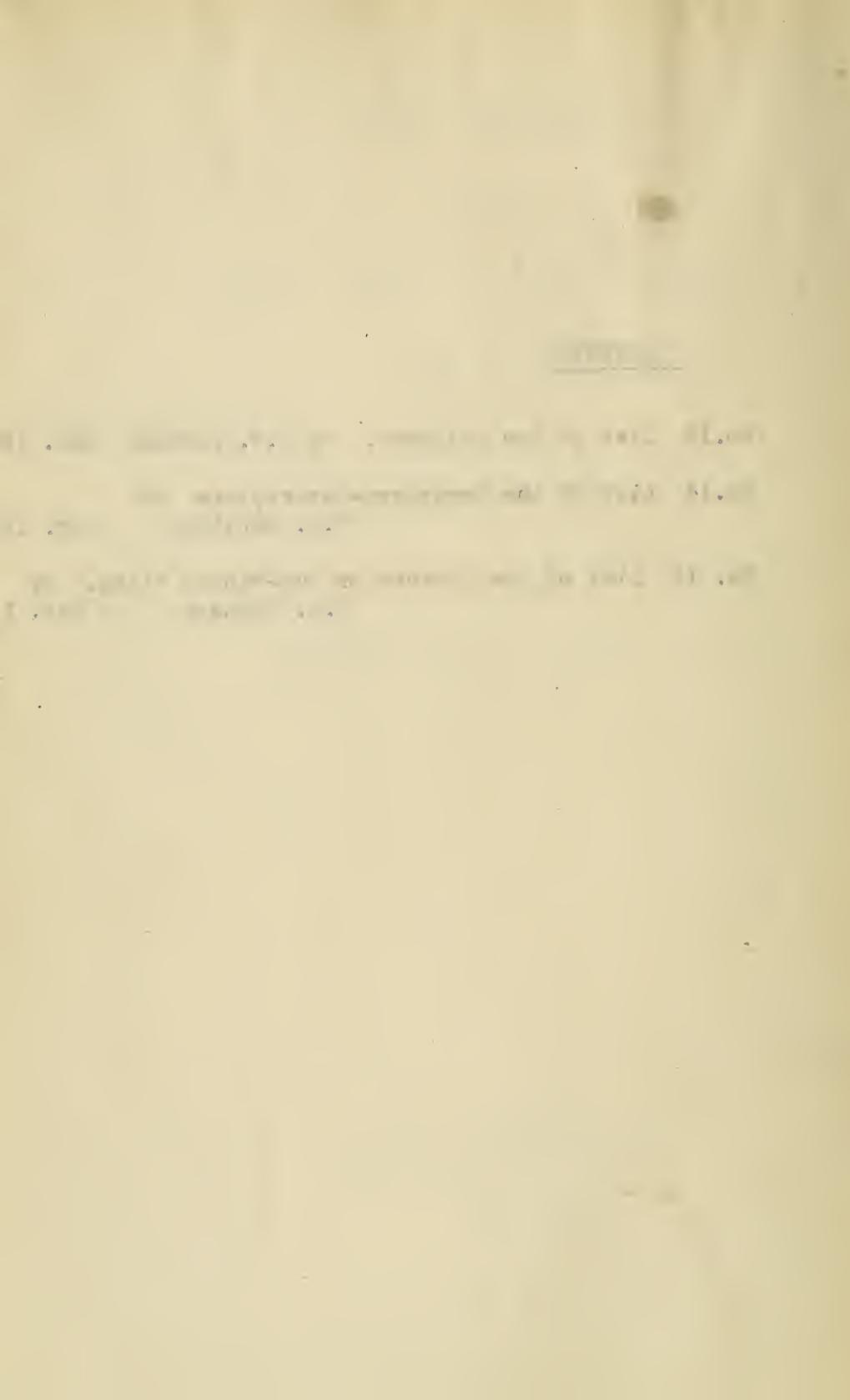
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13.

LIST OF THE MOLLUSCA.

BY CHARLES W. JOHNSON.

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## INTRODUCTION.

THE preparation of a faunal list of New England Mollusca at this time, when nomenclature is so unsettled by the adoption of the genera of Bolten and of other early writers, whose works were either overlooked or ignored by the "old school," is fraught with sad misgivings as one sees many of the names familiar from boyhood swept into the synonymous sea. Though fully believing in the law of priority, I should feel some hesitancy in presenting these names in a faunal list, were it not for the fact that practically all of these changes have been recently published, but so scattered through various journals and papers that their adoption has not yet become general.

The Gould-Binney edition of the Invertebrates of Massachusetts, published in 1870, is still *the* book on New England Mollusca and will continue to be for some time; therefore in preparing this list all of the names used in that work that have been changed, are given in the synonymy. The second work bearing directly on the fauna is Verrill's Report upon the Invertebrate Animals of Vineyard Sound and Adjacent Waters, published by the United States Commission of Fish and Fisheries in 1873. This was followed by his "Catalogue of Marine Mollusca added to the fauna of the New England coast and the adjacent parts of the Atlantic consisting mostly of deep sea species" published in three parts in the Transactions of the Connecticut Academy, 1882, 1884, and 1885. As the latter papers contained many species found far beyond what can be reasonably considered New England, the necessity of establishing a New England marine faunal area became apparent. A paper on this subject with the accompanying map was published in the Society's Museum and Library Bulletin, No. 7, May, 1908.

In forming this area we should take into consideration the diversity of conditions off our coast, such as the great irregularity in depth, the effect of currents and tides on the temperature of the water, and the character of the sea bottom. These are impor-

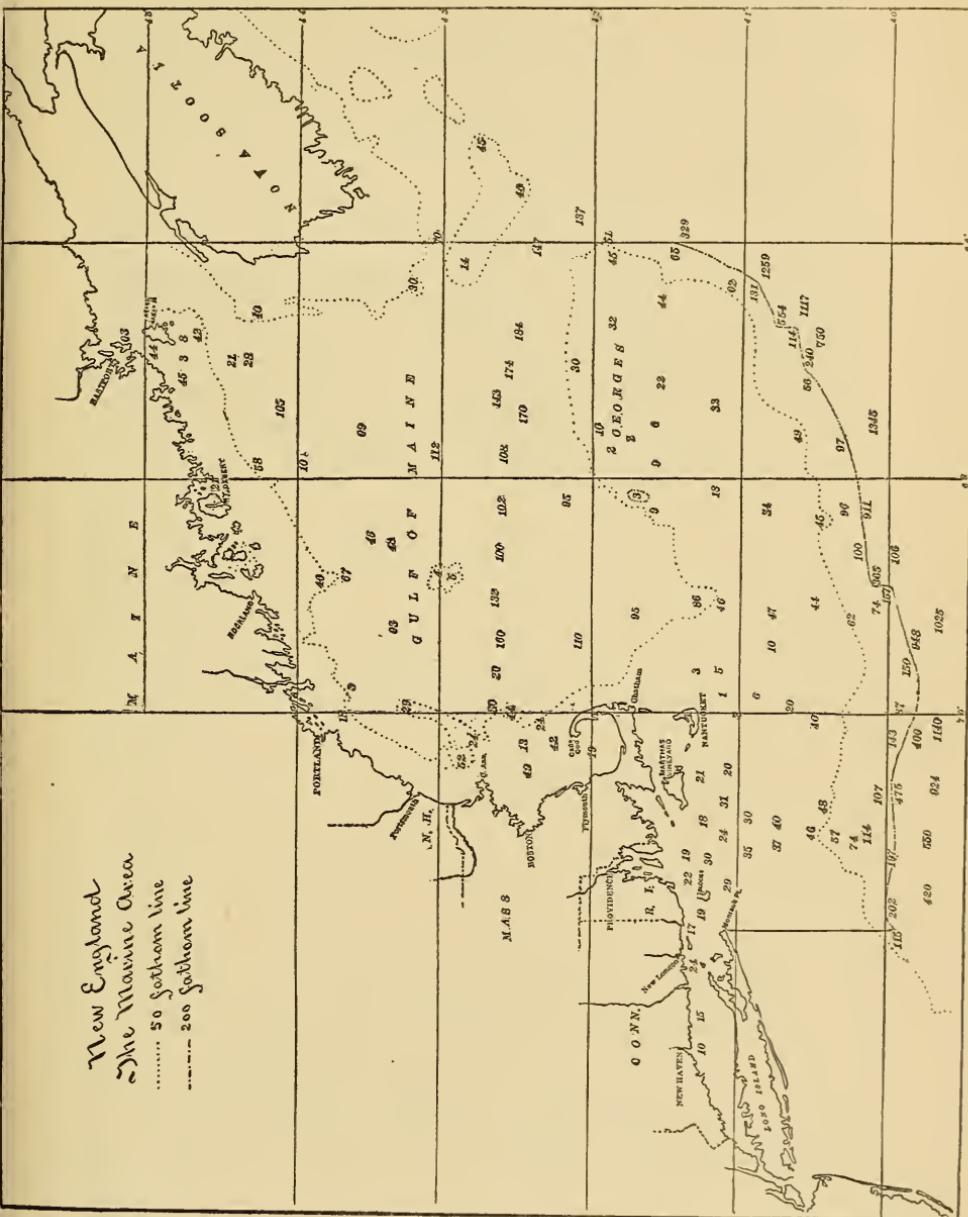
tant factors governing distribution and the area should be large enough to enable one to study the effects of these varied conditions to advantage. To appreciate fully the true gulf or land-locked character of the Gulf of Maine, one should study a chart covering the Gulf, adjacent coast lines, and banks. This shows at once the desirability of adopting the 200-fathom line, as any less depth would give a very irregular and impracticable boundary, there being several places in the Gulf of Maine deeper than 150 fathoms but not exceeding 200 fathoms, while all of the Georges Bank is less than 50 fathoms. The most convenient eastern boundary therefore would be the 66th meridian which just grazes the eastern edge of the Georges and includes the approach to the Bay of Fundy, the tides of which have such a great influence on the fauna of the Maine coast. On the eastern edge of the Georges at about 40° 30' north latitude the 66th meridian intersects the 200-fathom line, which practically skirts the edge of the continental shelf to a point directly south of Montauk Point, Long Island,—about 40° north latitude and 72° west longitude. This gives an area south of the Georges and Cape Cod, sufficient for the study of the influences of the Gulf Stream and counter currents. All of Long Island Sound except the bays and harbors of Long Island is also included in this area.

The land mollusks also present many interesting features in distribution, since New England is the northeastern limit of distribution of many species, such as *Polygyra palliata*, *Polygyra tridentata*, *Omphalina fuliginosa*, *Omphalina inornata*, etc., species common to the mountains of North Carolina and Tennessee. We can trace these species back and find that their line of dispersal from that region was probably first northward along the western ridges of the Alleghanies into central New York and thence eastward along the valleys of the Mohawk and Hudson Rivers into western New England. The distribution of *Helix hortensis*, confined to the islands and headlands of the coast, strengthens the theory of botanists and others of a large continuous land area to the eastward in comparatively recent geological times.

Of the species from deep water, only those actually taken within

## INTRODUCTION.

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the described area have been included, and as the Society has very few of those found below 50 fathoms, I have been unable to verify a large number of the species recorded. The list contains 738 species and 71 varieties. Those marked with an asterisk are in the collection of the Society and additions to the New England collection are especially desired.

In the work of preparing this list the writer is indebted to Francis N. Balch, Esq., for the list of Nudibranchs, to Dr. Henry B. Bigelow for many of the records of the Pteropods, to Dr. V. Sterki for assistance with the Sphaeridae, and to Messrs. William F. Clapp, Henry W. Winkley, Owen Bryant, Olof O. Nylander, N. W. Lermond, and others for specimens and records of distribution. The various collecting trips made for the Society by Dr. Joseph A. Cushman and the writer have not only added to our knowledge of distribution, but have also greatly enriched the collection.

## MOLLUSCA.

### AMPHINEURA.

#### POLYPLACOPHORA.

##### LEPIDOPLEURIDAE.

###### **Lepidopleurus alveolus** (Lovén).

Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 6, pl. 2, figs. 23–31.

*Chiton alveolus* (Sars MS.) Lovén, Öfvers. Kongl. Vet.-Akad. Förh., 1846, vol. 3, p. 159. “BOH[US]-BERGEN.”

Gulf of Maine, 150 fathoms; Georges Bank.

###### **Lepidopleurus cancellatus** (Sowerby).

Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 3, pl. 3, figs. 54–58.

*Chiton cancellatus* Sowerby, Conch. Illustr., 1839, pt. 167, figs. 104, 105. [GREAT BRITAIN.]

*Leptochiton cancellatus* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 534.

Gulf of Maine, Cashes Ledge, 30 to 40 fathoms (Verrill).

###### **Hanleya hanleyi** (Bean).

Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 17, pl. 3, figs. 71–79.

*Chiton hanleyi* Bean, Thorpe Brit. Mar. Conch., Suppl., 1844, p. 263, fig. 57. “SCARBOROUGH [, ENGLAND].”

MASS.—Stellwagen Bank, Massachusetts Bay, 38 fathoms.

###### **Hanleya mendicaria** (Mighels and Adams).

Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 18, pl. 4, figs. 82–85.

*Chiton mendicarius* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 42, pl. 4, fig. 8. "CASCO BAY."

ME.—Casco Bay, 30 fathoms; Frenchman's Bay, 25 to 30 fathoms; Eastport; Georges Bank.

#### ISCHNOCHITONIDAE.

##### \* *Chaetopleura apiculata* (Say).

Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 35, pl. 13, figs. 75-79.

*Chiton apiculatus* Say, Amer. Conch., 1830, app., pt. 7, p. —.  
"SOUTH CAROLINA \* \* CHARLESTON."

MASS.—Vineyard Sound and Buzzards Bay, 3 to 12 fathoms;  
Nantucket; Eastham.

CONN.—Off New London.

##### \* *Tonicella marmorea* (Fabricius).

Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 41, pl. 10, figs. 8-15.

*Chiton marmoreus* Fabricius, Fauna Groenlandica, 1780, p. 420.  
[GREENLAND.]

*Chiton fulminatus* Couthouy, Boston Journ. Nat. Hist., 1838,  
vol. 2, p. 80, pl. 3, fig. 19.

ME.—Casco Bay; Frenchman's Bay, low water to 50 fathoms;  
Eastport.

MASS.—Revere; Massachusetts Bay; off Baker's Island.

CONN.—From codfish taken off Stonington (Linsley).

##### *Tonicella marmorea coerulea* (Winkley).

*Chiton marmoreus* var. *coeruleus* Winkley, Nautilus, 1894, vol. 8,  
p. 78. "EASTPORT, [MAINE]."

ME.—Eastport.

**Tonicella blaneyi** Dall.

Dall, Proc. Biol. Soc. Wash., 1905, vol. 18, p. 203. "OFF IRONBOUND ISLAND, FRENCHMANS BAY, \*\*\* MAINE." Dall, Nautilus, 1905, vol. 19, p. 88, pl. 4.

ME.—Frenchman's Bay, off Ironbound Island, in 20 fathoms.

**\* Trachydermon albus** (Linné).

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 64.

*Chiton albus* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1107.  
"O. ISLANDICO."

*Ischnochiton (Trachydermon) albus* Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 70, pl. 7, figs. 35-38.

ME.—Casco Bay; Frenchman's Bay, 6 to 10 fathoms; Eastport.

N. H.—Isles of Shoals.

MASS.

**Trachydermon exaratus** (G. O. Sars).

Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 208, pl. 30, figs. 2-2b.  
*Lophyrus exaratus* G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 113, pl. 8, fig. 1. "Bodø."

MASS.—Off Marthas Vineyard, 101 to 192 fathoms.

**\* Trachydermon ruber** (Linné).

*Chiton ruber* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1107.  
"OCEANO SEPTENTRIONALI."

*Ischnochiton (Trachydermon) ruber* Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 80, pl. 7, figs. 50-56.

ME.—Casco Bay; Frenchman's Bay; Eastport.

MASS.—Revere; Swampscott.

R. I.—Off Watch Hill, 5 fathoms.

CONN.—Off New London, 8 fathoms.

**Trachydermon ruber index** (Balch).

*Tonicella ruber* var. *index* Balch, Nautilus, 1906, vol. 20, p. 66.  
“ BLUE HILL BAY, [MAINE].”

ME.— Blue Hill Bay, 12 fathoms.

## MOPALIIDAE.

**Plaxiphora atlantica** (Verrill and Smith).

Pilsbry, Manual Conch., 1892, ser. 1, vol. 14, p. 313, pl. 65, figs. 73–75; pl. 66, figs. 18–24.

*Placophora (Euplacophora) atlantica* Verrill and Smith in Verrill, Amer. Journ. Sci., 1882, ser. 3, vol. 24, p. 365. “ OFF NANTUCKET, 640 FATHOMS.” Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 206, pl. 30, figs. 1–1b.

MASS.— Off Nantucket Island, 122 fathoms.

## ACANTHOCHITIDAE.

**\*Amicula vestita** (Broderip and Sowerby).

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 43, pl. 8, figs. 23–26.

*Chiton vestitus* Broderip and Sowerby, Zool. Journ., 1829, vol. 4, p. 368. “ OCEANO ARCTICO.”

*Amicula emersonii* Gould, Inv. Mass., 1870, p. 264, fig. 527.

ME.— Casco Bay; Frenchman’s Bay.

MASS.— Massachusetts Bay, from fish.

## APLACOPHORA.

## CHAETODERMATIDAE.

**Chaetoderma nitidulum** Lovén.

Lovén, Öfvers. Kongl. Vet.-Akad. Förh., 1844, vol. 1, p. 116, pl. 2, “ IN ARGILLA FUNDI 15–40 ORG. AD ORAS SUECIAE OCCIDENTALIS.” Verrill, Proc. Amer. Assoc. Adv. Sci., 1874, vol. 22, p. 347, pl. 6, fig. 6.

ME.— Casco Bay, 48 to 64 fathoms (Verrill).

## PELECYPODA.

## PRIONODESACEA.

## SOLEMYIDAE.

\***Solemya velum** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 317,  
“SOUTHERN COAST [OF THE UNITED STATES].” Gould, Inv. Mass.,  
1870, p. 48, fig. 371.

*Solenomya velum* Morse, Biol. Bull., 1913, vol. 25, p. 261.

ME.—Casco Bay.

MASS.—Common in Buzzards Bay, Vineyard Sound, and Massachusetts Bay.

R. I.—Narragansett Bay.

CONN.—Near New Haven; Stratford and Long Beach.

\***Solemya borealis** Totten.

Totten, Amer. Journ. Sci., 1834, ser. 1, vol. 26, p. 366, pl., fig. 1.  
“VICINITY OF NEWPORT, [R. I.].” Gould, Inv. Mass., 1870, p. 50,  
fig. 372.

*Solenomya borealis* Morse, Biol. Bull., 1913, vol. 25, p. 261.

ME.—Casco Bay; Old Orchard.

MASS.—Chelsea Beach; Nahant; Annisquam; Coffin’s Beach;  
Cuttyhunk.

R. I.—Newport.

CONN.—Stonington.

## NUCULIDAE.

\***Nucula proxima truncula** Dall.

Dall, Trans. Wagner Free Inst. Sci., 1898, vol. 3, pt. 4, p. 574.  
“LONG ISLAND SOUND NORTHWARD TO NOVA SCOTIA.”

*Nucula proxima* Gould, Inv. Mass., 1870, p. 150, fig. 458.

ME. to CONN.—Common, in 2 to 30 fathoms.

**Nucula proxima ovata** (Verrill and Bush).

*Nucula proxima* var. *ovata* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 852, pl. 81, fig. 6; pl. 88, fig. 5. "VINEYARD SOUND, OFF CUTTYHUNK."

MASS.— Vineyard Sound, off Cuttyhunk, in 18 fathoms.

**\*Nucula delphinodonta** Mighels and Adams.

Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 40, pl. 4, fig. 5. "CASCO BAY." Gould, Inv. Mass., 1870, p. 153, fig. 461.

ME.— Casco Bay, 5 to 95 fathoms; Frenchman's Bay, 4 to 50 fathoms; Eastport, 10 to 100 fathoms.

MASS.— Off Cape Ann, 30 fathoms; off Gay Head, 19 fathoms; Revere; Duxbury.

R. I.— East of Block Island, 29 fathoms.

**\*Nucula tenuis** (Montagu).

Gould, Inv. Mass., 1870, p. 149, fig. 457.

*Arca tenuis* Montagu, Test. Brit., Suppl., 1808, p. 56, pl. 29, fig. 1. "NEAR DUNBAR, [SCOTLAND]."

ME.— Casco Bay; Frenchman's Bay, 10 to 20 fathoms; Eastport, 15 to 20 fathoms.

MASS.— "Georges Banks."

CONN.— ?Stonington (Linsley).

**Nucula subovata** Verrill and Bush.

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 852, pl. 81, fig. 8; pl. 83, fig. 5. "BETWEEN N. LAT.  $40^{\circ}$ , W. LONG.  $71^{\circ} 14' 30''$ , AND N. LAT.  $37^{\circ} 8'$ , W. LONG.  $74^{\circ} 33'$ , IN 157 TO 444 FATHOMS."

South of Marthas Vineyard, 157 fathoms.

## LEDIDAE.

**\*Leda tenuisulcata** (Couthouy).

Gould, Inv. Mass., 1870, p. 161, fig. 468.

*Nucula tenuisulcata* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 64, pl. 3, fig. 8. "MASS. BAY."

ME.—Casco Bay; Frenchman's Bay, 10 to 35 fathoms; Eastport, 10 to 35 fathoms.

N. H.—Off Isles of Shoals, 20 fathoms.

MASS.—From fish caught off Nahant; Provincetown; Duxbury; Georges Bank, 40 to 150 fathoms.

R. I.—Newport.

**Leda acuta** (Conrad).

*Nucula acuta* Conrad, Amer. Marine Conch., 1832, p. 32, pl. 6, fig. 3. "VIRGINIA" (fossil).

*Leda unca* Verrill, Proc. U. S. Nat. Mus., 1881, vol. 3, p. 401.

Seventy-three miles south of Marthas Vineyard, 65 to 219 fathoms.

R. I.—South of Newport, 85 to 155 fathoms.

**Leda caudata** (Donovan).

Gould, Inv. Mass., 1870, p. 165, fig. 471. Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 855, pl. 82, fig. 1.

*Area caudata* Donovan, Brit. Shells, 1801, vol. 3, pl. 78. "KENTISH COAST, [ENGLAND]."

Gulf of Maine, N. Lat. 42° 57', W. long. 69° 50', 102 fathoms.

**Leda pernula** (Müller).

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 855, pl. 82, fig. 2.

*Area pernula* Müller, Beschäft. Berlin. Naturf. Ges., 1779, vol. 4, p. 57. [Locality?]

*Leda jacksonii* Gould, Inv. Mass., 1870, p. 163, fig. 469 (in part).

In 216 fathoms, 95 miles SSW. of Marthas Vineyard, also in 95 fathoms off Halifax, N. S.

\***Yoldia limatula** (Say).

Gould, Inv. Mass., 1870, p. 154, fig. 462.

*Nucula limatula* Say, Amer. Conch., 1831, pt. 2, pl. 12 and explanatory pages. "NAHANT, MASSACHUSETTS."

ME.—Casco Bay, 2 to 12 fathoms; Somes Sound, Mt. Desert; Eastport, 6 fathoms.

Mass.—Salem and Boston Harbor, 1 to 10 fathoms; Vineyard Sound and Buzzards Bay.

CONN.—Stonington from codfish (Linsley); off New Haven, 4 to 6 fathoms.

\***Yoldia sapotilla** (Gould).

Gould, Inv. Mass., 1870, p. 159, fig. 466.

*Nucula sapotilla* Gould, Inv. Mass., 1841, p. 100, fig. 61. "VICINITY OF CAPE COD \* \* \* PROVINCETOWN HARBOUR."

ME.—Casco Bay; Frenchman's Bay, 15 to 35 fathoms; Eastport, 10 fathoms.

Mass.—Massachusetts Bay; Provincetown; off Gay Head, 19 to 25 fathoms; Duxbury.

R. I.—East of Block Island, 19 to 25 fathoms.

\***Yoldia myalis** (Couthouy).

Gould, Inv. Mass., 1870, p. 160, fig. 467.

*Nucula myalis* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 62, pl. 3, fig. 7. "COAST OF NEW ENGLAND."

ME.—Casco Bay; Frenchman's Bay, 10 to 15 fathoms; Eastport, 10 to 20 fathoms.

Mass.—Massachusetts Bay, from fish.

**Yoldia cascœensis** (Mighels and Adams).

*Nucula cascœensis* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 40, pl. 4, fig. 6. "CASCO BAY."

ME.—Casco Bay, from stomach of haddock.

**\*Yoldia (Portlandia) thraciaeformis** (Storer).

*Nucula thraciaeformis* Storer, Boston Journ. Nat. Hist., 1838, vol. 2, p. 122, fig. "FROM THE STOMACH OF A PLATESSA \*\*\* CAUGHT OFF PROVINCETOWN, CAPE COD."

*Yoldia thraciaeformis* Gould, Inv. Mass., 1870, p. 157, fig. 465.

*Megayoldia thraciaeformis* Verrill and Bush, Amer. Journ. Sci., 1897, ser. 4, vol. 3, p. 55, fig. 17.

ME.—Casco Bay, 15 fathoms; Frenchman's Bay, 10 to 28 fathoms; Eastport, 10 fathoms.

MASS.—Off Cape Cod, in about 30 fathoms.

**Yoldia (Microyoldia) regularis** (Verrill).

*Yoldia regularis* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 228. "OFF MARTHA'S VINEYARD, IN 349 FATHOMS."

*Microyoldia regularis* Verrill and Bush, Amer. Journ. Sci., 1897, ser. 4, vol. 3, p. 56, figs. 5, 6.

MASS.—Off Thatcher's Island, 98 fathoms.

**\*Yoldia (Yoldiella) lucida** (Lovén).

*Yoldia lucida* Lovén, Öfvers. Kongl. Vet.-Akad. Förh., 1846, vol. 3, p. 188. "BOH[US]—FINM[ARK]."

*Yoldia obesa* Gould, Inv. Mass., 1870, p. 155, fig. 463.

*Yoldiella lucida* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 861, pl. 77, fig. 2; pl. 80, fig. 3.

ME.—Casco Bay and off Cape Elizabeth, 30 to 95 fathoms.

MASS.—Massachusetts Bay; near the Georges Bank, 110 to 150 fathoms.

R. I.—East of Block Island, 29 fathoms.

**Yoldia (Yoldiella) iris stricta** (Verrill and Bush).

*Yoldiella iris* var. *stricta* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 864, pl. 80, fig. 1. "OFF CAPE SABLE, 90 FATHOMS."

Gulf of Maine, off Cape Sable, 90 fathoms.

**Yoldia (Yoldiella) inflata** (Verrill and Bush).

*Yoldiella inflata* Verrill and Bush, Amer. Journ. Sci., 1897, ser. 4, vol. 3, p. 56, figs. 3, 4, 11. "SOUTH OF GEORGES' BANK TO CAPE HATTERAS."

Georges Bank, N. lat.  $41^{\circ} 53'$ , W. long.  $66^{\circ} 35'$ , 75 fathoms.

**Yoldia (Yoldiella) subangulata** (Verrill and Bush).

*Yoldiella subangulata* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 865, pl. 77, fig. 3; pl. 79, fig. 6. [OFF ISLES OF SHOALS.]

N. H.—Off Isles of Shoals, 51 fathoms.

**Yoldia (Yoldiella) lenticula ambla** (Verrill and Bush).

*Yoldiella lenticula* (Möller) var. *ambla* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 866, pl. 80, fig. 9; pl. 81, fig. 4. "NORTH OF CAPE COD."

MASS.—North of Cape Cod, 110 to 122 fathoms.

**Yoldia (Yoldiella) fraterna** (Verrill and Bush).

*Yoldiella fraterna* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 867, pl. 80, fig. 5; pl. 82, fig. 8. "BETWEEN N. LAT.  $47^{\circ} 40'$ , W. LONG.  $47^{\circ} 35' 30''$ , AND N. LAT.  $37^{\circ} 8'$ , W. LONG.  $74^{\circ} 33'$ ."

*Yoldia frigida* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 279 (in part; *non* Torell).

Off the New England coast in 90 to 160 fathoms.

**Yoldia (Yoldiella) frigida** Torell.

*Yoldia frigida* Torell, Bidrag Spitz. Moll., 1859, p. 148, pl. 1, fig. 3.

[SPITZBERGEN.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 573, pl. 44, fig. 2.

*Yoldiella frigida* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 872, pl. 79, fig. 4.

Gulf of Maine and Jeffrey's Ledge, 88 to 92 fathoms.

MASS.—Off Cape Cod, 106 fathoms; off Marthas Vineyard, 153 to 312 fathoms.

**Yoldia (Yoldiella) inconspicua** (Verrill and Bush).

*Yoldiella inconspicua* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 869, pl. 79, figs. 3, 5. "N. LAT.  $42^{\circ} 33'$ , W. LONG.  $69^{\circ} 58.5'$ , AND N. LAT.  $35^{\circ} 12' 10''$ , W. LONG.  $74^{\circ} 57' 15''$ , IN 100 TO 705 FATHOMS."

MASS.—Off Marthas Vineyard, 100 to 705 fathoms.

LIMOPSIDAE.

**Limopsis minuta** (Philippi).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 576. Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 846, pl. 75, fig. 1; pl. 78, fig. 7.

*Pectunculus minutus* Philippi, Enum. Moll. Siciliae, 1836, vol. 1, p. 63, pl. 5, fig. 3. [SICILY.]

MASS.—South of Marthas Vineyard, 93 to 715 fathoms.

**Limopsis affinis** Verrill.

Verrill, Trans. Conn. Acad., 1885, vol. 6, p. 442. [OFF MARTHAS VINEYARD.] Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 846, pl. 75, fig. 2.

MASS.—South of Marthas Vineyard, 197 fathoms.

**Limopsis sulcata** Verrill and Bush.

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 845, pl. 92, fig. 2; pl. 95, fig. 9; pl. 96, fig. 1. [OFF NANTUCKET SHOALS.]

MASS.—South of Nantucket Shoals, 64 to 349 fathoms.

**Limopsis cristata** Jeffreys.

Jeffreys, Ann. Mag. Nat. Hist., 1876, ser. 4, vol. 18, p. 434. “OFF \* \* IRELAND \* \* \* BAY OF BISCAY \* \* \* NORTH SEA.” Verrill, Proc. U. S. Nat. Mus., 1881, vol. 3, p. 402.

MASS.—South of Marthas Vineyard, 65 to 155 fathoms (Verrill).

## ARCIDAE.

**\*Arca (Noëtia) ponderosa** Say.

Tryon, Struct. Syst. Conch., 1884, vol. 3, p. 255, pl. 128, figs. 84, 85.

*Arca ponderosa* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 267. “SOUTHERN COAST [OF THE UNITED STATES].”

MASS.—Chatham; Monomoy Point; Edgartown, Marthas Vineyard.

**\*Arca (Scapharca) campechiensis pexata** Say.

*Arca pexata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 268. “COAST OF THE UNITED STATES.” Gould, Inv. Mass., 1870, p. 147, fig. 456.

*Arca campechiensis* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3312.

*Scapharca (Argina) campechiensis* Dall, Trans. Wagner Free Inst. Sci., 1898, vol. 3, pt. 4, p. 650.

MASS.—Provincetown; Chatham; Vineyard Sound; Buzzards Bay; Nantucket.

R. I.—Narragansett Bay; near Watch Hill.

CONN.—New Haven; Stratford; Branford.

**\**Arca (Scapharca) transversa* Say.**

*Arca transversa* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 269. "COAST OF THE UNITED STATES." Gould, Inv. Mass., 1870, p. 148, fig. 456a.

MASS.—Chatham; Buzzards Bay; Marthas Vineyard; Nantucket; Wellfleet.

R. I.—Narragansett Bay; Greenwich Bay; near Watch Hill.

CONN.—Off New London; New Haven; Stratford.

***Arca (Bathyarca) pectunculoides* Scacchi.**

*Arca pectunculoides* Scacchi, Test. Napolitani, 1832; Ann. Civ. d. Sicil., 1836, vol. 6, p. 82. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 573, pl. 44, figs. 5, 6.

ME.—Off Casco Bay, 94 fathoms; Cashe's Ledge, 27 to 90 fathoms; Gulf of Maine, 110 to 150 fathoms.

MASS.—Off Cape Cod, 92 to 122 fathoms; Georges Bank; south of Marthas Vineyard, 76 to 506 fathoms.

***Arca (Bathyarca) pectunculoides septentrionalis* G. O. Sars.**

*Arca pectunculoides* var. *septentrionalis* G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 43, pl. 4, fig. 2. "HASVIG [NORWAY.]"

MASS.—South of Marthas Vineyard, 79 to 500 fathoms (Verrill).

***Arca (Bathyarca) pectunculoides frielei* Friele.**

*Arca frielei* Friele (ex Jeffreys MS.), Nyt Mag. f. Naturv., 1877, vol. 23, pt. 3, p. 2. [NORTH ATLANTIC.] Jeffreys, Proc. Zool. Soc. London, 1879, p. 573, pl. 45, figs. 4, 4a.

*Arca pectunculoides* var. *frielei* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 574.

MASS.—South of Marthas Vineyard, 100 to 487 fathoms.

**Arca (Bathyarca) pectunculoides crenulata** Verrill.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 575. "OFF MARTHA'S VINEYARD."

MASS.—Off Marthas Vineyard, 85 to 120 fathoms.

**Arca (Bathyarca) anomala** (Verrill and Bush).

*Bathyarca anomala* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 844, pl. 77, fig. 8. "OFF CASHES LEDGE, [GULF OF MAINE]."

ME.—Off Cashes Ledge, Gulf of Maine, 27 fathoms.

## PTERIIDAE.

**Pteria hirundo vitrea** (Reeve).

Dall, Trans. Wagner Free Inst. Sci., 1898, vol. 3, pt. 4, p. 670.

*Avicula vitrea* Reeve, Conch. Icon., Avicula, 1857, vol. 10, pl. 18, fig. 68. "WEST INDIES."

*Avicula hirundo* var. *nitida* Verrill, Proc. U. S. Nat. Mus., 1881, vol. 3, p. 402; Trans. Conn. Acad., 1882, vol. 5, p. 582, pl. 58, fig. 43.

MASS.—South of Marthas Vineyard; found in considerable numbers adhering to hydroids, in 65 to 192 fathoms (Verrill).

## OSTREIDAE.

**\*Ostrea virginica** Gmelin.

## THE OYSTER.

Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3336. "OCEANO AMERICANO ET INDICO."

*Ostrea virginiana* Gould, Inv. Mass., 1870, p. 202. Brooks, The Oyster, Baltimore, ed. 2, 1905.

*Ostrea borealis* Lamarck, Hist. Nat. Anim. sans Vert., 1819, vol. 6, pt. 1, p. 204.

*O. virginica* var. *meadii* Davis, Apteryx, 1905, vol. 1, p. 117, pl. 9, fig. E (young).

Formerly living in Casco Bay and Damariscotta, Me.; once abundant in various parts of Massachusetts and Cape Cod Bays. Still living in Oyster River, Great Bay, N. H. Common in Vineyard Sound, Buzzards Bay, Narragansett Bay, and Long Island Sound. Southern oysters have been planted for a number of years in the waters of R. I. and Conn.

#### UNIONIDAE.

##### \***Lampsilis ventricosa** (Barnes).

Simpson, Descriptive Cat. Naiades, 1914, p. 38.

*Unio ventricosus* Barnes, Amer. Journ. Sci., 1823, ser. 1, vol. 6, p. 267, pl. 13, fig. 14. "THE WISCONSAN \*\*\* MISSISSIPPI, NEAR PRAIRIE DU CHIEN."

*Unio occidens* Lea, Trans. Amer. Phil. Soc., 1830, new ser., vol. 3, p. 435, pl. 10, fig. 16.

Vt.—Larrabee's Point; Shoreham; Chimney Point, Lake Champlain.

##### \***Lampsilis cariosa** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 43.

*Unio cariosus* Say, Nich. Encycl., 1816, vol. 2, pl. 3, fig. 2. "DELAWARE AND SCHUYLKILL RIVERS." Gould, Inv. Mass., 1870, p. 172, fig. 475.

ME.—Warren; Chickawaukee Pond; Perham Lake.

MASS.—Connecticut River; Haverhill; ponds in Plymouth Co.

CONN.—Connecticut and Housatonic Rivers.

##### \***Lampsilis ochracea** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 49.

*Unio ochraceus* Say, Nich. Encycl., 1816, vol. 2, pl. 3, fig. 8. "DELAWARE AND SCHUYLKILL RIVERS."

ME.—Orono; South Pond, Warren; Waldoboro; Chickawaukee Pond, Knox Co.

MASS.—Ponds of Plymouth Co.; Hatchville.

CONN.—Housatonic River; Connecticut River.

\***Lampsilis luteola rosacea** (DeKay).

Simpson, Descriptive Cat. Naiades, 1914, p. 62.

*Unio rosaceus* DeKay, Nat. Hist. N. Y., Moll., 1843, p. 192, pl. 39, figs. 355, 356. "SENECA LAKE, [N. Y.]"

VT.—Creek near Mallett's Bay, Lake Champlain (Perkins).

\***Lampsilis radiata** (Gmelin).

Simpson, Descriptive Cat. Naiades, 1914, p. 64.

*Mya radiata* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3220. "IN MALABARIAE FLUVIIS."

*Unio radiatus* Gould, Inv. Mass., 1870, p. 170, fig. 474.

ME. to CONN.—Common in most of the larger streams and lakes.

\***Lampsilis recta** (Lamarck).

Simpson, Descriptive Cat. Naiades, 1914, p. 95.

*Unio recta* Lamarck, Hist. Nat. Anim. sans Vert., 1819, vol. 6, pt. 1, p. 74. "LAC ERIE."

*Eurynea praelonga* Stimpson, Shells of New England, 1851, p. 13.

VT.—Shoreham; Chimney Point, Lake Champlain.

\***Lampsilis nasuta** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 97.

*Unio nasutus* Say, Nich. Encycl., 1816, vol. 2, pl. 4, fig. 1. "DELAWARE AND SCHUYLKILL RIVERS."

*Eurynea nasuta* Stimpson, Shells of New England, 1851, p. 13.

ME.

N. H.—Hampstead; Kingston.

MASS.— Wayland; Woburn; Newton; Fresh Pond, Cambridge; Plymouth; Concord.

R. I.— Providence; Rhodes; Warwick.

CONN.— Stonington; Hartford.

\***Lampsilis (Proptera) alata** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 162.

*Unio alatus* Say, Nich. Encycl., 1816, vol. 2, pl. 4, fig. 2. "LAKE ERIE."

*Metaptera alata* Stimpson, Shells of New England, 1851, p. 14.

Vt.— Larrabee's Point; Chimney Point, Lake Champlain.

\***Lampsilis (Proptera) gracilis** (Barnes).

Simpson, Descriptive Cat. Naiades, 1914, p. 181.

*Unio gracilis* Barnes, Amer. Journ. Sci., 1823, ser. 1, vol. 6, p. 274. "THE WISCONSAN \* \* \* AND THE LAKES".

*Metaptera gracilis* Stimpson, Shells of New England, 1851, p. 14.

Vt.— Larrabee's Point; Shoreham; Chimney Point, Lake Champlain.

**Strophitus edentulus** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 345.

*Alasmadonta edentula* Say, New Harmony (Ind.) Disseminator, 1829, vol. 2, no. 22, p. 340. "WABASH RIVER."

*Anodon undulata* Gould, Inv. Mass., 1870, p. 182, fig. 482 (*non* Say).

Vt.— Lake Champlain and its tributary streams.

MASS.— Blackstone River and its tributaries; Westfield.

CONN.— Connecticut River at Hartford.

**Strophitus undulatus** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 349.

*Anodonta undulata* Say, Nich. Encycl., 1816, vol. 2, pl. 3, fig. 5.  
[UNITED STATES.]

ME.—Androscoggin River at Bethel; Warren; Aroostook Co.  
N. H.—Connecticut River at Hanover.

Vt.—Connecticut River at Hartland.

Mass.—Ware; Uxbridge; Bullock's Pond, Newton.

R. I.—Warwick; Providence; North Smithfield.

Conn.—Housatonic River.

\****Anodonta cataracta* Say.**

Say, Nich. Encycl., 1816, vol. 2, pl. 3, fig. 4. [UNITED STATES.]  
Simpson, Descriptive Cat. Naiades, 1914, p. 386.

*Anodon fluviatilis* Gould, Inv. Mass., 1870, p. 178, fig. 480.

ME. to Conn.—Common in most of the lakes and ponds.

\****Anodonta marginata* Say.**

Say, Nich. Encycl., 1816, vol. 2, pl. 3, fig. 5. [UNITED STATES.]  
Simpson, Descriptive Cat. Naiades, 1914, p. 388.

*Anodonta fragilis* Lamarck, Hist. Nat. Anim. sans Vert., 1819,  
vol. 6, pt. 1, p. 85.

*Anodonta lacustris* Lea, Journ. Acad. Nat. Sci. Phila., 1860, ser. 2,  
vol. 4, p. 363, pl. 62, fig. 188.

ME.—Salmon Brook Lake, Perham (Nylander); Warren  
(Lermond).

Vt.—Wallingford; Otter Creek.

\****Anodonta implicata* Say.**

Say, New Harmony (Ind.) Disseminator, 1829, vol. 2, no. 22, p.  
340. "DANVERS, MASS." Simpson, Descriptive Cat. Naiades,  
1914, p. 391.

*Anodonta newtoniensis* Lea, Trans. Amer. Phil. Soc., 1839, new  
ser., vol. 6, p. 79, pl. 21, fig. 66.

*Anodonta housatonica* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48, p. 277.

*Anodon implicata* Gould, Inv. Mass., 1870, p. 180, fig. 481.

ME.—Warren (Lermond); pond near Eastport (Mighels).

MASS.—Agawam River, East Wareham; Mystic Lake, Arlington.

R. I.—Cunliff Pond, Providence; Warwick; North Smithfield.

CONN.—Hartford.

\****Anodonta grandis benedictensis* (Lea).**

Simpson, Descriptive Cat. Naiades, 1914, p. 423.

*Sympynota benedictensis* Lea, Trans. Amer. Phil. Soc., 1837, vol. 5, p. 104, pl. 16, fig. 48. "LAKE CHAMPLAIN."

Vt.—Larrabee's Point; Chimney Point, Lake Champlain.

***Anodontoides ferussacianus* (Lea).**

Simpson, Descriptive Cat. Naiades, 1914, p. 467.

*Anodonta ferussaciana* Lea, Trans. Amer. Phil. Soc., 1837, new ser., vol. 5, p. 45, pl. 6, fig. 15. "OHIO RIVER, NEAR CINCINNATI."

CONN.—Whitneyville (Linsley).

***Sympynota compressa* Lea.**

Lea, Trans. Amer. Phil. Soc., 1830, new ser., vol. 3, p. 450, pl. 12, fig. 22. "OHIO \*\*\* NORMAN'S KILL, NEAR ALBANY." Simpson, Descriptive Cat. Naiades, 1914, p. 481.

Vt.—Streams west of the Green Mountains (Adams).

***Sympynota compressa plebeia* (C. B. Adams).**

Simpson, Descriptive Cat. Naiades, 1914, p. 483.

*Unio compressus* var. *plebeius* C. B. Adams, Thompson's Hist. Vt., 1842, pt. 1, p. 166. "MIDDLEBURY, [Vt.]"

Vt.—Middlebury (Adams); creek near Mallett's Bay (Perkins).

CONN.—New Haven, canal.

\***Symplynota costata** (Rafinesque).

Simpson, Descriptive Cat. Naiades, 1914, p. 488.

*Alasmidonta costata* Rafinesque, Ann. Gén. Sci. Phys. Bruxelles, 1820, vol. 5, p. 318, pl. 82, figs. 15, 16. [KENTUCKY RIVER.]

*Alasmidonta rugosa* Barnes, Amer. Journ. Sci., 1823, ser. 1, vol. 6, p. 278, pl. 13, fig. 21. C. B. Adams, Thompson's Hist. Vt., 1842, pt. 1, p. 165.

Vt.—Chimney Point, Lake Champlain and streams west of the Green Mountains (Adams).

\***Alasmidonta undulata** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 494.

*Monodonta undulata* Say, Nich. Encycl., 1816, vol. 2, pl. 3, fig. 3. "DELAWARE AND SCHUYLKILL RIVERS."

*Margaritana undulata* Gould, Inv. Mass., 1870, p. 176, fig. 478.

ME.—Eagle Lake; Fish River; Androscoggin River; Rangeley; Warren.

N. H.—Concord; Connecticut, Hanover.

Vt.—Hartland.

MASS.—Milton; Sudbury; Wellesley; Andover; Blackstone River, Uxbridge.

R. I.—Blackstone River, Pawtucket; Warwick.

CONN.—Connecticut and Housatonic River; Meriden.

\***Alasmidonta heterodon** (Lea).

Simpson, Descriptive Cat. Naiades, 1914, p. 499.

*Unio heterodon* Lea, Trans. Amer. Phil. Soc., 1830, new ser., vol. 3, p. 428, pl. 8, fig. 11. "SCHUYLKILL AND DERBY CREEK, PA."

N. H.—Connecticut River, at Hanover and Cornish.

Vt.—Connecticut River, at Hartland.

MASS.—Westfield.

CONN.—Connecticut River; Little River; Housatonic River; Meriden.

\***Alasmidonta marginata** (Say).

Simpson, Descriptive Cat. Naiades, 1914, p. 504.

*Alasmidonta marginata* Say, Nich. Encycl., 1816, vol. 2, pl. 3, fig. 5. [UNITED STATES.]

*Margaritana marginata* Gould, Inv. Mass., 1870, p. 177, fig. 479.

ME.—Westbrook, Dennys River.

N. H.—Connecticut River, Hanover.

Vt.—Otter Creek, Wallingford.

MASS.—Blackstone River, Andover; West Brookfield; Sherborn.

R. I.—Cunliff Pond, Providence.

CONN.—Housatonic River, Derby.

\***Unio complanatus** (Dillwyn).

Gould, Inv. Mass., 1870, p. 167, fig. 472. Simpson, Descriptive Cat. Naiades, 1914, p. 651.

*Mya complanata* Dillwyn, Catalogue, 1817, vol. 1, p. 51. "RIVERS IN VIRGINIA. \*\*\* MARYLAND AND NEW JERSEY. \*\*\* MISSISSIPPI."

ME. to CONN.—Common in almost every stream and pond.

**Unio complanatus mainensis** Rich.

Rich, Science, 1915, new ser., vol. 42, p. 580. "SONGO POND, ABOUT THREE MILES SOUTH OF BETHEL, ME."

ME.—Ponds and lakes of Oxford Co.

\***Unio roanokensis northamptonensis** Lea.

Simpson, Descriptive Cat. Naiades, 1914, p. 668.

*Unio northamptonensis* Lea, Proc. Acad. Nat. Sci. Phila., 1861, p. 392. "CONNECTICUT RIVER, AT NORTHAMPTON. AT SPRINGFIELD \*\*\* BELOW HARTFORD \*\*\* NEUSE RIVER, N. C." Lea, Journ. Acad. Nat. Sci. Phila., 1862, ser. 2, vol. 5, p. 190, pl. 25, fig. 260.

MASS.—Northampton; Springfield.

CONN.—Connecticut River below Hartford.

## MARGARITANIDAE.

**\*Margaritana margaritifera** (Linné).

Simpson, Descriptive Cat. Naiades, 1914, p. 513.

*Mya margaritifera* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 671.

" IN TOTIUS ORBIS ARCTICI CATARACTIS."

*Margaritana arcuata* Gould, Inv. Mass., 1870, p. 174, fig. 477.

ME.—Aroostook Co.; Scarboro; Warren; Hebron.

VT.—Winooski River.

MASS.—Haydenville; Southampton; Lunenburg; Ware.

R. I.—Exeter.

CONN.—Turnbull River (Linsley); Waterford; Bristol; Granby.

## PECTINIDAE.

**\*Pecten (Chlamys) islandicus** Müller.

*Pecten islandicus* Müller, Zool. Danicae Prodr., 1776, p. 248.  
[DENMARK.]

*Chlamys islandica* Verrill, Trans. Conn. Acad., 1897, vol. 10, p. 72, pl. 16, figs. 2-5b; pl. 20, fig. 9; pl. 21, fig. 2; var. *insculpta* Verrill, *ibid.*, p. 73.

ME.—Casco Bay, 20 fathoms; Frenchman's Bay, 25 to 45 fathoms; Eastport.

MASS.—Massachusetts Bay; off Marthas Vineyard, 69 to 194 fathoms; Georges Bank, 40 to 65 fathoms.

CONN.—Stonington in an eel-pot (Linsley).

**Pecten (Chlamys) costellatus** (Verrill and Bush).

*Chlamys costellata* Verrill and Bush in Verrill, Trans. Conn. Acad., 1897, vol. 10, p. 75. " OFF THE COAST OF NEWFOUNDLAND IN 67 TO 72 FATHOMS."

MASS.—Off Half-way Rock, Marblehead, in 30 fathoms (Balch).

**Pecten (Aequipecten) glyptus** Verrill.

*Pecten glyptus* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 580.  
" OFF MARTHA'S VINEYARD."

*Pecten tryoni* Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 438,  
*Chlamys (Aequipecten) glypta* Verrill, Trans. Conn. Acad., 1897.  
vol. 10, p. 76, pl. 16, figs. 7-11.

MASS.—Off Marthas Vineyard, 85 to 120 fathoms.

\***Pecten (Plagioctenium) gibbus borealis** Say.

*Ostrea gibba* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 698.

*Pecten borealis* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1,  
vol. 2, p. 260. "NEW ENGLAND."

*Pecten irradians* Gould, Inv. Mass., 1870, p. 199, fig. 496 (*non*  
Lamarc).

*Pecten gibbus* var. *borealis* Dall, Trans. Wagner Free Inst. Sci.,  
1898, vol. 3, pt. 4, p. 747.

MASS. to CONN.—The common scallop of southern New Eng-  
land.

\***Pecten (Placopecten) magellanicus** (Gmelin).

Dall, Trans. Wagner Free Inst. Sci., 1898, vol. 3, pt. 4, p. 726.

*Ostrea magellanica* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3317.  
"FRETO MAGELLANICO."

*Pecten tenuicostatus* Mighels and Adams, Boston Journ. Nat.  
Hist., 1842, vol. 4, p. 41, pl. 4, fig. 7. Gould, Inv. Mass., 1870, p.  
196, fig. 494.

*Pecten fuscus* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48,  
p. 278.

*Pecten clintonius* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 261  
(*non* Say).

ME.—Casco Bay, 4 to 10 fathoms; Frenchman's Bay, 3 to 10  
fathoms; Eastport.

MASS.—Massachusetts Bay; Duxbury; Vineyard Sound.  
Georges Bank, 45 fathoms.

R. I.—Off Watch Hill; off Block Island; Point Judith.

CONN.—Stonington from codfish.

**Pecten (Camptonectes) vitreus** (Gmelin).

*Ostrea vitrea* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3328.  
“OCEANO SEPTENTRIONALI.”

*Pecten vitreus* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 580,  
pl. 42, fig. 21.

*Camptonectes (Palliolum) vitrea* Verrill, Trans. Conn. Acad., 1897,  
vol. 10, p. 65, pl. 18, figs. 6–14.

MASS.—Off Marthas Vineyard in from 100 to 506 fathoms;  
northward in 57 to 400 fathoms, attached to various objects, chiefly  
to the gorgonian corals (Verrill).

**Pecten (Camptonectes) striatus** Müller.

*Pecten striatus* Müller, Zool. Danicae Prodri., 1776, p. 248; Zool.  
Danica, 1788, vol. 2, p. 26, pl. 60, figs. 3–5. [DENMARK.] Verrill,  
Trans. Conn. Acad., 1884, vol. 6, p. 233.

*Camptonectes (Palliolum) striata* Verrill, Trans. Conn. Acad.,  
1897, vol. 10, pp. 62, 66, pl. 18, figs. 14, 14a.

MASS.—Off Marthas Vineyard, 100 fathoms.

**Pecten (Pseudamusium) pustulosus** Verrill.

*Pecten pustulosus* Verrill, Amer. Journ. Sci., 1873, ser. 3, vol. 5,  
p. 14. “NEAR ST. GEORGE’S BANK” [AND GULF OF MAINE.]

*Pecten hoskynsi* var. *pustulosus* Verrill, Trans. Conn. Acad., 1882,  
vol. 5, p. 581, pl. 42, figs. 22, 22a.

*Pecten (Pseudamusium) imbrifer* Dall, Bull. Mus. Comp. Zoöl.,  
1886, vol. 12, p. 220 (in part; *non* Lovén).

*Cyclopecten pustulosus* Verrill, Trans. Conn. Acad., 1897, vol. 10,  
p. 83, pl. 19, figs. 3, 4.

Gulf of Maine, 150 fathoms.

MASS.—South of Marthas Vineyard, 120 to 365 fathoms.

**Pecten (Pseudamusium) subimbrifer** (Verrill and Bush).

*Cyclopecten subimbrifer* Verrill and Bush in Verrill, Trans. Conn.  
Acad., 1897, vol. 10, p. 84. “OFF THE EASTERN COAST OF THE

UNITED STATES." Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 840, pl. 85, figs. 8, 9.

*Pecten hoskynsi* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 581, pl. 44, fig. 11 (*non* Forbes, 1844).

Gulf of Maine, 115 to 150 fathoms.

MASS.—South of Marthas Vineyard, 120 to 365 fathoms.

### **Pecten (Propeamusium) thalassinus Dall.**

*Pecten (Pseudamusium) thalassinus* Dall, Bull. Mus. Comp. Zoöl., 1886, vol. 12, p. 221. "OFF MARTHA'S VINEYARD" AND "OFF HAVANNA."

*Pecten fenestratus* Verrill, Proc. U. S. Nat. Mus., 1881, vol. 3, p. 403 (*non* Forbes, 1844).

*Propeamusium thalassimum* Verrill, Trans. Conn. Acad., 1897, vol. 10, p. 87, pl. 19, figs. 5-7.

MASS.—Off Marthas Vineyard, 86 to 310 fathoms; most numerous in 93 to 100 fathoms (Verrill).

### LIMIDAE.

#### **Limaea subovata (Jeffreys).**

*Lima suborata* Jeffreys, Ann. Mag. Nat. Hist., 1876, ser. 4, vol. 18, p. 427. "OFF THE NORTH-WESTERN COAST OF IRELAND \*\*\* BETWEEN THE HEBRIDES AND FÄRÖE ISLES \*\*\* AND BETWEEN THE FÄRÖES AND SHETLAND \*\*\* OFF THE AZORES \*\*\* PALERMO." Jeffreys, Proc. Zool. Soc. London, 1879, p. 563, pl. 45, fig. 2.

*Limaea subvota* (*sic*) Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 580.

MASS.—Off Marthas Vineyard, 100 to 500 fathoms (Verrill).

### ANOMIIDAE.

#### **\*Anomia aculeata Müller.**

Müller, Zool. Danicae Prodr., 1776, p. 249. [DENMARK.] Gould, Inv. Mass., 1870, p. 204, fig. 498.

ME.—Common in Casco Bay and northward, low water to 80 fathoms.

MASS.—Off Gay Head, 10 fathoms; Duxbury.

CONN.—Off Stonington, 4 to 5 fathoms.

**\*Anomia simplex d'Orbigny.**

d'Orbigny, Moll. Cubana, 1845, (Spanish ed.), vol. 2, p. 367, pl. 38, figs. 31-35. [CUBA.]

*Anomia ephippium* Gould, Inv. Mass., 1870, p. 204, fig. 497 (*non* Linné).

*Anomia electrica* Gould, Inv. Mass., 1870, p. 205, fig. 499 (*non* Linné).

*Anomia squamula* Gould, Inv. Mass., 1870, p. 206 (*non* Linné).

*Anomia glabra* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 213.

ME. to CONN.—Common south of Cape Cod, adhering to oysters and scallops.

MYTILIDAE.

**\*Mytilus edulis** Linné.

Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 705. “O. EUROPAEO, INDICO & BALTHICO.” Gould, Inv. Mass., 1870, p. 183, fig. 483.

ME. to CONN.—The common edible mussel.

**\*Mytilus edulis pellucidus** Pennant.

Gould, Inv. Mass., 1870, p. 184, fig. 484.

*Mytilus pellucidus* Pennant, Brit. Zool., 1777, vol. 4, p. 95, pl. 63, fig. 75. “ANGLESEA, [ENGLAND.]”

ME. to CONN.—Common, associated with the typical form.

**\*Mytilus (Hormomya) recurvus** Rafinesque.

*Mytilus recurvus* Rafinesque, Ann. Gén. Sci. Phys. Bruxelles, 1820, vol. 5, p. 54. “LE MISSISSIPPI PRÈS DE LA NOUVELLE-ORLÉANS.”

*Mytilus hamatus* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1,  
vol. 2, p. 265.

R. I.—Narragansett Bay.

CONN.—New Haven Harbor (Perkins, 1870). Introduced in  
the planting of southern oysters in these waters.

\***Modiolus modiolus** (Linné).

Lamarck, Prod. Nouv. Class. Coq., 1799, p. 87.

*Mytilus modiolus* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1158.

“M. MEDITERRANEO, NORVEGICO.”

*Modiola modiolus* Gould, Inv. Mass., 1870, p. 186, fig. 485.

ME. to CONN.—Common, from low water to 80 fathoms.

\***Modiolus (Brachydontes) demissus plicatulus** (Lamarck).

Dall, Trans. Wagner Free Inst. Sci., 1898, vol. 3, pt. 4, p. 795.

*Mytilus demissus* Dillwyn, Catalogue, 1817, vol. 1, p. 314.

“VIRGINIA.”

*Modiola plicatula* Lamarck, Hist. Nat. Anim. sans Vert., 1819,  
vol. 6, pt. 1, p. 113. No locality. Gould, Inv. Mass., 1870, p.  
188, fig. 486.

*Modiola plicatula truncata* Davis, Apteryx, 1905, vol. 1, p. 117,  
pl. 9, fig. D.

ME.—Casco Bay; mouth of the Kennebec River.

MASS.—Salem; Revere; Chatham; Woods Hole; Edgartown.

R. I.—Oakland Beach; Buttonwoods; Wickford.

CONN.

\***Musculus substriatus** (Gray).

*Modiola laevigata* var.  $\beta$ . *substriata* Gray, Suppl. to Appendix to  
Parry's Voyage 1819–20, 1824, p. cclxv. [NORTHWEST PASSAGE.]

*Modiolaria discors* Gould, Inv. Mass., 1870, p. 192, fig. 489 (*non* Linné).

ME.—Casco Bay; Frenchman's Bay, 15 to 20 fathoms; Eastport.

MASS.—Vineyard Sound, 14 to 25 fathoms.

R. I.

CONN.—Oyster River, near New Haven (Linsley).

\***Musculus niger** (Gray).

*Modiola nigra* Gray, Suppl. to Appendix to Parry's Voyage 1819-20, 1824, p. cxliv. [NORTHWEST PASSAGE.]

*Modiola nexa* Gould, Inv. Mass., 1841, p. 128, fig. 86.

*Modiolaria nigra* Gould, Inv. Mass., 1870, p. 190, figs. 487, 488.

MASS.—Provincetown; Vineyard Sound, 10 to 15 fathoms.

CONN.—Stonington, in stomach of cod (Linsley).

\***Musculus corrugatus** (Stimpson).

*Mytilus corrugatus* Stimpson, Shells of New England, 1851, p. 12.

“EASTPORT TO CAPE COD.”

*Modiolaria corrugata* Gould, Inv. Mass., 1870, p. 193, fig. 491.

ME.—Casco Bay, 15 fathoms; Frenchman's Bay, 6 to 10 fathoms.

MASS.—Off Marthas Vineyard, 20 to 25 fathoms; off Nauset Light; Georges Bank.

CONN.—Off New London.

\***Crenella glandula** (Totten).

Gould, Inv. Mass., 1870, p. 194, fig. 492.

*Modiola glandula* Totten, Amer. Journ. Sci., 1834, ser. 1, vol. 26, p. 367, fig. 3. “PROVINCETOWN HARBOR, (MASS.).”

ME.—Common from Casco Bay to Eastport in 3 to 60 fathoms.

MASS.—Marblehead, 7 fathoms; Buzzards Bay and Vineyard Sound, 5 to 15 fathoms.

R. I.—Off Block Island, 29 fathoms.

CONN.—Stonington (Linsley); off New London.

**Crenella pectinula** (Gould).

Gould, Inv. Mass., 1870, p. 195, fig. 493.

*Modiola pectinula* Gould, Inv. Mass., 1841, p. 127, fig. 85. "ST. GEORGE'S BANK."

Georges Bank.

\***Crenella decussata** (Montagu).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 578, pl. 44, fig. 7.

*Mytilus decussatus* Montagu, Test. Brit., Suppl., 1803, p. 69.  
"SCOTISH COAST."

ME.—Casco Bay, 10 to 20 fathoms; Frenchman's Bay, 10 to 28 fathoms; Eastport, 4 to 40 fathoms.

N. H.—Off Isles of Shoals, 20 fathoms.

MASS.—Provincetown; off Marthas Vineyard, 64 to 115 fathoms; Duxbury.

CONN.—Stonington (Linsley).

ANOMALODESMACEA.

PHOLADOMYACIDAE.

**Aporema arata** (Verrill and Smith).

Dall, Trans. Wagner Free Inst. Sci., 1903, vol. 3, pt. 6, p. 1532.

*Pholadomya arata* Verrill and Smith in Verrill, Amer. Journ. Sci., 1881, ser. 3, vol. 22, p. 301. [OFF MARTHAS VINEYARD.]  
Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 567, pl. 58, fig. 37.

MASS.—South of Marthas Vineyard, 69 to 130 fathoms.

## PERIPLOMIDAE.

**\*Periploma fragilis** (Totten).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 64, pl. 59, fig. 7.

*Anatina fragilis* Totten, Amer. Journ. Sci., 1835, ser. 1, vol. 28, p. 348, fig. 1. "NEWPORT HARBOR, R. I."

*Anatina papyracea* Gould, Inv. Mass., 1870, p. 66, fig. 382 (*non* Say, 1822).

ME.—Casco Bay, 10 fathoms; Frenchman's Bay, 4 to 10 fathoms; Old Orchard.

MASS.—Massachusetts Bay.

R. I.—Off Block Island, 29 fathoms.

**\*Periploma (Cochlodesma) leanum** (Conrad).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 64, pl. 59, fig. 6.

*Anatina leana* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 263, pl. 11, fig. 11. "NORTHERN COAST OF THE U. S."

*Cochlodesma leanum* Gould, Inv. Mass., 1870, p. 68, fig. 383.

ME.—Casco Bay; Frenchman's Bay; Eastport.

MASS.—Nahant; Cape Cod; Vineyard Sound; Nantucket; Georges Bank.

CONN.—Long Island Sound, 3 to 10 fathoms.

## THRACIIDAE.

**\*Thracia conradi** Couthouy.

Couthouy, Boston Journ. Nat. Hist., 1839, vol. 2, p. 153, pl. 4, fig. 2. "COAST OF NEW ENGLAND." Gould, Inv. Mass., 1870, p. 69, fig. 384. Morse, Nautilus, 1913, vol. 27, p. 73.

*Thracia declivis* Conrad, Amer. Marine Conch., 1832(?), p. 44, pl. 9, fig. 2 (*non* Pennant, 1778).

ME.—Casco Bay, 6 to 15 fathoms; Frenchman's Bay, 3 to 16 fathoms; Eastport, 6 fathoms.

MASS.—Nahant; Revere; Vineyard Sound, 6 to 8 fathoms; Duxbury.

R. I.

**Thracia truncata** Mighels and Adams.

Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 38, pl. 4, fig. 1. "CASCO BAY, ME." Gould, Inv. Mass., 1870, p. 72, fig. 386.

ME.—Casco Bay, 10 to 20 fathoms; Frenchman's Bay, 20 to 25 fathoms; Eastport.

MASS.—Off Lynn; Massachusetts Bay; off Marthas Vineyard; Georges Bank.

R. I.—Off Block Island, 29 fathoms.

\***Thracia myopsis** Möller.

Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 94. [GREENLAND.] Gould, Inv. Mass., 1870, p. 71, fig. 385.

*Thracia couthouyi* Stimpson, Shells of New England, 1851, p. 23.

ME.—Casco Bay; Frenchman's Bay, 10 to 12 fathoms; Eastport.

MASS.—Massachusetts Bay; Georges Bank.

PANDORIDAE.

**Pandora (Kennerleyia) brevis** (Verrill and Bush).

*Kennerlia brevis* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 821, pl. 88, figs. 7a, 7b.

*Kennerlia glacialis* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 397 (*non* Leach, 1819). [OFF MARTHAS VINEYARD.]

MASS.—Off Marthas Vineyard, 45 to 100 fathoms.

\***Pandora (Clidiophora) gouldiana** Dall.

Dall, Bull. Mus. Comp. Zoöl., 1886, vol. 12, p. 312. "NEW ENGLAND."

*Pandora trilineata* Conrad, Amer. Marine Conch., 1832(?), p. 49, pl. 10, figs. 1, 2 (*non* Say, 1822). Gould, Inv. Mass., 1870, p. 62, fig. 379.

ME. to CONN.—Common from low-water mark to 30 fathoms.

**Pandora (Clidiophora) inornata** (Verrill and Bush).

*Clidiophora inornata* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 819, pl. 95, figs. 5, 6. [OFF MASSACHUSETTS.]

MASS.—Off Stellwagen Bank, north of Cape Cod, and off Chatham, 10 to 43 fathoms.

LYONSIIDAE.

\***Lyonsia hyalina** (Conrad).

Conrad, Amer. Marine Conch., 1832(?), p. 51, pl. 11, fig. 2. Gould, Inv. Mass., 1870, p. 64, fig. 380.

*Mya hyalina* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 261, pl. 11, fig. 12. "NORTHERN COAST OF THE U. S."

*Osteodesma hyalina* Couthouy, Boston Journ. Nat. Hist., 1839, vol. 2, p. 166.

ME. to CONN.—Common from low-water mark to 30 fathoms.

\***Lyonsia arenosa** (Möller).

Gould, Inv. Mass., 1870, p. 65, fig. 381.

*Pandorina arenosa* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 93. [GREENLAND.]

ME.—Casco Bay; Frenchman's Bay; Eastport.

POROMYACIDAE.

**Poromya granulata** (Nyst and Westendorp).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 564, pl. 44, figs. 3, 4.

*Corbula?* *granulata* Nyst and Westendorp, Nouv. Rech. Coq. Foss. d'Anvers, 1839, p. 6, pl. 3, figs. 3, 4. [BELGIUM (fossil).]

Gulf of Maine, 150 fathoms.

MASS.—Off Marthas Vineyard, 63 to 146 fathoms.

**Poromya granulata rotundata** Jeffreys.

*Poromya rotundata* Jeffreys, Ann. Mag. Nat. Hist., 1876, ser. 4, vol. 18, p. 494. [NORTH ATLANTIC, 1450 FATHOMS.] Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 396.

MASS.—South of Marthas Vineyard, 65 to 115 fathoms.

VERTICORDIIDAE.

**Verticordia (Trigonulina) ornata caelata** Verrill.

*Verticordia caelata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 566. "OFF MARTHA'S VINEYARD." Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 278, pl. 30, figs. 9, 9a.

*Verticordia (Trigonulina) ornata* Dall, Bull. Mus. Comp. Zoöl., 1886, vol. 12, p. 290.

MASS.—Off Marthas Vineyard, 100 fathoms.

**Halicardia flexuosa** (Verrill and Smith).

Dall, Proc. U. S. Nat. Mus., 1895, vol. 17, p. 697, pl. 23, figs. 1, 3, 5, 6; pl. 24, fig. 3.

*Mytilimeria flexuosa* Verrill and Smith in Verrill, Amer. Journ. Sci., 1881, ser. 3, vol. 22, p. 302. [OFF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 567, pl. 58, fig. 38.

MASS.—Off Marthas Vineyard, 75 to 349 fathoms.

**Lyonsiella abyssicola** (M. Sars) G. O. Sars.

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 396.

*Pecchiolia abyssicola* G. O. Sars, Remark. Forms Anim. Life,

1872, vol. 1, p. 25, pl. 3, figs. 21-43. [NEAR LOFODEN ISLANDS, NORWAY.]

MASS.—South of Marthas Vineyard, 192 to 500 fathoms.

**Lyonsiella insculpta** (Jeffreys).

*Pecchiolia insculpta* Jeffreys, Proc. Zool. Soc. London, 1881, p. 932, pl. 70, fig. 4. "BAY OF BISCAY \*\*\* PALERMO."

*Lyonsiella gemma* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 396.

MASS.—Off Marthas Vineyard, 75 to 487 fathoms.

**Dacrydium vitreum** (Möller).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 579, pl. 44, figs. 8, 8a.

*Modiola? vitrea* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 92. [GREENLAND.]

Gulf of Maine, 60 to 160 fathoms.

MASS.—Off Cape Cod, 106 to 118 fathoms; off Marthas Vineyard, 312 to 500 fathoms.

### CUSPIDARIIDAE.

\***Cuspidaria obesa** (Lovén).

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 804, pl. 75, fig. 7.

*Neaera obesa* Lovén, Öfvers. Kongl. Vet.-Akad. Forh., 1846, vol. 3, p. 180. "Boh[us]."

Gulf of Maine, 52 to 92 fathoms.

MASS.—Off Cape Cod, 106 fathoms; off Marthas Vineyard, 192 to 500 fathoms.

**Cuspidaria pellucida** (Stimpson).

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 805, pl. 75, fig. 8; pl. 76, fig. 8.

*Neaera pellucida* Stimpson, Smithson. Contr. Knowl., 1853, vol. 6, art. 5, p. 21, pl. 1, fig. 13. "OFF LONG ISLAND, [NEW YORK]."

ME.—Eastport Harbor; off Casco Bay, 50 to 95 fathoms.

**Cuspidaria glacialis** (G. O. Sars).

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 800, pl. 71, fig. 9; pl. 73, fig. 5; pl. 75, fig. 9.

*Neaera glacialis* G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 88, pl. 6, fig. 8. [OFF VADSØ, NORWAY.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 562, pl. 44, figs. 10a, 10b.

ME.—Off Casco Bay and in the Gulf of Maine, 50 to 180 fathoms.

MASS.—Off Cape Ann and Cape Cod; south of Marthas Vineyard, 65 to 500 fathoms.

**Cuspidaria rostrata** (Spengler).

*Mya rostrata* Spengler, Skriv. Nat.-Selsk. Kjobenhavn, 1793, vol. 3, pt. 1, p. 42. [BERGEN, NORWAY.]

*Neaera rostrata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 562, pl. 58, fig. 39.

MASS.—South of Marthas Vineyard, 85 to 155 fathoms.

**Cuspidaria media** Verrill and Bush.

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 800, pl. 71, figs. 5, 6; pl. 73, fig. 6. "OFF MARTHA'S VINEYARD."

MASS.—Common off Marthas Vineyard, 63 to 155 fathoms.

**Cuspidaria (Cardiomya) multicostata** Verrill and Smith.

*Neaera multicostata* Verrill and Smith, in Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 398. "SOUTH OF MARTHA'S VINEYARD."

MASS.—Off Marthas Vineyard, 85 to 158 fathoms.

**Cuspidaria (Cardiomya) perrostrata (Dall).**

*Neaera ornatissima* d'Orbigny var. *perrostrata* Dall, Bull. Mus. Comp. Zoöl., 1881, vol. 9, p. 110. [OFF TORTUGAS.]

*Cardiomya perrostrata* Verrill and Bush, Proc. U. S. Nat. Mus. 1898, vol. 20, p. 809, pl. 73, fig. 2; pl. 74, fig. 3.

MASS.— Off Marthas Vineyard, 85 to 120 fathoms.

## TELEODESMACEA.

## PLEUROPHORIDAE.

**\*Cyprina islandica (Linné).**

Lamarck, Hist. Nat. Anim. sans Vert., 1818, vol. 5, p. 557. Gould, Inv. Mass., 1870, p. 129, fig. 443.

*Venus islandica* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1131. "ISLANDIA."

ME.— Casco Bay, 10 to 20 fathoms; Frenchman's Bay, 16 fathoms; Eastport.

MASS.— Massachusetts Bay; off Gay Head, 19 fathoms; Georges Bank, 45 fathoms.

R. I.— Off Block Island, 29 fathoms.

## ASTARTIDAE.

**\*Astarte castanea (Say).**

Gould, Inv. Mass., 1870, p. 117, fig. 431.

*Venus castanea* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 273. "COAST OF NEW JERSEY."

ME.— Casco Bay; Frenchman's Bay, 25 to 30 fathoms.

MASS.— Massachusetts Bay; Chatham; Nantucket; Marthas Vineyard.

CONN.— Off New London.

**\*Astarte castanea picea** Gould.

Gould, Inv. Mass., 1841, p. 77. "CHELSEA BEACH, [MASS.]"  
Gould, Inv. Mass., 1870, p. 118.

MASS.—Revere; Vineyard Sound.

**\*Astarte castanea procera** Totten.

Totten, Amer. Journ. Sci., 1835, ser. 1, vol. 28, p. 349, fig. 2.  
"PROVINCETOWN HARBOR, (MASS.)." Gould, Inv. Mass., 1870,  
p. 118.

MASS.—Provincetown; Marblehead; Nauset.

**\*Astarte quadrans** Gould.

Gould, Inv. Mass., 1841, p. 81, fig. 48. "FROM THE STOMACHS OF  
FISH CAUGHT IN MASSACHUSETTS BAY."

ME.—Casco Bay; Frenchman's Bay.

MASS.—Massachusetts Bay; off Marthas Vineyard, 19 to 25  
fathoms; off Provincetown, 20 fathoms; Georges Bank.

CONN.—Stonington (Linsley).

**Astarte portlandica** Mighels.

Mighels, Boston Journ. Nat. Hist., 1843, vol. 4, p. 320, pl. 16,  
fig. 2. "STOMACH OF A HADDOCK \*\*\* TAKEN IN CASCO BAY."  
Blaney, Nautilus, 1906, vol. 19, p. 110.

ME.—Casco Bay; Frenchman's Bay, 10 fathoms (Blaney).

**\*Astarte undata** Gould.

Gould, Inv. Mass., 1841, p. 80. [NEW ENGLAND.]

*Astarte sulcata* Gould, Inv. Mass., 1870, p. 119, fig. 432 (*non* Da  
Costa).

ME.—Common, Casco Bay; Frenchman's Bay; Eastport.  
N. H.

MASS.— Marblehead; Vineyard Sound and Buzzards Bay, 8 to 25 fathoms; Duxbury.

R. I.— Off Block Island, 29 fathoms.

CONN.— Off New London and New Haven.

\***Astarte undata latisulca** (Hanley).

Dall, Proc. U. S. Nat. Mus., 1903, vol. 26, p. 938.

*Crassina latisulca* Hanley, Cat. Recent Biv. Shells, 1843, p. 87.  
“N. AMERICA.”

ME.— Frenchman’s Bay, 16 to 30 fathoms; Eastport.

\***Astarte subaequilatera** Sowerby.

Sowerby, Thes. Conch., 1855, vol. 2, pt. 2, p. 780, pl. 167, fig. 13.  
“NEWFOUNDLAND.”

*Astarte crebricostata* Gould, Inv. Mass., 1870, p. 126, fig. 440 (*non* Forbes).

ME.— Casco Bay, 25 fathoms; Penobscot Bay; Frenchman’s Bay, 25 to 30 fathoms; Eastport, 14 fathoms.

MASS.— Off Nauset Light.

**Astarte subaequilatera whiteavesii** Dall.

Dall, Proc. U. S. Nat. Mus., 1903, vol. 26, pp. 939, 948, pl. 62, figs. 7, 12. “GASPÉ \*\*\* 200 FATHOMS.”

ME. to CONN.— Long Island Sound to the Gulf of St. Lawrence, 67 to 428 fathoms (Dall).

**Astarte borealis** (Schumacher).

Dall, Proc. U. S. Nat. Mus., 1903, vol. 26, p. 941.

*Tridonta borealis* Schumacher, Essai Nouv. Syst. Hab. Test., 1817, p. 147, pl. 17, fig. 1. No locality.

*Astarte semisulcata* Gould, Inv. Mass., 1870, p. 121, fig. 433.

ME.— Frenchman’s Bay, 25 to 30 fathoms.

MASS.— Massachusetts Bay.

**Astarte elliptica** (Brown).

Gould, Inv. Mass., 1870, p. 124, figs. 435–437.

*Crassina elliptica* Brown, Illustr. Conch., 1827, pl. 18, fig. 3.  
“FIRTH OF FORTH AND GREENOCK.”

ME. to MASS.—Massachusetts Bay, northward in 8 to 90 fathoms (Dall).

**Astarte striata** (Leach).

*Nicania striata* Leach, Ross's Voyage, 1819, Appendix no. 2, p. lxii. “LAT. 76° 42' N., LONG. 76° W.”

*Astarte banksii* Gould, Inv. Mass., 1870, p. 125, fig. 438 (*non* Leach).

ME.—Frenchman's Bay, 20 fathoms (Blaney).

MASS.—Massachusetts Bay northward, 10 to 85 fathoms (Dall).

## CRASSATELLITIDAE.

**\*Crassinella mactacea** (Linsley).

*Astarte mactacea* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48, p. 275, fig. “STONINGTON, [CONN.]”. Gould, Amer. Journ. Sci., 1848, ser. 2, vol. 6, p. 233, figs. 1, 2.

*Gouldia mactacea* Gould, Inv. Mass., 1870, p. 128, fig. 442.

MASS.—Vineyard Sound and Buzzards Bay, 3 to 10 fathoms.

CONN.—Stonington, codfish stomach (Linsley); off New London.

## SPHAERIIDAE.

**\*Sphaerium sulcatum** (Lamarck).

Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 33, fig. 25.

*Cyclas sulcata* Lamarck, Hist. Nat. Anim. sans Vert., 1818, vol. 5, p. 560. “LAC GEORGES, AMÉRIQUE SEPTENTRIONALE.”

*Sphaerium simile* Gould, Inv. Mass., 1870, p. 101, fig. 407 (*non* Say).

ME.— Barren Brook; Caribou; North Warren; Saco.

N. H.

Vt.— Chimney Point, Lake Champlain.

MASS.— Cambridge; Malden; Pontoosuc Lake; Blackstone River, Uxbridge.

R. I.— Ten Mile and Blackstone Rivers.

CONN.— Deep River; Housatonic River; Weston.

**\*Sphaerium striatinum** (Lamarck).

Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 37, fig. 29.

*Cyclas striatina* Lamarck, Hist. Nat. Anim. sans Vert., 1818, vol. 5, p. 560. "L'AMÉRIQUE SEPTENTRIONALE."

ME.— Fish River; St. Johns River at Fort Kent (Nylander).

N. H.— Connecticut River, at Cornish.

Vt.— Hartland; Larrabee's Point.

MASS.— Connecticut River, at Sunderland; Blackstone River, Uxbridge.

CONN.— Housatonic River.

**Sphaerium stamineum** (Conrad).

Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 38, fig. 30.

*Cyclas staminea* Conrad, Amer. Journ. Sci., 1834, ser. 1, vol. 25, p. 342, pl. 1, fig. 5. "SOUTH ALABAMA."

CONN.

**Sphaerium solidulum** (Prime).

Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 36, fig. 27.

*Cyclas solidula* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 158. "OHIO."

CONN.

**\*Sphaerium vermontanum** Prime.

*Sphaerium vermontana* Prime, Proc. Acad. Nat. Sci. Phila., 1861, p. 128. "VERMONT." Gould, Inv. Mass., 1870, p. 105, fig. 410.

Vt.—Chimney Point, Lake Champlain; Lake Memphremagog.  
Mass.—Pontoosuc Lake, Berkshire Co.

\***Sphaerium emarginatum** (Prime).

Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 43, fig. 38.

*Cyclas emarginata* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 156. "LAKE SUPERIOR."

ME.—Eagle Lake.

\***Sphaerium rhomboidum** (Say).

*Cyclas rhomboida* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 380. "LAKE CHAMPLAIN."

*Cyclas elegans* C. B. Adams, Boston Journ. Nat. Hist., 1840, vol. 3, p. 330, pl. 3, fig. 11.

*Sphaerium rhomboideum* Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 39, fig. 31. Gould, Inv. Mass., 1870, p. 104, fig. 409.

ME.—Gelot Lake, New Sweden; Little Madawaska River.

Vt.—Chimney Point, Lake Champlain.

Mass.—Cambridge; Readville; Newton Upper Falls; Housatonic River, Lenox.

R. I.—Pawtucket.

Conn.—Housatonic River.

**Sphaerium fabale** (Prime).

*Cyclas fabalis* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 159. "LAKE SUPERIOR."

*Sphaerium fabalis* Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 40, fig. 33.

Vt.

Conn.

\***Sphaerium occidentale** (Prime).

Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 41, fig. 34. Gould, Inv. Mass., 1870, p. 108, fig. 414.

*Cyclas oralis* Prime, Proc. Boston Soc. Nat. Hist., 1853, vol. 4, p. 276 (*non* Féruccac, 1807). "OSWEGO AND GREENWICH, N. Y. \*\*\* COLUMBUS, O."

N. H.—Keene.

Vt.—Hartland.

\***Musculium partumeium** (Say).

*Cyclas partumeia* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 380. "NEAR GERMANTOWN, [PA.]"

*Cyclas orbicularia* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48, p. 276.

*Cyclas coerulea* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 161.

*Sphaerium partumeium* Gould, Inv. Mass., 1870, p. 103, fig. 408.

ME.—Great Pond, Cape Elizabeth; South Newcastle; North Haven.

N. H.—Keene.

MASS.—Cambridge; Readville; Revere.

R. I.—Bailey's Pond, Newport; Nyatt.

CONN.—Old Mill Hill Brook, Stratford; East Haddam.

\* **Musculium securis** (Prime).

*Cyclas securis* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 160. "MASSACHUSETTS."

*Sphaerium securis* Gould, Inv. Mass., 1870, p. 107, fig. 413.

ME.—Aroostook River, Caribou; Scarboro; Saco; Old Orchard.

Vt.—Larrabee's Point.

MASS.—Cambridge; Neponset River, Green Lodge; Concord; East Wareham.

R. I.—Pawtucket River, below Pontiac; Bailey's Pond, Newport.

\***Musculium securis cardissum** (Prime).

*Cyclas cardissa* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4,

p. 160. "MASSACHUSETTS \*\*\* IN FRESH POND, NEAR CAMBRIDGE, AND AT SALEM."

ME.—Square Lake Inlet; Pout Pond, Westbrook.

MASS.—Readville; Charles River, Auburndale.

\***Musculium deforme** (H. F. Carpenter).

*Sphaerium deformis* Carpenter, Nautilus, 1902, vol. 16, p. 18.  
"COVENTRY, R. I."

MASS.—Agawam River, East Wareham.

R. I.—Tiogue Reservoir, Coventry.

**Musculium truncatum** (Linsley).

*Cyclas truncata* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48, p. 276. "STONINGTON, STRATFORD, AND STRATFIELD [, CONN.]" Gould, Amer. Journ. Sci., 1848, ser. 2, vol. 6, p. 234, fig. 3.

*Cyclas calyculata* C. B. Adams, Amer. Journ. Sci., 1841, ser. 1, vol. 40, p. 277 (*non* Draparnaud).

*Cyclas pellucida* Prime, Proc. Boston Soc. Nat. Hist., 1853, vol. 4, p. 277.

*Sphaerium truncatum* Gould, Inv. Mass., 1870, p. 106, fig. 411.

ME.—Aroostook River.

Vt.—Chimney Point, Lake Champlain.

MASS.

R. I.—Nayatt.

CONN.—Stratford; Stratfield; Stonington.

**Musculium tenué** (Prime).

*Cyclas tenuis* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 161. "MASSACHUSETTS \*\*\* NEW BEDFORD."

*Sphaerium tenué* Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 47, fig. 44. Gould, Inv. Mass., 1870, p. 107, fig. 412.

ME.—Androscoggin River.

Vt.—Chimney Point, Lake Champlain.

**Musculium transversum** (Say).

*Cyclas transversa* Say, New Harmony (Ind.) Disseminator, 1829, vol. 2, p. 356. [NORTH KENTUCKY.]

*Sphaerium transversum* Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 48, fig. 45.

ME.—Stroudwater (Norton).

Vt.—Ghimney Point, Lake Champlain.

**Musculium winkleyi** Sterki.

Sterki, Nautilus, 1909, vol. 23, p. 66. "OLD ORCHARD, ME.; VICINITY OF DANVERS, MASS."

ME.—Old Orchard; Avon.

MASS.—Danvers; Cambridge; Woburn; Duxbury.

**Musculium rosaceum** (Prime).

*Cyclas rosacea* Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 155. "PENNSYLVANIA \*\*\* IN THE SCHUYLKILL."

*Sphaerium rosaceum* Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 50, fig. 48.

ME.—Sandy River, Franklin Co.; Georges River, North Warren.

MASS.—Charles River, Auburndale; Milton.

**\*Musculium rykoltii** (Normand).

*Cyclas rykoltii* Normand, Notes sur Quelques Nouvelles Cyclades, 1844, p. 7, figs. 5, 6. [FRANCE.]

*Calyculina rykoltii* Clessin, Martini and Chemnitz's Conch. Cab., 1879, vol. 9, Monogr. Cycladeen, p. 257, pl. 40, figs. 20-27.

ME.—Warren; Thomaston.

**Musculium parvum** Sterki.

Sterki, Nautilus, 1909, vol. 23, p. 67. "OHIO; A SWAMP NEAR UHRICHSVILLE; ALSO IN STARK AND SUMMIT COUNTIES."

ME.—Georges River, North Warren.

**\*Pisidium abditum** Haldeman.

Haldeman, Proc. Acad. Nat. Sci. Phila., 1841, vol. 1, p. 53.  
"LANCASTER CO. PENNSYLVANIA." Gould, Inv. Mass., 1870,  
p. 113, figs. 425, 426.

*Cyclas minor* C. B. Adams, Proc. Boston Soc. Nat. Hist., 1844,  
vol. 1, p. 48.

ME.—Woodland; Bethel; Dennysville; Saco; Old Orchard;  
Ft. Fairfield.

N. H.—Keene.

Vt.—Weybridge.

MASS.—Cambridge; Stow; Revere; Danvers; Dalton; Duxbury.

R. I.

CONN.

**Pisidium inornatum** Sterki.

Sterki, Nautilus, 1911, vol. 25, p. 3. "SWAMPY LAND, ROANOKE,  
RANDOLPH CO., ALA."

MASS.—Duxbury.

**\*Pisidium aequilaterale** (Prime).

Prime, Boston Journ. Nat. Hist., 1852, vol. 6, p. 366, pl. 12,  
figs. 23-25. "AUGUSTA, ME." Prime, Smithson. Misc. Coll.,  
1865, vol. 7, art. 5, p. 63, figs. 65, 66.

ME.—Portage Lake; Little Madawaska River; Sebec Lake;  
Orono; Saco.

N. H.—Keene.

MASS.—Winchester; Waltham; Newton Upper Falls; Danvers.  
CONN.

**\*Pisidium ferrugineum** Prime.

Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 162. "SALEM \*\*\* CAMBRIDGE, [MASSACHUSETTS]." Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 71, figs. 77, 78.

ME.— Fogelin's Lake, New Sweden; Jefferson; Saco; Portage Lake.

MASS.— Waltham; Newton Upper Falls; Danvers; Wareham; Duxbury.

\***Pisidium virginicum** (Gmelin).

Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 61, figs. 61, 62.

*Tellina virginica* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3236.

"IN VIRGINIAE FLUVIIS."

*Cyclas dubia* Say, Nich. Encycl., 1817, pl. 1, fig. 10.

*Pisidium dubium* Gould, Inv. Mass., 1870, p. 109, figs. 415, 416.

ME.— Saco.

N. H.— Connecticut River at Cornish.

Vt.— Hartland.

MASS.— Connecticut River.

CONN.— Housatonic River.

\***Pisidium adamsii** Prime.

Prime, in Stimpson, Shells of New England, 1851, p. 16; Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 63, fig. 63.

*Cyclas nitida* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 39, pl. 4, fig. 3 (*non* Jenyns). "NORWAY, OXFORD Co., ME."

ME.— Caribou; Cross Lake Inlet; Saco; Westmanland.

**Pisidium minus** Stimpson.

*Cyclas minor* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 39, pl. 4, fig. 2. "WEYBRIDGE, VT."

*Pisidium minus* Stimpson, Shells of New England, 1851, p. 16.

ME.— Black River, Warren; Mill River; Thomaston; Dennisville.

Vt.— Weybridge.

MASS.— Duxbury; Woburn.

**Pisidium monas** Sterki.

Sterki, Nautilus, 1901, vol. 14, p. 100. "MOUNTAIN LAKE,  
MARQUETTE COUNTY, MICHIGAN."

ME.—Georges River, North Warren.

**Pisidium allenii** Sterki.

Sterki, Nautilus, 1912, vol. 26, p. 9. "NEW ENGLAND, NEW  
YORK."

ME.—Hebron and Buckfield; Franklin Co.  
N. H.

**Pisidium sphaericum** Sterki.

Sterki, Nautilus, 1912, vol. 26, p. 8. [WESTBROOK, ME., SACO,  
ME., AND LYNNFIELD, MASS.]

ME.—Westbrook; Georges River, North Warren; Saco.  
MASS.—Danvers; Lynnfield; Cambridge; Woburn.

**\*Pisidium variabile** Prime.

Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 163. "MAS-  
SACHUSETTS." Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5,  
p. 66, figs. 69, 70. Gould, Inv. Mass., 1870, p. 115, figs. 427, 428.

ME.—Caribou; Mud Lake, Westmanland, Aroostook Co.;  
Saco; Dover; Ft. Fairfield.

N. H.

MASS.—Cambridge; Concord; Rowley; Waltham; Danvers;  
Duxbury; Wareham.

**Pisidium variabile cicer** Prime.

*Pisidium cicer* Prime, Ann. Lyc. Nat. Hist. N. Y., 1854, vol.  
6, p. 64, pl. 1, fig. 1. "WASHINGTON COUNTY, N. Y."

ME.—Georges River, North Warren.

**\*Pisidium ventricosum Prime.**

Prime, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 68. "MASSACHUSETTS \*\*\* FRESH POND, CAMBRIDGE." Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 72, figs. 79, 80.

ME.— Barren Brook, Caribou; Ft. Fairfield; Westmanland.  
MASS.— Fresh Pond, Cambridge; Waltham; Danvers.

**\*Pisidium rotundatum Prime.**

Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 164. "LAKE SUPERIOR." Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 72, figs. 81, 82.

ME.— Barren Brook, Woodland, Aroostook Co.; Rockland.  
VT.— Chimney Point, Lake Champlain.

**\*Pisidium compressum Prime.**

Prime, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 164. "MASSACHUSETTS, \*\* CAMBRIDGE." Prime, Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 64, figs. 67, 68.

ME.— Barren Brook, Caribou; Cross Lake, Woodland.

N. H.— Keene.

VT.— Hartland; Chimney Point, Lake Champlain.

MASS.— Winchester; Woburn; Concord; Dalton; Danvers.

CONN.— Stonington.

**\*Pisidium contortum Prime.**

Prime, Ann. Lyc. Nat. Hist. N. Y., 1854, vol. 6, p. 65, pl. 1, fig. 2. "PITTSFIELD, MASS.," (Post-Pliocene).

ME.— Caribou; Mud Lake; Perham and Westmoreland, Aroostook Co. (Nylander).

**\*Pisidium mainense Sterki.**

Sterki, Nautilus, 1903, vol. 17, p. 21.

*Pisidium walkeri* var. *mainense* Sterki, Nautilus, 1898, vol. 12, p. 79. "CARIBOU, AROOSTOOK CO., MAINE."

ME.—Hacket's Mill Brook; Woodland; Barren Brook, Caribou; Westmanland.

**Pisidium fallax** Sterki.

Sterki, Nautilus, 1896, vol. 10, p. 20. "OHIO."

ME.—Aroostook River.

MASS.—Groton.

\***Pisidium fallax boreale** Sterki.

*Pisidium fallax* var. *sep[t]entrionale* Sterki, Nautilus, 1898, vol. 12, p. 78 (*non* Prime, 1895). [MINNESOTA AND AROOSTOOK CO., MAINE.]

*Pisidium fallax* var. *boreale* Sterki, Nautilus, 1899, vol. 13, p. 12.

*Pisidium fallax* var. *errans* Sterki, Nautilus, 1905, vol. 19, p. 84.

ME.—Little Madawaska River at New Sweden, and Aroostook River at Caribou (Nylander).

\***Pisidium pauperculum** Sterki.

Sterki, Nautilus, 1896, vol. 10, p. 64. [MASSACHUSETTS TO MINNESOTA.]

ME.—Caribou; Little Madawaska River, New Sweden; Westmanland.

MASS.—Winchester; Newton Upper Falls; Groton.

\***Pisidium pauperculum nylanderi** Sterki.

*Pisidium pauperculum* var. *nylanderi* Sterki, Nautilus, 1898, vol. 11, p. 125. "MAINE AND NEW JERSEY."

ME.—Caribou Stream; Portage, Long, and Square Lakes, Aroostook Co.

**\*Pisidium milium** Held.

Held, Oken's Isis, 1836, vol. 4, p. . [EUROPE.] Sterki, Nautilus, 1899, vol. 13, p. 10. Nylander, Nautilus, 1899, vol. 13, p. 59.

ME.—South branch of Caribou Stream in Woodland; Gelot's Lake, New Sweden (Nylander).

**\*Pisidium medianum minutum** Sterki.

Sterki, Nautilus, 1899, vol. 13, p. 113. [MAINE, NEW YORK, MICHIGAN.]

ME.—Lovely Brook Bog, Ft. Fairfield; Hacket's Mill Brook, Woodland.

MASS.—Danvers.

**\*Pisidium splendidulum** Sterki.

Sterki, Nautilus, 1898, vol. 11, p. 113. [MAINE, MICHIGAN, AND WASHINGTON, D. C.]

ME.—Barren Brook, Caribou; Ft. Fairfield; Warren; Saco; Old Orchard.

MASS.—Danvers; Woburn.

R. I.—Bailey's Pond, Newport; Nyatt.

**\*Pisidium roperi** Sterki.

Sterki, Nautilus, 1898, vol. 12, p. 77. "MAINE, RHODE ISLAND, INDIANA, ILLINOIS, AND MINNESOTA."

ME.—Johnson's Brook, Ft. Kent Road (Nylander); Dennysville; Perham.

Vt.—Chimney Point, Lake Champlain.

MASS.—Woburn.

R. I.

**\*Pisidium politum** Sterki.

Sterki, Nautilus, 1895, vol. 9, p. 75. [OHIO, PENNA., MICH., ILL., AND MINN.]

ME.—Portage and Cross Lakes, Aroostook Co. (Nylander).

**\*Pisidium punctatum** Sterki.

Sterki, Nautilus, 1895, vol. 8, p. 99, pl. 11, figs. 7-12. [STREAMS OF PORTAGE CO., OHIO.]

ME.—Portage Lake, Little Madawaska (Nylander).

MASS.—Wareham.

**Pisidium punctatum simplex** Sterki.

Sterki, Nautilus, 1905, vol. 19, p. 84. [ILLINOIS; MICHIGAN; WISCONSIN.]

ME.—Caribou Stream, Woodland; Georges River, North Warren.

**Pisidium regulare** Prime.

Prime, Boston Journ. Nat. Hist., 1852, vol. 6, p. 363, pl. 12, figs. 11-13. "MIAMI CANAL, NEAR CINCINNATI, OHIO."

MASS.—Concord.

**\*Pisidium trapezoideum** Sterki.

Sterki, Nautilus, 1896, vol. 9, p. 124. [CANADA, PENNSYLVANIA, NEW JERSEY (*non* Michigan, Minnesota and Texas, Sterki).]

MASS.—Cambridge (Roper Collection).

**\*Pisidium affine** Sterki.

Sterki, Nautilus, 1901, vol. 15, p. 66. [GREAT LAKES REGION, NEW YORK TO MINNESOTA.]

ME.—Mud Lake, Westmanland.

MASS.—Newton Upper Falls; Woburn (Winkley).

**Pisidium neglectum** Sterki.

Sterki, Nautilus, 1906, vol. 20, p. 87. "KRUMROY, SUMMIT Co., OHIO."

MASS.—Danvers (Winkley).

**Pisidium succineum** Sterki.

Sterki, Nautilus, 1907, vol. 20, p. 99. [NEW YORK, OHIO, MICHIGAN, INDIANA, VIRGINIA.]

ME.—Thomaston.

Vt.—Chimney Point, Lake Champlain.

MASS.—Danvers (Winkley); Duxbury.

**Pisidium henslowanum** (Sheppard).

*Tellina henslowana* Sheppard, Trans. Linn. Soc. London, Zool., 1823, vol. 14, p. 150. [SUFFOLK, ENGLAND.]

*Pisidium henslowianum* Forbes and Hanley, Brit. Moll., 1853, vol. 2, p. 131, pl. 37, fig. 11.

*Corneocyclas (Tropidocyclas) henslowiana* Dall, Harriman Alaska Exped., 1905, vol. 13, p. 145.

ME.—Aroostook Co.

Vt.—Chimney Point, Lake Champlain.

\***Pisidium walkeri** Sterki.

Sterki, Nautilus, 1895, vol. 9, p. 75. [MICHIGAN, NEW YORK, PENNSYLVANIA, MINNESOTA.]

ME.—Barren Brook, Caribou; Hacket's Mill Brook (Nylander).

\***Pisidium subrotundum** Sterki.

Sterki, Nautilus, 1906, vol. 20, p. 19. [NEW ENGLAND, ANTI-COSTI ISLAND, TO MICHIGAN.]

ME.—Little Mud Lake, Aroostook Co.; Westmanland (Nylander).

MASS.—Cambridge; Woburn; Duxbury; Wareham; Westfield.

**\*Pisidium tenuissimum** Sterki.

Sterki, Nautilus, 1901, vol. 14, p. 99. "MICHIGAN."

ME.—Little Mud Lake, Aroostook Co. (subfossil).

**Pisidium noveboracense** Prime.

Prime, Ann. Lyc. Nat. Hist. N. Y., 1853, vol. 6, p. 66, pl. 1, fig. 3.  
"WASHINGTON \*\*\* AND HERKIMER COUNTIES, N. Y." Prime,  
Smithson. Misc. Coll., 1865, vol. 7, art. 5, p. 67, fig. 71.

ME.—Buckfield (J. A. Allen); Fogelin's Lake, Aroostook Co.  
(Nylander).

**\*Pisidium streatorii** Sterki.

Sterki, Nautilus, 1901, vol. 14, p. 100. "CANASERAGA RIVER,  
N. Y.; GARRETTSVILLE, OHIO."

ME.—Hebron (J. A. Allen).

**Pisidium imbecille** Sterki.

Sterki, Nautilus, 1900, vol. 14, p. 5. "BYER'S TROUT POND, AND  
BUTTON LAKE, KENT CO., MICH."

ME.—Aroostook Co. (Nylander).

**Pisidium vesiculare** Sterki.

Sterki, Nautilus, 1896, vol. 10, p. 21. "GRAND RAPIDS, MICHIGAN."

ME.—Aroostook Co. (Nylander).

**Pisidium glabellum** Sterki.

Sterki, Nautilus, 1913, vol. 26, p. 137. "HESS LAKE, NEWAYGO Co., MICH."

ME.— Barren Brook, Aroostook Co.

MASS.— Auburndale; Wareham; Ferncroft.

**Pisidium lermondi** Sterki.

Sterki, Nautilus, 1913, vol. 26, p. 138. "DUCK POND, WARREN, ME."

ME.— Duck Pond, Warren.

MASS.— Bourne.

**\* Pisidium scutellatum** Sterki.

Sterki, Nautilus, 1896, vol. 10, p. 66. "PINE LAKE, \*\* LAKE MICHIGAN \*\* MINNESOTA."

ME.— Barren Brook, Caribou.

VT.— Lake Champlain.

**\*Pisidium costatum** Sterki.

Sterki, Nautilus, 1903, vol. 17, p. 22. "FOSSIL IN A MARL BED AT MONITOR, BAY CO., MICHIGAN."

ME.— Mud Lake, Westmanland (subfossil).

## CARDITIDAE.

**\*Venericardia (Cyclocardia) borealis** (Conrad).

Dall, Proc. Acad. Nat. Sci. Phila., 1902, vol. 54, p. 703.

*Cardita borealis* Conrad, Amer. Marine Conch., 1832, p. 39, pl. 8, fig. 1. "MASSACHUSETTS." Gould, Inv. Mass., 1870, p. 146, fig. 455.

ME.— Casco Bay, common; Frenchman's Bay; Eastport.

N. H.

MASS.— Vineyard Sound and Buzzards Bay, 10 to 25 fathoms.

R. I.— Off Block Island, 29 fathoms.

CONN.— Off New London.

\***Venericardia (Cyclocardia) novangliae** (Morse).

*Actinobolus (Cyclocardia) novangliae* Morse, First Ann. Rept. Peabody Acad. Sci., 1869, p. 76, figs. [NEW ENGLAND.]

*Cyclocardia novangliae* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 684, pl. 29, fig. 215.

ME.— Casco Bay; Frenchman's Bay, 15 to 35 fathoms; Eastport.

MASS.— Off Gay Head, 10 to 25 fathoms; Duxbury.

CONN.— Off New London.

LUCINIDAE.

**Myrtaea lens** (Verrill and Smith).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 804.

*Loripes lens* Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, p. 400. "OFF CAPE COD."

MASS.— Off Cape Cod, 50 to 100 fathoms; south of Marthas Vineyard, 60 to 192 fathoms.

\***Phacoides (Lucinoma) filosus** (Stimpson).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 809, pl. 40, fig. 11.

*Lucina radula* Gould, Inv. Mass., 1841, p. 69 (*non* Montagu).

*Lucina filosa* Stimpson, Shells of New England, 1851, p. 17.

"NEAR P[OIN]T SHIRLEY \* \* \* PHILLIPS BEACH [MASS.]."

ME.— Casco Bay; near Machias.

MASS.— Phillips Beach; Shirley Point, 6 fathoms; off Gay Head, 19 fathoms.

R. I.— Off Block Island, 29 fathoms; off Newport.

CONN.— Stonington.

**Phacoides (Lucinoma) blakeanus** (Bush).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 809.

*Lucina blakeana* Bush, Bull. Mus. Comp. Zoöl., 1893, vol. 23, p. 231, pl. 2, figs. 16, 17. "OFF CAPE FEAR, N. C."

MASS.

**\*Divaricella quadrисulcata** (d'Orbigny).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 815.

*Lucina divaricata* Gould, Inv. Mass., 1841, p. 70 (*non* Linné).

*Lucina quadrисulcata* d'Orbigny, Voy. Amér. Mér., Moll., 1846, vol. 5, p. 584. "ANTILLES."

*Lucina strigilla* Stimpson, Shells of New England, 1851, p. 17.

*Lucina dentata* Gould, Inv. Mass., 1870, p. 99, fig. 405 (*non* Wood, 1815).

MASS.— Nahant; Chatham; Nantucket; Vineyard Sound, 6 to 14 fathoms.

## DIPLODONTIDAE.

**Diplodonta (Sphaerella) verrilli** Dall.

Dall, Trans. Wagner Free Inst. Sci., 1900, vol. 3, pt. 5, p. 1180.

*Diplodonta turgida* Verrill and Smith in Verrill, Amer. Journ. Sci., 1881, ser. 3, vol. 22, p. 303 (*non* Conrad, 1848). Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 569, pl. 58, fig. 42. [OFF MARTHAS-VINEYARD.]

MASS.— Off Marthas Vineyard, 69 fathoms.

## THYASIRIDAE.

**Thyasira insignis** (Verrill and Bush).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 785.

*Cryptodon sarsii* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 399 (*non* Philippi).

*Cryptodon insignis* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 785, pl. 91, figs. 1, 2. "BETWEEN N. LAT.  $44^{\circ} 54'$ , W. LONG.  $59^{\circ} 46' 45''$ , AND N. LAT.  $42^{\circ} 19'$ , W. LONG.  $69^{\circ} 47 \frac{1}{2}'$ , IN 65 TO 471 FATHOMS."

MASS.—Off Cape Cod, N. lat.  $42^{\circ} 19'$ , W. long.  $69^{\circ} 47'$ , northward in 65 to 471 fathoms.

\***Thyasira gouldii** (Philippi).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 786.

*Lucina flexuosa* Gould, Inv. Mass., 1841, p. 71, fig. 52 (*non* Montagu, 1813). [MASSACHUSETTS BAY.]

*Lucina gouldii* Philippi, Zeitsch. für Malak., 1845, p. 75.

*Cryptodon gouldii* Gould, Inv. Mass., 1870, p. 100, fig. 406.

ME.—Casco Bay; Frenchman's Bay, 20 to 40 fathoms; Eastport.

MASS.—Massachusetts Bay; Wiscasset; Buzzards Bay, 6 fathoms; Duxbury.

R. I.—Off Block Island, 29 fathoms.

CONN.—Stonington.

**Thyasira trisinuata** (d'Orbigny).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 786.

*Lucina trisinuata* d'Orbigny, Moll. Cubana, Spanish ed., 1846, vol. 2, p. 300, pl. 27, figs. 46-49. [CUBA.]

*Cryptodon obesus* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 287, pl. 7, fig. 2.

ME.—Casco Bay; Wiscasset.

MASS.—Massachusetts Bay; off Marthas Vineyard, 19 fathoms.

R. I.—Off Block Island, 29 fathoms.

**Thyasira plana** (Verrill and Bush).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 786.

*Cryptodon planus* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 788, pl. 88, figs. 3, 4. "NORTH OF CAPE COD," ETC.

ME.—Casco and Frenchman's Bays; Wiscasset; Penobscot Bay.

MASS.—North of Cape Cod, 8 to 100 fathoms.

**Thyasira inequalis** (Verrill and Bush).

*Cryptodon (Axinulus) inequalis* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 791, pl. 90, figs. 1, 2. "NORTH OF CAPE COD," ETC.

*Thyasira inaequalis* Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 786.

ME.—Casco Bay.

MASS.—North of Cape Cod, 14 to 49 fathoms.

**Thyasira croulinensis** (Jeffreys).

*Clausina croulinensis* Jeffreys, Ann. Mag. Nat. Hist., 1847, ser. 1, vol. 20, p. 19. "CROULIN ISLAND, BETWEEN SKYE AND THE MAINLAND OF ROSSHIRE."

*Cryptodon croulinensis* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 786, pl. 90, figs. 3, 4.

MASS.—North of Cape Cod, 13 to 73 fathoms.

**Thyasira equalis** (Verrill and Bush).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 787.

*Cryptodon equalis* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 788, pl. 91, figs. 5, 6. "BETWEEN N. LAT. 47° 40', W. LONG. 47° 35' 30'', AND N. LAT. 37° 08', W. LONG. 74° 33'."

ME.—Eastport; Gulf of Maine.

MASS.—North of Cape Cod, 14 to 36 fathoms.

**Thyasira (Axinulus) obsoleta** (Verrill and Bush).

*Cryptodon obsoletus* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 789, pl. 89, figs. 1, 2. "OFF MARTHAS VINEYARD."

MASS.—Off Marthas Vineyard, 100 to 390 fathoms.

**Thyasira (Axinulus) ferruginosa** (Forbes).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 787.

*Kellia ferruginosa* Forbes, Rept. Brit. Assoc. Adv. Sci. for 1843, 1844, p. 192. [MOREA.]

*Cryptodon (Axinulus) ferruginosus* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 793, pl. 87, figs. 7, 8.

MASS.—Off Marthas Vineyard, 153 to 500 fathoms.

**Thyasira (Axinulus) ovata** (Verrill and Bush).

*Cryptodon (Axinulus) ovatus* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 793, pl. 91, fig. 7; pl. 93, fig. 1. [OFF MARTHAS VINEYARD.]

MASS.—South of Marthas Vineyard, 100 fathoms.

**Thyasira (Axinulus) succisa** (Jeffreys).

Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 788.

*Axinus incrassatus* var. *succisa* Jeffreys, Ann. Mag. Nat. Hist., 1876, ser. 4, vol. 18, p. 492. "NORTH ATLANTIC AND MEDITERRANEAN."

Off New England, 92 to 1366 fathoms.

**Axinopsis orbiculata** G. O. Sars.

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 63, pl. 19, figs. 11a-d. "VADSØ." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 569. Dall, Proc. U. S. Nat. Mus., 1901, vol. 23, p. 789.

ME.—Broad Sound, Casco Bay, 15 to 30 fathoms; Frenchman's Bay, 15 fathoms.

**Axinopsis orbiculata inequalis** Verrill and Bush.

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 794, pl. 92, figs. 5, 6. "BAY OF FUNDY."

ME.—Frenchman's Bay, 15 fathoms.

MASS.—Off Cape Ann, 18 to 26 fathoms.

**Axinopsis cordata** Verrill and Bush.

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 795, pl. 97, figs. 5, 6. [OFF MARTHAS VINEYARD.]

MASS.—Off Marthas Vineyard, 43 to 202 fathoms.

**Leptaxinus minutus** Verrill and Bush.

Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 797, pl. 89, figs. 3-5. "N. LAT.  $40^{\circ} 3'$ , W. LONG.  $70^{\circ} 31'$ , IN 100 FATHOMS."

MASS.—Off Marthas Vineyard, 100 fathoms.

## LEPTONIDAE.

**Kellia suborbicularis gouldi** (Thomson).

Dall, Proc. U. S. Nat. Mus., 1899, vol. 21, p. 889.

? *Lepton fabagella* Conrad, Amer. Marine Conch., 1831(?), p. 53, pl. 2, fig. 3.

*Montacuta gouldi* Thomson, Amer. Journ. Conch., 1867, vol. 3, p. 33, pl. 1, fig. 15. "N[EW] BEDFORD HARBOR [MASS]."

*Kellia suborbicularis* Gould, Inv. Mass., 1870, p. 83, fig. 394 (*non* Montagu).

MASS.—Off Salem; New Bedford Harbor.

R. I.—Narragansett Bay.

**Rochefortia planulata** (Stimpson).

Dall, Trans. Wagner Free Inst. Sci., 1900, vol. 3, pt. 5, p. 1161, pl. 45, fig. 7.

*Kellia planulata* Stimpson, Shells of New England, 1851, p. 17. "NEW BEDFORD HARB[OR]," ETC., MASS.

*Kellia rubra* Gould, Inv. Mass., 1841, p. 60, fig. 23 [= 33] (*non* Turton).

*Montacuta bidentata* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 779, pl. 93, figs. 7, 8; pl. 94, fig. 6 (*non* Montagu, *non* Gould); var. *fragilis*, p. 780 pl. 92, fig. 8.

ME.—Casco Bay; Eastport, 8 to 15 fathoms.

MASS.—Boston Harbor, 5 fathoms; Provincetown; Vineyard Sound and Buzzards Bay, 1 to 8 fathoms; Duxbury.

R. I.—Off Block Island; Narragansett Bay; near Watch Hill.

CONN.—Near New Haven; Branford.

**Rochefortia ovata** (Jeffreys).

*Montacuta ovata* Jeffreys, Proc. Zool. Soc. London, 1881, p. 698, pl. 61, fig. 4. [OFF SPAIN.] Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 781, pl. 92, figs. 9, 10.

*Mysella ovata* Dall, Proc. U. S. Nat. Mus., 1899, vol. 21, p. 890.

MASS.—Off Marthas Vineyard, 100 to 157 fathoms.

**Montacuta percompressa** Dall.

Dall, Proc. U. S. Nat. Mus., 1899, vol. 21, p. 894. "Woods Hole, [MASS.]."

*Tellimya ferruginosa* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 225, pl. 30, fig. 13 (*non* Montagu).

MASS.—At the "Gutters," Naushon Island, near Woods Hole.

KELLIELLIDAE.

\***Turtonia minuta** (Fabricius).

Gould, Inv. Mass., 1870, p. 85, fig. 395. Dall, Proc. U. S. Nat. Mus., 1899, vol. 21, p. 895.

*Venus minuta* Fabricius, Fauna Groenlandica, 1780, p. 412. [GREENLAND.]

ME.—Casco Bay; Frenchman's Bay.

MASS.—Massachusetts Bay; Duxbury.

\***Aligena elevata** (Stimpson).

Dall, Proc. U. S. Nat. Mus., 1899, vol. 21, p. 895.

*Montacuta elevata* Stimpson, Shells of New England, 1851, p. 16. "NEW BEDFORD HARB[OR] \* \* \* CHELSEA BEACH, [MASS.]."

*Montacuta bidentata* Gould, Inv. Mass., 1841, p. 59.

*Kelliopsis elevata* Verrill and Bush, Proc. U. S. Nat. Mus., 1898, vol. 20, p. 784, pl. 93, figs. 2-4; pl. 94, figs. 7, 8.

MASS.—Revere; Wellfleet; Woods Hole; New Bedford Harbor; Duxbury.

R. I.—Narragansett Bay,  $8\frac{1}{2}$  to 10 fathoms.

CONN.—Savin Rock, near New Haven.

#### CARDIIDAE.

##### \**Cardium (Cerastoderma) ciliatum* Fabricius.

*Cardium ciliatum* Fabricius, Fauna Groenlandica, 1780, p. 410.  
[GREENLAND.]

*Cardium pubescens* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 61, pl. 3, fig. 6.

*Cardium islandicum* Gould, Inv. Mass., 1870, p. 139, fig. 450 (*non* Linné).

ME.—Casco Bay; Frenchman's Bay, 20 to 30 fathoms; Eastport, 6 to 60 fathoms.

MASS.—Marblehead Harbor, 7 fathoms; off Cape Cod, 35 fathoms; Duxbury, 20 fathoms.

##### \**Cardium (Cerastoderma) pinnulatum* Conrad.

*Cardium pinnulatum* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 260, pl. 11, fig. 8. "MASSACHUSETTS." Gould, Inv. Mass., 1870, p. 141, fig. 452.

ME to CONN.—Common, especially north of Cape Cod.

##### \**Cardium (Laevicardium) mortoni* Conrad.

*Cardium mortoni* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 259, pl. 11, figs. 5-7. "NORTHERN COAST [OF UNITED STATES]."

*Liocardium mortoni* Gould, Inv. Mass., 1870, p. 143, fig. 453.

MASS.—Cohasset; Vineyard Sound and Buzzards Bay; Nantasket; Duxbury.

R. I.—Narragansett Bay; Buttonwoods; Wickford.

CONN.—New Haven.

**\*Serripes groenlandicus** (Gmelin).

*Cardium groenlandicum* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3252. "GROENLANDIA ET ISLANDIA."

*Aphrodite groenlandica* Gould, Inv. Mass., 1870, p. 144, fig. 454.

*Serripes groenlandicus* Dall, Proc. U. S. Nat. Mus., 1900, vol. 23, p. 388.

ME.—Casco Bay, 8 fathoms; Frenchman's Bay, 6 to 16 fathoms.

MASS.—Cape Cod Bay.

CONN.—Off Stonington (Linsley).

**Protocardia peramabilis** (Dall).

Dall, Proc. U. S. Nat. Mus., 1900, vol. 23, p. 388.

*Cardium (Fulvia) peramabilis* Dall, Bull. Mus. Comp. Zoöl., 1881, vol. 9, p. 132. [WEST INDIES.] Dall, Bull. Mus. Comp. Zoöl., 1886, vol. 12, p. 269, pl. 4, fig. 7.

Off Rhode Island, 115 fathoms.

VENERIDAE.

**\*Callocardia (Agriopoma) morrhuana** (Linsley).

Dall, Proc. U. S. Nat. Mus., 1902, vol. 26, p. 370.

*Cytherea convexa* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 261. Gould, Inv. Mass., 1870, p. 131, fig. 444 (*non* Say, 1824).

*Cytherea morrhuana* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48, p. 276. "CODFISH STOMACH, STONINGTON, [CONN.]."

ME.—Casco Bay, 3 to 8 fathoms; Eastport.

MASS.— Marblehead; Nahant; Provincetown; Vineyard Sound and Buzzards Bay, 2 to 10 fathoms.

R. I.— Narragansett Bay.

CONN.— Stonington; Stratford; New Haven.

\***Venus mercenaria** Linné.

Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 686. "PENNSYLVANIA." Gould, Inv. Mass., 1870, p. 133, fig. 445.

ME.— Quahog Bay, in Casco Bay.

MASS.— Revere; Provincetown; common south of Cape Cod.

R. I.— Narragansett Bay; Buttonwoods.

CONN.— Common along the entire coast.

\***Venus mercenaria notata** Say.

*Venus notata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 271. "COAST OF THE UNITED STATES." Gould, Inv. Mass., 1870, p. 135, fig. 446.

MASS.— Edgartown.

R. I.— Newport; Buttonwoods.

CONN.— Stonington.

**Liocyma fluctuosa** (Gould).

Dall, Proc. U. S. Nat. Mus., 1902, vol. 26, p. 364.

*Venus fluctuosa* Gould, Inv. Mass., 1841, p. 87, fig. 50. "BANK FISHERIES."

*Tapes fluctuosa* Gould, Inv. Mass., 1870, p. 136, fig. 447.

ME.— Frenchman's Bay, 35 fathoms (Blaney).

\***Gemma gemma** (Totten).

Gould, Inv. Mass., 1870, p. 137, fig. 448.

*Venus gemma* Totten, Amer. Journ. Sci., 1834, ser. 1, vol. 26, p. 367, pl. 1, fig. 2. "MASSACHUSETTS AND RHODE ISLAND."

*Gemma tottenii* Stimpson, Smithson. Misc. Coll., 1860, vol. 2, art. 6, no. 3, p. 3.

*Totteniana gemma* Perkins, Proc. Boston Soc. Nat. Hist., 1869, vol. 13, p. 148.

ME. to CONN.—Especially abundant on the sandy shores of Massachusetts.

\***Gemma gemma purpurea** (H. C. Lea).

Dall, Trans. Wagner Free Inst. Sci., 1903, vol. 3, pt. 6, p. 1332, pl. 24, figs. 2, 4, 4b.

*Cyrena purpurea* H. C. Lea, Amer. Journ. Sci., 1842, ser. 1, vol. 42, p. 106, pl. 1, fig. 1. "DELAWARE BAY."

*Gemma manhattensis* Gould, Inv. Mass., 1870, p. 138, fig. 449.

MASS.—Vineyard Sound.

R. I.—Buttonwoods.

CONN.—Near New Haven.

PETRICOLIDAE.

\***Petricola pholadiformis** Lamarck.

Lamarck, Hist. Nat. Anim. sans Vert., 1818, vol. 5, p. 505.

Gould, Inv. Mass., 1870, p. 90, fig. 398.

*Petricola fornicata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 319. "COAST OF NORTH AMERICA."

ME.—Quahog Bay, in Casco Bay; Old Orchard Beach.

MASS.—Salem; Revere; Cohasset; Vineyard Sound and Buzzards Bay.

R. I.—Narragansett Bay.

CONN.—Near New Haven.

\***Petricola dactylus** Sowerby.

Sowerby, Genera Shells, 1820–1825, pl. 53, fig. 3; Thes. Conch., 1855, vol. 2, pt. 2, p. 772, pl. 166, fig. 4. "SOUTH AMERICA."

*Gastranella tumida* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 286, pl. 6, figs. 3, 3a (young).

ME.— Casco Bay.

MASS.— Ipswich Beach; Lynn; Cohasset; Cataumet; Chat-ham.

CONN.— Long Island, near New Haven, 4 to 6 fathoms.

#### TELLINIDAE.

\***Tellina (Angulus) tenera** Say.

*Tellina tenera* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 303. "COAST OF NEW JERSEY." Gould, Inv. Mass., 1870, p. 97, fig. 403.

*Angulus tener* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 677, pl. 26, fig. 180; pl. 30, fig. 223.

ME.— Casco Bay.

MASS.— Ipswich Beach; Revere; Vineyard Sound and Buzzards Bay.

CONN.— Stonington; New Haven.

**Tellina (Angulus) tenella** (Verrill).

*Angulus modestus* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 285, pl. 6, figs. 2, 2a (*non* Carpenter, 1864). [VINEYARD SOUND, BUZZARDS BAY AND LONG ISLAND SOUND.]

*Angulus tenellus* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 677, pl. 30, fig. 224.

MASS.— Vineyard Sound and Buzzards Bay, 6 to 10 fathoms.

CONN.— Long Island Sound, off New Haven, 4 to 5 fathoms.

**Tellina (Angulus) versicolor** DeKay.

*Tellina versicolor* Cozzens, in Jay's Cat. Shells, ed. 2, 1836, p. 12. "NEW-YORK." DeKay, Nat. Hist. N. Y., Moll., 1843, p. 209, pl. 26, fig. 172.

CONN.— Stratford; Long Beach.

**\*Macoma balthica** (Linné).

*Tellina balthica* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 677.

“M. BALTHICO.”

*Macoma fusca* Gould, Inv. Mass., 1870, p. 93, fig. 400.

*Macoma fragilis* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 676, pl. 30, fig. 222.

ME. to CONN.—Common, especially in the harbors and bays.

**\*Macoma calcarea** (Gmelin).

*Tellina calcarea* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3236.

“MARI ISLANDIAM CIRCUMFLUENTE.”

*Tellina sordida* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 59, pl. 3, fig. 11.

*Macoma proxima* Gould, Inv. Mass., 1870, p. 95, fig. 401.

*Macoma sabulosa* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 677.

ME.—Casco Bay, 3 to 60 fathoms; Frenchman’s Bay, 10 to 15 fathoms; Eastport.

MASS.—Off Cape Ann; Georges Bank.

R. I.—Off Block Island, 29 fathoms.

CONN.—Stonington (Linsley).

**\*Macoma tenta** (Say).

*Tellina tenta* Say, Amer. Conch., 1834, pl. 65, fig. 3. [SOUTH CAROLINA.] Gould, Inv. Mass., 1870, p. 96, fig. 402.

ME.—Georges River, near Taylor’s Point, Cushing’s Shore, 6 fathoms (Lermond).

MASS.—Vineyard Sound and Buzzards Bay, 2 to 10 fathoms; New Bedford.

CONN.—Stonington.

## PSAMMODIIDAE.

**\*Tagelus gibbus** (Spengler).

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 675, pl. 26, fig. 181; pl. 30, fig. 217.

*Solen gibbus* Spengler, Skriv. Nat.-Selsk. Kjobenhavn, 1794, vol. 3, pt. 2, p. 104. "I VESTINDIEN."

*Solecurtus gibbus* Gould, Inv. Mass., 1870, p. 43, fig. 367.

MASS.—Vineyard Sound and Buzzards Bay; New Bedford; Chatham.

CONN.—Stratford (Linsley).

**\*Tagelus divisus** (Spengler).

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 676, pl. 30, fig. 218.

*Solen divisus* Spengler, Skriv. Nat.-Selsk. Kjobenhavn, 1794, vol. 3, pt. 2, p. 96. "TUNIS."

*Solecurtus divisus* Gould, Inv. Mass., 1870, p. 44, fig. 368.

N. H.—Hampton Beach.

MASS.—Coffin's Beach; Hyannisport; Vineyard Sound and Buzzards Bay.

R. I.

CONN.—Stonington.

## SEMELIDAE.

**\*Cumingia tellinoides** (Conrad).

Gould, Inv. Mass., 1870, p. 79, fig. 390.

*Mactra tellinoides* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 258, pl. 11, figs. 2, 3. "NORTHERN COAST [OF UNITED STATES]."

MASS.—Provincetown; Vineyard Sound and Buzzards Bay, 3 to 12 fathoms.

R. I.

CONN.—New Haven; off Stonington.

**Abra aequalis** (Say).

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 679.

*Amphidesma aequalis* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 307. "SOUTHERN COAST [OF UNITED STATES]."

CONN.—Stonington, from cod stomach (Linsley).

## SOLENIDAE.

**Solen viridis** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 316. "SOUTHERN COAST [OF UNITED STATES]." Verrill, Rept. Inv. Vineyard Sound, 1873, p. 675.

R. I.

CONN.—Stonington (Linsley).

**\*Ensis directus** (Conrad).

Dall, Proc. U. S. Nat. Mus., 1899, vol. 22, p. 107.

*Solen directus* Conrad, Proc. Acad. Nat. Sci. Phila., 1843, vol. 1, p. 325. "NEUSE RIVER, BELOW NEWBERN, NORTH CAROLINA. MIocene?"

*Solen ensis* var. *americanus* Gould, Inv. Mass., 1870, p. 42, fig. 366.

*Ensatella americana* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 674, pl. 26, fig. 182; pl. 32, fig. 245.

ME. to CONN.—The common "Razor Shell."

**\*Siliqua costata** (Say).

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 675, pl. 32, fig. 244.

*Solcn costatus* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 315. "GREAT EGG HARBOUR, NEW JERSEY."

*Machaera costata* Gould, Inv. Mass., 1870, p. 47, fig. 370.

ME.—Casco Bay; Scarboro.

MASS.—Revere; Nahant.

R. I.

CONN.— New Haven.

**Siliqua squama** (Blainville).

*Solecurtus squama* Blainville, Dict. des Sci. Nat., 1827, vol. 49, p. 419. "TERRE-NEUVE."

*Machaera squama* Gould, Inv. Mass., 1870, p. 46, fig. 369.

Not unfrequently taken from the stomachs of codfish caught at the Banks and sometimes off our shores (Gould).

MACTRIDAЕ.

\***Spisula (Hemimactra) solidissima** (Dillwyn).

Dall, Nautilus, 1894, vol. 8, p. 26.

*Mactra solidissima* Dillwyn, Cat. Recent Shells, 1817, vol. 1, p. 140. "NORTH AMERICA." Gould, Inv. Mass., 1870, p. 73, fig. 387.

ME. to CONN.— The Common Beach Clam or Hen Clam.

**Spisula (Hemimactra) solidissima similis** (Say).

*Mactra similis* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 309. "COAST OF THE UNITED STATES."

MASS.— Provincetown.

R. I.

CONN.

\***Spisula (Hemimactra) polynyma** (Stimpson).

*Mactra polynyma* Stimpson, Smithson. Misc. Coll., 1860, vol. 2, art. 6, no. 3, p. 3.

*Mactra oralis* Gould, Inv. Mass., 1841, p. 53, fig. 32 (*non* Sowerby, 1817). Gould, Inv. Mass., 1870, p. 75, fig. 388.

ME.— Casco Bay; Frenchman's Bay; Eastport; Penobscot Bay.

MASS.— Massachusetts Bay; Georges Bank.

\***Mulinia lateralis** (Say).

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 680, pl. 26, fig. 184, B (not fig. 185, B).

*Mactra lateralis* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 309. "COAST OF THE UNITED STATES." Gould, Inv. Mass., 1870, p. 77, fig. 389.

ME.—Casco Bay.

MASS.—Lynn; Boston; Vineyard Sound and Buzzards Bay, 1 to 15 fathoms.

R. I.—Field's Point; Bristol.

CONN.—New Haven; Branford.

MESODESMATIDAE.

\***Mesodesma arctatum** (Conrad).

*Mactra arctata* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 257, pl. 11, fig. 1. "MASSACHUSETTS."

*Ceronia arctata* Gould, Inv. Mass., 1870, p. 80, fig. 391.

ME.

MASS.—Plum Island; Nahant; Truro; Chatham; Nantucket.

CONN.—Stonington.

**Mesodesma deauratum** (Turton).

*Mactra deaurata* Turton, Conch. Insul. Brit. Dithyra, 1830, p. 71, pl. 5, fig. 5. "EXMOUTH [ENGLAND]."

*Ceronia deaurata* Gould, Inv. Mass., 1870, p. 81, fig. 392.

Georges Bank (Gould).

MYACIDAE.

\***Mya arenaria** Linné.

Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 670. "O. EUROPÆ SEPTENTRIONALIS." Gould, Inv. Mass., 1870, p. 55, fig. 375.

ME. to CONN.—The Common Clam of the New England coast.

**\*Mya truncata** Linné.

Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 670. "O. EUROPAEO." Gould, Inv. Mass., 1870, p. 58, fig. 376.

ME.—Casco Bay; Frenchman's Bay; Eastport.

MASS.—Massachusetts Bay; Georges Bank.

CORBULIDAE.

**\*Corbula contracta** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 312. "COASTS OF GEORGIA AND EAST FLORIDA." Gould, Inv. Mass., 1870, p. 60, fig. 377.

MASS.—Vineyard Sound and Buzzards Bay, 5 to 19 fathoms.

R. I.—Narragansett Bay.

CONN.—Near New Haven.

SAXICAVIDAE.

**\*Saxicava arctica** (Linné).

Gould, Inv. Mass., 1870, p. 89.

*Mya arctica* Linné, Syst. Nat., ed. 12, 1767, p. 1113. "OCEANO NORVEGICO."

*Saxicava rugosa* Lamarck, Hist. Nat. Anim. sans Vert., 1818, vol. 5, p. 501. Gould, Inv. Mass., 1870, p. 87, fig. 397.

ME. to CONN.—Commonly found adhering to other objects.

**\*Cyrtodaria siliqua** (Spengler).

*Mya siliqua* Spengler, Skriv. Nat.-Selsk. Kjobenhavn, 1793, vol. 3, pt. 1, p. 48. "NEWFOUNDLAND."

*Glycymeris siliqua* Gould, Inv. Mass., 1870, p. 53, fig. 374.

ME.—Casco Bay; Frenchman's Bay, 5 fathoms.

MASS.—Ipswich Bay; Nahant; off Provincetown; Buzzards Bay; Duxbury, 20 fathoms. Georges Bank.

**Panomya arctica** (Lamarck).

Iredale, Proc. Mal. Soc. London, 1915, vol. 11, p. 341.

*Glycimeris arctica* Lamarck, Hist. Nat. Anim. sans Vert., 1818, vol. 5, p. 458. "L'Océan Arctique, la Mer Blanche."

*Mya norvegica* Spengler, Skriv. Nat.-Selsk. Kjobenhavn, 1793, vol. 3, pt. 1, p. 46, pl. 2, fig. 18 (non Gmelin, 1790).

*Panopaea arctica* Gould, Inv. Mass., 1870, p. 51, fig. 373.

ME.—Off Casco Bay, 115 fathoms; Frenchman's Bay, 25 to 30 fathoms; Eastport, 40 fathoms. Georges Bank.

## PHOLADIDAE.

**\*Barnea costata** (Linné).

*Pholas costatus* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 669.  
"EUROPAE AUSTRALIS."

*Barnea (Scobina) costata* Dall, Trans. Wagner Free Inst. Sci., 1898, vol. 3, pt. 4, p. 816.

*Pholas costata* Gould, Inv. Mass., 1870, p. 36, fig. 363.

MASS.—New Bedford; Woods Hole; Marthas Vineyard.

CONN.—Long Island Sound.

**\*Barnea truncata** (Say).

Dall, Trans. Wagner Free Inst. Sci., 1898, vol. 3, pt. 4, p. 816.

*Pholas truncata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 321. "SOUTHERN COAST [OF UNITED STATES]." Gould, Inv. Mass., 1870, p. 38, fig. 364.

ME.—Scarboro (Roper).

MASS.—Salem Harbor (Morse); Revere; Vineyard Sound; New Bedford; Duxbury.

R. I.—Bristol.

CONN.—Near New Haven.

\**Zirfaea crispata* (Linné).

Gould, Inv. Mass., 1870, p. 39, fig. 365.

*Mya crispata* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 670.  
“O. SEPTENTRIONALI.”

ME.—Casco Bay, 10 to 20 fathoms; Frenchman’s Bay, 10 fathoms; Eastport.

MASS.—Nahant; Phillips Beach; Woods Hole; Cohasset; Duxbury.

CONN.—Stonington.

\**Xylophaga dorsalis* (Turton).

Turton, Conch. Ins. Brit., 1822, p. 253, pl. 2, figs. 4, 5. Forbes and Hanley, Brit. Moll., 1853, vol. 1, p. 90, pl. 2, figs. 3, 4.

*Teredo dorsalis* Turton, Conch. Dict. Brit. Islands. 1819, p. 185.  
“DEVONSHIRE COAST.”

ME.—Casco Bay, between Bates Island and Mink Rocks; Gulf of Maine, 100 to 110 fathoms.

*Martesia cuneiformis* (Say).

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 671. Johnson, Nautilus, 1904, vol. 18, p. 101, fig. 2. Perkins, Proc. Boston Soc. Nat. Hist., 1869, vol. 13, p. 140.

*Pholas cuneiformis* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 322. “SOUTHERN COAST [OF UNITED STATES].”

CONN.—New Haven Bay. One specimen of this species in a pile of shells on the beach (Perkins).

TEREDINIDAE.

*Teredo navalis* Linné.

Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1267. “INTRA LIGNUM NAVIUM \*\*\* EX INDIIS IN EUROPAM PROPAGATA.” Gould, Inv. Mass., 1870, p. 28, fig. 355.

MASS.—Vineyard Sound and Buzzards Bay, in cedar buoys; Woods Hole in piles of wharves.

CONN.—New Haven, in piles of wharves.

#### **Teredo norvagica** Spengler.

*Teredo norvagicus* Spengler, Skriv. Nat.-Selsk. Kjobenhavn, 1792, vol. 2, pt. 1, p. 102, pl. 2, figs. 4-6. "FRIEDRIKSVÆRNS HAVN I NORGE." Gould, Inv. Mass., 1870, p. 29, fig. 356.

The prevailing indigenous species in the Northern Atlantic seas, but it is rare on the American coast (Gould).

#### **Teredo nana** Turton.

Turton, Conch. Insul. Brit., 1822, p. 16, pl. 2, figs. 6, 7. "TOR-BAY, [ENGLAND]."

*Teredo megotara* Forbes and Hanley, Brit. Conch., 1853, vol. 1, p. 77, pl. 4, fig. 6; pl. 18, figs. 1, 2; vol. 4, p. 246. Gould, Inv. Mass., 1870, p. 30, fig. 357.

ME.—From driftwood, Ironbound Island, Frenchman's Bay (Blaney).

MASS.—Provincetown; New Bedford; Cohasset.

R. I.—Newport.

#### **Teredo thomsonii** Tryon.

Tryon, Proc. Acad. Nat. Sci. Phila., 1863, p. 280, pl. 2, figs. 3-5. "NEW BEDFORD, MASS." Gould, Inv. Mass., 1870, p. 31, fig. 358.

MASS.—New Bedford; Provincetown.

#### **Teredo dilatata** Stimpson.

Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 113. "LYNN, (MASS.)." Gould, Inv. Mass., 1870, p. 32, fig. 359.

ME.—Casco Bay.

MASS.—From pine buoys near Cape Ann; Marblehead; Provincetown.

**Teredo (Lyrodus) chlorotica Gould.**

*Teredo chlorotica* Gould, Inv. Mass., 1870, p. 33, fig. 360. "TIMBERS OF SHIPS THAT HAVE CRUISED IN THE PACIFIC."

*Teredo (Lyrodes) chlorotica* Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 74, pl. 68, fig. 3.

MASS.—From timbers of ships that have cruised in the Pacific (Gould).

**Xylotrya fimbriata (Jeffreys).**

Gould, Inv. Mass., 1870, p. 34, fig. 361.

*Teredo fimbriata* Jeffreys, Ann. Mag. Nat. Hist., 1860, ser. 3, vol. 6, p. 126. "LEITH, [ENGLAND.]"

*Xylotrya palmulata* Perkins, Proc. Boston Soc. Nat. Hist., 1869, vol. 13, p. 141.

MASS.—Taken from one of the timbers of "Old Ironsides" (Gould).

CONN.—In an old submerged wreck near New Haven (Verrill).

## SCAPHOPODA.

## SOLENCONCHAE.

## DENTALIIDAE.

**\*Dentalium entalis Linné.**

Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 785. "O. EURÓPAEO, INDICO."

*Dentalium striolatum* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 114.

*Entalis striolata* Gould, Inv. Mass., 1870, p. 266, fig. 528.

ME.—Casco Bay; Frenchman's Bay, 25 to 30 fathoms; Eastport, 10 to 20 fathoms.

N. H.—Off Isles of Shoals.

MASS.—Massachusetts Bay.

**Dentalium agile** G. O. Sars.

G. O. Sars, Remarkable Forms Anim. Life, 1872, p. 34, pl. 3, figs. 4, 5. [LOFOTEN, 200 TO 300 FATHOMS.] Pilsbry and Sharp, Manual Conch., 1897, ser. 1, vol. 17, p. 46, pl. 8, fig. 36.

ME.—Casco Bay (Kingsley).

**\*Dentalium occidentale** Stimpson.

Stimpson, Shells of New England, 1851, p. 28. "COAST OF MAINE, AND IN MASS. BAY." Pilsbry and Sharp, Manual Conch., 1897, ser. 1, vol. 17, p. 47, pl. 13, figs. 9–11; pl. 9, figs. 41–43.

*Dentalium dentale* Gould, Inv. Mass., 1841, p. 155, pl. 1, fig. 5 (*non* Linné).

ME.—Casco Bay; Frenchman's Bay, 10 fathoms; Eastport 10 to 20 fathoms.

MASS.—Massachusetts Bay.

**Dentalium occidentale sulcatum** Verrill.

Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 217. [OFF CAPE COD.]

MASS.—East of Cape Cod, 75 fathoms.

## SIPHONODENTALIIDAE.

**Siphonodentalium lobatum** (Sowerby).

Pilsbry and Sharp, Manual Conch., 1897, ser. 1, vol. 17, p. 136, pl. 23, figs. 8–21.

*Dentalium lobatum* G. B. Sowerby, Jr., Thes. Conch., 1866, vol. 3, p. 100, pl. 3, fig. 44.

*Siphonodentalium vitreum* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 557, pl. 42, fig. 19.

Gulf of Maine, 60 to 107 fathoms.

MASS.—Off Marthas Vineyard, 100 to 487 fathoms.

**Siphonodentalium (Pulsellum) lofotense** M. Sars.

*Siphonodentalium lofotense* M. Sars, Forh. Vid.-Selsk. Christiania for 1864, 1865, p. 297, pl. 6, figs. 29–33. “LOFOTEN.” Pilsbry and Sharp, Manual Conch., 1897, ser. 1, vol. 17, p. 138, pl. 24, figs. 40–44.

MASS.—Off Marthas Vineyard, 115 to 500 fathoms (Verrill).

**Cadulus jeffreysii** (Monterosato).

*Helonyx jeffreysii* Monterosato, Atti Reale Accad. Sci. Palermo, 1875, vol. 5, p. 20. [MEDITERRANEAN.]

*Cadulus propinquus* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 558, pl. 58, figs. 31, 32 (*non* Sars).

*Cadulus jeffreysi* Pilsbry and Sharp, Manual Conch., 1897, ser. 1, vol. 17, p. 164, pl. 24, fig. 39; pl. 32, figs. 44–46.

MASS.—Off Marthas Vineyard, 100 to 115 fathoms (Verrill).

**Cadulus pandionis** Verrill and Smith.

Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 399. [OFF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 558, pl. 58, figs. 30, 30a.

MASS.—South of Marthas Vineyard, 85 to 500 fathoms (Verrill).

**Cadulus watsoni** Dall.

Dall, Bull. Mus. Comp. Zoöl., 1881, vol. 9, p. 34. “OFF C. SAN ANTONIO \*\*\* YUCATAN STRAIT.” Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 429, pl. 27, fig. 12a. Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 219.

MASS.—South of Marthas Vineyard, 197 fathoms.

## GASTEROPODA.

## Sub-class STREPTONEURA.

## ASPIDOBRANCHIA.

## ACMAEIDAE.

**\*Acmaea testudinalis** (Müller).

Pilsbry, Manual Conch., 1891, ser. 1, vol. 13, p. 10, pl. 9, figs. 25-29.

*Patella testudinalis* Müller, Zool. Danicae Prodr., 1776, p. 237.  
“ DANIAE ET NORVEGIAE.”

*Tectura testudinalis* Gould, Inv. Mass., 1870, p. 267, fig. 529.

ME.— Common along the entire coast.

MASS.— Marblehead; Cohasset; Provincetown; Marthas Vineyard.

R. I.— Watch Hill.

CONN.— New Haven, rare.

**\*Acmaea alveus** (Conrad).

*Patella alveus* Conrad, Journ. Acad. Nat. Sci. Phila., 1831, ser. 1, vol. 6, p. 267, pl. 11, fig. 20. “ MASSACHUSETTS.”

*Tectura alveus* Gould, Inv. Mass., 1870, p. 269, fig. 530.

ME.— Casco Bay; North Haven; Frenchman’s Bay.

MASS.— Massachusetts Bay.

**Acmaea fergusoni** Wheat.

Wheat, Sci. Bull. Brooklyn Inst. Arts and Sci., 1913, vol. 2, p. 17.  
“ NORTH SHORE LONG ISLAND, N. Y.”

CONN.— New Haven (Perkins), see Wheat, Nautilus, 1913, vol. 27, p. 72.

## LEPTIDAE.

\***Lepeta caeca** (Müller).

Gould, Inv. Mass., 1870, p. 270, fig. 531.

*Patella caeca* Müller, Zool. Danicae Prodr., 1776, p. 237.  
“DANIAE ET NORVEGIAE.”

ME.—Casco Bay; Frenchman’s Bay, 25 to 30 fathoms; Eastport.

MASS.—From stomach of fish caught off Barnstable.

**Lepetella tubicola** Verrill and Smith.

Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, p. 396. [OFF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 534, pl. 58, figs. 29, 29a.

MASS.—Off Marthas Vineyard, in old tubes of *Hyalinoecia artifex*, 130 to 388 fathoms.

## FISSURELLIDAE.

\***Puncturella princeps** (Mighels and Adams).

*Cemoria princeps* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 42, pl. 4, fig. 9. “FROM THE STOMACH OF A HADDOCK \*\*\* SEVENTY-FIVE TO ONE HUNDRED MILES OFF THE MOUTH OF KENNEBEC RIVER \*\*\* FORTY TO SEVENTY-FIVE FATHOMS.”

*Puncturella noachina* Pilsbry, Manual Conch., 1890, ser. 1, vol. 12, p. 229, pl. 27, figs. 69, 70; and authors, *non* Linné, 1771.

*Cemoria noachina* Gould, Inv. Mass., 1870, p. 276, fig. 537.

ME.—Caseo Bay; Frenchman’s Bay, 25 to 30 fathoms; Eastport, 30 fathoms.

MASS.—Georges Bank.

## COCCULINIDAE.

**Cocculina beanii** Dall.

Dall, Proc. U. S. Nat. Mus., 1882, vol. 4, p. 403. [SOUTH OF MARTHAS VINEYARD.] Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 347, pl. 25, figs. 2, 4, 8.

MASS.—South of Marthas Vineyard, 100 to 335 fathoms.

## SCISSURELLIDAE.

**Scissurella crispata** Fleming.

Fleming, Mem. Wern. Nat. Hist. Soc., 1832, vol. 6, p. 385, pl. 6, fig. 3. "ISLE OF NOSS, ZETLAND." Forbes and Hanley, Brit. Moll., 1853, vol. 2, p. 544, pl. 63, fig. 6. Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 168, pl. 48, fig. 15.

N. H.—Hampton Beach (Morse).

## TROCHIDAE.

**\*Molleria costulata** (Möller).

*Margarita? costulata* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 81. [GREENLAND.]

*Adeorbis costulata* Gould, Inv. Mass., 1870, p. 278, fig. 538.

ME.—Frenchman's Bay, 20 to 30 fathoms; Eastport, 30 fathoms.

MASS.—Off Cape Ann; off Nantucket, 4 fathoms.

**\*Margarites helicina** (Phipps).

*Turbo helicinus* Phipps, Voyage toward the North Pole, 1774, p. 198. "ON THE NORTH SIDE OF SPITSBERGEN."

*Margarita arctica* Gould, Inv. Mass., 1841, p. 255, fig. 163.

*Margarita helicina* Gould, Inv. Mass., 1870, p. 281, fig. 542.

ME.—Casco Bay; Frenchman's Bay, low tide to 20 fathoms; Eastport.

MASS.—Duxbury; Plymouth.

**\*Margarites olivacea** (Brown).

*Turbo olivaceus* Brown, Illustr. Conch., 1827, pl. 46, figs. 30, 31.  
“GREENOCK, [ENGLAND].”

*Margarita argentata* Gould, Inv. Mass., 1870, p. 282, fig. 544.

ME.— Casco Bay; Frenchman’s Bay, 25 to 30 fathoms; Eastport.

MASS.— Off Cape Ann and Cohasset.

**Margarites acuminata** (Sowerby).

*Margarita acuminata* Sowerby, Mal. and Conch. Mag., 1838, vol. 1, p. 26. [ARCTIC OCEAN.] Pilsbry, Manual Conch., 1889, ser. 1, vol. 11, p. 287, pl. 39, fig. 55; pl. 66, fig. 6.

Gulf of Maine; Grand Manan, in 40 fathoms on a soft muddy bottom off the “Swallow’s Tail” (Stimpson).

**\*Margarites groenlandica** (Gmelin).

*Trochus groenlandicus* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3574. “GROENLANDIAE LITTORA.”

*Margarita undulata* Gould, Inv. Mass., 1870, p. 280, fig. 541.

ME.— Casco Bay; Frenchman’s Bay, 6 to 35 fathoms; Eastport.

MASS.— Phillips Beach.

**\*Margarites cinerea** (Couthouy).

*Turbo cinereus* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 99, pl. 3, fig. 9. “VICINITY OF CAPE ANN, MASS.”

*Margarita cinerea* Gould, Inv. Mass., 1870, p. 279, fig. 539.

ME.— Casco Bay; Frenchman’s Bay, 6 to 30 fathoms; West Isles, near Eastport, 10 fathoms.

MASS.— From fish caught in Massachusetts Bay.

**Margarites multilineata** (DeKay).

*Margarita multilineata* DeKay, Nat. Hist. N. Y., Moll., 1843, p. 109, pl. 6, fig. 108. “STOMACHS OF CODFISHES ON THE COAST.”

CONN.— Stratford (Linsley).

**Margarites minutissima** (Mighels).

*Margarita minutissima* Mighels, Boston Journ. Nat. Hist., 1843, vol. 4, p. 349, pl. 16, fig. 5. "CASCO BAY." Gould, Inv. Mass., 1870, p. 280, fig. 540.

ME.— Casco Bay, from the stomach of a haddock.

**\*Solariella obscura** (Couthouy).

Pilsbry, Manual Conch., 1889, ser. 1, vol. 11, p. 308, pl. 57, figs. 44, 45.

*Turbo obscurus* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 100, pl. 3, fig. 12. "WATERS OF MASS. BAY."

*Margarita obscura* Gould, Inv. Mass., 1870, p. 283, fig. 545.

ME.— Casco Bay; Frenchman's Bay, 6 to 35 fathoms; Eastport, 6 fathoms.

N. H.— Off Isles of Shoals, 20 fathoms.

MASS.— Beverly Harbor; off Egg Rock, near Nahant, 17 fathoms; off Marthas Vineyard, 20 to 25 fathoms.

CONN.— Stonington, from haddock (Linsley).

**Solariella obscura bella** (Verkrüzen).

Pilsbry, Manual Conch., 1889, ser. 1, vol. 11, p. 310, pl. 64, figs. 57, 58.

*Margarita bella* Verkrüzen, Jahrb. Deutsch. Mal. Ges., 1875, p. 236. "HAMMERFEST."

ME.— Eastport, 10 to 40 fathoms.

Georges Bank, 43 to 45 fathoms.

**Solariella obscura planula** (Verrill).

*Machaeroplax obscura* var. *planula* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 531. "SOUTH OF CAPE COD."

MASS.— South of Cape Cod, 15 to 30 fathoms (Verrill).

**Solariella obscura carinata** (Verrill).

*Machaeroplax obscura* var. *carinata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 532. "OFF MARTHA'S VINEYARD."

MASS.— Off Marthas Vineyard, 146 to 335 fathoms.

**Solariella lamellosa** (Verrill and Smith).

Pilsbry, Manual Conch., 1889, ser. 1, vol. 11, p. 315, pl. 57, fig. 14.

*Margarita lamellosa* Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 397. [OFF MARTHAS VINEYARD.]

MASS.— South of Marthas Vineyard, 100 to 192 fathoms.

**Solariella ottoi** (Philippi).

Pilsbry, Manual Conch., 1889, ser. 1, vol. 11, p. 320, pl. 57, fig. 17.

*Trochus ottoi* Philippi, Enum. Moll. Siciliae, 1844, vol. 2, p. 227, pl. 28, fig. 9. "PROPE MESSINAM."

*Margarita regalis* Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 397.

MASS.— South of Marthas Vineyard, 115 to 500 fathoms.

**\*Calliostoma occidentale** (Mighels and Adams).

*Trochus occidentalis* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 47, pl. 4, fig. 16. "CASCO BAY."

*Calliostoma occidentalis* Pilsbry, Manual Conch., 1889, ser. 1, vol. 11, p. 393, pl. 37, figs. 2, 3.

ME.— Casco Bay; Penobscot Bay; Frenchman's Bay; Eastport.

**Calliostoma bairdii** Verrill and Smith.

Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 391, 396. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 530, pl. 57, fig. 26.

MASS.— South of Marthas Vineyard, 65 to 192 fathoms.

## CTENOBRANCHIATA.

## EULIMIDAE.

**Melanella (Eulima) oleacea** (Kurtz and Stimpson).

*Eulima oleacea* Kurtz and Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 115. "BUZZARD'S BAY." Gould, Inv. Mass., 1870, p. 332, fig. 603.

MASS.— In Vineyard Sound it is not uncommon on *Thyone briareus* in 4 to 10 fathoms (Verrill); Buzzards Bay, 8 fathoms.

**Melanella (Eulima) conoidea** (Kurtz and Stimpson).

*Eulima conoidea* Kurtz and Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 115. "NORTH AND SOUTH CAROLINA."

MASS.— Vineyard Sound and Buzzards Bay (Sumner); Woods Hole (Winkley).

**Melanella (Eulima) stenostoma** (Jeffreys).

*Eulima stenostoma* Jeffreys, Ann. Mag. Nat. Hist., 1858, ser. 3, vol. 2, p. 128, pl. 5, fig. 7. "ZETLAND" [= SHETLAND].

MASS.— Woods Hole (Winkley).

**\*Melanella (Eulima) sarsi** (Bush).

*Eulima intermedia* Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, p. 392 (*non* Cantraine, 1835). [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 535, pl. 58, fig. 20.

*Eulima sarsi* Bush, Amer. Journ. Sci., 1909, ser. 4, vol. 27, p. 479.

MASS.— South of Marthas Vineyard, 85 to 155 fathoms.

**Melanella (Eulima) perversa** (Bush).

*Eulima distorta* Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, p. 392 (*non* Deshayes, *non* Sars). [SOUTH OF MARTHAS VINEYARD.]

*Eulima perversa* Bush, Amer. Journ. Sci., 1909, ser. 4, vol. 27, p. 479.

MASS.— South of Marthas Vineyard, 115 fathoms.

**Styliifer stimpsonii** Verrill.

Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, pp. 210, 283.  
 "OFF \*\*\* NEW JERSEY, ON A BANK IN 32 FATHOMS." Verrill,  
 Trans. Conn. Acad., 1882, vol. 5, p. 535, fig. 2.

Lives among the spines of *Strongylocentrotus dröbachiensis*.

MASS.—Off Gay Head (Sumner); Georges Bank, 60 fathoms.  
 R. I.—Off Block Island, 13 to 27 fathoms.

## PYRAMIDELLIDAE.

**Pyramidella (Syrnola) smithii** (Verrill).

*Turbanilla smithii* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3,  
 p. 380. [SOUTH OF MARTHAS VINEYARD.]

*Eulimella smithii* Verrill, Trans. Conn. Acad., 1882, vol. 5, p.  
 538, pl. 58, fig. 18.

*Pyramidella (Syrnola) smithi* Bartsch, Proc. Boston Soc. Nat.  
 Hist., 1909, vol. 34, p. 71, pl. 11, figs. 11, 15.

South of Marthas Vineyard in 85 to 146 fathoms.

**Pyramidella (Syrnola?) producta** (C. B. Adams).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 72, pl. 11,  
 fig. 3.

*Jaminia producta* C. B. Adams, Boston Journ. Nat. Hist., 1840,  
 vol. 3, p. 322, pl. 3, fig. 8. "FAIRHAVEN, [MASS.]."

*Odostomia producta* Gould, Inv. Mass., 1870, p. 325, fig. 593.

ME.

MASS.—Massachusetts Bay; Woods Hole; Fairhaven; Chat-  
 ham; Duxbury.

R. I.

CONN.—New Haven; Stonington; Stratford; Branford River.

**Pyramidella (Syrnola?) fusca** (C. B. Adams).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 73, pl. 11,  
 fig. 4.

*Pyramis fusca* C. B. Adams, Boston Journ. Nat. Hist., 1839, vol. 2, p. 282, pl. 4, fig. 9. "NEW BEDFORD, [MASS.]."

*Odostomia fusca* Gould, Inv. Mass., 1870, p. 325, fig. 594.

ME.—Damariscotta.

MASS.—Massachusetts Bay; Fairhaven; New Bedford; Woods Hole; Naushon Id.

R. I.—Tiverton; Watch Hill.

CONN.—Stonington; New Haven; Stratford; Branford River.

\***Pyramidella (Syrnola?) winklei** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 74, pl. 11, fig. 1. "BRANFORD RIVER, CONN."

MASS.—Chatham.

CONN.—Branford River (H. W. Winkley).

**Turbanilla (Ptycheulimella?) polita** (Verrill).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 75.

*Aclis polita* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, pp. 210, 282, pl. 6, fig. 5. "EASTPORT HARBOR, [ME.]."

*Eulimella polita* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 538, fig. 4.

*Eulimella ventricosa* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 380 (in part; *non* Forbes).

ME.—Eastport, 20 fathoms; Isle au Haute.

**Turbanilla stricta** Verrill.

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 659. "LONG ISLAND SOUND, OFF NEW HAVEN, CONNECTICUT." Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 76, pl. 11, figs. 6, 7.

MASS.—Woods Hole; Naushon Id.; Buzzards Bay.

CONN.—Off New Haven, 3 to 8 fathoms.

\***Turbanilla nivea** (Stimpson).

*Chemnitzia nivea* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 114. "OFF GRAND MANAN."

*Turbonilla (Turbonilla) nivea* Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 77, pl. 11, figs. 9, 10.

ME.—Frenchman's Bay; off Grand Manan, 40 fathoms.

MASS.—Woods Hole; off Marthas Vineyard, 100 fathoms.

CONN.—New Haven (Perkins).

**Turbonilla (Chemnitzia) aequalis** (Say).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 78.

*Turritella aequalis* Say, Journ. Acad. Nat. Sci. Phila., 1827, ser. 1, vol. 5, p. 208. [UNITED STATES.]

MASS.—Vineyard Sound, 6 to 8 fathoms.

**Turbonilla (Pyrgiscus) verrilli** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 82, pl. 12, figs. 21, 26. "MARTHA'S VINEYARD, MASS."

MASS.—Marthas Vineyard; Woods Hole.

**\*Turbonilla (Pyrgiscus) vineae** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 83, pl. 12, figs. 22, 36. "WOOD'S HOLL, MASS., \*\*\* BRANFORD, CONN."

MASS.—Woods Hole.

CONN.—Branford (H. W. Winkley).

**Turbonilla (Pyrgiscus) elegantula** Verrill.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 84, pl. 12, figs. 30, 31.

*Turbonilla elegans* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 282, pl. 6, fig. 4 (*non* Wood, 1842). "VINEYARD SOUND."

*Turbonilla elegantula* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 538.

MASS.—Vineyard Sound, 2 to 10 fathoms; Woods Hole ("Eel Pond").

R. I.—Narragansett Bay.

CONN.—Off New Haven, 2 to 6 fathoms; off Old Tower, 9 fathoms.

**Turbonilla (Pyrgiscus) elegantula branfordensis** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 85, pl. 12, fig. 27. "BRANFORD, CONN."

MASS.—Swampscott; Woods Hole.

CONN.—Branford.

**\*Turbonilla (Pyrgiscus) areolata** Verrill.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 86, pl. 12, figs. 19, 24.

*Turbonilla areolata* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 658. "NEAR NEW HAVEN [CONN.]".

MASS.—Vineyard Sound, 2 to 8 fathoms; Woods Hole.

R. I.—Block Island.

CONN.—Long Island Sound, near New Haven; Branford.

**\*Turbonilla (Pyrgiscus) interrupta** (Totten).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 87, pl. 12, figs. 18, 23.

*Turritella interrupta* Totten, Amer. Journ. Sci., 1835, ser. 1, vol. 28, p. 352, fig. 7. "NEWPORT HARBOR, (R. I.)."

*Turbonilla interrupta* Gould, Inv. Mass., 1870, p. 331 (not fig. 601).

*Turbonilla pseudointerrupta* Bush, Amer. Journ. Sci., 1909, ser. 4, vol. 27, p. 481, fig. 9.

ME.—?Portland Harbor, dead shell (Morse).

MASS.—Woods Hole; Vineyard Sound and Buzzards Bay, 3 to 10 fathoms.

R. I.—Narragansett Bay; Newport.

CONN.—Off Thimble Island and New Haven, 3 to 5 fathoms; Stonington.

**Turbonilla (Pyrgiscus) migelsi Bartsch.**

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 88, pl. 14, figs. 52, 54.

*Turbonilla costulata* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 658 (*non* Risso, 1826). "NEAR NEW HAVEN, CONN."

MASS.— Vineyard Sound, 1 to 5 fathoms; Woods Hole.

CONN.— Long Island Sound, near New Haven.

**Turbonilla (Pyrgiscus) buteonis Bartsch.**

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 89, pl. 12, figs. 17, 28, 34. "WOOD'S HOLL, MASS."

MASS.— Massachusetts Bay; Woods Hole; Marthas Vineyard.

**\*Turbonilla (Pyrgiscus) winklei Bartsch.**

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 90, pl. 12, figs. 35, 37. "WOOD'S HOLL, MASS."

MASS.— Woods Hole; Duxbury; Salem.

CONN.— Branford; off Penfield Reef, Long Island Sound, 5 to 10 fathoms.

**Turbonilla (Pyrgiscus) winklei senilis Bartsch.**

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 92, pl. 12, fig. 41. "BRANFORD, CONN."

MASS.— Woods Hole.

CONN.— Branford.

**Turbonilla (Pyrgiscus) sumneri Bartsch.**

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 92, pl. 14, figs. 53, 55. "WOOD'S HOLL, MASS."

MASS.— Woods Hole.

**Turbonilla (Pyrgiscus) rathbuni** Verrill and Smith.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 94, pl. 12, figs. 33, 39.

*Turbonilla rathbuni* Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, p. 398. [OFF MARTHAS VINEYARD, 192 FATHOMS.]

MASS.— Woods Hole; south of Marthas Vineyard, 64 to 321 fathoms.

R. I.— Newport.

**Turbonilla (Pyrgiscus) cascoensis** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 95, pl. 12, figs. 29, 40. "CASCO BAY, ME."

ME.— Casco Bay.

**\*Odostomia (Chrysallida) seminuda** (C. B. Adams).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 97, pl. 13, figs. 45, 48.

*Jaminia seminuda* C. B. Adams, Boston Journ. Nat. Hist., 1839, vol. 2, p. 280, pl. 4, fig. 13 (not fig. 8). [DARTMOUTH HARBOR, MASS.]

MASS.— Massachusetts Bay; Vineyard Sound and Buzzards Bay, 2 to 10 fathoms; Woods Hole.

R. I.— Off Newport, 12 fathoms; Sakonnet River, 3 to 11 fathoms.

CONN.— Near New Haven; Branford; Stratford.

**Odostomia (Chrysallida) bushiana** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 99, pl. 13, fig. 44. "NARRAGANSETT BAY."

MASS.— Vineyard Sound.

R. I.— Narragansett Bay, station 816, 10 fathoms.

**Odostomia (Evalea) bartschi** (Winkley).

Winkley, Nautilus, 1912, vol. 26, p. 54.

*Pyramidella (Sulcorinella) bartschi* Winkley, Nautilus, 1909, vol. 23, p. 39, fig. "Woods HOLL, MASS."

MASS.— Woods Hole; Chatham; Duxbury; North Falmouth.

**\*Odostomia (Evalina) winklei** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 100, pl. 13, fig. 47. "BRANFORD, CONN."

ME.— Quahog Bay (Winkley).

MASS.— Rowley; Danvers; Duxbury.

CONN.— Branford.

**\*Odostomia (Evalina) katherinae** Winkley.

Winkley, Nautilus, 1909, vol. 23, p. 88. "DANVERS RIVER, [MASS.]."

MASS.— Danvers.

**Odostomia (Iolaea) hendersoni** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 101, pl. 13, fig. 43. "Wood's HOLL, MASS."

MASS.— Woods Hole.

**Odostomia (Menestho) impressa** (Say).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 103, pl. 13, fig. 51.

*Turritella impressa* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 244. "MARYLAND."

MASS.— Massachusetts Bay (Stimpson); New Bedford (Stimpson).

CONN.— Near New Haven.

**Odostomia (Menestho) sulcosa** (Mighels).

*Phasianella sulcosa* Mighels, Boston Journ. Nat. Hist., 1843, vol. 4, p. 348, pl. 16, fig. 4. "CASCO BAY."

*Rissoella sulcosa* Gould, Inv. Mass., 1870, p. 297, fig. 565 (fig. 570?).

*Odostomia (Menestho) sulcata* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 380.

*Menestho sulcata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 539, pl. 58, fig. 17 (*non* A. Adams, 1860).

*Odostomia (Menestho) morseana* Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 104.

MASS.— Off Marthas Vineyard, 115 and 365 fathoms.

**\*Odostomia (Menestho) trifida** (Totten).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 104, pl. 13, fig. 46.

*Acteon trifidus* Totten, Amer. Journ. Sci., 1834, ser. 1, vol. 26, p. 368, figs. 4a, 4b. "RHODE ISLAND."

ME.— Newcastle; Sheepscott River.

MASS.— Lynn; Massachusetts Bay; Woods Hole; New Bedford; Weepecket Id.

R. I.— Newport; Kettle Point, Providence River; Oakland Beach.

CONN.— New Haven; Long Beach; Branford.

**\*Odostomia (Menestho) bisuturalis** (Say).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 106, pl. 14, fig. 59.

*Turritella bisuturalis* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 244. "BOSTON HARBOUR, [MASS.]".

ME.— Sheepscott River; Newcastle; Wiscasset; Biddeford Pool.

MASS.— Chelsea; Cohasset; Provincetown; Woods Hole; Naushon Id; Vineyard Sound.

R. I.—Oakland Beach.

CONN.—Branford; New Haven (Savin Rock).

**Odostomia (Menestho) bisuturalis ovilensis** Bartsch.

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 107, pl. 14, fig. 57. "SHEEPSCOTT RIVER, MAINE."

ME.—Sheepscott River; Wiscasset.

MASS.—Duxbury.

**Odostomia modesta** (Stimpson).

*Chemnitzia modesta* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 16. "ST. GEORGES BANK."

*Odostomia (Odostomia) modesta* Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 108, pl. 13, fig. 50.

ME.—Frenchman's Bay, 6 to 8 fathoms (Blaney). )

MASS.—Woods Hole; south of Marthas Vineyard, 115 fathoms; Duxbury.

**Odostomia gibbosa** Bush.

Bush, Amer. Journ. Sci., 1909, ser. 4, vol. 27, p. 482.

*Odostomia (Odostomia) modesta* Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 108, pl. 13, fig. 50 (*non* Stimpson). "WOOD'S HOLL, MASS."

ME.—Quahog Bay (Winkley).

MASS.—Woods Hole; Duxbury; Provincetown.

**Odostomia dealbata** (Stimpson).

Gould, Inv. Mass., 1870, p. 327, fig. 595.

*Chemnitzia dealbata* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 114. "BOSTON HARBOR [, MASS.]".

*Odostomia (Odostomia) dealbata* Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 108.

MASS.—Boston Harbor, 3 fathoms; Duxbury.

CONN.—Near New Haven (Perkins).

\***Cremula eburnea** (Stimpson).

Iredale, Proc. Mal. Soc. London, 1915, vol. 11, p. 336.

*Rissoa eburnea* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 14. "OFF CAPE ANN, [MASS.]." Stimpson, Shells of New England, 1851, p. 34, pl. 1, fig. 1.

*Rissoella? eburnea* Gould, Inv. Mass., 1870, p. 297 (not fig. 564).

*Odostomia (Liostomia) eburnea* Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 109.

ME.—Caseo Bay; Frenchman's Bay, 6 to 8 fathoms (Blaney); off Grand Manan, 25 fathoms (Stimpson).

MASS.—Off Cape Ann, 30 fathoms (Stimpson); Duxbury.

\***Couthouyella striatula** (Couthouy).

Bartsch, Proc. Boston Soc. Nat. Hist., 1909, vol. 34, p. 110, pl. 11, figs. 13, 16; pl. 14, figs. 56, 58.

*Pyramis striatulus* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 101, pl. 1, fig. 6. "VICINITY OF CAPE ANN [, MASS.]."

*Menestho albula* Gould, Inv. Mass., 1870, p. 333, fig. 604 (*non* Fabricius, 1780).

ME.—Casco Bay; Eastport; Frenchman's Bay, 20 to 30 fathoms; Cashe's Ledge, 46 fathoms.

N. H.—Isles of Shoals, 20 fathoms.

MASS.—Annisquam Harbor; Gloucester Harbor, 10 fathoms; off Baker's Id., 20 fathoms; off Cape Cod, 15 to 46 fathoms; Buzzards Bay.

CONN.—Bridgeport, from the stomachs of ducks (Linsley).

JANTHINIDAE.

**Janthina janthina** (Linné).

Hedley, Bull. New Zealand Colonial Mus., 1906, no. 1, p. 49.

*Helix janthina* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1246.  
"EUROPA, ASIA, AFRICA."

*Ianthina fragilis* Tryon, Manual Conch., 1887, ser. 1, vol. 9, p. 36, pl. 9, figs. 94, 95; pl. 10, figs. 6–10.

MASS.—After a severe gale, in the autumn of 1839, great numbers of them were collected on the shores of Nantucket (Gould).

#### EPITONIIDAE.

\***Epitonium novangliae** (Couthouy).

*Scalaria novanglii* (*sic* in text, but *novangliae* on plate) Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 96, pl. 3, fig. 5. “MASSACHUSETTS BAY.” Gould, Inv. Mass., 1870, p. 311.

MASS.—Cape Ann, from the stomach of a fish.

\***Epitonium lineatum** (Say).

*Scalaria lineata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 242. “SOUTHERN COAST [OF UNITED STATES].” Gould, Inv. Mass., 1870, p. 312 (not fig. 580).

MASS.—Vineyard Sound; Buzzards Bay; New Bedford.

R. I.—Bristol.

CONN.—New Haven.

**Epitonium multistriatum** (Say).

*Scalaria multistriata* Say, Journ. Acad. Nat. Sci. Phila., 1826, ser. 1, vol. 5, p. 208. “SOUTHERN COAST [OF UNITED STATES].” Gould, Inv. Mass., 1870, p. 313, fig. 581.

MASS.—Vineyard Sound; Buzzards Bay; Dartmouth Harbor.

R. I.—Off Watch Hill; Block Island.

CONN.—New Haven.

**Epitonium humphreysii** (Kiener).

*Scalaria humphreysii* Kiener, Iconogr. Coq. Viv. (Gen. Scalaire), 1845, p. 15, pl. 5, fig. 16. “ATLANTIQUE AU SUD DE LA CAROLINE.” Gould, Inv. Mass., 1870, fig. 580, as *S. lineata*, on p. 312.

*Scala sayana* Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 309; Bull. U. S. Nat. Mus., 1889, no. 37, p. 122, pl. 50, fig. 10.

MASS.

CONN.—Stonington.

**Epitonium angulatum** (Say).

*Scalaria clathrus* var. *angulata* Say, Amer. Conch., 1831, no. 3, "Scalaria," pl. 27, two upper figs. [NORTH AMERICA.] Verrill, Rept. Inv. Vineyard Sound, 1873, p. 660.

*Scala angulata* Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 122.

CONN.—Stonington (Linsley).

**Epitonium dallianum** (Verrill and Smith).

*Scalaria dalliana* Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 391, 395. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 527, pl. 57, fig. 33.

MASS.—South of Marthas Vineyard, 85 to 192 fathoms.

**Epitonium pourtalesii** (Verrill and Smith).

*Scalaria pourtalesii* Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 391, 395. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 527, pl. 57, fig. 32.

MASS.—South of Marthas Vineyard, 85 to 146 fathoms.

**Epitonium leeanum** (Verrill).

*Scalaria (Cirsotrema) leeanum* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 526, pl. 57, fig. 34. "OFF MARTHA'S VINEYARD."

MASS.—South of Marthas Vineyard, 146 fathoms.

**\*Epitonium (Arctoscala) greenlandicum** (Perry).

*Scalaria greenlandica* Perry, Conch. or Nat. Hist. Shells, 1811, pl. 28, fig. 8 and explanation. "GREENLAND."

*Scalaria subulata* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 93, pl. 3, fig. 4.

*Boreoscalia groenlandica* Sumner, Osburn and Cole, Bull. U. S. Bureau Fisheries, 1913, vol. 31, pt. 2, p. 714.

ME.—Casco Bay; Frenchman's Bay, 10 to 35 fathoms; Eastport, 10 fathoms.

N. H.—Isles of Shoals, 20 fathoms.

MASS.—Phillips Beach; off Nahant, 17 fathoms; Nantucket Shoals, 20 fathoms.

R. I.—Block Island Sound, 17 to 24 fathoms.

**Epitonium (Opalia) andrewsii** (Verrill).

*Scalaria (Opalia) andrewsii* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 526, pl. 57, fig. 35. "OFF NEWPORT, R. I."

R. I.—Off Newport, 100 fathoms (Verrill).

**Epitonium (Acirsa) costulatum** (Mighels and Adams).

*Turritella costulata* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 50, pl. 4, fig. 20. "CASCO BAY."

*Acirsa borealis* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 281.

*Scala (Acirsa) costulata* Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 307.

ME.—Casco Bay, from the stomach of a haddock; Eastport, 10 to 40 fathoms.

**Epitonium (Acirsa) gracilis** (Verrill).

*Acirsa gracilis* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 377. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 528, pl. 57, fig. 31.

MASS.—South of Marthas Vineyard, 100 to 365 fathoms.

**Aclis striata** Verrill.

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 377. "OFF NEWPORT, R. I." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 528, pl. 58, fig. 13.

ME.—Near Eastport.

MASS.—South of Newport, 100 fathoms.

**Aclis tenuis** Verrill.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 528, pl. 58, fig. 19. "OFF MARTHA'S VINEYARD."

*Eulimella ventricosa* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 380 (in part; *non* Forbes).

MASS.—South of Marthas Vineyard, 100 fathoms.

## NATICIDAE.

**\*Natica (Cryptonatica) clausa** Broderip and Sowerby.

*Natica clausa* Broderip and Sowerby, Zool. Journ., 1829, vol. 4, p. 372. No locality. Gould, Inv. Mass., 1870, p. 342, fig. 612.

ME.—Casco Bay; Frenchman's Bay, 25 to 30 fathoms; Eastport.

MASS.—Massachusetts Bay; Duxbury.

**\*Natica (Cryptonatica) pusilla** Say.

*Natica pusilla* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 257. "SOUTHERN COAST [OF UNITED STATES]." Gould, Inv. Mass., 1870, p. 344, fig. 613.

ME.—Casco Bay.

MASS.—Vineyard Sound and Buzzards Bay, 2 to 10 fathoms.

**\*Polinices (Neverita) duplicata** (Say).

*Natica duplicata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 247. "COAST OF THE UNITED STATES."

*Neverita duplicata* Gould, Inv. Mass., 1870, p. 345, fig. 615.

MASS.— Revere; Provincetown; Vineyard Sound; Nantucket.

R. I.— Nayatt; Buttonwoods.

CONN.— Stratford.

**\*Polinices (Euspira) heros (Say).**

*Natica heros* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 248. "NEW JERSEY."

*Lunatia heros* Gould, Inv. Mass., 1870, p. 338, figs. 608, 609.

ME. to CONN.— Common from low water to 40 fathoms.

**\*Polinices (Euspira) triseriata (Say).**

*Natica triseriata* Say, Journ. Acad. Nat. Sci. Phila., 1826, ser. 1, vol. 5, p. 209. "BOSTON HARBOUR."

*Lunatia triseriata* Gould, Inv. Mass., 1870, p. 340, fig. 610.

ME. to CONN.— Common from low water to 30 fathoms.

**\*Polinices (Euspira) immaculata (Totten).**

*Natica immaculata* Totten, Amer. Journ. Sci., 1835, ser. 1, vol. 28, p. 351, fig. 6. "NEWPORT HARBOR, (R. I.)."

*Mamma? immaculata* Gould, Inv. Mass., 1870, p. 344, fig. 614.

ME.— Casco Bay; Frenchman's Bay, 25 to 50 fathoms; Eastport, 20 fathoms.

MASS.— Off Marthas Vineyard, 20 fathoms; Duxbury; Georges Bank.

R. I.— East of Block Island, 29 fathoms; off Watch Hill.

CONN.— Stonington, from cod.

**\*Polinices (Euspira) groenlandica (Möller).**

*Natica groenlandica* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 80. [GREENLAND.]

*Lunatia groenlandica* Gould, Inv. Mass., 1870, p. 341, fig. 611.

ME.— Frenchman's Bay, 35 fathoms.

MASS.— Massachusetts Bay, from fishes.

**Polinices (Euspira) nana** (Möller).

*Natica nana* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 80.  
[GREENLAND.]

*Lunatia nana* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 516,  
pl. 42, fig. 9.

ME.—Casco Bay; Eastport.

MASS.—Off Cape Ann, 115 fathoms; Stellwagen Bank, 26 to 32  
fathoms.

R. I.—South of Block Island, 22 to 29 fathoms.

**Polinices (Euspira) levicula** (Verrill).

*Lunatia levicula* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3,  
p. 371. "EASTPORT, ME."

ME.—Casco Bay; Eastport.

MASS.—Off Marthas Vineyard, 26 fathoms.

R. I.—Off Block Island, 26 to 100 fathoms.

**\*Amauropsis islandica** (Gmelin).

*Nerita islandica* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3675.  
"OCEANO SEPTENTRIONALI."

*Amauropsis helicoides* Gould, Inv. Mass., 1870, p. 348, fig. 617.

ME.—Off Otter Creek, Mt. Desert, 27 fathoms (Henderson).

MASS.—One fine specimen from a fish caught in Massachusetts  
Bay (Gould); Georges Bank.

**\*Acrybia smithii** (Brown).

*Bulbus smithii* Brown, Mem. Wern. Nat. Hist. Soc., 1839, vol. 8,  
p. 104, pl. 1, fig. 18. [MARINE PLEISTOCENE, ARDINCAPLE, SCOT-  
LAND.]

*Natica flava* Gould, Amer. Journ. Sci., 1840, ser. 1, vol. 38, p. 196.

*Bulbus flavus* Gould, Inv. Mass., 1870, p. 347, fig. 616.

*Ampullina smithii* G. O. Sars, Moll. Reg. Arct. Norv., 1878,  
p. 155, pl. 12, fig. 2; pl. 21, fig. 18.

ME.—Eastport; “Grand Manan, 50 fathoms, off the Swallow Tail” (Stimpson).

MASS.—Georges Bank.

CONN.—Stonington, from haddock (Linsley).

#### LAMELLARIIDAE.

##### **Lamellaria pellucida** Verrill.

Verrill, Amer. Journ. Sci., 1880, ser. 5, vol. 20, pp. 391, 395. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 518, pl. 58, figs. 4, 5, 5a.

MASS.—South of Marthas Vineyard, 86 to 155 fathoms.

##### \***Velutina laevigata** (Linné).

*Helix laevigata* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1250. No locality.

*Velutina haliotoidea* Gould, Inv. Mass., 1870, p. 334, fig. 605.

ME.—Frenchman’s Bay, 10 to 50 fathoms; Eastport, 20 fathoms.

MASS.—Marblehead; Magnolia; Duxbury.

##### \***Velutina undata** Brown.

Brown, Mem. Wern. Nat. Hist. Soc., 1839, vol. 8, p. 102, pl. 1, fig. 15. [PLEISTOCENE, DALMUIR, SCOTLAND.]

*Velutina zonata* Gould, Inv. Mass., 1870, p. 335, fig. 606.

ME.—Frenchman’s Bay, 25 to 30 fathoms; Eastport, 20 fathoms; Casco Bay.

MASS.—From fish caught off Cape Ann; Chelsea Beach (Gould).

##### \***Marsenina glabra** (Couthouy).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 517, pl. 42, figs. 1, 1a, 4.

*Oxinoe? glabra* Couthouy, Boston Journ. Nat. Hist., 1832, vol. 2, p. 90, pl. 3, fig. 16. "MASS[ACHUSETTS] BAY."

*Lamellaria perspicua* Gould, Inv. Mass., 1870, p. 337, fig. 607.

ME.—Eastport.

MASS.—Off Cape Cod, 34 fathoms; Georges Bank.

**Marsenina prodita** (Lovén).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 518, pl. 42, figs. 2, 2a.

*Lamellaria prodita* Lovén, Öfvers. Kongl. Vet.-Akad. Förh., Stockholm, 1846, vol. 3, p. 147. "FINM[ARK]."

ME.—Eastport.

**Marsenina ampla** Verrill.

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 374. "EASTPORT, ME." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 518, pl. 42, figs. 3, 3a.

ME.—Eastport.

CALYPTRAEIDAE.

\***Crucibulum striatum** (Say).

Gould, Inv. Mass., 1870, p. 275, fig. 536.

*Calyptraea striata* Say, Journ. Acad. Nat. Sci. Phila., 1826, ser. 1, vol. 5, p. 216. "NEW JERSEY, ABOUT THREE MILES NORTH OF LONG BRANCH."

ME.—Casco Bay; Frenchman's Bay; Eastport; Isle au Haute.

MASS.—Vineyard Sound and Buzzards Bay, 3 to 12 fathoms.

CONN.—Off New London.

\***Crepidula fornicata** (Linné).

Gould, Inv. Mass., 1870, p. 271, fig. 532.

*Patella fornicata* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1257.

"AD ILVAM INSULAM, INQUE M. MEDITERRANEO."

Common from Casco Bay, Me., to Connecticut; Frenchman's Bay, Me., rare.

\**Crepidula glauca* Say.

Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 226.  
"COAST OF THE UNITED STATES." Gould, Inv. Mass., 1870,  
p. 274, fig. 535.

ME.—Quahog Bay.

MASS.—Chelsea Beach; Vineyard Sound and Buzzards Bay.

CONN.—New Haven; Stratford.

\**Crepidula convexa* Say.

*Crepidula convexa* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1,  
vol. 2, p. 227. "UNITED STATES."

ME. to CONN.—A form due to growing on the shells of *Alectriion obsoleta* and other very convex surfaces.

\**Crepidula plana* Say.

Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 226.  
[NEW JERSEY TO FLORIDA.] Gould, Inv. Mass., 1870, p. 272,  
fig. 533.

ME.—Casco Bay; Old Orchard; Isle au Haute.

MASS.—Revere; Provincetown; Vineyard Sound and Buzzards Bay, 1 to 12 fathoms.

R. I.—Narragansett Bay; Watch Hill.

CONN.—Stonington; New Haven; Stratford.

### CAPULIDAE.

*Capulus ungaricus* (Linné).

*Patella ungarica* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1259.  
"M. MEDITERRANEO."

*Capulus hungaricus* Tryon, Manual Conch., 1886, ser. 1, vol. 8,

p. 131, pl. 39, figs. 72-74. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 519.

MASS.—Off Marthas Vineyard, 69 and 458 fathoms.

#### TRUNCATELLIDAE.

##### **Truncatella truncata** (Montagu).

*Turbo truncatus* Montagu, Test. Brit., 1803, pt. 2, p. 300, pl. 10, fig. 7. "SOUTHAMPTON, AT PLYMOUTH, AND OTHER PARTS OF THE DEVONSHIRE COAST."

*Truncatella truncatula* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 376; Trans. Conn. Acad., 1882, vol. 5, p. 525, pl. 58, figs. 8, 8a, 8b.

R. I.—Among the docks at Newport, July, 1880. "It occurred among decaying sea-weeds thrown up at high-water mark" (Verrill).

#### ASSIMINEIDAE.

##### **Assiminea modesta** (H. C. Lea).

*Cingula modesta* H. C. Lea, Proc. Boston Soc. Nat. Hist., 1845, vol. 1, p. 205. "BROOKLYN, LONG ISLAND."

*Assiminea grayana* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 525, pl. 58, fig. 7 (*non* Leach).

*Assiminia modesta* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 253.

R. I.—Found in July, 1880, living among decaying sea-weed at high-water mark, between the docks at Newport (Verrill).

#### VIVIPARIDAE.

##### \***Campeloma decisum** (Say).

*Limnaea decisa* Say, Nich. Encycl., 1817, pl. 3, fig. 6.

*Paludina decisa* Haldeman, Monogr. Limniades, 1840, pt. 1, p. 4, pl. 1.

*Melanthro decisa* Gould, Inv. Mass., 1870, p. 289, figs. 552-554.

ME.—Saco River; Aroostook and Fish Rivers. Common in most of the streams and lakes, from northern MAINE to CONNECTICUT.

\***Campeloma rufum** (Haldeman).

Baker, Bull. Chicago Acad. Sci., 1902, no. 3, pt. 2, p. 358, pl. 36, figs. 4, 6.

*Paludina rufa* Haldeman, Monogr. Limniades, 1844, pt. 3, p. 3 of wrapper, pl. 3, fig. 1.

ME.—South Pond, Buckfield (J. A. Allen).

Vt.—Lake Champlain.

MASS.—Pontoosuc Lake.

CONN.—Housatonic River.

\***Viviparus malleatus** (Reeve).

*Paludina malleata* Reeve, Conch. Icon., 1863, vol. 14, *Paludina*, pl. 5, figs. 25a, 25b. "JAPAN."

MASS.—Muddy River, between Boston and Brookline—introduced (see *Nautilus*, 1915, vol. 29, p. 35).

VALVATIDAE:

\***Valvata tricarinata** (Say).

Gould, Inv. Mass., 1870, p. 286, figs. 549, 550. Walker, *Nutilus*, 1902, vol. 15, p. 122, fig. 1.

*Cyclostoma tricarinata* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 13. "RIVER DELAWARE."

ME. to CONN.—Common in most of the lakes and ponds.

\***Valvata tricarinata confusa** Walker.

Walker, *Nutilus*, 1902, vol. 15, p. 124, fig. 2. No locality.

Vt.—Shelburne Bay, Lake Champlain.

**\**Valvata tricarinata basalis* Vanatta.**

Vanatta, Nautilus, 1915, vol. 28, p. 105, figs. 3, 4. "HUDSON RIVER, NEW YORK."

Vt.— Shelburne Bay, Lake Champlain.

**\**Valvata tricarinata unicarinata* DeKay.**

*Valvata unicarinata* DeKay, Nat. Hist. N. Y., Moll., 1843, p. 118, pl. 6, fig. 129. "LAKE CHAMPLAIN \* \* ERIE CANAL."

Vt.— Shelburne Bay, Lake Champlain.

**\**Valvata tricarinata simplex* Gould.**

Gould, Inv. Mass., 1841, p. 226. "VERMONT."

Vt.— Shelburne Bay, Lake Champlain.

***Valvata sincera* Say.**

Say, Narrative Long's Exped., 1824, vol. 2, p. 264, pl. 15, fig. 11. "NORTH-WEST TERRITORY."

ME.— Dredged in the Fish River Lakes (Nylander).

Vt.

**\**Valvata sincera nylanderi* Dall.**

*Valvata (sincera var.?) nylanderi* Dall, Harriman Alaska Exped., 1905, vol. 13, p. 122. "AROOSTOOK COUNTY, MAINE."

ME.— Portage Lake, Fish River.

***Valvata lewisi* Currier.**

Currier, Misc. Pub. Kent Sci. Inst., 1868, no. 1, p. 9. Dall, Harriman Alaska Exped., 1905, vol. 13, p. 123, fig. 44.

*Valvata striata* Lewis, Proc. Acad. Nat. Sci. Phila., 1856, p. 260 (non Philippi, 1836). [OTSEGO Co., N. Y.]

Vt.

## AMNICOLIDAE.

**\*Amnicola limosa** (Say).

Gould, Inv. Mass., 1870, p. 293, fig. 559.

*Paludina limosa* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 125. "RIVERS DELAWARE AND SCHUYLKILL."

*Amnicola porata* Gould, Inv. Mass., 1841, p. 229, fig. 157.

ME. to CONN.—Common in most of the ponds and brooks.

**Amnicola pallida** Haldeman.

Haldeman, Monogr. Limniades, 1841, pt. 4, cover pp. 3, 4; 1845, pt. 8, p. 12, pl. 1, fig. 7. "MIDDLEBURY, VERMONT." Gould, Inv. Mass., 1870, p. 292, fig. 558.

ME.—Saco; South Jefferson.

VT.—Lake Champlain; Hartland.

CONN.—Hartford (Linsley); Housatonic River.

**\*Amnicola winklei** Pilsbry.

Pilsbry, Nautilus, 1912, vol. 26, p. 1, pl. 1, figs. 9, 10. "SACO, MAINE."

ME.—Saco. Recorded by Lermond as *A. schrokingeri* Ffd.

N. H.—Keene.

MASS.—Ipswich (Bryant).

**\*Lyogyrus pupoidea** (Gould).

Gill, Proc. Acad. Nat. Sci. Phila., 1863, p. 34.

*Valrata pupoidea* Gould, Amer. Journ. Sci., 1840, ser. 1, vol. 38, p. 196. "CAMBRIDGE, MASSACHUSETTS." Gould, Inv. Mass., 1841, p. 226, fig. 155.

ME.—Monmouth; Orono.

MASS.—Fresh Pond, Cambridge; Concord; Danvers; Duxbury; Wareham.

CONN.—Housatonic and Mystic Rivers.

**Lyogyrus brownii** (H. F. Carpenter).

*Amnicola brownii* H. F. Carpenter, Central Falls (R. I.) Weekly Visitor, 1872; Random Notes Nat. Hist., 1885, vol. 2, p. 63.  
"CUNLIFF'S POND, AT ELMVILLE, [R. I.]."

R. I.—Lakes in Roger Williams Park, and old Warwick Pond near Providence.

**\*Lyogyrus granum** (Say).

Pilsbry, Nautilus, 1898, vol. 12, p. 42.

*Paludina grana* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 378. "PENNSYLVANIA."

*Amnicola granum* Gould, Inv. Mass., 1870, p. 294, fig. 560.

MASS.—South Sudbury.

CONN.—New Haven (Linsley).

**\*Somatogyrus subglobosus** (Say).

Baker, Bull. Chicago Acad. Sci., 1902, no. 3, pt. 2, p. 340, fig. 123.

*Paludina subglobosa* Say, Journ. Acad. Nat. Sci. Phila., 1825, ser. 1, vol. 5, p. 125. "NORTH-WESTERN TERRITORY."

*Somatogyrus isogonus* Binney, Smithson. Misc. Coll., 1865, vol. 7, art. 3, p. 77, fig. 151.

Vt.—St. Albans Bay, Lake Champlain (Dr. H. F. Perkins).

**\*Bythinia tentaculata** (Linné).

Baker, Bull. Chicago Acad. Sci., 1902, no. 3, pt. 2, p. 328, fig. 34, figs. 116, 117.

*Helix tentaculata* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1249.  
"IN EUROPAE STAGNIS."

Vt.—Lake Champlain (Dr. H. F. Perkins).

**\*Paludestrina salsa** Pilsbry.

Pilsbry, Nautilus, 1905, vol. 19, p. 90, pl. 3, fig. 10, "COHASSET,  
MASS."

MASS.— Cohasset (Bryant); East Wareham; Danvers and Rowley (Winkley).

CONN.— Branford (Winkley).

\***Paludestrina minuta** (Totten).

*Turbo minutus* Totten, Amer. Journ. Sci., 1834, ser. 1, vol. 26, p. 369, fig. 6a, b. "MASS[ACHUSETTS], AND R[HODE] I[SLAND]."

*Rissoa minuta* Gould, Inv. Mass., 1870, p. 298, fig. 566.

*Littorinella minuta* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 653, pl. 24, fig. 140.

ME. to CONN.— Common, especially upon the salt marshes.

**Paludestrina laevis** (DeKay).

*Cingula laevis* DeKay, Nat. Hist. N. Y., Moll., 1843, p. 111, pl. 6, fig. 118. "STRATFORD, (CONN.)."

*Littorinella laevis* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 653.

?*Rissoa stimpsoni* Smith, Ann. Lyc. Nat. Hist. N. Y., 1870, vol. 9, p. 393.

CONN.— Stratford; Near New Haven.

\***Pomatiopsis lapidaria** (Say).

Gould, Inv. Mass., 1870, p. 295, figs. 561, 562.

*Cyclostoma lapidaria* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 13. No locality.

MASS.— Revere ? (Roper Coll.)

CONN.— Housatonic River; New Haven.

RISSOIDAE.

\***Cingula carinata** Mighels and Adams.

Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 49.

*Cingula semicostata* Mighels and Adams, Boston Journ. Nat.

Hist., 1842, vol. 4, p. 49, pl. 4, fig. 23 (*non* Montagu). "CASCO BAY."

*Rissoa pelagica* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 15.

*Rissoa carinata* Gould, Inv. Mass., 1870, p. 301, fig. 572.

ME.—Casco Bay; Frenchman's Bay, abundant in 15 fathoms (Blaney); Eastport.

\***Cingula arenaria** Mighels and Adams.

Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 49, pl. 4, fig. 24. "CASCO BAY."

*Rissoa exarata* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 15.

*Rissoa mighelsi* Gould, Inv. Mass., 1870, p. 301 (not fig. 570).

ME.—Casco Bay, 6 to 25 fathoms; Frenchman's Bay, 6 to 8 fathoms; Eastport.

MASS.—Boston Harbor, 3 fathoms.

R. I.—Watch Hill, 4 to 5 fathoms, among rocks and algae (Verrill).

CONN.—Stonington, from cod (Linsley).

\***Cingula areolata** (Stimpson).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 524, pl. 43, fig. 2.

*Turritella areolata* Stimpson, Shells of New England, 1851, p. 35.  
"MASS[ACHUSETTS] BAY."

ME.—Frenchman's Bay, 6 to 8 fathoms (Blaney); Mt. Desert, 10 to 15 fathoms (Verrill).

MASS.—Massachusetts Bay; off Marthas Vineyard, 130 fathoms.

\***Cingula castanea** (Möller).

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 174, pl. 10, figs. 1a, 1b.

*Rissoa castanea* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 82. [GREENLAND.]

ME.—Frenchman's Bay, 6 to 12 fathoms; Eastport; Penobscot Bay.

**Cingula latior** Mighels and Adams.

Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 48, pl. 4, fig. 22. "CASCO BAY."

*Rissoa latior* Gould, Inv. Mass., 1870, p. 299, fig. 567.

ME.—Casco Bay, from the stomach of a haddock.

**Cingula harpa** (Verrill).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 523, pl. 58, fig. 6.

*Rissoa (Cingula) harpa* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 374. "OFF MASSACHUSETTS BAY."

MASS.—Off Massachusetts Bay, 160 fathoms; off Marthas Vineyard, 312 to 487 fathoms.

\***Cingula multilineata** (Stimpson).

*Rissoa multilineata* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 14. "GT. MISERY ISLAND, AND ALSO NEAR NAHANT, [MASS.]." Gould, Inv. Mass., 1870, p. 300, fig. 569.

ME.—Frenchman's Bay, 5 fathoms (Blaney).

MASS.—Off Great Misery Id., 5 fathoms; near Nahant; Provincetown.

\***Onoba aculeus** (Gould).

*Cingula aculeus* Gould, Inv. Mass., 1841, p. 266, fig. 172. "EAST BOSTON."

*Rissoa aculeus* Gould, Inv. Mass., 1870, p. 299, fig. 568.

ME.—Casco Bay; Frenchman's Bay; Eastport.

MASS.— Massachusetts Bay; Vineyard Sound; Duxbury; Provincetown.

R. I.— Watch Hill.

CONN.— New Haven; Stratford.

#### LITIOPIDAE.

##### \***Litiopa bombix** Kiener.

Kiener, Ann. des Sci. Nat., 1833, vol. 30, p. 222, pl. 17, B, figs. 1-3. No locality. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 523.

*Litiopa melanostoma* Sumner, Osburn, and Cole, Bull. U. S. Bureau Fisheries, 1913, vol. 31, pt. 2, p. 720.

MASS.— Off Marthas Vineyard. Pelagic, found attached to floating gulfweed (*Sargassum* sp.).

#### HOMALOGYRIDAE.

##### \***Homalogyra atomus** (Philippi).

Jeffreys, Brit. Conch., 1867, vol. 4, p. 69, pl. 1, fig. 5.

*Truncatella atomus* Philippi, Arch. f. Naturg., 1841, vol. 7, pt. 1, p. 54, pl. 5, fig. 4. "IN SORRENT [ITALY]."

N. H.— Hampton Beach (Morse).

#### SKENEIDAE.

##### \***Skenea planorbis** (Fabricius).

Gould, Inv. Mass., 1870, p. 296, fig. 563.

*Turbo planorbis* Fabricius, Fauna Groenlandica, 1780, p. 394.  
[GREENLAND.]

ME.— Common, Casco Bay to Eastport.

MASS.— Cape Ann; Provincetown; Cohasset; Woods Hole.

R. I.— Watch Hill.

CONN.— Near New Haven.

**Adeorbis supranitidus orbignyi** Fischer.

Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 278.

*Adeorbis orbignyi* Fischer, Journ. de Conch., 1857, vol. 6, pp. 173, 286. "CUBA."

*Omalaxis? lirata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 529.

R. I.—Off Newport,  $8\frac{1}{4}$  fathoms.

**Adeorbis? olivaceus** (Verrill).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 150, pl. 44, fig. 5.

*Cithna* (?) *olivacea* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 185, pl. 29, fig. 5. "OFF MARTHA'S VINEYARD."

MASS.—Off Marthas Vineyard, 193 fathoms, and 1290 fathoms.

## SOLARIIDAE.

**Architectonica borealis** (Verrill and Smith).

*Solarium boreale* Verrill and Smith in Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 376. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 529, pl. 57, figs. 29, 30.

MASS.—South of Marthas Vineyard, 115 and 146 fathoms.

## FOSSARIDAE.

**Fossarus elegans** Verrill and Smith.

Verrill and Smith in Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 522, pl. 57, fig. 28. "OFF MARTHA'S VINEYARD."

MASS.—South of Marthas Vineyard, 100 fathoms.

## LITORINIDAE.

**\*Litorina littorea** (Linné).

*Turbo littoreus* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 761. "O. EUROPAEO."

*Littorina litorea* Gould, Inv. Mass., 1870, p. 308, fig. 577.

ME. to CONN.—This species, now common along the entire coast, first appeared on the coast of Maine in 1871.

\***Litorina obtusata palliata** (Say).

*Turbo palliatus* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 240. "NEW ENGLAND."

*Littorina palliata* Gould, Inv. Mass., 1870, p. 309, fig. 578.

*Littorina obtusata palliata* Dautzenberg and Fischer, Journ. de Conch., 1915, vol. 62, p. 107, pl. 2, fig. 4.

ME. to CONN.—Common on the rocks between tides.

\***Litorina rufa** (Donovan).

*Turbo rufa* Donovan, Brit. Shells, 1804, vol. 1, pl. 33, fig. 3 and explanation. "DEVONSHIRE, [ENGLAND]."

*Littorina rufa* Gould, Inv. Mass., 1870, p. 304, fig. 575.

ME. to CONN.—Common on the rocks of the ocean shore.

\***Litorina rufa tenebrosa** (Montagu).

*Turbo tenebrosus* Montagu, Test. Brit., 1803, p. 303; Suppl., 1808, pl. 20, fig. 4. "DEVONSHIRE \*\*\* KENT [ENGLAND]."

*Littorina tenebrosa* Gould, Inv. Mass., 1870, p. 306, fig. 576.

ME. to CONN.—Common about wharves, bridges and upon the salt marshes.

**Litorina irrorata** (Say).

*Turbo irroratus* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 239. [NEW JERSEY TO FLORIDA.]

*Littorina irrorata* Gould, Inv. Mass., 1870, p. 311, fig. 579.

MASS.—Vineyard Sound.

\***Lacuna vincula** (Montagu).

Gould, Inv. Mass., 1841, p. 262, fig. 168.

*Turbo vinctus* Montagu., Test. Brit., 1803, p. 307; Suppl., 1808, pl. 20, fig. 3. "SALCOMB BAY [ENGLAND]."

ME. to CONN.—Common among algae in 2 to 5 fathoms.

\***Lacuna vincta fusca** Gould.

Gould, Inv. Mass., 1841, p. 263, fig. 169. [MASSACHUSETTS.]

ME. to CONN.—Associated with the typical form.

\***Lacuna puteola** (Turton).

*Turbo puteolus* Turton, Conch. Dictionary, 1819, p. 193, figs. 90, 91. "DUBLIN BAY, AND ON THE ROCKS BETWEEN TEIGNMOUTH AND DAWLISH, IN DEVONSHIRE, ATTACHED TO FUCI."

*Lacuna puteolus* Forbes and Hanley, Hist. Brit. Moll., 1853, vol. 3, p. 58, pl. 72, figs. 7-9; pl. 74, fig. 9. Tryon, Manual Conch., 1887, ser. 1, vol. 9, p. 265, pl. 50, figs. 51, 52.

MASS.—Vineyard Sound; Buzzards Bay near the Elizabeth Islands; Nantucket.

\***Lacuna pallidula neritoidea** Gould.

*Lacuna neritoidea* Gould, Amer. Journ. Sci., 1840, vol. 38, p. 197. [CHELSEA BEACH, MASS.] Gould, Inv. Mass., 1870, p. 303, fig. 574.

ME.—Casco Bay; Cape Elizabeth; Eastport.

MASS.—Swampscott; Revere; Duxbury.

CONN.—Oyster River; Long Beach; Stratford (Linsley). These records are questioned by Prof. Verrill.

### TURRITELLIDAE.

\***Turritella erosa** Couthouy.

Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 103, pl. 3, fig. 1. "MASS[ACHUSETTS] BAY." Gould, Inv. Mass., 1870, p. 317, fig. 585.

ME.—Casco Bay; Frenchman's Bay, 7 fathoms; near Eastport, 50 fathoms.

MASS.—Ipswich Bay; Massachusetts Bay.

CONN.—From stomach of a cod off Stonington (Linsley).

\***Turritellopsis acicula** (Stimpson).

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 186, pl. 10, figs. 14a, 14b.

*Turritella acicula* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 15. "FROM FISHES CAUGHT OFF \* \* \* CAPE ANN, [MASS.]" Gould, Inv. Mass., 1870, p. 319, fig. 588.

ME.—Casco Bay; Frenchman's Bay, 5 to 10 fathoms; near Eastport, 40 fathoms.

MASS.—From fish caught off Cape Ann; Lynn and Marshfield; Duxbury.

VERMETIDAE.

\***Vermicularia spirata** (Philippi).

*Vermetus spiratus* Philippi, Arch. f. Naturg., 1836, vol. 2, pt. 1, p. 224, pl. 7, fig. 1. "AD HAVANAM, [CUBA]."

*Vermetus radicula* Stimpson, Shells of New England, 1851, p. 37. Gould, Inv. Mass., 1870, p. 316, fig. 584.

MASS.—Vineyard Sound and Buzzards Bay, 3 to 10 fathoms; New Bedford Harbor.

CONN.—New Haven (Linsley).

CAECIDAE.

\***Caecum pulchellum** Stimpson.

Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 112. "BUZZARD'S BAY [, MASS.]" Gould, Inv. Mass., 1870, p. 315, fig. 583.

N. H.—Hampton Beach (Morse).

MASS.—Vineyard Sound, 1 to 4 fathoms; New Bedford Harbor.

**\*Caecum cooperi** S. Smith.

S. Smith, Ann. Lyc. Nat. Hist. N. Y., 1860, vol. 7, p. 154 (*non* Carpenter, 1864). "GARDINER'S BAY, [L. I.]"

*Caecum costatum* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 283, pl. 6, fig. 6.

MASS.—Vineyard Sound, 8 to 10 fathoms.

**\*Caecum johnsoni** Winkley.

Winkley, Nautilus, 1908, vol. 22, p. 54. "WOODS HOLE, MASS."

MASS.—Woods Hole.

## TRICHOTROPIDAE.

**\*Trichotropis borealis** Broderip and Sowerby.

Broderip and Sowerby, Zool. Journ., 1828, vol. 4, p. 375. "OCEANO BOREALI PROPE INSULAM MELVILLE." Gould, Inv. Mass., 1870, p. 390, fig. 651.

*Trichotropis costellatus* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 108, pl. 3, fig. 2.

ME.—Casco Bay; Frenchman's Bay, 25 to 50 fathoms; Eastport, 20 fathoms.

MASS.—Deep waters of Massachusetts Bay (Couthouy).

**Trichotropis conica** Möller.

Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 85. [GREENLAND.] G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 163, pl. 13, fig. 3. Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 374.

Gulf of Maine, off Cape Sable, 75 fathoms.

**Torellia fimbriata** Verrill and Smith.

Verrill and Smith in Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 520, pl. 57, figs. 27, 27a. [OFF THE COAST OF MAINE AND SOUTH OF MARTHAS VINEYARD.]

Gulf of Maine, near Cashe's Ledge, 52 to 90 fathoms.

MASS.—South of Marthas Vineyard, 142 to 258 fathoms.

**Torellia vestita** Jeffreys.

Jeffreys, Brit. Conch., 1867, vol. 4, p. 244, pl. 4, fig. 1. "EAST COAST OF SHETLAND (BARLEE)." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 521, pl. 47, fig. 5.

Gulf of Maine, 150 fathoms.

MASS.—South of Marthas Vineyard, 86 to 146 fathoms.

PLEUROCERIDAE.

\***Goniobasis virginica** (Gmelin).

Tryon, Smithson. Misc. Coll., 1873, vol. 16, art. 1, p. 290, figs. 562-566.

*Buccinum virginicum* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3505. "IN VIRGINIAE FLUVIIS."

*Melania virginica* Say, Amer. Conch., 1832, pt. 5, pl. 47, fig. 2 and text.

MASS.—Connecticut River, at Agawam, below Springfield (Winkley).

CONN.—Connecticut River, at Deep River (Reid).

\***Goniobasis virginica multilineata** (Say).

*Melania multilineata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 380. "TRIBUTARIES TO THE DELAWARE."

*Goniobasis virginica* Tryon, Smithson. Misc. Coll., 1873, vol. 16, art. 1, p. 290, fig. 567.

CONN.—Connecticut River, at Deep River (Reid).

**Goniobasis depygis** (Say).

Tryon, Smithson. Misc. Coll., 1873, vol. 16, art. 1, p. 247, figs. 481, 482.

*Melania depygis* Say, New Harmony (Ind.) Disseminator, 1829, p. 291. [FALL OF THE OHIO.]

Vt.—Lake Champlain.

\***Goniobasis haldemani** Tryon.

Tryon, Amer. Journ. Conch., 1865, vol. 1, p. 38, pl. 1, fig. 8. "LAKE ERIE, LAKE CHAMPLAIN." Tryon, Smithson. Misc. Coll., 1873, vol. 16, art. 1, p. 282.

Vt.—Lake Champlain.

TRIPHORIIDAE.

\***Triphoris perversa nigrocincta** (C. B. Adams).

*Cerithium nigrocinctum* C. B. Adams, Boston Journ. Nat. Hist., 1839, vol. 2, p. 286, pl. 4, fig. 11. "DARTMOUTH HARBOR, [MASS.]."

*Triforis nigrocinctus* Gould, Inv. Mass., 1870, p. 323, fig. 592.

MASS.—Vineyard Sound and Buzzards Bay, low water to 10 fathoms; Wellfleet.

R. I.—Narragansett Bay; Watch Hill.

CONN.—Stonington on oysters; near New Haven.

CERITHIOPSIDAE.

\***Cerithiopsis greenii** (C. B. Adams).

Verrill, Rept. Inv. Vineyard Sound, 1873, p. 647, pl. 24, fig. 153.

*Cerithium greenii* C. B. Adams, Boston Journ. Nat. Hist., 1839, vol. 2, p. 287, pl. 4, fig. 12. "DARTMOUTH HARBOR, [MASS.]."

*Bittium greenii* Gould, Inv. Mass., 1870, p. 322, fig. 591.

MASS.—Boston Harbor; Vineyard Sound and Buzzards Bay, 3 to 10 fathoms.

R. I.—Narragansett Bay; Watch Hill.

CONN.—Near New Haven (Perkins).

\***Cerithiopsis subulata** (Montagu).

*Murex subulatus* Montagu, Test. Brit., Suppl., 1808, p. 115, pl. 30, fig. 6. "AT SCALASDALE, IN THE SOUND OF MULL."

*Cerithiopsis emersonii* Gould, Inv. Mass., 1870, p. 387, fig. 649.

*Cerithiopsis (Eumeta?) subulata* Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 252, pl. 20, fig. 4.

MASS.—Vineyard Sound and Buzzards Bay, 2 to 12 fathoms; New Bedford Harbor; Nantucket; Wellfleet.

R. I.

**Cerithiopsis costulata** (Möller).

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 189, pl. 13, fig. 7.

*Turritella ? costulata* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 83. [GREENLAND.]

ME.—Off Eastport, Bay of Fundy (Verrill).

**\*Seila adamsii** (H. C. Lea).

Dall, Trans. Wagner Free Inst. Sci., 1892, vol. 3, pt. 2, p. 267.

*Cerithium terebrale* C. B. Adams, Boston Journ. Nat. Hist., 1840, vol. 3, p. 320, pl. 3, fig. 7 (*non* Lamarck). "NEW BEDFORD [, Mass.]."

*Cerithium adamsii* H. C. Lea, Trans. Amer. Phil. Soc., 1846, new ser., vol. 9, p. 268.

*Cerithiopsis terebralis* Gould, Inv. Mass., 1870, p. 389, fig. 650.

MASS.—Vineyard Sound and Buzzards Bay, 2 to 12 fathoms.

R. I.—Narragansett Bay.

CONN.

CERITHIIDAE.

**\*Bittium alternatum** (Say).

*Turritella alternata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 243. "UNITED STATES."

*Pasithea nigra* Totten, Amer. Journ. Sci., 1834, ser. 1, vol. 26, p. 369, pl. 1, figs. 7a, 7b (young).

*Bittium nigrum* Gould, Inv. Mass., 1870, p. 321, fig. 590.

MASS.—Boston Harbor; Vineyard Sound and Buzzards Bay, low water to 8 fathoms, among algae.

R. I.—Narragansett Bay.

CONN.—New Haven.

#### APORRHAIDAE.

\****Aporrhais (Arrhoges) occidentalis*** (Beck).

Gabb, Amer. Journ. Conch., 1868, vol. 4, p. 145.

*Rostellaria occidentalis* Beck, Mag. de Zool., 1836, vol. 6, classe 5, pl. 72 and text. [GULF OF ST. LAWRENCE AND NEWFOUNDLAND.]

*Aporrhais occidentalis* Gould, Inv. Mass., 1870, p. 320, fig. 589.

ME.—Casco Bay; Frenchman's Bay, 10 to 35 fathoms; Eastport, 20 fathoms.

MASS.—Nahant Beach; off Duxbury.

#### DOLIIDAE.

***Eudolium crosseanum*** (Monterosato).

*Dolium crosseanum* Monterosato, Journ. de Conch., 1869, vol. 17, p. 228, pl. 12, fig. 1. [OFF PALERMO, ITALY.]

*Dolium bairdii* Verrill and Smith in Verrill, Amer. Journ. Sci., 1881, ser. 3, vol. 22, p. 299. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 515; 1884, vol. 6, p. 253, pl. 29, figs. 2, 2a, 2b.

*Dolium (Eudolium) crosseanum* Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 134, pl. 15, fig. 5; pl. 44, figs. 2-2b; pl. 62, figs. 83, 83a.

MASS.—Off Marthas Vineyard, 94 to 202 fathoms.

#### PTEROTRACHEIDAE.

***Firoloida lesueurii*** (d'Orbigny).

E. A. Smith, Rept. Voy. Challenger, Zool., 1888, vol. 23, art. 5, p. 23. Verrill, Trans. Conn. Acad., 1885, vol. 6, p. 430.

*Firola (Cerophora) lesueurii* d'Orbigny, Voy. Amér. Mérid., 1836, vol. 5, p. 151, pl. 10, figs. 11, 12. [OCÉAN AUSTRAL, S. LAT. 30°, W. LONG. 89°.]

MASS.—South of Marthas Vineyard, N. lat. 39° 43', W. long. 70° 07', surface.

#### CARINARIIDAE.

##### **Carinaria atlantica** Adams and Reeve.

Adams and Reeve, Zool. Voy. Samarang, Moll., 1848, no. 3, p. 63, pl. 13, fig. 12. "NORTH ATLANTIC OCEAN." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 529; 1884, vol. 6, p. 274.

MASS.—Off Marthas Vineyard, N. lat. 40° 05', W. long. 70° 23', 65 fathoms.

#### ATLANTIDAE.

##### \***Atlanta peronii** Lesueur.

Lesueur, Journ. de Physique, 1817, vol. 85, p. 390, pl. 2, figs. 1, 2. Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 274, pl. 28, figs. 4, 4a.

*Atalanta peronii* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 529.

Near the Georges Bank, N. lat. 41° 25', W. long. 65° 30', surface.

##### **Atlanta gaudichaudii** Eydoux and Souleyet.

Eydoux and Souleyet, Voy. Bonité, Zoöl., 1852, vol. 2, p. 379; atlas, pl. 19, figs. 29–34. "PACIFIQUE." Verrill, Trans. Conn. Acad., 1884, vol. 6, pp. 211, 274.

Off the Georges Bank, N. lat. 40° 02' 49", W. long. 68° 40', surface.

##### **Atlanta rosea** Eydoux and Souleyet.

Eydoux and Souleyet, Voy. Bonité, Zoöl., 1852, vol. 2, p. 377; atlas, pl. 19, figs. 16–20. "ATLANTIQUE." Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 211.

Off the Georges Bank, N. lat. 40° 16' 15", W. long. 67° 05' 15", surface.

***Atlanta inclinata*** Eydoux and Souleyet.

Eydoux and Souleyet, Voy. Bonité, Zoöl., 1852, vol. 2, p. 375; atlas, pl. 19, figs. 9-15. "PACIFIQUE ET ATLANTIQUE." Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 211.

Off Georges Bank, N. lat.  $40^{\circ} 16' 50''$ , W. long.  $67^{\circ} 05' 15''$ , surface.

***Atlanta pulchella*** Verrill.

Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 211. "OFF DELAWARE BAY, N. LAT.  $39^{\circ} 22'$ , W. LONG.  $68^{\circ} 34' 30''$ ."

MASS.— Off Marthas Vineyard, N. lat.  $40^{\circ}$ , surface.

***Oxygyrus keraudrenii*** (Lesueur).

H. and A. Adams, Genera Recent Moll., 1858, vol. 2, p. 92; vol. 3, pl. 69, figs. 6-6b. Verrill, Trans. Conn. Acad., 1885, vol. 6, p. 430.

*Atlanta keraudrenii* Lesueur, Journ. de Physique, 1817, vol. 85, p. 391, pl. 2.

MASS.— South of Marthas Vineyard, N. lat.  $39^{\circ} 44'$ , W. long.  $70^{\circ} 03'$ , surface.

## MURICIDAE.

**\**Eupleura caudata*** (Say).

Stimpson, Amer. Journ. Conch., 1865, vol. 1, p. 58, pl. 8, fig. 5.

*Ranella caudata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 236. "COAST OF THE UNITED STATES." Gould, Inv. Mass., 1870, p. 386, fig. 648.

MASS.— Vineyard Sound, 1 to 8 fathoms; Buzzards Bay; Nantucket; Marthas Vineyard.

R. I.— Coweset Bay; Nayatt.

CONN.— Off New Haven, 1 to 5 fathoms; Long Beach; Stratford.

**\*Trophon clathratus** (Linné).

*Murex clathratus* Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1223.  
“IN ISLANDIAE MARI.”

*Trophon scalariformis* Gould, Inv. Mass., 1870, p. 378, fig. 644.

ME.—Casco Bay; Eastport, 20 fathoms.

MASS.—From a fish caught in Massachusetts Bay.

**Trophon clathratus gunneri** (Lovén).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 512, pl. 43, fig. 8.

*Tritonium gunneri* Lovén, Öfvers. Kongl. Vet.-Akad. Förh. Stockholm, 1846, vol. 3, p. 144. “NORDL[ICHE] FINM[ARK.]”

Gulf of Maine, off Grand Manan; off Cape Sable, 59 fathoms.

**Trophon truncatus** (Ström).

*Buccinum truncatum* Ström, Norske Vidensk. Selsk. Skr., 1767, vol. 4, p. 369, pl. 16, fig. 26.

*Fusus bamffius* Gould, Inv. Mass., 1841, p. 289, fig. 198.

*Trophon clathratus* Gould, Inv. Mass., 1870, p. 377, fig. 643 (*non* Linné).

ME.—Casco Bay; Frenchman’s Bay, 35 to 50 fathoms; Eastport, 20 fathoms.

**Trophon muricatus** (Montagu).

Gould, Inv. Mass., 1870, p. 379.

*Murex muricatus* Montagu, Test. Brit., 1803, p. 262, pl. 9, fig. 2.  
“SALCOMB BAY, [ENGLAND].”

MASS.—Phillips Beach.

**Trophon lintoni** Verrill and Smith.

Verrill and Smith in Verrill, Amer. Journ. Sci., 1882, ser. 3, vol. 24, p. 365. [OFF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 176, pl. 29, fig. 1.

MASS.—Off Marthas Vineyard, 70 fathoms.

\****Urosalpinx cinerea*** (Say).

Stimpson, Amer. Journ. Conch., 1865, vol. 1, p. 58, pl. 8, figs. 6, 7.  
*Fusus cinereus* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1,  
 vol. 2, p. 236. [MARYLAND AND NEW JERSEY.]

*Buccinum cinereum* Gould, Inv. Mass., 1870, p. 370, fig. 637.

ME.—Quahog Bay; Casco Bay.

MASS.—Lynn; Cohasset; Vineyard Sound and Buzzards Bay,  
 from above low water to 8 fathoms; Nantucket.

R. I.—Narragansett Bay; Watch Hill.

CONN.—New Haven; Stratford.

\****Thais (Nucella) lapillus*** (Linné).

Dall, Prof. Paper U. S. Geol. Survey, 1909, no. 59, p. 50.

*Buccinum lapillus* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 739.  
 “AD OCEANI EUROPAEI LITTORA.”

*Purpura lapillus* Gould, Inv. Mass., 1870, p. 360, fig. 630.

ME. to CONN.—Common on the rocky shores.

### COLUMBELLIDAE.

\****Columbella (Anachis) avara*** Say.

*Colombella avara* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1,  
 vol. 2, p. 230. “COAST OF THE SOUTHERN STATES.”

*Anachis avara* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 643.

MASS.—Woods Hole; Vineyard Sound, low water to 10 fathoms;  
 Duxbury; Wellfleet.

R. I.—Narragansett Bay.

CONN.—New Haven.

\****Columbella (Anachis) avara similis*** Ravenel.

*Columbella similis* Ravenel, Proc. Acad. Nat. Sci. Phila., 1861,  
 p. 41. “NORTH AND SOUTH CAROLINA.”

*Columbella avara* Gould, Inv. Mass., 1870, p. 356, fig. 626.

MASS.—Massachusetts Bay; Wellfleet; Plymouth; Woods Hole; Nantucket; Marthas Vineyard.

R. I.—Narragansett Bay.

CONN.—New Haven; Stratford.

**Columbella (Anachis) haliaeeti Jeffreys.**

*Columbella haliaeeti* Jeffreys, Brit. Conch., 1867, vol. 4, p. 356; 1869, vol. 5, p. 219, fig. 3. "IN 85-95 F. ABOUT 25 MILES N.N.W. OF UNST."

*Anachis costulata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 513, pl. 43, fig. 7 (*non* Cantraine).

ME.—Gulf of Maine, at Cashe's Ledge, Jeffrey Bank, etc., 30 to 114 fathoms.

MASS.—Off Cape Cod, 67 to 96 fathoms; south of Marthas Vineyard, common in 146 to 506 fathoms (Verrill).

**\*Columbella (Astyris) lunata (Say).**

*Nassa lunata* Say, Journ. Acad. Nat. Sci. Phila., 1826, ser. 1, vol. 5, p. 213. "SOUTHERN STATES."

*Buccinum zonalis* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48, p. 285. Gould, Amer. Journ. Sci., 1848, ser. 2, vol. 6, p. 236, fig. 8.

*Columbella lunata* Gould, Inv. Mass., 1870, p. 359, fig. 629.

ME.—Quahog Bay; Orr's Isle; Damariscotta (Winkley).

MASS.—Swampscott; Provincetown; Vineyard Sound and Buzzards Bay, 1 to 10 fathoms.

R. I.—Narragansett Bay.

CONN.—New Haven; Stratford.

**\*Columbella (Astyris) dissimilis Stimpson.**

*Columbella dissimilis* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 114. "BAY OF FUNDY."

ME.—Eastport Harbor; Penobscot Bay.

**\*Columbella (Astyris) rosacea (Gould).**

*Buccinum rosaceum* Gould, Amer. Journ. Sci., 1840, ser. 1, vol. 38, p. 197. [FROM FISH OFF COHASSET, MASS.]

*Columbella rosacea* Gould, Inv. Mass., 1870, p. 357, fig. 627.

ME.—Casco Bay, 10 to 20 fathoms; Frenchman's Bay, 6 to 35 fathoms; Eastport.

N. H.—Isles of Shoals, 20 fathoms.

MASS.—Massachusetts Bay, 15 to 25 fathoms; off Chatham, 16 fathoms.

R. I.—East of Block Island, 29 fathoms.

CONN.—Stonington.

**Columbella (Astyris) diaphana (Verrill).**

*Astyris diaphana* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 513, pl. 58, fig. 2. "OFF MARTHA'S VINEYARD."

MASS.—Off Marthas Vineyard, 65 to 487 fathoms.

**Columbella (Astyris) pura (Verrill).**

*Astyris pura* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 515. "OFF MARTHA'S VINEYARD."

MASS.—Off Marthas Vineyard, 100 to 487 fathoms.

ALECTRIONIDAE.

**\*Alectrion (Hima) vibex (Say).**

*Nassa vibex* Say, Journ. Acad. Nat. Sci. Phila., 1822, sér. 1, vol. 2, p. 231. "SOUTHERN AND MIDDLE COAST [OF THE UNITED STATES]." Gould, Inv. Mass., 1870, p. 365, fig. 633.

*Nassa fretensis* Perkins, Proc. Boston Soc. Nat. Hist., 1869, vol. 13, p. 117, fig.

MASS.—Vineyard Sound; New Bedford; Cataumet.

R. I.—Coweset Bay.

CONN.—New Haven.

**Alectrion (Hima?) nigrolabra** (Verrill).

*Nassa nigrolabra* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 371. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 512, pl. 58, fig. 12.

MASS.—South of Marthas Vineyard, 155 fathoms.

**\*Alectrion (Ilyanassa) obsoleta** (Say).

*Nassa obsoleta* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 232. "COAST OF THE UNITED STATES." Gould, Inv. Mass., 1870, p. 362, fig. 631.

Common from the mouth of the Kennebec River, Me., southward, on mud flats.

**\*Alectrion (Tritia) trivittata** (Say).

*Nassa trivittata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 231. "MIDDLE AND SOUTHERN STATES." Gould, Inv. Mass., 1870, p. 364, fig. 632.

Common from Eastport, Me., southward, in from 1 to 40 fathoms.

## BUCCINIDAE.

**\*Buccinum undatum** Linné.

WHELK.

Linné, Syst. Nat., ed. 12, 1767; vol. 1, p. 1204. "O. EUROPAEO." Gould, Inv. Mass., 1870, p. 366, fig. 634.

ME.—Casco Bay; Frenchman's Bay; Eastport, common.

MASS.—Massachusetts Bay; off Gay Head, 6 to 19 fathoms.

R. I.—Rocks at Newport (Carpenter).

CONN.—Stonington, taken in eel-pots (Linsley).

**Buccinum cyaneum** Bruguière.

Bruguière, Encycl. Méth., Hist. Nat. des Vers, 1792, vol. 1, p. 266. "CÔTES DU GROENLAND." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 492, pl. 43, fig. 5.

Gulf of Maine, off Cape Sable, 82 to 91 fathoms.  
About 15 miles east of Cape Cod, 70 to 90 fathoms.

**Buccinum cyaneum perdix** (Beck).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 492.  
*Tritonium groenlandicum* var. *perdix* Beck in Mörch, Faun. Moll. Islandiae, 1868, p. 211. [ICELAND.]

About 15 miles east of Cape Cod, 70 to 90 fathoms.

**Buccinum tenué** Gray.

Gray, Zool. Beechey's Voy., 1839, p. 128, pl. 36, fig. 19. "ICY CAPE." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 495, pl. 43, fig. 4.

Gulf of Maine, off Cape Sable, 88 to 91 fathoms.

**Buccinum sandersoni** Verrill.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 490, pl. 58, fig. 9. "OFF MARTHA'S VINEYARD."

MASS.—Off Marthas Vineyard, 156, 208, and 258 fathoms.

**\*Neptunea decemcostata** (Say).

*Fusus 10-costatus* Say, Journ. Acad. Nat. Sci. Phila., 1826, ser. 1, vol. 5, p. 214. "NEAR BOSTON [, MASS.]." Gould, Inv. Mass., 1870, p. 375, fig. 642.

ME.—Casco Bay; Penobscot Bay; Frenchman's Bay; Eastport.

MASS.—Off Nahant, 17 fathoms; off Cape Cod, 35 fathoms; Duxbury.

**\*Neptunea despecta tornata** (Gould).

*Fusus tornatus* Gould, Amer. Journ. Sci., 1840, ser. 1, vol. 38, p. 197. [BANK FISHERIES.] Gould, Inv. Mass., 1841, p. 286, fig. 201; 1870, p. 374, fig. 641.

*Neptunea despecta* var. *tornata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 499.

Off Georges Bank, 69 to 100 fathoms (Verrill).

\***Colus stimpsonii** (Mörch).

*Fusus stimpsonii* Mörch, Vid. Medd. Naturh. Foren. Kjöbenhavn, 1868, p. 83. "FAERÖ."

*Fusus islandicus* Gould, Inv. Mass., 1870, p. 371, fig. 638 (*non* Linné).

*Neptunea curta* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 638.

*Sipho stimpsonii* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 499.

ME.— Casco Bay; Frenchman's Bay; Eastport.

MASS.— Ipswich Beach; Phillips Beach; Provincetown; Duxbury.

CONN.— Stonington, from fish stomachs (Linsley).

**Colus stimpsonii liratulus** (Verrill).

*Sipho stimpsonii* var. *liratulus* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 500.

*Neptunea* (*Sipho*) *arata* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 370 (*non* Gould). [SOUTH OF MARTHAS VINEYARD.]

ME.— Rockland; Sheepscot River.

MASS.— South of Marthas Vineyard, 64 to 192 fathoms.

\***Colus stimpsonii brevis** (Verrill).

*Sipho stimpsonii* var. *brevis* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 500. "OFF CHATHAM, [MASS.]."

ME.— Isle au Haute.

MASS.— Off Chatham, 17 fathoms; Ipswich.

**Colus pubescens** (Verrill).

*Sipho pubescens* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 501, pl. 43, fig. 6. "OFF CAPE SABLE, N. S. \* \* OFF MARTHA'S VINEYARD."

*Neptunea propinqua* Verrill, Amer. Journ. Sci., 1878, ser. 3, vol. 16, p. 210 (*non* Alder).

Gulf of Maine, off Cape Sable, 88 to 91 fathoms.

MASS.— Off Marthas Vineyard, 86 to 410 fathoms.

\***Colus ventricosus** (Gray).

*Fusus ventricosus* Gray, Zool. Beechey's Voy., 1839, p. 117. No locality. Gould, Inv. Mass., 1870, p. 373, fig. 640.

ME.

MASS.— Nantucket Shoals and Georges Bank (Stimpson).

\***Colus pygmaeus** (Gould).

*Fusus islandicus* var. *pygmaeus* Gould, Inv. Mass., 1841, p. 284, fig. 199. [NEW ENGLAND.]

*Fusus trumbulli* Linsley, Amer. Journ. Sci., 1845, ser. 1, vol. 48, p. 285, figs. 1, 2.

*Neptunea (Neptunella) pygmaea* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 639, pl. 21, fig. 115.

ME.— Casco Bay, 10 to 20 fathoms; Frenchman's Bay; Eastport.

MASS.— Massachusetts Bay.

R. I.— Off Block Island, 29 fathoms; off Edgartown, 18 to 20 fathoms; off Gay Head, 19 fathoms.

CONN.— Off Stonington and New London.

**Colus pygmaeus planulus** (Verrill).

*Sipho pygmaeus* var. *planulus* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 505. "OFF MARTHA'S VINEYARD."

MASS.— Off Marthas Vineyard, 20 to 350 fathoms.

**Colus sabinii** (Gray).

*Buccinum sabinii* Gray, Suppl. to App. Parry's First Voyage, 1819–20, 1824, p. ccxl. [NORTHWEST PASSAGE.]

*Sipho sabinii* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 503,  
pl. 57, fig. 23.

Dredged on Cashe's Ledge, Gulf of Maine.

\***Busycon carica** (Gmelin).

Gould, Inv. Mass., 1870, p. 383, fig. 646.

*Murex carica* Gmelin, Syst. Nat., 1790, vol. 1, pt. 6, p. 3545.  
No locality.

*Fulgur carica* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 640,  
pl. 22, fig. 127.

MASS.— Vineyard Sound, 1 to 10 fathoms; Nantucket.

R. I.— Narragansett Bay.

CONN.— Long Island Sound near New Haven.

\***Busycon canaliculatum** (Linné).

Gould, Inv. Mass., 1870, p. 380, fig. 645.

*Murex canaliculatus* Linné, Syst. Nat., ed. 12, 1767, vol. 1,  
p. 1222. "AD CANADAM."

*Sycotypus canaliculatus* Verrill, Rept. Inv. Vineyard Sound,  
1873, p. 640.

MASS.— Vineyard Sound, 1 to 8 fathoms; Duxbury (introduced  
with seed oysters).

R. I.— Narragansett Bay.

CONN.— Long Island Sound near New Haven.

PTYCHATRACTIDAE.

\***Ptychatractus ligatus** (Mighels and Adams).

Stimpson, Amer. Journ. Conch., 1865, vol. 1, p. 59, pl. 8, fig. 8.

*Fasciolaria ligata* Mighels and Adams, Boston Journ. Nat.  
Hist., 1842, vol. 4, p. 51, pl. 4, fig. 17. "MINGAN IN THE GULF OF  
ST. LAWRENCE."

ME.— Casco Bay, 20 to 40 fathoms; Eastport, 20 fathoms.

CONN.— Stonington, from codfish (Linsley).

## MARGINELLIDAE.

**Marginella apicina borealis** Verrill.

Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 136.

*Marginella borealis* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 165, pl. 29, fig. 4. "OFF NORFOLK, VA."

MASS.— Off Marthas Vineyard, 64.5 to 100 fathoms.

## CANCELLARIIDAE.

**\*Admete couthouyi** (Jay).

*Cancellaria buccinoides* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 105, pl. 3, fig. 3 (*non* Sowerby, 1832). "MASS-[ACHUSETTS] BAY."

*Cancellaria couthouyi* Jay, Cat. Shells, 1839, ed. 3, p. 77.

*Admete viridula* Stimpson, Shells of New England, 1851, p. 44. Gould, Inv. Mass., 1870, p. 391, fig. 652 (*non* Fabricius).

ME.— Casco Bay; Frenchman's Bay, 25 to 30 fathoms; Eastport, 10 fathoms.

MASS.— Massachusetts Bay; Duxbury, 20 fathoms; off Nauset Light.

## TURRITIDAE.

**Drillia dalli** (Verrill and Smith).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 98, pl. 60, figs. 66, 66a.

*Pleurotoma dalli* Verrill and Smith in Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 451, pl. 57, figs. 1, 1a. "OFF MARTHA'S VINEYARD, \*\*\* OFF DELAWARE BAY."

MASS.— Off Marthas Vineyard, 94 to 146 fathoms.

**Drillia carpenteri** (Verrill and Smith).

*Pleurotoma carpenteri* Verrill and Smith in Verrill, Amer. Journ.

Sci., 1880, ser. 3, vol. 20, pp. 391, 395. [OFF MARTHAS VINEYARD.]  
Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 452, pl. 57, fig. 2.

MASS.— Off Marthas Vineyard, 86 to 155 fathoms.

\***Bela nobilis** (Möller).

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 228, pl. 16, figs. 19, 20.  
*Defrancia nobilis* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4,  
p. 85. [GREENLAND.]

ME.— Frenchman's Bay, 10 to 15 fathoms; Eastport.

**Bela scalaris** (Möller).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 471, pl. 57, figs. 12,  
12a.

*Defrancia scalaris* Möller, Krøyer's Naturh. Tidskr., 1842, vol.  
4, p. 85. "GROENLAND."

*Bela turricula* Gould, Inv. Mass., 1870, p. 351, fig. 620.

*Bela americana* Packard, Mem. Boston Soc. Nat. Hist., 1867,  
vol. 1, p. 285, pl. 7, fig. 11.

ME.— Broad Sound, Casco Bay and off Halfway Light, 14 to 29  
fathoms; Eastport, 10 fathoms.

N. H.— Isles of Shoals, 25 fathoms; Jeffrey's Ledge, 15 fathoms.

MASS.— Massachusetts Bay, 29 to 40 fathoms; off Cape Cod,  
15 to 32 fathoms; Duxbury, 20 to 30 fathoms.

**Bela rugulata gouldii** Verrill.

*Bela gouldii* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 462,  
pl. 57, figs. 6, 6a. "MASSACHUSETTS BAY \*\*\* GULF OF MAINE."

ME.— Casco Bay, 17 to 30 fathoms; Frenchman's Bay, 25 to  
30 fathoms.

MASS.— Massachusetts and Cape Cod Bays, 15 to 50 fathoms;  
off Cape Cod, 122 fathoms.

\***Bela cancellata** (Mighels and Adams).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 475, pl. 43, figs. 10, 11; pl. 57, fig. 13.

*Fusus cancellatus* Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 52, pl. 4, fig. 18. "CASCO BAY."

ME.—Frenchman's Bay, south of Egg Rock Light, 25 fathoms; Eastport, 10 fathoms.

MASS.—Massachusetts Bay and off Cape Cod, 12 to 92 fathoms; off Marthas Vineyard, 126 to 312 fathoms.

\***Bela decussata** (Couthouy).

Gould, Inv. Mass., 1870, p. 354, fig. 623. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 479, pl. 43, fig. 13.

*Pleurotoma decussata* Couthouy, Boston Journ. Nat. Hist., 1839, vol. 2, p. 183, pl. 4, fig. 8. "MASSACHUSETTS BAY."

*Bela decussata* var. *tenuicostata* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 481 (*non* Sars).

ME.—Casco Bay; Frenchman's Bay, 10 to 12 fathoms; Eastport.

MASS.—Off Cape Ann, 38 to 75 fathoms; off Cape Cod, 28 to 30 fathoms.

**Bela decussata pusilla** Verrill.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 481. "CASCO BAY."

ME.—Casco Bay, 12 to 15 fathoms; Frenchman's Bay; Wiscasset.

\***Bela exarata** (Möller).

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 232, pl. 16, fig. 18.

*Defrancia exarata* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 85. [GREENLAND.]

*Tritonium mitrula* Lovén, Öfvers. Kongl. Vet.-Akad. Förh., Stockholm, 1846, vol. 3, p. 145.

*Bela concinnula* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 468, pl. 43, fig. 15.

ME.—Casco Bay; Frenchman's Bay, 10 to 12 fathoms; Gulf of Maine, 25 to 118 fathoms.

MASS.—Massachusetts Bay, 16 to 29 fathoms; off Cape Cod, 25 to 122 fathoms.

\***Bela rosea** Sars.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 485.

*Bela harpularia* var. *rosea* G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 234, pl. 23, fig. 10. “TROMSØ OG LOFOTEN \*\*\* VESTKYST (CHRISTIANSUND) [NORWAY].”

ME.—Penobscot Bay.

MASS.—Duxbury, 20 fathoms; Georges Bank.

\***Bela incisula** Verrill.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 461, pl. 43, fig. 12; pl. 57, fig. 14. “OFF NEWPORT, R. I., NORTHWARD TO LABRADOR.”

*Bela impressa?* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 365 (*non* Mörch).

Gulf of Maine, 10 to 70 fathoms.

ME.—Casco Bay, 10 fathoms; Frenchman's Bay, 10 to 35 fathoms; Eastport.

MASS.—Salem Harbor, 5 fathoms; Massachusetts and Cape Cod Bays, 13 to 30 fathoms; off Cape Cod, 26 to 67 fathoms; off Marthas Vineyard, 28 fathoms.

R. I.—Off Newport, 27 fathoms.

**Bela blaneyi** Bush.

Bush, Nautilus, 1909, vol. 23, p. 61, fig. 1. “SOUTH OF EGG ROCK BUOY IN ABOUT 30 FATHOMS,\*\*\* FRENCHMAN'S BAY, MAINE.”

ME.—Frenchman's Bay.

**\*Bela harpularia** (Couthouy).

Gould, Inv. Mass., 1870, p. 352, fig. 621. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 473, pl. 43, fig. 14; pl. 57, fig. 9.

*Fusus harpularius* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 106, pl. 1, fig. 10. "MASS[ACHUSETTS] BAY."

ME.— Casco Bay; Frenchman's Bay, 15 to 50 fathoms; Eastport, 10 to 50 fathoms.

MASS.— Massachusetts Bay, 8 to 29 fathoms; off Cape Cod, 15 to 34 fathoms; off Gay Head, 18 to 29 fathoms.

R. I.— Off Block Island, 20 to 28 fathoms.

**\*Bela pleurotomaria** (Couthouy).

Gould, Inv. Mass., 1870, p. 355, fig. 625. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 478.

*Fusus pleurotomarius* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 107, pl. 1, fig. 9. "MASS[ACHUSETTS] BAY."

ME.— Casco Bay; Frenchman's Bay, 10 to 50 fathoms; Eastport, 10 fathoms.

MASS.— Massachusetts Bay, 31 to 48 fathoms; off Cape Cod, 30 to 122 fathoms; off Chatham, 16 fathoms.

**\*Bela bicarinata** (Couthouy).

*Pleurotoma bicarinata* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 104, pl. 1, fig. 11. "MASS[ACHUSETTS] BAY." Gould, Inv. Mass., 1870, p. 349, fig. 618.

ME.— Casco Bay; Frenchman's Bay, 35 fathoms; Eastport, 10 to 50 fathoms.

MASS.— Off Cape Ann, 38 fathoms; off Cape Cod, 27 to 31 fathoms; Vineyard Sound, 6 to 12 fathoms.

CONN.— Stonington.

**\*Bela bicarinata violacea** (Mighels and Adams).

*Pleurotoma violacea* Mighels and Adams, Proc. Boston Soc. Nat.

Hist., 1841(?), vol. 1, p. 50. "CASCO BAY." Boston Journ. Nat. Hist., 1842, vol. 4, p. 51, pl. 4, fig. 21.

ME.—Frenchman's Bay, 10 to 35 fathoms; Eastport, 10 to 50 fathoms.

MASS.—Massachusetts Bay; Georges Bank, 45 to 60 fathoms.

**Bela pingelii** (Möller).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 464, pl. 43, fig. 16.

*Defrancia pingelii* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 86. [GREENLAND.]

ME.—Eastport, 20 to 90 fathoms.

MASS.—Off Cape Cod, 34 fathoms; Georges Bank.

**Bela tanneri** (Verrill and Smith).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 100, pl. 61, fig. 78.

*Typhlomangelia tanneri* Verrill and Smith in Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 163, pl. 31, fig. 8. "N. LATITUDE 40° 16' 50", W. LONGITUDE 67° 05' 15" IN 1290 FATHOMS."

Gulf of Maine and Georges Bank (Dall).

\***Mangilia plicosa** (C. B. Adams).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 100, pl. 50, fig. 14.

*Pleurotoma plicata* C. B. Adams, Boston Journ. Nat. Hist., 1840, vol. 3, p. 318, pl. 3, fig. 6 (*non* Lamarck). "HARBOUR OF NEW BEDFORD [MASS.]."

*Pleurotoma plicosa* C. B. Adams, Contr. to Conch., 1850, no. 4, p. 54.

MASS.—Dartmouth; New Bedford Harbor; North Falmouth.

CONN.—Near New Haven.

**Mangilia cerina** (Kurtz and Stimpson).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 488, fig. 1.

*Pleurotoma cerinum* Kurtz and Stimpson, Proc. Boston Soc.

Nat. Hist., 1851, vol. 4, p. 115. "BUZZARD'S BAY AND \*\*\* SOUTH CAROLINA."

MASS.— Vineyard Sound and Buzzards Bay, 3 to 12 fathoms; New Bedford.

R. I.— Near Newport; near Watch Hill.

CONN.— Near New Haven.

**Mangilia comatotropis** (Dall).

Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 116, pl. 11, fig. 12.

*Pleurotoma (Mangilia) comatotropis* Dall, Bull. Mus. Comp. Zoöl., 1881, vol. 9, p. 58. "CAPE SAN ANTONIO, 640 FMS."

MASS.— Off Marthas Vineyard, 100 to 487 fathoms.

**Pleurotomella packardii** Verrill.

Verrill, Amer. Journ. Sci., 1873, ser. 3, vol. 5, p. 15. [N. LAT. 42° 5', W. LONG. 67° 45', 110 FATHOMS.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 453, pl. 43, fig. 9; pl. 57, fig. 5.

Gulf of Maine, 85 to 110 fathoms.

MASS.— Off Cape Cod, 96 fathoms.

**Pleurotomella agassizii** (Verrill and Smith).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 454, pl. 57, figs. 3, 3a.

*Pleurotoma agassizii* Verrill and Smith in Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, p. 394. [OFF MARTHAS VINEYARD.]

MASS.— South of Marthas Vineyard, 65 to 500 fathoms.

**Pleurotomella (Gymnobela) blakeana** (Dall).

Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 126, pl. 10, fig. 1.

*Pleurotoma (Bela) blakeana* var. *normalis* Dall, Bull. Mus. Comp. Zoöl., 1881, vol. 9, p. 54. "OFF CAPE SAN ANTONIO, 640 FMS."

*Gymnobela brevis* Verrill, Trans. Conn. Acad., 1885, vol. 6, p. 417.

MASS.— Off Nantucket Shoals; Georges Bank; Gulf of Maine.

OPISTHOBRANCHIATA.

TECTIBRANCHIA.

## ACTEONIDAE.

**Acteon punctostriatus** (C. B. Adams).

*Tornatella puncto-striata* C. B. Adams, Boston Journ. Nat. Hist., 1840, vol. 3, p. 323, pl. 3, fig. 9. "NEW BEDFORD [MASS.]."

*Actaeon punctostriatus* Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 157, pl. 18, figs. 98, 99; pl. 19, figs. 22, 23.

MASS.—Vineyard Sound and Buzzards Bay; South Dennis.

R. I.—Narragansett Bay.

CONN.—Stonington, from haddock (Linsley); near New Haven.

## TORNATINIDAE.

**\*Tornatina canaliculata** (Say).

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 184, pl. 22, fig. 23; pl. 50, figs. 25, 26.

*Volvaria canaliculata* Say, Journ. Acad. Nat. Sci. Phila., 1826, ser. 1, vol. 5, p. 211. "SOUTH CAROLINA."

*Utriculus canaliculatus* Gould, Inv. Mass., 1870, p. 219, fig. 510.

ME.—Portland Harbor (Fuller).

MASS.—Massachusetts Bay; Vineyard Sound and Buzzards Bay, 2 to 8 fathoms.

R. I.—Narragansett Bay; near Watch Hill.

CONN.—Stonington; near New Haven.

**\*Retusa pertenuis** (Mighels).

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 216, pl. 23, figs. 48, 49.

*Bulla pertenuis* Mighels, Boston Journ. Nat. Hist., 1843, vol. 4, p. 346, pl. 16, fig. 3. "CASCO BAY."

*Utriculus pertenuis* Gould, Inv. Mass., 1870, p. 218, fig. 509.

ME.—Casco Bay; Frenchman's Bay, 4 to 10 fathoms.

MASS.—Massachusetts Bay; Duxbury,

***Retusa obtusa turrita* (Möller).**

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 215, pl. 23, fig. 52.

*Bulla turrita* Möller, Krøyer's Naturh. Tidskr., 1842, vol. 4, p. 79.  
[GREENLAND.]

*Bulla incincta* Mighels, Proc. Boston Soc. Nat. Hist., 1844, vol. 1, p. 188.

ME.— Casco Bay (Mighels); Frenchman's Bay (Blaney).

***Retusa gouldii* (Couthouy).**

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 217, pl. 23, figs. 58, 59.

*Bulla gouldii* Couthouy, Boston Journ. Nat. Hist., 1839, vol. 2, p. 181, pl. 4, fig. 6. "MASSACHUSETTS BAY."

*Utriculus gouldii* Gould, Inv. Mass., 1870, p. 217, fig. 508.

ME.— Casco Bay; Frenchman's Bay, 4 to 10 fathoms.

MASS.— Stellwagens Bank, 15 to 25 fathoms; from fish taken off Cohasset; Provincetown; Georges Bank.

***Retusa mayoi* (Dall).**

*Utriculus mayoi* Dall, Bull. Mus. Comp. Zoöl., 1889, vol. 18, p. 46. "PORTLAND, MAINE."

ME.— Portland, from fish stomach (Mayo).

***Retusa obesiuscula* (Brugnone).**

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 231, pl. 23, figs. 60, 61.

*Cylichna obesiuscula* Brugnone, Bull. Soc. Mal. Ital., 1877, vol. 3, p. 39, pl. 1, fig. 7. "FICARAZZI [PLIOCENE OF PALERMO]."

*Diaphana conulus* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 543, pl. 58, fig. 25 (*non* Deshayes).

MASS.— Off Marthas Vineyard, 100 to 155 fathoms.

## SCAPHANDRIDAE.

**Scaphander punctostriatus** (Mighels and Adams).

Gould, Inv. Mass., 1870, p. 215, fig. 505.

*Bulla puncio-striata* Mighels and Adams, Proc. Boston Soc. Nat. Hist., 1841 (?), vol. 1, p. 49. "CASCO BAY." Mighels and Adams, Boston Journ. Nat. Hist., 1842, vol. 4, p. 43, pl. 4, fig. 10.

ME.— Casco Bay; Gulf of Maine.

MASS.— Massachusetts Bay.

**Diaphana debilis** (Gould).

Gould, Inv. Mass., 1870, p. 216, fig. 507.

*Bulla debilis* Gould, Amer. Journ. Sci., 1840, ser. 1, vol. 38, p. 196.

ME.— Casco Bay, 6 fathoms; Frenchman's Bay, 10 to 16 fathoms; Eastport.

MASS.— Massachusetts Bay; Duxbury.

CONN.— Stonington, from stomach of cod (Linsley).

**Diaphana hiemalis** (Couthouy).

Gould, Inv. Mass., 1870, p. 216, fig. 506.

*Bulla hiemalis* Couthouy, Boston Journ. Nat. Hist., 1839, vol. 2, p. 180, pl. 4, fig. 5. "OFF PROVINCETOWN [, MASS.]."

ME.— Casco Bay; Bristol.

MASS.— Provincetown, from fish.

**Diaphana globosa** (Lovén).

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 286, pl. 26, fig. 75.

*Amphisphyra globosa* Lovén, Öfvers. Kongl. Vet.-Akad. Förh., 1846, vol. 3, p. 143. "BOH[USLAN]-FINM[ARK, NORWAY]." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 543.

MASS.— Off Marthas Vineyard, 115 to 364 fathoms (Verrill).

**\*Cylichna alba** (Brown).

Gould, Inv. Mass., 1870, p. 220, fig. 511.

*Volvaria alba* Brown, Illustr. Conch. Great Brit., 1827, pl. 38, figs. 43, 44. "GREENOCK [, ENGLAND]."

*Bulla triticea* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 88, pl. 2, fig. 8.

ME.—Casco Bay; Frenchman's Bay, 10 to 30 fathoms; Eastport.

MASS.—Massachusetts Bay, off Nahant, 17 fathoms; Duxbury; Georges Bank.

R. I.—Narragansett Bay; near Block Island.

CONN.—Stonington, from haddock stomach (Linsley).

**Cylichna occulta** (Mighels and Adams).

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 292, pl. 28, figs. 35-41.

*Bulla occulta* Mighels and Adams, Journ. Boston Soc. Nat. Hist., 1842, vol. 4, p. 54, pl. 4, fig. 11. [WESTBROOK, MAINE (fossil).]

ME.

**Cylichna oryza** (Totten).

Gould, Inv. Mass., 1870, p. 221, fig. 512.

*Bulla oryza* Totten, Amer. Journ. Sci., 1835, ser. 1, vol. 28, p. 350, fig. 5. "NEWPORT HARBOR, (R. I.)."

ME.

MASS.—Vineyard Sound and Buzzards Bay; New Bedford Harbor, 4 fathoms.

R. I.—Newport.

CONN.—Near New Haven; Stratford.

## BULLARIIDAE.

**Bullaria gemma** (Verrill).

*Diaphana (Utriculus) gemma* Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 399. [SOUTH OF MARTHAS VINEYARD.]

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 543, pl. 58, fig. 22.

*Bulla gemma* Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 339.

MASS.—South of Marthas Vineyard, 100 to 115 fathoms.

\***Haminea solitaria** (Say).

Pilsbry, Manual Conch., 1893, ser. 1, vol. 15, p. 357, pl. 28, fig. 44; pl. 41, fig. 32.

*Bulla solitaria* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 245, "SOUTHERN COAST OF THE UNITED STATES."

MASS.—Massachusetts Bay; shores of Vineyard Sound and Buzzards Bay; Duxbury.

R. I.—Newport; Mark Rock; White Camp; near Watch Hill.

CONN.—New Haven Harbor, near Fort Hale.

RINGICULIDAE.

**Ringicula nitida** Verrill.

Verrill, Amer. Journ. Sci., 1873, ser. 3, vol. 5, p. 16. [NORTH OF THE GEORGES BANK, N. LAT.  $42^{\circ} 5'$ , W. LONG.  $67^{\circ} 49'$ , 110 AND 150 FATHOMS.] Verrill, Trans. Conn. Acad., 1874, vol. 3, p. 48, pl. 1, fig. 2; *Ibid.*, 1882, vol. 5, p. 540.

MASS.—Off Marthas Vineyard, 100 to 300 fathoms.

PHILINIDAE.

**Philine sinuata** Stimpson.

Stimpson, Proc. Boston Soc. Nat. Hist., 1850, vol. 3, p. 333. "BOSTON HARBOR, [MASS.]." Gould, Inv. Mass., 1870, p. 213, fig. 502.

ME.—Casco Bay.

MASS.—Broad Bay, Boston Harbor, 4 to 7 fathoms (Stimpson); Duxbury.

**Philine quadrata** (S. V. Wood).

Gould, Inv. Mass., 1870, p. 213, fig. 503.

*Bulla quadrata* S. V. Wood, Charlesworth's Mag. Nat. Hist., 1839, vol. 3, p. 461, pl. 7, fig. 1. "CORALLINE CRAG, SUTTON, [ENGLAND]."

*Philine formosa* Stimpson, Proc. Boston Soc. Nat. Hist., 1850, vol. 3, p. 334.

ME.

MASS.—Off Cape Ann, 30 fathoms; Massachusetts Bay; Duxbury, 20 fathoms; Georges Bank.

**\*Philine lima** (Brown).

Pilsbry, Manual Conch., 1895, ser. 1, vol. 16, p. 20, pl. 5, figs. 7-11.

*Utriculus lima* Brown, Illustr. Recent Conch. Great Brit., 1844, ed. 2, p. 58, pl. 19, figs. 39, 40. "GREENOCK [ENGLAND]."

*Bulla lineolata* Couthouy, Boston Journ. Nat. Hist., 1839, vol. 2, p. 179, pl. 3, fig. 15.

*Philine lineolata* Gould, Inv. Mass., 1870, p. 214, fig. 504.

ME.—Frenchman's Bay, off Egg Rock.

MASS.—Massachusetts Bay, from stomachs of fishes; Georges Bank.

**Philine amabilis** Verrill.

Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 398. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 544, pl. 58, figs. 23, 24.

MASS.—South of Marthas Vineyard, 120 and 130 fathoms.

**Philine cingulata** G. O. Sars.

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 297, pl. 26, figs. 7a-7c. [LOFOTEN, NORWAY, 120 TO 200 FATHOMS.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 544.

Gulf of Maine, off Cape Sable, 90 fathoms.

**Philine fragilis** G. O. Sars.

G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 296, pl. 18, figs. 11a-11c. "VADSØ, [NORWAY]." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 544.

Gulf of Maine, Jeffrey's Ledge, 88 to 92 fathoms; off Cape Sable, 90 fathoms.

**Philine finmarchica** M. Sars.

M. Sars in G. O. Sars, Moll. Reg. Arct. Norv., 1878, p. 296, p. 18, figs. 10a-d. [FINMARK.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 544.

Gulf of Maine, off Cape Sable, 90 fathoms.

Off Cape Cod, 16 fathoms; off Marthas Vineyard, 86 fathoms.

**Philine tincta** Verrill.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 544. [OFF MARTHAS VINEYARD.]

MASS.—South of Marthas Vineyard, 65 fathoms.

**Philine angulata** Jeffreys.

Jeffreys, Brit. Conch., 1867, vol. 4, p. 451. "LARNE, CO. ANTRIM, HEBRIDES, AND SHETLAND." Pilsbry, Manual Conch., 1895, ser. 1, vol. 16, p. 17, pl. 3, figs. 41, 42.

ME.—Casco Bay (Kingsley).

## APLYSIIDAE.

**Tethys willcoxi** (Heilprin).

Pilsbry, Manual Conch., 1895, ser. 1, vol. 16, p. 80, pl. 35, figs. 30-32.

*Aplysia willcoxi* Heilprin, Proc. Acad. Nat. Sci. Phila., 1886, p. 364; Trans. Wagner Free Inst. Sci., 1887, vol. 1, p. 130, pl. 19. "LITTLE GASPARILLA BAY, WEST COAST OF FLORIDA."

MASS.— Katama Bay, Oct. 31, 1900; Buzzards Bay, Oct. 11, 1906; New Bedford; Westport, Lamberts Cove; Tarpaulin Cove; Robinsons Hole and Menemsha Bight (Sumner, Osburn, and Cole).

#### PLEUROBRANCHAEIDAE.

##### **Pleurobranchaea tarda** Verrill.

Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 398. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 546, pl. 58, fig. 26.

MASS.— South of Marthas Vineyard, 28 to 250 fathoms, abundant in 45 and 69 fathoms.

R. I.— South of Block Island, 38 fathoms.

##### **Koonsia obesa** Verrill.

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 545. "OFF MARTHA'S VINEYARD." Verrill, Rept. U. S. Comm. Fish and Fisheries for 1883, 1885, p. 571, pl. 28, fig. 107. Pilsbry, Manual Conch., 1895, ser. 1, vol. 16, p. 222, pl. 74, fig. 94.

MASS.— Marthas Vineyard, 192 to 258 fathoms.

#### PTEROPODA.

##### Superfamily THECOSOMATA.

#### LIMACINIDAE.

##### **Limacina retroversa** (Fleming).

Pelseneer, Rept. Voy. Challenger, Zool., 1888, vol. 23, art. 1, p. 27.

*Fusus retroversus* Fleming, Mem. Wern. Nat. Hist. Soc., 1823, vol. 4, p. 498, pl. 15, fig. 2. "NOSS ISLAND, ZETLAND."

*Heterofusus retroversus* Gould, Inv. Mass., 1870, p. 505, pl. 27, figs. 345-348.

*Heterofusus balea* Gould, Inv. Mass., 1870, p. 505, pl. 27, fig. 349.

*Spirialis gouldii* Stimpson, Proc. Boston Soc. Nat. Hist., 1851, vol. 4, p. 8.

ME.—Casco Bay.

MASS.—Abundant at Nahant during the summer of 1863 (A. Agassiz); Massachusetts Bay, Feb. to Apr. (Stimpson); near Naushon Island. This species was found alive at about 100 different localities in the Gulf of Maine by the "Grampus" in July and August, 1913 and 1914.

**Limacina retroversa macandrei** (Forbes and Hanley).

*Spirialis macandrei* Forbes and Hanley, Brit. Moll., 1853, vol. 2, p. 385, pl. 57, figs. 6, 7. "FIFTEEN MILES TO THE SOUTH OF MIZEN HEAD, SOUTH OF IRELAND."

*Spirialis retroversus* var. *macandrei* Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 275.

MASS.—South of Marthas Vineyard.

**Limacina helicina** (Phipps).

Pelseneer, Rept. Voy. Challenger, Zool., 1888, vol. 23, art. 1, p. 21.

*Clio helicina* Phipps, A Voyage towards the North Pole, 1774, p. 195. "ARCTICK SEAS."

Gulf of Maine.

**Limacina inflata** (d'Orbigny).

*Atlanta inflata* d'Orbigny, Voy. Amér. Mérid., 1836, vol. 5, p. 174, pl. 12, figs. 16–19. "OCÉAN ATLANTIQUE ET DANS LE GRAND OCÉAN."

*Spirialis rostralis* Verrill, Trans. Conn. Acad., 1885, vol. 6, p. 431.

"Grampus" Exp. 1914, N. lat.  $39^{\circ} 54'$ , W. long.  $70^{\circ} 43'$ , alive; and N. lat.  $42^{\circ} 11'$ , W. long.  $69^{\circ} 59'$ , alive.

## CAVOLINIDAE.

**Cavolina telemus** (Linné).

Dall, Bull. Mus. Comp. Zoöl., 1908, vol. 43, p. 230.

*Monoculus telemus* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 635.  
“ALGIRIAE.”

*Anomia tridentata* Forskål, Descr. Anim. Orient. Observ., 1775,  
p. 124.

*Carolina tridentata* Verrill, Trans. Conn. Acad., 1882, vol. 5,  
p. 554, figs. 6, 7.

MASS.—Off Marthas Vineyard, 19 and 22 fathoms; “*Grampus*”  
Exp. 1914, N. lat.  $40^{\circ} 39'$ , W. long.  $67^{\circ} 28'$ , alive.

R. I.—Newport, from stomach of a bluefish, off Block Island.

**Cavolina uncinata** (Rang).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 554.

*Hyalaea uncinata* Rang (MS.) in d’Orbigny, Voy. Amér. Mérid.,  
1836, vol. 5, p. 93, pl. 5, figs. 11–15. “ATLANTIQUE,  $24^{\circ}$  S. LAT.”

MASS.—Off Marthas Vineyard, 65 to 487 fathoms; “*Grampus*”  
Exp. 1914, N. lat.  $40^{\circ} 6'$ , W. long.  $68^{\circ} 6'$ , alive.

**Cavolina longirostris** (Lesueur).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 555.

*Hyalaea longirostris* Lesueur (MS.) in Blainville, Dict. des Sci.  
Nat., 1821, vol. 22, p. 81. “OCÉAN ATLANTIQUE,  $22^{\circ} 9'$  [N. LAT.].”

MASS.—Off Marthas Vineyard, 64 to 500 fathoms; “*Grampus*”  
Exp. 1914, N. lat.  $40^{\circ} 6'$ , W. long.  $68^{\circ} 6'$ , alive.

**Cavolina gibbosa** (Rang).

Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 213.

*Hyalaea gibbosa* Rang (MS.) in d’Orbigny, Voy. Amér. Mérid.,  
1836, vol. 5, p. 95, pl. 5, figs. 16–20. [SOUTH ATLANTIC.]

MASS.—South of Marthas Vineyard.

**Cavolina trispinosa** (Lesueur).

*Hyalaea trispinosa* Lesueur (MS.) in Blainville, Dict. des Sci. Nat., 1821, vol. 22, p. 82. "LA MER DES ANTILLES."

*Diacria trispinosa* Gould, Inv. Mass., 1870, p. 504.

MASS.—Off Marthas Vineyard; occasionally cast ashore on Nantucket; "Grampus" Exp. 1913, 10 miles N N W. of Eastern Point, Gloucester, alive; "Grampus" Exp. 1914, N. lat.  $40^{\circ} 6'$ , W. long.  $68^{\circ} 6'$ , alive.

**Diacria quadridentata** (Lesueur).

Tesch, F. E. Schulze's Das Tierreich, 1913, pt. 36, Pteropoda, p. 41.

*Hyalaea quadridentata* Lesueur (MS.) in Blainville, Dict. des Sci. Nat., 1821, vol. 22, p. 81. "OCÉAN ATLANTIQUE, \*\*\* LAT.  $23^{\circ} 36'$ , LONGIT.  $27^{\circ} 22'$ ."

Off Georges Bank, N. lat.  $40^{\circ} 16' 50''$ , W. long.  $67^{\circ} 05' 15''$  (Verrill).

**Creseis acicula** Rang.

Rang, Ann. des Sci. Nat., 1828, vol. 13, p. 318, pl. 17, fig. 6. "L'OCÉAN ET LA MER DES INDÉS."

*Creseis recta* Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 80, pl. 66, fig. 118.

Near Georges Bank, N. lat.  $41^{\circ} 25'$ , W. long.  $65^{\circ} 30'$ , Sept. 15, 1872, at surface (Verrill); "Grampus" Exp. 1914, N. lat.  $40^{\circ} 6'$ , W. long.  $68^{\circ} 6'$ .

**Creseis virgula** Rang.

Rang, Ann. des Sci. Nat., 1828, vol. 13, p. 316, pl. 17, fig. 2. "L'OCÉAN ATLANTIQUE ET LES ANTILLES."

*Styliola virgula* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 557.

Near Georges Bank, N. lat.  $41^{\circ} 25'$ , W. long.  $65^{\circ} 30'$ , Sept. 15, 1872, at surface (Verrill).

***Creseis conica*** Eschscholtz.

Eschscholtz, Zool. Atlas, 1829, pt. 3, p. 17, pl. 15, fig. 3. "KÜSTE VON BRASILIEN."

*Styliola vitrea* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 284, pl. 6, fig. 7.

MASS.— Taken at the surface among Salpae, off Gay Head, Sept. 9, 1871 (Verrill); "Grampus" Exp. 1914, N. lat. 40° 6', W. long. 68° 6'.

***Styliola subula* (Quoy and Gaimard).**

*Cleodora subula* Quoy and Gaimard, Ann. des Sci. Nat., 1827, vol. 10, p. 233, pl. 8d, figs. 1-3, "LA CÔTE DE TÉNÉRIFFE."

*Styliola subulata* Verrill, Trans. Conn. Acad., 1884, vol. 6, pl. 213.

MASS.— South of Marthas Vineyard, N. lat. 39° 49', W. long. 68° 28' 30" (Verrill).

***Hyalocyclis striata* (Rang).**

*Creseis striata* Rang, Ann. des Sci. Nat., 1828, vol. 13, p. 315, pl. 17, fig. 3. "OCÉAN ATLANTIQUE ET LA MER DES INDÉS."

*Clio (Hyalocylix) striata* Pelseneer, Rept. Voy. Challenger, Zool., 1888, vol. 23, art. 1, p. 54, pl. 2, fig. 3.

"Grampus" Exp. 1914, N. lat. 40° 6', W. long. 68° 6', alive.

***Clio pyramidata* Linné.**

Linné, Syst. Nat., ed. 12, 1767, vol. 1, p. 1094. "IN OCEANO." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 555.

MASS.— South of Marthas Vineyard, N. lat. 40° 05', W. long. 70° 23', 65 to 500 fathoms (Verrill).

***Clio recurva* (Children).**

*Balantium recurvum* Children, Journ. Roy. Inst., 1829, vol. 15, p. 220, pl. 7, fig. 107.

*Clio balantium* Pelseneer, Rept. Voy. Challenger, Zool., 1888, vol. 23, art. 1, p. 61.

MASS.—Off Marthas Vineyard, N. lat.  $40^{\circ} 05'$ , W. long.  $70^{\circ} 23'$  (Verrill).

**Cuvierina columnella** (Rang).

Pelseneer, Rept. Voy. Challenger, Zool. 1888, vol. 23, art. 1, p. 67.

*Curieria columnella* Rang, Ann. des Sci. Nat., 1827, vol. 12, p. 323, pl. 45, B, figs. 1–8. “OCÉAN ATLANTIQUE.”

*Triptera columnella* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 557; 1884, vol. 6, p. 214.

MASS.—South of Marthas Vineyard, N. lat.  $39^{\circ} 55' 28''$ , W. long.  $69^{\circ} 47'$  (Verrill); “Grampus” Exp. 1914, N. lat.  $40^{\circ} 6'$ , W. long.  $68^{\circ} 6'$ .

PERACLIDIDAE.

**Peracle reticulata** (d’Orbigny).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 80.

*Atlanta reticulata* d’Orbigny, Voy. Amér. Mérid., 1836, vol. 5, p. 178, pl. 12, figs. 32–34. [S. LAT.  $20^{\circ}$ , W. LONG.  $89^{\circ}$ .]

“Grampus” Exp. 1914, N. lat.  $40^{\circ} 6'$ , W. long.  $68^{\circ} 6'$ , alive.

CYMBULIIDAE.

**Corolla calceola** (Verrill).

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, p. 200, explanation of plate 66, fig. 120.

*Cymbulia calceola* Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 394. [NEAR N. LAT.  $40^{\circ} 05'$ , W. LONG.  $70^{\circ} 23'$ .] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 553, pl. 58, fig. 33.

MASS.—South of Marthas Vineyard; “Grampus” Exp. 1914, N. lat.  $40^{\circ} 6'$ , W. long.  $68^{\circ} 6'$ ; one mile off Gay Head, Aug. 27, 1890 (Edwards).

R. I.—ESE. of Block Island at surface, Oct. 2, 1880.

## Superfamily GYMNOSOMATA.

## CLIONIDAE.

**Clione limacina** (Phipps).

Gould, Inv. Mass., 1870, p. 507, fig. 754.

*Clio limacina* Phipps, A Voyage towards the North Pole, 1774, p. 195. [ARCTIC SEAS.]

*Clione papillonacea* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 668.

ME.—Portland, April and May, 1868.

MASS.—Vineyard Sound; Woods Hole.

CONN.—Off Stonington.

“Grampus” Exp. 1913, 1914, at many stations in the Gulf of Maine.

**Paedoclione doliformis** Danforth.

Danforth, Proc. Boston Soc. Nat. Hist., 1907, vol. 34, p. 2, pls. 1-4. “CASCO BAY.”

ME.—Casco Bay, plankton, nights of Aug. 28 and Sept. 5-8, 1902.

## NUDIBRANCHIA.

## HERMAEIDAE.

**Hermaea cruciata** Gould.

Gould (A. Agassiz MS.), Inv. Mass., 1870, p. 253, pl. 17, fig. 256. “NAUSHON ISLAND [, MASS.]”

MASS.—Naushon Island, Sept., 1863 (A. Agassiz).

**Stiliger fuscatus** (Gould).

*Calliopaea* (?) *fuscata* Gould, Inv. Mass., 1870, p. 250, pl. 16, figs. 218-221. “BOSTON.”

*Stiliger fuscata* Rathbun, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 127.

MASS.—Boston, on logs in a mast yard, July 22, 1842 (Gould).

**Alderia harvardiensis** Gould.

Gould, Inv. Mass., 1870, p. 254, pl. 16, figs. 226-228. "CAMBRIDGE, [MASS.]."

MASS.—"Found in great numbers, in brackish waters, at Cambridge, April, 1848" (Agassiz); Cohasset in marsh creeks.

## ELYSIIDAE.

**Elysia chlorotica** Gould.

Gould (A. Agassiz MS.), Inv. Mass., 1870, p. 255, pl. 17, figs. 251-255. "CAMBRIDGE [, MASS.]."

MASS.—Found in great numbers in brackish water on the Cambridge marshes, in the spring of 1848 (Agassiz); Cohasset on eel-grass; Duxbury.

**Elysia (Elysiella) catula** (Gould).

?*Placobranchus simplex* Girard, Proc. Boston Soc. Nat. Hist., 1854, vol. 5, p. 89.

*Placobranchus catulus* Gould (A. Agassiz MS.), Inv. Mass., 1870, p. 256, pl. 17, figs. 249, 250. "EAST BOSTON."

*Elysiella catulus* Verrill, Amer. Journ. Sci., 1872, ser. 3, vol. 3, p. 284, pl. 7, figs. 5, 5a; Rept. Inv. Vineyard Sound, 1873, pp. 480, 668, pl. 25, fig. 171.

*Elysia catulus* Apgar, Journ. Trenton (N. J.) Nat. Hist. Soc., 1891, vol. 2, p. 129, pl. 3, fig. 26.

MASS.—"Channel near East Boston, January, 1848" (Agassiz); Chelsea Beach (Girard); Woods Hole, adhering to eel-grass; Duxbury.

CONN.—New Haven.

## LIMAPONTIIDAE.

**Limapontia zonata** (Girard).

Gould, Inv. Mass., 1870, p. 258.

*Niobe zonata* Girard, Proc. Boston Soc. Nat. Hist., 1852, vol. 4, p. 211. "BOSTON HARBOR, [MASS.]."

## AEOLIDIIDAE.

\**Aeolidia papillosa* (Linné).

*Limax papillosus* Linné, Fauna Suecica, 1761, ed. 2, p. 508.  
“IN MARI NORVEGICO.”

*Eolis farinacea* Stimpson, Smithson. Contr. Knowl., 1854, vol. 6, art. 5, p. 25.

*Aeolis papillosa* Gould, Inv. Mass., 1870, p. 238, fig. 518, pl. 18, figs. 257, 261.

ME.—Casco Bay; Eastport.

MASS.—Boston; Rocky Neck and Brace’s Cove, East Gloucester, Apr. 1908 (Balch).

R. I.—Watch Hill, among roots of *Laminariae* (Verrill).

## CRATENIDAE.

*Cuthona aurantia* (Alder and Hancock).

*Eolis aurantia* Alder and Hancock, Ann. Mag. Nat. Hist., 1842, ser. 1, vol. 9, p. 34. “WHITLEY [, ENGLAND].”

*Eolis aurantiaca* Alder and Hancock, Monogr. Brit. Nud. Moll., 1851, pt. 5, fam. 3, pl. 27; 1855, pt. 7, pl. 47, fig. 21.

*Montagua gouldii* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 667.

*Cuthona aurantiaca* Sars, Moll. Reg. Arct. Norv., 1878, p. 321, pl. 28, figs. 6a, 6b; pl. 16, fig. 7.

*Cratena gymnotata* Verrill and Emerton in Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 390 (in part).

MASS.—Massachusetts Bay.

CONN.—New Haven; off Thimble Island, Long Island Sound.

*Cratena gymnotata* (Couthouy).

Bergh, Syst. der Nud. Gaster., 1892, p. 31.

*Eolis (Tergipes, Cuv.) gymnotata* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 69, pl. 1, fig. 3. “TIDE WATER OF CHARLES RIVER, MASS.”

*Aeolis gymnota* Gould, Inv. Mass., 1870, p. 249, fig. 520 (ova), pl. 16, figs. 238-241.

MASS.—Charles River, near Craigie's Bridge, Boston; Warren Bridge, about the roots of *Tubularia*, Oct. and Nov., 1847 (Couthouy); Woods Hole (Verrill); Cohasset, Nov. (Owen Bryant).

#### **Cratena pilata** (Gould).

Bergh, Syst. der Nud. Gaster., 1892, p. 31.

*Aeolis pilata* Gould, Inv. Mass., 1870, p. 243, pl. 19, figs. 270, 277, 279, 281. “CHARLES RIVER, [MASS.]”

*Aeolis vermiferus* Smith, Ann. Lyc. Nat. Hist. N. Y., 1870, vol. 9, p. 391.

*Aeolidia pilata* and *Montagua pilata* Verrill, Rept. Inv. Vineyard Sound, 1873, pp. 383, 666, pl. 25, fig. 174.

MASS.—Charles River, in Sept., on timbers (Gould); Duxbury.

CONN.—New Haven Harbor, on piles of Long Wharf (Verrill); Thimble Island, Long Island Sound (Verrill).

#### **Cratena veronicae** Verrill.

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 389. “OFF CAPE COD.”

MASS.—Off Cape Cod, in 23 to 31 fathoms, among hydroids, Sept. 6, 1879; Cohasset, Sept. 1906, on *Laminariae* (Owen Bryant); Rocky Neck, Gloucester Harbor, Apr. 1908 (Balch).

#### **Cratena? pustulata** (Alder and Hancock).

Bergh, Malacol. Unters., 1878, vol. 15, p. 18.

*Eolis pustulata* Alder and Hancock, Monogr. Brit. Nud. Moll., 1855, pt. 7, fam. 3, pl. 45, figs. 4, 5; pl. 47, fig. 22. “CULLER-COATS, [ENGLAND].”

*Eolis purpurea* Stimpson, Smithson. Contr. Knowl., 1854, vol. 6, art. 5, p. 25.

*Aeolis purpurea* Gould, Inv. Mass., 1870, p. 246.

Grand Manan, "Duck Island, under stones at low-water" (Stimpson).

**Tergipes despectus** (Johnston).

Verrill, Rept. Inv. Vineyard Sound, 1873, pp. 495, 667; Proc. U. S. Nat. Mus., 1880, vol. 3, p. 391.

*Eolidia despecta* Johnston, Loudon's Mag. Nat. Hist., 1835, vol. 8, p. 378, fig. 35e. "BERWICK BAY [ENGLAND]."

*Aeolis despecta* Gould, Inv. Mass., 1870, p. 248, pl. 16, figs. 222-225 (in part according to Verrill, see *Galvina exigua*).

ME.—Casco Bay; Eastport Harbor.

MASS.—Timber dock, Charles River, Sept., 1842; South Boston, July; on piles of Warren Bridge, low tide, among *Campanularia*, June and July (Stimpson teste Gould); Gloucester (Gould).

R. I.—Off Watch Hill, 4 to 5 fathoms, on *Laminaria*, among hydroids (Verrill).

CONN.—Stonington.

**Embletonia fuscata** Gould.

Gould, Inv. Mass., 1870, p. 251, pl. 16, figs. 229-232. "CHARLES RIVER \* \* \* SOUTH BOSTON BRIDGE, [MASS.]".

MASS.—Charles River, on logs in timber dock; South Boston Bridge, on *Laomedea geniculata*, July, 1842 and 1865 (Gould); Provincetown among the filamentous green algae (Rathbun); Duxbury.

**Embletonia fuscata lanceolata** Gould.

Gould, Inv. Mass., 1870, p. 252, fig. 521. No locality.

MASS.

**Embletonia remigata** Gould.

Gould, Inv. Mass., 1870, p. 252, pl. 16, figs. 214-217. "CHARLES RIVER AND AT SOUTH BOSTON BRIDGE, [MASS.]".

MASS.—Charles River and at South Boston Bridge, with *E. fuscata*, in July, upon *Laomedea geniculata*.

**Galvina picta** (Alder and Hancock).

Sars, Moll. Reg. Arct. Norv., 1878, p. 461, tab. anat. struct. pl. 16, fig. 5 (dent.).

*Eolis pallida* Alder and Hancock, Ann. Mag. Nat. Hist., 1842, ser. 1, vol. 9, p. 35. "CULLERCOATS SANDS [ENGLAND]."

*Eolis picta* Alder and Hancock, Monogr. Brit. Nud. Moll., 1847, pt. 3, fam. 3, pl. 33.

*Aeolis picta* Gould, Inv. Mass., 1870, p. 246, pl. 19, fig. 282.

MASS.—Timber dock, Boston, 1842, (Gould); dredged in 5 fathoms, near Governor's Id., Boston Harbor, June, 1850 (Stimpson teste Gould); Rocky Neck, Gloucester Harbor, 1908 (Balch).

**Galvina exigua** (Alder and Hancock).

Sars, Moll. Reg. Arct. Norv., 1878, p. 461, tab. anat. struct. pl. 16, fig. 6 (dent.).

*Eolis exigua* Alder and Hancock, Ann. Mag. Nat. Hist., 1848, ser. 2, vol. 1, p. 192. "FOWEY HARBOUR [ENGLAND]." Alder and Hancock, Monogr. Brit. Nud. Moll., 1851, pt. 5, fam. 3, pl. 37.

*Aeolis despecta* Gould, Inv. Mass., 1870, p. 248, pl. 16, figs. 222-225 (in part, see Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 553).

MASS.—Salem, 1879, on Obelia (Emerton); Boston, spring and early summer.

## CORYPHELLIDAE.

**Coryphella rufibranchialis** (Johnston).

Sars, Moll. Reg. Arct. Norv., 1878, p. 319.

*Eolis rufibranchialis* Johnston, Loudon's Mag. Nat. Hist., 1832, vol. 5, p. 428, fig. 85. "BERWICK BAY, [ENGLAND]." Alder and Hancock, Monogr. Brit. Nud. Moll., 1848, pt. 4, fam. 3, pl. 14; 1855, pt. 7, pl. 47, fig. 9 (dent.).

*Aeolis rufibranchialis* Gould, Inv. Mass., 1870, p. 242, pl. 19, figs. 269, 272 (in part according to Verrill, see *C. r. mananensis*).

MASS.

**Coryphella rufibranchialis mananensis** (Stimpson).

Balch, Nautilus, 1909, vol. 23, p. 35.

*Eolis mananensis* Stimpson, Smithson. Contr. Knowl., 1854, vol. 6, art. 5, p. 26. "IN 35 F[ATHOMS],\*\*\* HAKE BAY [GRAND MANAN]."

*Aeolis rufibranchialis* Gould, Inv. Mass., 1870, p. 242 (in part according to Verrill).

ME.—Casco Bay; Kennebunk; Eastport.

Dredged in many localities from off Fisher's and Block Island to Halifax, N. S., in 20 to 90 fathoms, among hydroids, the most common species at such depths (Verrill).

MASS.—Rocky Neck, Gloucester Harbor, April 26–30, 1908 (Balch); Cohasset, Nov. (Bryant).

**Coryphella rufibranchialis chocolata** Balch.

Balch, Nautilus, 1909, vol. 23, p. 35. "ROCKY NECK [MASS.]."

MASS.—Rocky Neck, Gloucester Harbor, April 26–30, 1908; Bass Rocks, May 20, 1915 (Balch).

**Coryphella stellata** (Stimpson).

Bergh, Syst. der Nud. Gaster., 1892, p. 36.

*Eolis stellata* Stimpson, Smithson. Contr. Knowl., 1854, vol. 6, art. 5, p. 25. [GRAND MANAN.]

*Aeolis stellata* Gould, Inv. Mass., 1870, p. 245, pl. 19, figs. 271, 278.

Grand Manan.

**Coryphella(?) salmonacea** (Couthouy).

*Eolis (Carolina, Brug.) salmonacea* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 68, pl. 1, fig. 2. "CHARLES RIVER, MASS."

*Aeolis salmonacea* Gould, Inv. Mass., 1870, p. 240, pl. 18, figs. 264, 265.

MASS.— “Tide-water of Charles River,” Boston.

**Coryphella diversa** (Couthouy).

Bush, Proc. U. S. Nat. Mus., 1883, vol. 6, p. 242.

*Eolis diversa* Couthouy, Boston Journ. Nat. Hist., 1839, vol. 2, p. 187, pl. 4, fig. 14 (not fig. 9). “MASSACHUSETTS BAY, CHELSEA BEACH.”

*Aeolis diversa* Gould, Inv. Mass., 1870, p. 247, pl. 19, figs. 267, 268 (not fig. 280, ?fig. 276).

MASS.— Massachusetts Bay, spring, among roots of *Laminaria saccharina*.

**Coryphella stimpsoni** (Verrill).

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 388; Trans. Conn. Acad., 1882, vol. 5, p. 552, pl. 42, fig. 14.

*Cuthona stimpsoni* Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 314. “EASTPORT, ME.”

ME.— Eastport, low water; Jeffreys Ledge, 51 fathoms.

MASS.— Salem Harbor; Massachusetts Bay.

**Coryphella rutila** Verrill.

Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 314. “EASTPORT, ME.” Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 552.

ME.— Eastport at low water.

**Coryphella nobilis** Verrill.

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 388. “OFF CAPE COD.” Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 552, pl. 42, fig. 15.

Off Cape Cod, in 75 fathoms, Sept. 1, 1879 (Verrill).

## FACELINIDAE.

**Facelina bostoniensis** (Couthouy).

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 389.

*Eolis bostoniensis* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 67, pl. 1, fig. 1. "TIDE WATER OF CHARLES RIVER, MASS."

*Aeolis bostoniensis* Gould, Inv. Mass., 1870, p. 241, pl. 19, figs. 266, 273-275, 283.

MASS.—Sept. with ova at Craigie's Bridge, Charles River; rather common in various parts of Boston Harbor by dredging, and at Lynn (Stimpson teste Gould); Cohasset, Sept., on Laminaria (Owen Bryant); common from low water to 20 fathoms, on Obelia and other hydroids, from Massachusetts Bay to Block Id. and Newport, R. I. (Verrill).

## FIONIDAE.

**Fiona marina** (Forskål).

Bergh, Rept. Voy. Challenger, Zool., 1884, vol. 10, art. 1, p. 9, pl. 11, fig. 1.

*Limax marinus* Forskål, Descr. Anim. Orient., Observ. 1775, p. 99; Icon. Rer. Nat. in Itinere Orient., 1776, pl. 26, fig. G. g. "MARI MEDITERRANEO."

*Fiona nobilis* Alder and Hancock, Monogr. Brit. Nud. Moll., 1855, pt. 7, fam. 3, pl. 38a; pl. 47, fig. 30 (dent.). Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 551.

South of Marthas Vineyard, in large numbers among Anatifera, on pieces of floating timber (Verrill).

## GLAUCIDAE.

**Glaucus atlanticus** Forster.

Forster, Voy. "Resolution," 1777, vol. 1, p. 49. [SOUTH ATLANTIC.] Bergh, Rept. Voy. Challenger, Zool., 1884, vol. 10, art. 1, p. 16, pl. 14, fig. 16.

*Glaucus marginatus* Verrill, Trans. Conn. Acad., 1885, vol. 6,

p. 430; Rept. U. S. Comm. Fish and Fisheries for 1883, 1885, p. 592, pl. 28, figs. 113, 113a, 113b.

South of Marthas Vineyard, pelagic; N. lat.  $39^{\circ} 05' 30''$ , W. long.  $70^{\circ} 44' 30''$ .

#### DOTOIDAE.

##### **Doto coronata** (Gmelin).

Gould, Inv. Mass., 1870, p. 236, fig. 517 (ova), pl. 16, figs. 233-237.

*Doris coronata* Gmelin, Syst. Nat., 1790, p. 3105. "AD LITTUS INSULAE WALCHEREN SEELANDIAE."

ME.—Casco Bay; Bay of Fundy.

MASS.—Charles River on piles of Craigie's Bridge, below low-water mark; Nahant; off Marthas Vineyard; Rocky Neck, Gloucester Harbor.

R. I.—Off Watch Hill, 4 to 5 fathoms on Obelia.

CONN.—Long Island Sound, near New Haven.

##### **Doto formosa** Verrill.

Verrill, Amer. Journ. Sci., 1875, ser. 3, vol. 10, p. 41, pl. 3, fig. 4. "OFF POINT JUDITH [R. I.] 10-14 FATHOMS."

'ME.—Eastport, from low-water mark to 50 fathoms, usually on hydroids (Verrill).

MASS.—Off Point Judith, 10 to 14 fathoms, Aug. 19.

#### DENDRONOTIDAE.

##### **Dendronotus frondosus** (Ascanius).

*Amphitrite frondosa* P. A. Ascanius, Kongl. Vid. Selsk. Skrift., 1774, vol. 5, p. 158, pl. 5, fig. 2. "IN MARI NORVEGICO."

*Tritonia arborescens* Gould, Inv. Mass., 1841, p. 5.

*Dendronotus arborescens* Gould, Inv. Mass., 1870, p. 234, pl. 22, figs. 311-313.

*Tritonia reynoldsi* Couthouy, Boston Journ. Nat. Hist., 1838, vol. 2, p. 74, pl. 2, figs. 1-4.

ME.—Casco Bay; Kennebunk; also at Grand Manan.

MASS.—Craigie's Bridge, Boston (Gould); Cohasset, Nov.; Rocky Neck and Brace's Cove, Gloucester (Balch); Duxbury. Common among hydroids.

R. I.—Watch Hill, 4 to 5 fathoms, common on *Laminaria* among *Obelia* (Verrill).

**Dendronotus frondosus elegans** Verrill.

*Dendronotus elegans* Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 385. "OFF CAPE COD." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 551.

*Dendronotus arborescens* Bergh, Syst. der Nud. Gaster., 1892, p. 59.

Off Cape Cod, 26 fathoms, Sept. 6, 1879.

**Dendronotus robustus** Verrill.

Verrill, Amer. Journ. Sci., 1870, ser. 2, vol. 50, p. 405, fig. 1, a-c. "WHALE COVE, GRAND MENAN." Verrill, Proc. U. S. Nat. Mus., 1879, vol. 2, p. 197; Trans. Conn. Acad., 1882, vol. 5, p. 550.

*Dendronotus velifer* Sars, Moll. Reg. Arct. Norv., 1878, p. 315, pl. 28, fig. 2; tab. anat. struct. pl. 15, fig. 4 (dent.).

ME.—Casco Bay; Eastport.

MASS.—Ipswich Bay, 19 fathoms, July; Cohasset on kelp with *D. frondosus*, November (Owen Bryant); south of Marthas Vineyard, in 192 fathoms (Verrill).

SCYLLAEIDAE.

\***Scyllaea pelagica marginata** Bergh.

Bergh, Verh. Zool.-Bot. Ges. Wien, 1871, vol. 21, p. 1292.

*Scyllaea edwardsii* Verrill, Amer. Journ. Sci., 1878, ser. 3, vol. 16, p. 211; Trans. Conn. Acad., 1882, vol. 5, p. 550, pl. 42, fig. 10.

MASS.—Woods Hole, in Little Harbor, attached to eel-grass and sargassum, autumn of 1877 (Verrill); Vineyard Sound on sargassum (Gray).

## HOLOHEPATICA.

## DORIDIDAE.

**Geitodoris complanata** (Verrill).

Bergh, Bull. Mus. Comp. Zoöl., 1894, vol. 25, p. 163, pl. 4, figs. 13-18; pl. 5, figs. 1-5.

*Doris complanata* Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, pp. 392, 399. [SOUTH OF MARTHAS VINEYARD, 86 FATHOMS.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 549, pl. 58, figs. 34-34b.

MASS.—South of Marthas Vineyard, 85 to 146 fathoms, among sponges (Verrill).

**Cadlina obvelata** (Müller).

*Doris obvelata* Müller, Zoöl. Danicae Prodr., 1776, p. 229.  
[DENMARK.]

*Doris planulata* Gould, Inv. Mass., 1870, p. 231, pl. 20, figs. 294, 296.

*Doris repanda* Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 312.

*Cadlina repanda* Bergh, Bull. Mus. Comp. Zoöl., 1894, vol. 25, p. 169, pl. 7, figs. 4-11.

ME.—Casco Bay, 3 to 30 fathoms; Gulf of Maine, 60 to 150 fathoms (Verrill); Passamaquoddy Bay, July (Gould); Frenchman's Bay (Dwight Blaney); Blue Hill Bay, on stones, 10 fathoms, Sept.

MASS.—Cohasset, on stones, 5 fathoms, August.

## POLYCERIDAE.

**Issa lacera** (Abildgaard).

Bergh, Verh. Zool.-Bot. Ges. Wien, 1881, vol. 30, p. 646, pl. 13, figs. 12-15; pl. 14, figs. 4-12. Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 547, pl. 42, fig. 11.

*Doris lacera* Abildgaard in Müller, Zool. Danicae, 1806, vol. 4, p. 23, pl. 138, figs. 3-4. "IN MARI NORVEGICO."

Cashe's Ledge.

Off Cape Ann, 25 to 80 fathoms; Massachusetts Bay, 35 to 48 fathoms; off Cape Cod, 70 fathoms; on and near Stellwagens Bank, 25 to 60 fathoms, August (Mayer and Balch).

**Issa ramosa** Verrill and Emerton.

Verrill and Emerton in Verrill, Amer. Journ. Sci., 1881, ser. 3, vol. 22, p. 301. [SOUTH OF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 547, pl. 58, figs. 36, 36a.

South of Marthas Vineyard, 100 to 130 fathoms.

**Palio lessonii** (d'Orbigny).

Bergh, Verh. Zool.-Bot. Ges. Wien, 1881, vol. 29, p. 602.

*Polycera lessonii* d'Orbigny, Mag. de Zool., 1837, vol. 7, art. 8, cl. 5, p. 5, pl. 105. "ENVIRONS DE LA ROCHELLE [FRANCE]." Gould, Inv. Mass., 1870, p. 226, pl. 17, figs. 242-248.

*Doris illuminata* Gould, Inv. Mass., 1841, p. 4.

ME.—Common in Casco Bay and Bay of Fundy, low water to 20 fathoms (Verrill).

MASS.—Craigie's Bridge and Aspinwall's shipyard (Gould); Cohasset, on kelp, Nov. (Owen Bryant).

R. I.—Watch Hill, 3 to 6 fathoms.

CONN.—Savin Rock, near New Haven, and off south end, 4 to 5 fathoms (Verrill).

**Polycerella emertoni** Verrill.

Verrill, Proc. U. S. Nat. Mus., 1880, vol. 3, p. 387. "WOOD'S HOLL [, MASS.]\*\*\* NEW HAVEN, CONN.\*\*\* NEWPORT, R. I." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 548. Bergh, Verh. Zool.-Bot. Ges. Wien, 1884, vol. 33, p. 162, pl. 8, figs. 9-19; pl. 9, figs. 1-6 (anat.).

MASS.—Woods Hole, among eel-grass, Aug. and Sept.

R. I.—Newport, on filamentous algae, July and August (Verrill).

CONN.—New Haven, on hydroids from piles of Long Wharf, Oct. (Verrill).

## GONIODORIDAE.

**Acanthodoris pilosa** (Abildgaard).

*Doris pilosa* Abildgaard, in Müller, Zool. Danica, 1789, vol. 3, p. 7, pl. 85, figs. 5-8. "IN FUCIS MARIS NORVAGICI."

*Doris bifida* Verrill, Amer. Journ. Sci., 1870, ser. 2, vol. 50, p. 406.

*Acanthodoris stellata* Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 313.

*Acanthodoris citrina* Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 313.

ME.—Eastport, at low-water mark, Aug. 19, 1868.

MASS.—Charlestown Navy Yard, 1849 (Gould); Brace's Cove, East Gloucester, Apr. 1908 (Balch).

CONN.—Savin Rock, near New Haven, low-water mark, egg-laying, Oct.

**Acanthodoris pilosa ornata** (Verrill).

*Acanthodoris ornata* Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 313. "EASTPORT, ME." Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 549, pl. 42, fig. 12. Bergh, Syst. der Nud. Gaster., 1892, p. 159.

ME.—Eastport, at low-water mark, August (Verrill).

**Adalaria proxima** (Alder and Hancock).

Bergh, Dall's Sci. Results Expl. Alaska, 1880, art. 6, p. 225, pl. 9, figs. 12-15.

*Doris proxima* Alder and Hancock, Monogr. Brit. Nud. Moll., 1854, pt. 6, fam. 1, pl. 9, figs. 10-16; 1855, pt. 7, pl. 46, fig. 8 (dent.). "BIRKENHEAD, [ENGLAND]."

ME.—Eastport, at low-water mark (Verrill).

**Lamellidoris muricata** (Müller).

Bergh, Dall's Sci. Results Expl. Alaska, 1880, art. 6, p. 221, pl. 9, fig. 18; pl. 11, figs. 10-12.

*Doris muricata* Müller, Zool. Danicae Prodr., 1776, p. 229.  
[DENMARK.]

*Onchidoris muricata* Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 314.

ME.—Eastport.

R. I.—Block Island.

\***Lamellidoris aspera** (Alder and Hancock).

Bergh, Syst. der Nud. Gaster., 1892, p. 161.

*Doris aspera* Alder and Hancock, Ann. Mag. Nat. Hist., 1842, ser. 1, vol. 9, p. 32. “TYNEMOUTH, CULLERCOATS AND WHITLEY, [ENGLAND].”

*Doris pallida* Gould, Inv. Mass., 1870, p. 229, pl. 20, figs. 284, 287, 288 (not fig. 291).

*Onchidoris pallida* Verrill, Amer. Journ. Sci., 1870, ser. 2, vol. 50, p. 408.

ME.—Casco Bay; Eastport Harbor, low water to 30 fathoms (Verrill).

MASS.—Beverly, Feb., 1848 (Agassiz); dredged near Governor's Id., Boston Harbor, Oct., 1849 (Stimpson teste Gould); Cohasset, on kelp, Nov. (Owen Bryant); off Cuttyhunk Id. (Verrill); Brace's Cove, East Gloucester, on corallines, Apr. 1908 (Balch).

R. I.—Newport.

**Lamellidoris diaphana** (Alder and Hancock).

Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 550.

*Doris diaphana* Alder and Hancock, Ann. Mag. Nat. Hist., 1845, ser. 1, vol. 16, p. 313. “MEADFOOT SANDS, TORBAY, [ENGLAND].” Alder and Hancock, Monogr. Brit. Nud. Moll., 1846, pt. 2, fam. 1, pl. 10; 1855, pt. 7, pl. 46, fig. 9 (dent.).

ME.—Eastport, at low-water mark (Verrill).

\***Lamellidoris bilamellata** (Linné).

Bergh, Semper's Reisen Archipel d. Philippinen, pt. 2, 1878, vol. 2, no. 14, p. 606, pl. 64, fig. 13; pl. 65, figs. 1-5.

*Limax bilamellatus* Linné, Fauna Suecica, 1761, ed. 2, p. 508. "MARIS NORVEGICI."

*Doris bilamellata* Gould, Inv. Mass., 1870, p. 228, pl. 20, figs. 285, 286; pl. 21, figs. 299, 305-309.

MASS.—Under a floating log at East Boston, May, 1849 (Gould); Beverly, June (Agassiz); Boston Harbor near Governor's Id., 4 fathoms, May, 1853 (Stimpson); Castle Id., Boston Harbor, May, 1915 (Humphrey).

**Lamellidoris (?) tenella** (Gould).

Bergh, Syst. der Nud. Gaster., 1892, p. 161.

*Doris tenella* Gould, Inv. Mass., 1870, p. 229, pl. 20, figs. 289, 290, 293. "BEVERLY, [MASS]."

*Onchidoris tenella* Verrill, Amer. Journ. Sci., 1870, ser. 2, vol. 50, p. 407.

ME.—Near Eastport, low-water mark, 1870 (Verrill).

MASS.—Beverly, February, 1848 (Agassiz).

**Lamellidoris (?) grisea** (Gould).

Bergh, Syst. der Nud. Gaster., 1892, p. 161.

*Doris grisea* (Stimpson MS.) Gould, Inv. Mass., 1870, p. 232, pl. 20, figs. 292, 295. "CHARLES RIVER \*\*\* CHELSEA BEACH \*\*\* EAST BOSTON POINT, [MASS]."

*Onchidoris grisea* Verrill, Amer. Journ. Sci., 1870, ser. 2, vol. 50, p. 407.

ME.—Near Eastport, in a pool at low-water mark (Verrill).

MASS.—On floating Zostera in Charles River, November 9, 1842; also on the under side of Fucus-covered stone at East Boston Point, in April (Stimpson *teste* Gould).

**Lamellidoris (?) diademata Gould.**

Bergh, Syst. der Nud. Gaster., 1892, p. 161.

*Doris diademata* Gould, Inv. Mass., 1870, p. 230, pl. 21, figs. 298, 300-304. "BOSTON AND BEVERLY HARBORS [, MASS.]".

MASS.— "Found in deep water, Boston and Beverly Harbors" (Agassiz).

**Idalia (Idaliella) pulchella Alder and Hancock.**

*Idalia pulchella* Alder and Hancock, Ann. Mag. Nat. Hist., 1854, ser. 2, vol. 14, p. 103. "ST. IVES, [ENGLAND]." Alder and Hancock, Monogr. Brit. Nud. Moll., 1854, pt. 6, fam. 1, pl. 17, figs. 5, 6; 1855, pt. 7, App., p. v.

*Idaliella pulchella* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 548, pl. 42, fig. 13.

MASS.— Salem.

**Idalia (Idaliella) modesta Verrill.**

*Idalia modesta* Verrill, Amer. Journ. Sci., 1875, ser. 3, vol. 10, p. 41, pl. 3, fig. 3. [OFF FISHER'S ISLAND; BLOCK ISLAND SOUND; N. OF LITTLE GULL ISLAND, 40 FATHOMS.]

*Idaliella modesta* Verrill, Trans. Conn. Acad., 1882, vol. 5, p. 548.

MASS.— Vineyard Sound and off No Man's Land.

R. I.— Block Island Sound, 17 to 24 fathoms, Aug. 6.

CONN.— Off west end of Fisher's Island, Aug. 25, 1874 (Verrill).

**Ancula cristata sulphurea Stimpson.**

*Ancula sulphurea* Stimpson, Smithson. Contr. Knowl., 1854, vol. 6, art. 5, p. 26. [GRAND MANAN.] Gould, Inv. Mass., 1870, p. 233, fig. 516 (ova), pl. 22, figs. 310, 314.

MASS.— Among corallines, on Zostera, and under stones in Boston Harbor; Brace's Cove, East Gloucester, Apr. 1908 (Balch).

## CORAMBIDAE.

**Doridella obscura** Verrill.

Verrill, Amer. Journ. Sci., 1870, ser. 2, vol. 50, p. 408, figs. 2, a-b, 3. "SAVIN ROCK NEAR NEW HAVEN [, CONN.]" Verrill, Rept. Inv. Vineyard Sound, 1873, pp. 664, 400, pl. 25, fig. 173, a-b; Trans. Conn. Acad., 1882, vol. 5, p. 547, fig. 5.

MASS.—Vineyard Sound, low water to 10 fathoms.

R. I.—Off Block Island, 13 fathoms.

CONN.—Savin Rock, Oct. 28, 1868; Long Island Sound, near New Haven, low water to 5 fathoms.

## PULMONATA.

## BASOMIMATOPHORA.

## AURICULIDAE.

**\*Carychium exiguum** (Say).

Gould, Inv. Mass., 1870, p. 466, fig. 720. Pilsbry, Proc. Acad. Nat. Sci. Phila., 1891, p. 319.

*Pupa exigua* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 375. [NEAR PHILADELPHIA, PA.]

ME.—Kennebunkport; Orono; Woodland, Aroostook Co.; Bethel; Mt. Desert.

MASS.—Boston; Lexington; Westfield.

R. I.—Providence.

CONN.—New Haven.

**\*Carychium exile** H. C. Lea.

H. C. Lea, Amer. Journ. Sci., 1842, ser. 1, vol. 42, p. 109, pl. 1, fig. 5. "WISSAHICCON CREEK, NEAR PHILADELPHIA." Pilsbry, Nautilus, 1894, vol. 8, p. 63, figs. 10-14.

ME.—Caribou; Woodland; Hebron; Buckfield.

**Carychium exile canadense** Clapp.

Clapp, Nautilus, 1906, vol. 19, p. 139, pl. 8, figs. 1, 2, 6, 7. "KENNEBUNKPORT, ME."

ME.—Kennebunkport; Islesboro; Eagle Lake; Caribou, Aroostook Co.

VT.—Hartland.

**Carychium minimum Müller.**

Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 125. [EUROPE.] Forbes and Hanley, Brit. Moll., 1853, vol. 4, p. 198, pl. 125, fig. 6.

MASS.—Norfolk Downs, in the vicinity of greenhouses. Introduced.

**\*Alexia myosotis (Draparnaud).**

Gould, Inv. Mass., 1870, p. 463, figs. 718, 719.

*Auricula myosotis* Draparnaud, Tabl. Moll. France, 1801, p. 53, pl. 3, figs. 16, 17. "CÔTES DE LA MÉDITERRANÉE."

*Auricula denticulata* Gould, Inv. Mass., 1841, p. 199, fig. 129 (*non* Montfort).

ME.—Portland; Eastport; Castine.

MASS.—Boston; Woods Hole; Marblehead.

R. I.—Newport; Wickford.

CONN.—Stonington; New Haven; West River, near West Haven; Branford.

**\*Melampus lineatus Say.**

Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 246. "MARYLAND AND NEW JERSEY."

*Melampus bidentatus* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 245 (*non* Montagu, 1803). Gould, Inv. Mass., 1870, p. 467, fig. 721.

ME.—Portland; Biddeford Pool; New Meadows River.

MASS.—Ipswich; Revere; Plymouth; Provincetown; Woods Hole.

R. I.—Nayatt; Narragansett Bay.

CONN.—New Haven.

## PHYSIDAE.

**\*Physa heterostropha** (Say).

Gould, Inv. Mass., 1870, p. 483, fig. 735.

*Lymnaea heterostropha* Say, Nich. Encycl., 1817, pl. 1, fig. 6.  
“DELAWARE RIVER.”

ME. TO CONN.—Common in most of the ponds and streams.

**\*Physa ancillaria** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1825; ser. 1, vol. 5, p. 124.  
“DELAWARE RIVER NEAR EASTON, AND \*\*\* CONNECTICUT RIVER  
ABOVE HARTFORD.” Gould, Inv. Mass., 1870, p. 485, fig. 736.

ME.—Mud and Square Lakes, Aroostook Co.; Waterville;  
Prospect; North Warren.

N. H.—Merrimack River.

Vt.—Lake Champlain; Hartland.

MASS.—Fresh Pond, Cambridge; Lynnfield.

CONN.—Connecticut River, above Hartford; near New Haven.

**\*Physa sayii** Tappan.

Tappan, Amer. Journ. Sci., 1839, ser. 1, vol. 35, p. 269, pl. 3,  
fig. 3. “LAKE PIPIN, \*\*\* PORTAGE COUNTY, OHIO.”

ME.—Caribou (Nylander); Fort Kent.

**Physa fragilis** Mighels.

Mighels, Proc. Boston Soc. Nat. Hist., 1843 (?), vol. 1, p. 49.  
“MONMOUTH, ME.” Binney, Smithson. Misc. Coll., 1865, vol. 7,  
art. 2, p. 89, fig. 153.

ME.—Monmouth, in a mill pond (Mighels).

**Physa gyrina** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 171.

"BOWYER CREEK, NEAR COUNCIL BLUFF, [IOWA]." Binney,  
Smithson. Misc. Coll., 1865, vol. 7, art. 2, p. 77, fig. 130.

Vt.—Lake Champlain (Adams).

?R. I.—Tiverton (Carpenter).

**Physa elliptica** Lea.

Lea, Trans. Amer. Phil. Soc., 1837, new ser., vol. 5, p. 115, pl. 19,  
fig. 83. No locality.

ME.—Aroostook Co.

**\*Aplexa hypnorum** (Linné).

Dall, Harriman Alaska Exped., 1905, vol. 13, p. 106, fig. 81.

*Bulla hypnorum* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 727.

"IN EUROPAE MUSCIS."

*Physa elongata* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1,  
vol. 2, p. 171.

*Bulinus elongatus* Gould, Inv. Mass., 1870, p. 486, fig. 738.

ME.—Portland; Bethel; Monmouth; Bangor; Woodland;  
North Warren; Saco.

N. H.—Keene.

Vt.—Hartland; Burlington.

MASS.—Cambridge; Southborough; Milton.

R. I.—Tiverton.

CONN.—New Haven.

LYMNAEIDAE.

**\*Lymnaea stagnalis appressa** (Say).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 137, pl. 19,  
figs. 4–10; pl. 20, figs. 1–6; pl. 21, figs. 1–3.

*Lymneus appressus* Say, Journ. Acad. Nat. Sci. Phila., 1821,  
ser. 1, vol. 2, p. 168. "LAKE SUPERIOR."

Vt.—Lake Champlain; Burlington (Adams); mouth of the  
Winooski River (Dr. H. F. Perkins); Lake Hortonia; Chimney  
Point.

**\*Pseudosuccinea columella** (Say).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 163, pl. 23, figs. 8-20; pl. 24, figs. 1-4.

*Lymnaea columella* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 14. No locality. [COLD WATER CREEK, Mo.]

*Limnaea columella* Gould, Inv. Mass., 1870, p. 471, fig. 723.

*Limnea acuminata* Adams, Amer. Journ. Sci., 1840, ser. 1, vol. 39, p. 374.

ME.— York, Cumberland, Oxford, Knox and Penobscot Counties.  
VT.

MASS.— New Bedford; Winchester; Danvers; Waltham.

R. I.— Tiverton.

CONN.— Branford.

**\*Pseudosuccinea columella chalybea** (Gould).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 171, pl. 24, figs. 5-13.

*Lymnea chalybea* Gould, Amer. Journ. Sci., 1840, ser. 1, vol. 38, p. 196. [CAMBRIDGE, MASS.]

*Limnaea columella* var. *chalybea*, Gould, Inv. Mass., 1870, p. 472.

ME.— Thomaston; Union.

VT.— Lake Hortonia.

MASS.— Cambridge; Green Lodge Station, Neponset River; Duxbury; Uxbridge.

R. I.— Tiverton; Newport.

**\*Radix auricularia** (Linné).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 179, pl. 22, figs. 12-15. Clapp, Nautilus, 1913, vol. 26, p. 116.

*Helix auricularia* Linné, Syst. Nat., ed. 10, 1758, p. 774. "IN EUROPAE FLUVIIS, STAGNIS."

MASS.— Common in the Charles River about three miles above the Dam, on both the Cambridge and the Boston shores. Introduced.

**\**Bulimnea megasoma* (Say).**

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 184, pl. 25, figs. 1-6.

*Lymneus megasomus* Say, Narrative Long's Exped., 1824, vol. 2, p. 263, pl. 15, fig. 10. "BOIS BLANC LAKE, NORTH-WEST TERRITORY."

*Limnaea (Bulimnea) megasoma* Binney, Smithson. Misc. Coll., 1865, vol. 7, art. 2, p. 37, figs. 46, 47.

Vt.—Lake Champlain; Burlington (Adams); "Intervels," mouth of the Winooski River (H. F. Perkins).

?Mass.

**\**Acella haldemani* (Deshayes).**

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 192, pl. 18, fig. 1; pl. 26, figs. 1-4.

*Lymnaea gracilis* Jay, Cat. Shells, 1839, ed. 3, p. 112, pl. 1, figs. 10, 11 (*non* Zieten, 1830). "ESSEX Co., N. Y."

*Limnaea (Acella) gracilis* Binney, Smithson. Misc. Coll., 1865, vol. 7, art. 2, p. 69, figs. 112, 114.

*Limnaea haldemani* Deshayes in Binney, Journ. de Conch., 1867, ser. 3, vol. 7, p. 428 (new name for *L. gracilis* Jay, preoccupied).

Vt.—Lake Champlain (Adams); mouth of Potash Brook (H. F. Perkins); Chimney Point.

***Galba caperata* (Say).**

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 225, pl. 28, figs. 20-33; pl. 29, figs. 1-3.

*Lymnaeus caperatus* Say, New Harmony (Ind.) Disseminator, 1829, vol. 2, p. 230. [INDIANA.]

*Limnaea caperata* Binney, Smithson. Misc. Coll., 1865, vol. 7, art. 2, p. 56, fig. 87.

ME.—Ironbound Id.

MASS.—Westfield.

R. I.—Smithfield.

CONN.—Housatonic.

\***Galba umbilicata** (C. B. Adams).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 236, pl. 30, figs. 1-7.

*Limnea umbilicata* C. B. Adams, Amer. Journ. Sci., 1840, ser. 1, vol. 39, p. 374. "NEW BEDFORD, [MASS.]." Gould, Inv. Mass., 1870, p. 480, fig. 731.

ME.—North Haven; Buckfield; Woodland; Fox Id., Penobscot River; Fort Kent.

N. H.—Keene.

VT.—Burlington.

MASS.—Cambridge; Salem; Cohasset; Southborough; Westfield; Duxbury.

R. I.—Pawtucket.

CONN.—Farmington River, Unionville.

**Galba parva** (Lea).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 243, pl. 29, figs. 5-14; pl. 30, figs. 9-12.

*Lymnea parva* Lea, Proc. Amer. Phil. Soc., 1841, vol. 2, p. 33. "CINCINNATI, OHIO."

ME.—Rockland.

CONN.

\***Galba humilis modicella** (Say).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 259, pl. 19, figs. 31-37; pl. 31, figs. 1-9.

*Lymneus modicellus* Say, Journ. Acad. Nat. Sci. Phila., 1825, ser. 1, vol. 5, p. 122. "OWEGO, ON THE SUSQUEHANNA RIVER NEAR THE STATE OF NEW YORK."

*Limnaca humilis* Gould, Inv. Mass., 1870, p. 482, fig. 734 (*non* Say).

*Limnea linsleyi* DeKay, Nat. Hist. N. Y., Moll., 1843, p. 72, pl. 4, fig. 74.

ME.—Caribou; Woodland; Rockland.

N. H.

MASS.—Uxbridge; Duxbury; Pittsfield; Arlington.  
CONN.

**Galba humilis rustica** (Lea).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 268, pl. 31, figs. 10–14.

*Lymnea rustica* Lea, Proc. Amer. Phil. Soc., 1841, vol. 2, p. 33.  
“POLAND, OHIO.”

ME.—Saco.

MASS.—Woburn; Arlington; Cambridge (Clapp).

**\*Galba obrussa** (Say).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 270, pl. 26, figs. 8–13; pl. 31, figs. 20–37.

*Lymneus obrussus* Say, Journ. Acad. Nat. Sci. Phila., 1825, ser. 1, vol. 5, p. 123. “HARROWGATE” [PHILADELPHIA, PA.].

*Limnea desidiosa* Haldeman, Monogr. Limniades, 1842, p. 31, pl. 10; p. 48, pl. 13, figs. 16–18.

*Limnaea desidiosa* Gould, Inv. Mass., 1870, p. 478, fig. 729 (*non* Say).

ME.—Westbrook; Saco; Aroostook Co.; Rockland.

VT.—Manchester.

MASS.—Waltham; Winchester; Williamstown; Neponset River.

R. I.—Olneyville.

CONN.—Near New Haven; Orange; Milford.

**Galba obrussa peninsulae** (Walker).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 283, pl. 32, figs. 1–6.

*Lymnaea desidiosa* var. *peninsulæ* Walker, *Nautilus*, 1908, vol. 22, pp. 9, 16, pl. 2, fig. 7. "HEADWATERS OF THE UNION RIVER, ONTONAGON COUNTY, MICHIGAN."

ME.—Unity (Berry); Thomaston (Lermond); Woodland.

**Galba obrussa exigua** (Lea).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 285, pl. 32, figs. 7–14.

*Lymnea exigua* Lea, Proc. Amer. Phil. Soc., 1841, vol. 2, p. 33. "TENN[ESSEE]."

ME.—Aroostook River, Caribou; Caribou Stream, Woodland (Nylander); Fort Kent; Orono.

CONN.—Branford.

**Galba obrussa decampi** (Streng).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 289, pl. 32, figs. 15–22.

*Limnaea desidiosa* var. *decampi* Streng, *Nautilus*, 1896, vol. 9, p. 123, fig. "BROOK'S LAKE, NEWAYGO Co., MICH."

ME.—Barren Brook, Caribou (Nylander).

\***Galba palustris** (Müller).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 298, pl. 26, figs. 17–37; pl. 33, figs. 1–25; pl. 34, fig. 20.

*Buccinum palustre* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 131. [EUROPE.]

*Limnaea elodes* Gould, Inv. Mass., 1870, p. 475, fig. 728.

*Limnea expansa* Haldeman, Monogr. Limniades, 1842, no. 4, p. 29, pl. 9, figs. 6–8.

ME.—Caribou; Scarboro.

VT.—Shelburn Bay and Larrabee Point, Lake Champlain; Hartland.

MASS.—Cambridge; Chebacco Lake; Woburn.

R. I.—Providence and Worcester Canal near Long Bridge; Lonsdale.

CONN.—Housatonic River.

**Galba elodes shurtleffi** (Tryon).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 330, pl. 34, fig. 13.

*Limnaea (Limnophysa) shurtleffi* Tryon, Amer. Journ. Conch., 1866, vol. 2, p. 111, pl. 10, figs. 4, 5. "WEATOGUE, HARTFORD CO., CONN."

CONN.—Weatogue, Hartford Co.

\***Galba reflexa** (Say).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 332, pl. 30, figs. 30, 31; pl. 35, figs. 3, 5-22; pl. 36, figs. 1-11; pl. 18, fig. 10.

*Lymneus reflexus* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 167. "LAKES ERIE AND SUPERIOR."

Vt.—Lake Champlain (Roper).

\***Galba pallida** (C. B. Adams).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 377, pl. 40, figs. 1-5.

*Limnea pallida* C. B. Adams, Amer. Journ. Sci., 1840, ser. 1, vol. 39, p. 374. "SHOREHAM, VT."

*Limnaea pallida* Gould, Inv. Mass., 1870, p. 481, fig. 733.

Vt.—Higate and Larrabee Point; Burlington, Lake Champlain.

?Mass.—Andover (Adams).

\***Galba catascopium** (Say).

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 380, pl. 30, figs. 25, 26; pl. 40, figs. 6-35; pl. 61, figs. 1-4; pl. 47, fig. 10.

*Lymnaea catascopium* Say, Nich. Encycl., Amer. ed., 1817, vol. 2 (no pagination), pl. 2, fig. 3. "DELAWARE RIVER."

*Lymneus pinguis* Say, Journ. Acad. Nat. Sci. Phila., 1825, ser. 1, vol. 5, p. 123.

*Lymnea linsleyi* DeKay, Nat. Hist. N. Y., Moll., 1843, p. 72, pl. 4, fig. 74.

ME.—Waterville.

VT.—Burlington.

MASS.

CONN.—Stratford.

\****Galba decollata* (Mighels).**

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 400, pl. 42, figs. 23–26; pl. 41, figs. 8–10.

*Limnaea decollata* Mighels, Proc. Boston Soc. Nat. Hist., 1843 (?), vol. 1, p. 49. "UNITY, ME." Gould, Inv. Mass., 1870, p. 473, fig. 725.

ME.—Winnecook Lake, Unity, Waldo Co.; Portland; Lincoln.

?CONN.—Housatonic River.

\****Galba emarginata* (Say).**

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 408, pl. 30, figs. 27, 28; pl. 41, figs. 18–24; pl. 43, figs. 1–12.

*Lymneus emarginatus* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 170. "LAKES OF MAINE."

*Limnaea emarginata* Binney, Smithson. Misc. Coll., 1865, vol. 7, art. 2, p. 51, figs. 75, 79.

ME.—Mud Lake or Second Eagle Lake; west branch of Fish River between Eagle and Portage Lakes; St. John River, at Fort Kent.

\****Galba emarginata mighelsii* (Binney).**

Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 416, pl. 43, figs. 13–21; pl. 41, fig. 25.

*Limnea ampla* Mighels, Boston Journ. Nat. Hist., 1843, vol. 4, p. 347, pl. 16, figs. 1a, 1b, 1c (*non* Hartmann). "SECOND EAGLE LAKE, MAINE."

*Limnaea mighelsii* Binney, Smithson. Misc. Coll., 1865, vol. 7, art. 2, p. 31, footnote.

*Limnaea emarginata* var. *mighelsi* Nylander, Distr. of *Limnaea emarginata* in Maine, 1901, pls. 3, 4.

ME.—Square Lake Inlet, Cross and Portage Lakes, Aroostook Co.; Sebago Lake.

\***Galba oronoensis** (Baker).

*Lymnaea decollata oronoensis* Baker, Nautilus, 1904, vol. 18, p. 62. "ORONO, MAINE."

*Galba oronensis* Baker, Spec. Publ. Chicago Acad. Sci., 1911, no. 3, p. 438, pl. 47, figs. 1-9.

ME.—Orono; Penobscot River at Lincoln; Caribou River, Aroostook Co.; Lake Auburn.

\***Planorbis antrosus** Conrad.

Conrad, Amer. Journ. Sci., 1834, ser. 1, vol. 25, p. 343. "RAN-DON'S CREEK, NEAR CLAIBORNE, ALABAMA."

*Planorbis bicarinatus* Say, Nich. Encycl., 1817, vol. 2 (no pagination), pl. 1, fig. 4. Gould, Inv. Mass., 1870, p. 491, fig. 742. Walker, Nautilus, 1909 (*non* Lamarck, 1804), vol. 23, p. 1, pl. 1, fig. 3.

ME. to CONN.—Common in most of the ponds and streams.

\***Planorbis antrosus aroostookensis** Pilsbry.

*Planorbis bicarinatus aroostookensis* Pilsbry, Nautilus, 1895, vol. 8, p. 115. "EAST BRANCH OF SALMON BROOK, WOODLAND, AROOSTOOK CO., ME." Walker, Nautilus, 1909, vol. 23, p. 7, pl. 1, figs. 1, 2.

ME.—East branch of Salmon Brook, Woodland; Collin's Pond; Caribou River, Caribou (Nylander).

**Planorbis antrosus striatus** Baker.

*Planorbis bicarinatus striatus* Baker, *Nautilus*, 1902, vol. 15, p. 120. "MILWAUKEE, WISCONSIN [PLEISTOCENE]." Baker, *Trans. Acad. Sci. St. Louis*, 1906, vol. 16, p. 9, pl. 1, fig. 11.

ME.—Square Lake; Rockville.

N. H.—Profile Lake.

**\*Planorbis antrosus portagensis** Baker.

*Planorbis bicarinatus portagensis* Baker, *Nautilus*, 1908, vol. 22, p. 45. "PORTAGE LAKE, ON FISH RIVER, AROOSTOOK COUNTY, MAINE." Walker, *Nautilus*, 1909, vol. 23, p. 8, pl. 1, fig. 9.

ME.—Square Lake; Cross Lake; Second Lake and Moosehead Lake.

**\*Planorbis trivolvis** Say.

Say, *Nich. Encycl.*, 1817, vol. 2, pl. 11, fig. 2. "FRENCH CREEK NEAR LAKE ERIE." Gould, *Inv. Mass.*, 1870, p. 488, fig. 740.

ME. to CONN.—Common in most of the ponds and streams.

**\*Planorbis trivolvis fallax** Haldeman.

Haldeman, *Monogr. Limniades*, 1844, no. 7, p. 15, pl. 3, figs. 1-3. "MASSACHUSETTS, LAKE ERIE, INDIANA.?"

*Planorbis lentus* Gould, *Inv. Mass.*, 1870, p. 490, fig. 741 (*non* Say).

ME.—Unity.

Vt.

MASS.—Revere; Mystic Lake, Arlington.

**\*Planorbis binneyi** Tryon.

Tryon, *Amer. Journ. Conch.*, 1867, vol. 3, p. 197.

*Planorbis corpulentus* Gould, *U. S. Expl. Exped. under Wilkes*, 1852, vol. 12, p. 113; *Atlas*, pl. 8, figs. 130, a, b (*non* Say). "COLUMBIA RIVER, OREGON."

*Planorbis trivolvis* Gould, Inv. Mass., 1870, p. 488 (in part),  
fig. 740.

VT.—Lake Champlain.

MASS.—Dalton (Winkley).

\****Planorbis campanulatus* Say.**

Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 166.  
“CAYUGA LAKE, [NEW YORK].” Gould, Inv. Mass., 1870, p. 492,  
fig. 743.

ME. to CONN.—Common in most of the lakes and streams.

\****Planorbis (Menetus) exacuous* Say.**

*Planorbis exacuous* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1,  
vol. 2, p. 165. “LAKE CHAMPLAIN.”

*Planorbis exacutus* Gould, Inv. Mass., 1870, p. 495, fig. 746.

ME.—Norway.

VT.—Burlington; Chimney Point, Lake Champlain.

MASS.—Lynnfield; Cambridge; Concord.

R. I.—Valley Falls Pond; near Pawtucket (Carpenter).

CONN.—Tashua Church Brook (Linsley); West River, near  
New Haven.

\****Planorbis (Gyraulus) hirsutus* Gould.**

*Planorbis hirsutus* Gould, Amer. Journ. Sci., 1840, ser. 1, vol. 38,  
p. 196. [MANSFIELD, MASS.] Gould, Inv. Mass., 1870, p. 493,  
fig. 744.

*Planorbis albus* Binney, Smithson. Misc. Coll., 1865, vol. 7, art. 2,  
p. 132, figs. 219–221 (*non* Müller).

ME.—Portage Lake; Rockland.

VT.

MASS.—Cambridge; Dedham; Dorchester; Sharon; Duxbury;  
Wareham.

R. I.—Providence and Worcester Canal; Valley Falls.

CONN.—Stonington; New Haven.

**\**Planorbis (Gyraulus) deflectus* Say.**

*Planorbis deflectus* Say, Narrative Long's Exped., 1824, vol. 2, p. 261, pl. 15, fig. 8. "NORTH-WEST TERRITORY." Gould, Inv. Mass., 1870, p. 494, fig. 745.

*Planorbis virens* Adams, Amer. Journ. Sci., 1840, ser. 1, vol. 39, p. 374.

ME.—Portage Lake.

VT.

MASS.—Winchester; Lynnfield; New Bedford; Cambridge.

R. I.—Valley Falls Pond.

CONN.—Bantam Lake, Litchfield; near New Haven.

**\**Planorbis (Gyraulus) dilatatus* Gould.**

*Planorbis dilatatus* Gould, Inv. Mass., 1841, p. 210, fig. 140. "NANTUCKET \*\*\* HINGHAM, [MASS.]." Gould, Inv. Mass., 1870, p. 498, fig. 748.

ME.—Harrison.

MASS.—Magnolia; Duxbury; Plymouth.

R. I.—Smithfield.

CONN.—Yantic River, Norwich; Stratford and near New Haven.

**\**Planorbis (Gyraulus) parvus* Say.**

*Planorbis parvus* Say, Nich. Encycl., 1817, vol. 2, pl. 1, fig. 5. "DELAWARE RIVER." Gould, Inv. Mass., 1870, p. 497, fig. 747.

*Planorbis elevatus* C. B. Adams, Boston Journ. Nat. Hist., 1840, vol. 3, p. 327, pl. 3, fig. 16.

ME.—Barren Brook, Caribou; Portland; Rockland.

N. H.—Keene.

VT.—Burlington.

MASS.—Revere; Norfolk and Plymouth Counties; Pittsfield.

R. I.—Cunliff's Pond, Elmville.

**\**Planorbis (Armiger) crista* (Linné).**

Dall, Harriman Alaska Exped., 1905, vol. 13, p. 96.

*Nautilus crista* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 709.  
“ IN GERMANIAE PALUDIBUS.”

*Planorbis nautiloides* Gray, Turton’s Manual Land and Fresh-water Shells, 1857, p. 236, pl. 8, fig. 94.

ME.— Barren Brook, Caribou (Nylander).

\***Segmentina armigera** (Say).

Gould, Inv. Mass., 1870, p. 499, figs. 749, 750.

*Planorbis armigerus* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 164. “ UPPER MISSOURI.”

ME.— Bangor; Monmouth; North Warren.

Vt.— Burlington; Chimney Point.

MASS.— Auburndale; Cohasset; Revere; Andover.

R. I.— Tiverton.

**Segmentina jenksii** (H. F. Carpenter).

Davis, The Apteryx, 1905, vol. 1, p. 117, pl. 9, figs. A. B.

*Planorbis jenksii* Carpenter, Central Falls Visitor, March 2, 1871; Conch. Exch., 1887, vol. 2, p. 2. “ NEAR HAMMOND’S POND, PAWTUCKET, R. I.”

R. I.— Near Hammond’s Pond, Pawtucket.

ANCYLIDAE.

\***Ancylus fuscus** C. B. Adams.

Adams, Boston Journ. Nat. Hist., 1840, vol. 3, p. 329, pl. 3, fig. 17. “ ANDOVER \* \* \* MANSFIELD, [MASS.].” Walker, Nautilus, 1903, vol. 17, p. 15, pl. 1, figs. 1-9.

MASS.— Fresh Pond, Cambridge; Winchester.

CONN.— Near New Haven.

\***Ancylus rivularis** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 125. [UNITED STATES.] Walker, Nautilus, 1904, vol. 18, pp. 16, 25, pl. 1, figs. 1-10, 13-15.

ME.—Collins' Millpond, Caribou (Nylander).

MASS.

\***Ancylus tardus** Say.

Say, New Harmony (Ind.) Disseminator, Jan. 15, 1831. "WABASH RIVER." Walker, Nautilus, 1904, vol. 18, p. 27, pl. 1, figs. 11, 12, 16-23.

ME.—Aroostook River, Caribou; Orono.

VT.—Hartland.

\***Ancylus parallelus** Haldeman.

Haldeman, Monogr. Limniades, 1841, no. 2, p. [3] of cover. "VERMONT." *Ibid.*, 1844, no. 7, *Ancylus*, p. 11, pl. 1, fig. 6. Walker, Nautilus, 1904, vol. 18, p. 77, pl. 5, figs. 1-9.

*Ancylus rivularis* Gould, Inv. Mass., 1841, p. 224, fig. 153 (*non* Say).

ME.—Collins' Millpond, Caribou Stream, Caribou; Cross Lake; Salmon Brook, Woodland (Nylander).

**Ancylus ovalis** Morse.

Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 44, figs. 101, 102. "BETHEL, ME." Walker, Nautilus, 1904, vol. 18, p. 79.

ME.—Androscoggin River, at Bethel.

**Ancylus borealis** Morse.

Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 45, figs. 103, 104. "PATTEN, [ME.]" Walker, Nautilus, 1904, vol. 18, p. 80, pl. 6, figs. 14-16.

ME.—Patten (Morse); St. John River, at Fort Kent (Nylander).

**Ancylus novangliae** Walker.

*Ancylus (Ferrissia) novangliae* Walker, Nautilus, 1908, vol. 21, p. 138, pl. 9, figs. 5-7. "CAMBRIDGE, MASS."

MASS.—A small pond near Cambridge.

**Ancylus pumilus** Sterki.

Sterki, Eighth Ann. Rept. Ohio State Acad. Sci., 1900, p. 36.  
[TUSCARAWAS COUNTY, OHIO.] Walker, Nautilus, 1904, vol. 18,  
p. 82, pl. 6, figs. 20-22.

ME.—Orono.

STYLOMMAТОPHORA.

## HELICIDAE.

**\*Helix (Tachea) hortensis** Müller.

*Helix hortensis* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2,  
p. 52. [EUROPE.] Gould, Inv. Mass., 1870, p. 429, fig. 688.

*Helix subglobosa* Binney, Boston Journ. Nat. Hist., 1867, vol. 1,  
p. 485, pl. 17.

*Tachea hortensis* Morse, Journ. Portland Soc. Nat. Hist., 1864,  
vol. 1, p. 10, fig. 11.

ME.—Cape Porpoise; Brown Cow, Inner Green and Cliff  
Islands, Casco Bay; Pumpkin Knob; Seal Rock; Little Egg Rock;  
Spruce Head; Bar Harbor; Little Duck Island; Isle au Haute.

MASS.—Rockport; Gloucester; Magnolia; Manchester; Salt,  
Eagle, House, and Kettle Islands; Cohasset; Provincetown;  
Chatham; Nantucket; Marthas Vineyard; Tuckernuck and  
Chappaquiddic Islands.

?CONN.—Weston (Linsley).

NOTE.—*Helix aspersa* Müller was recorded by Binney from Portland,  
Me., in 1869. It was also introduced at Woods Hole, Mass., in 1883  
(Bull. U. S. Fish Comm., 1884, vol. 4, p. 87). There is now no evidence  
of its existence at either locality.

**\*Hygromia hispida** (Linné).

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 274.

*Helix hispida* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 771.  
“SVECIA.”

*Fruticicola hispida* Binney, Bull. U. S. Nat. Mus., 1885, no. 28,  
p. 464, fig. 505.

ME.—Rockland (Lermond).

MASS.—Marthas Vineyard, near Gay Head (Thomson).

**Hygromia rufescens** (Pennant).

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 274.

*Helix rufescens* Pennant, Brit. Zool., 1777, vol. 4, p. 134, pl. 85, fig. 127. [ENGLAND.]

*Fruticicola rufescens* Binney, Bull. U. S. Nat. Mus., 1885, no. 28, p. 464, fig. 506.

MASS.—Naushon Island, near the "French water place" (Thomson).

**\*Polygyra tridentata** (Say).

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 76.

*Helix tridentata* Say, Nich. Encycl., 1816, vol. 2, pl. 2, fig. 1. "MIDDLE STATES." Gould, Inv. Mass., 1870, p. 422, fig. 680.

*Triodopsis tridentata* Binney, Bull. U. S. Nat. Mus., 1885, no. 28, p. 291, fig. 312.

N. H.—Concord; Squam Lake.

Vt.—Burlington; St. Johnsbury; Newport; Coventry; Mt. Equinox; Sudbury; Mt. Ascutney.

MASS.—North Adams; Williamstown; Bashbish Falls; Chester.

CONN.—Stratford; Greenwich.

**\*Polygyra sayana** Pilsbry.

Pilsbry, Proc. Acad. Nat. Sci. Phila., 1906, p. 127.

*Helix diodonta* Say, Narrative Long's Exped., 1824, vol. 2, p. 257, pl. 15, fig. 4 (*non* Muhlfeld). "NEW YORK."

*Helix sayii* A. Binney, Boston Journ. Nat. Hist., 1840, vol. 3, p. 379, pl. 16 (*non* Wood, 1828).

ME.—Caribou; Woodland; Capens, Moosehead Lake; Bethel; Bangor; Bridgeton.

## N. H.

Vt.—St. Johnsbury; Mt. Equinox; Mt. Ascutney.

MASS.—Westport; Williamstown; North Adams.

R. I.—Tiverton (Thomson).

**\*Polygyra albolabris (Say).**

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 76.

*Helix albolabris* Say, Nich. Encycl., 1816, vol. 2, pl. 1, fig. 1.  
[UNITED STATES.]

*Mesodon albolabris* Binney, Bull. U. S. Nat. Mus., 1885, no. 28,  
p. 298, fig. 319.

ME. to CONN.—Common in the woods and on many of the  
islands along the coast.

**Polygyra albolabris dentata (Tryon).**

*Mesodon albolabris dentata* Tryon, Amer. Journ. Conch., 1867,  
vol. 3, p. 39, pl. 7, fig. 6. “MAINE, MASSACHUSETTS, PENNSYLVANIA,  
OHIO, IOWA, ILLINOIS, MICHIGAN, &c.”

## MASS.

R. I.—Tiverton.

**\*Polygyra dentifera (A. Binney).**

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 77.

*Helix dentifera* A. Binney, Boston Journ. Nat. Hist., 1837, vol. 1,  
p. 494, pl. 21. “VERMONT.”

*Mesodon dentiferus* Binney, Bull. U. S. Nat. Mus., 1885, no. 28,  
p. 312, fig. 333.

ME.—Caribou; Woodland; Capens, Moosehead Lake; Bethel.

N. H.—Fitzwilliam.

Vt.—East side of the Green Mts. (Adams); Mt. Ascutney.

MASS.—Chester; North Adams.

**\*Polygyra thyroidus (Say).**

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 77.

*Helix thyroidus* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 123. [UNITED STATES.]

*Mesodon thyroides* Binney, Bull. U. S. Nat. Mus., 1885, no. 28, p. 313, fig. 335.

ME.

VT.

MASS.—Cohasset; New Bedford; Westport; Dartmouth; Swansea; Williamstown; Blue Hill; Naushon Id.; Clarendon Hill.

R. I.—Tiverton; Cumberland.

CONN.—Greenwich.

**\*Polygyra palliata (Say).**

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 77.

*Helix palliata* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 152. "ILLINOIS."

*Triodopsis palliata* Binney, Bull. U. S. Nat. Mus., 1885, no. 28, p. 284, fig. 303.

VT.—Mt. Ascutney, Windsor Co.; Orange Co.

MASS.—Berkshire Co.

**\*Polygyra hirsuta (Say).**

Pilsbry, Manual Conch., 1894, ser. 2, vol. 9, p. 78.

*Helix hirsuta* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 17. [UNITED STATES.]

*Stenotrema hirsutum* Binney, Bull. U. S. Nat. Mus., 1885, no. 28, p. 278, fig. 295.

MASS.—Pittsfield (Roper).

CONN.—Stonington; Weston; New Haven; Greenwich.

**\*Polygyra fraterna (Say).**

Walker, Rept. Geol. Surv. Mich., 1906, p. 470, fig. 23.

*Helix fraterna* Say, Narrative Long's Exped., 1824, vol. 2, p. 257, pl. 15, fig. 3. "PENNSYLVANIA."

*Helix monodon* Gould, Inv. Mass., 1870, p. 418, fig. 678.

*Stenotrema monodon* Binney, Bull. U. S. Nat. Mus., 1885, no. 28, p. 280, fig. 298.

ME.—Caribou; Capens, Moosehead Lake; Bethel; Prospect; Ironbound Id.

N. H.—Livermore; Glen House; Jackson.

Vt.—St. Johnsbury; Hartford; Burlington; Mt. Equinox; Mt. Ascutney.

Mass.—Williamstown; North Adams; Westport; Westfield.

R. I.—Tiverton.

Conn.—Orange; Stratford; New Haven; Greenwich.

#### CIRCINARIIDAE.

##### \**Circinaria concava* (Say).

Walker, Rept. Geol. Surv. Mich., 1906, p. 472, figs. 25–28.

*Helix concava* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 159. "ILLINOIS AND MISSOURI."

*Macrocyklis concava* Gould, Inv. Mass. 1870, p. 406, fig. 668.

ME.—Bethel; Oxford Co.

Vt.—St. Johnsbury; Cloak Island, Lake Champlain; Manchester; Newport.

Mass.—North Adams.

#### ZONITIDAE.

##### \**Omphalina fuliginosa* (Griffith).

Walker, Rept. Geol. Surv. Mich., 1906, p. 474, figs. 29–32.

*Helix fuliginosa* Griffith in Gould, Boston Journ. Nat. Hist., 1840, vol. 3, p. 417, pl. 24. "SOUTHERN, MIDDLE, AND WESTERN STATES."

*Zonites fuliginosa* Gould, Inv. Mass., 1870, p. 454, fig. 714.

Vt.—Mt. Equinox.

MASS.—Bashbush Falls.

CONN.—Stratford; Greenwich.

\***Omphalina inornata** (Say).

Walker, Rept. Geol. Surv. Mich., 1906, p. 475, fig. 33.

*Helix inornata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 371. "PENNSYLVANIA."

*Zonites inornata* Gould, Inv. Mass., 1870, p. 453, fig. 712.

Vt.—Middlebury (Adams).

MASS.—North Adams; Chester.

\***Vitrina limpida** Gould.

Gould, Agassiz's Lake Superior, 1850, p. 243. "CAPE GOURGANNE, [LAKE SUPERIOR]." Gould, Inv. Mass., 1870, p. 394, fig. 653.

*Vitrina pellucida* Adams in Thompson's Hist. Vt., 1842, p. 162.

ME.—Caribou; Fort Kent; Presque Isle; Orono; Bethel; Mt. Desert; near Portland and on several islands in Casco Bay.

Vt.

MASS.—Westport.

\***Vitrea cellaria** (Müller).

Walker, Rept. Geol. Surv. Mich., 1906, p. 477, fig. 41.

*Helix cellaria* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 28. "IN CELLIS VINARIIS HAVNIAE."

*Hyalina cellaria* Gould, Inv. Mass., 1870, p. 395, fig. 654.

A European species introduced by commerce.

ME.—Portland; Saco; Castine.

MASS.—Salem; Marblehead; Lynn; Boston; New Bedford; Newtonville.

R. I.—Providence; Pawtucket.

CONN.—Huntington.

\***Vitrea hammonis** (Ström).

Baker, Bull. Chicago Acad. Sci., 1902, no. 3, pt. 2, p. 180, figs. 36 (2), 37.

*Helix hammonis* Ström, Trondhjem. Selsk. Skrift., 1765, vol. 3, p. 435, fig. 16. [NORWAY.]

*Helix radiatula* Alder, Trans. Nat. Hist. Soc. Northumberland, Durham, Newcastle-upon-Tyne, 1831, vol. 1, p. 38.

*Hyalina electrina* Gould, Inv. Mass., 1870, p. 397, fig. 656.

ME. to CONN.—A common and widely distributed species.

\***Vitrea binneyana** (Morse).

Walker, Rept. Geol. Surv. Mich., 1906, p. 479, fig. 44.

*Hyalina binneyana* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 13, text-fig. 25; pl. 2, fig. 9; pl. 4, fig. 13; pl. 6, fig. 26. [MAINE.] Gould, Inv. Mass., 1870, p. 400, fig. 659.

ME.—Caribou; Woodland; Bethel; Orono; Ironbound Id.

N. H.—Three-Mile Island, Lake Winnipesaukee.

VT.—Burlington.

MASS.—Cambridge; Westport; Lexington.

R. I.

\***Vitrea wheatleyi** (Bland).

Walker, Rept. Geol. Surv. Mich., 1906, p. 478, fig. 43.

*Zonites wheatleyi* Bland, Ann. N. Y. Acad. Sci., 1882, vol. 2, p. 368, fig. 1. "KNOXVILLE, TENNESSEE \* \* \* TIVERTON, RHODE ISLAND."

R. I.—Tiverton, "rare, found with *H. ferrea*" (Thomson).

\***Vitrea indentata** (Say).

Walker, Rept. Geol. Surv. Mich., 1906, p. 480, fig. 48.

*Helix indentata* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 372. "HARRIGATE, [PHILADELPHIA]."

*Hyalina indentata* Gould, Inv. Mass., 1870, p. 398, fig. 657.

ME.—Cape Elizabeth.

VT.

MASS.—Revere; Brookline; Westport; Cohasset; North Adams; Duxbury; Magnolia.

R. I.—Tiverton.

CONN.—Plymouth.

**Vitrea rhoadsi** Pilsbry.

Pilsbry, Nautilus, 1899, vol. 12, p. 101. "NEW JERSEY: WHITE POND, WARREN COUNTY." Pilsbry, Nautilus, 1906, vol. 19, p. 109, fig. 1.

ME.—Buckfield; Kennebunkport; South Portland.

CONN.—West Granby, Hartford Co.

○ \***Vitrea multidentata** (Binney).

Walker, Rept. Geol. Surv. Mich., 1906, p. 481, fig. 50.

*Helix multidentata* A. Binney, Boston Journ. Nat. Hist., 1840, vol. 3, p. 425, pl. 22, fig. 5. "VERMONT, ON THE EASTERN SLOPES OF THE GREEN MOUNTAINS."

*Hyalina multidentata* Gould, Inv. Mass., 1870, p. 404, fig. 666.

ME.—Cumberland and Oxford Cos.; Buxton; Norway.

VT.—Middlebury; Hartland.

MASS.—Westport.

R. I.—Tiverton (Thomson).

○ \***Striatura ferrea** Morse.

Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 17, figs. 36-39. [MAINE.]

*Hyalina ferrea* Gould, Inv. Mass., 1870, p. 401, fig. 663.

ME.—Bethel; Orono; Caribou; Woodland; Ironbound Id.

MASS.—Waverly; Duxbury; Westfield.

R. I.—Tiverton (Thomson).

**\*Striatura milium (Morse).**

Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 18, fig. 41.

*Helix milium* Morse, Proc. Boston Soc. Nat. Hist., 1859, vol. 7, p. 28. "MAINE."

*Hyalina milium* Gould, Inv. Mass., 1870, p. 401, fig. 662.

ME.—Bethel; Augusta; Portland; Orono; Woodland; Mt. Desert; Saco.

N. H.—Deering.

MASS.—Cambridge; Lexington; Duxbury.

R. I.—Tiverton.

**\*Euconulus fulvus (Müller).**

Walker, Rept. Geol. Surv. Mich., 1906, p. 482, fig. 53.

*Helix fulva* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 56.  
[EUROPE.]

*Conulus fulvus* Pilsbry, Nautilus, 1899, vol. 12, p. 115.

ME.—Woodland; Buckfield; Moosehead; Mt. Desert; Westbrook; Kennebunkport.

MASS.—Cambridge; New Bedford; Westfield.

**\*Euconulus chersinus (Say).**

*Helix chersina* Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 156. "SEA ISLANDS OF GEORGIA."

*Hyalina chersina* Gould, Inv. Mass., 1870, p. 402, fig. 664.

*Conulus chersina* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 19, fig. 46.

*Euconulus chersinus polygyratus* Walker, Rept. Geol. Surv. Mich., 1906, p. 482, fig. 54.

ME.—Fort Kent; Bucksfield; Kennebunkport.

VT.

MASS.

**\*Zonitoides nitida (Müller).**

Walker, Rept. Geol. Surv. Mich., 1906, p. 483, fig. 57.

*Helix nitida* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 32. "IN SCALA LAPIDEA HORTI FRIDRICIISBERGENSIS."

*Hyalina nitida* Binney and Bland, Smithson. Misc. Coll., 1869, vol. 8, art. 3, p. 31, figs. 35, 63.

ME.—Bar Harbor.

MASS.—Dorchester.

R. I.—Tiverton.

\***Zonitoides arborea** (Say).

Walker, Rept. Geol. Surv. Mich., 1906, p. 484, fig. 58.

*Helix arboreus* Say, Nich. Encycl., 1817, pl. 4, fig. 4. [UNITED STATES.]

*Hyalina arborea* Gould, Inv. Mass., 1870, p. 396, fig. 655.

ME. to CONN.—Common on decaying logs and stumps.

**Zonitoides (Pseudohyalina) minuscula** (Binney).

Walker, Rept. Geol. Surv. Mich., 1906, p. 485, fig. 60.

*Helix minuscula* Binney, Boston Journ. Nat. Hist., 1840, vol. 3, p. 435, pl. 22, fig. 4. "OHIO."

*Pseudohyalina minuscula* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 16, fig. 34.

*Hyalina minuscula* Gould, Inv. Mass., 1870, p. 399, fig. 658.

ME.—Vicinity of Portland; Kennebunk; Rockland; North Haven.

VT.

MASS.—Westport; Duxbury; Blackstone.

R. I.—Tiverton.

CONN.—Hartford; Whittemore; New Haven.

\***Zonitoides (Pseudohyalina) exigua** (Stimpson).

Walker, Rept. Geol. Surv. Mich., 1906, p. 485, fig. 61.

*Helix exigua* Stimpson, Proc. Boston Soc. Nat. Hist., 1850, vol. 3, p. 175. "MASSACHUSETTS, VICINITY OF BOSTON."

*Pseudohyalina exigua* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 16.

*Hyalina exigua* Gould, Inv. Mass., 1870, p. 400, figs. 660, 661.

ME.—Caribou; Woodland; Orono; Bethel; Mt. Desert.

MASS.—Cambridge; Salem; Westport; Duxbury; Wareham.  
R. I.

CONN.—Stony Creek, New Haven.

◦ **Gastropoda suppressa** (Say).

Walker, Rept. Geol. Surv. Mich., 1906, p. 488, fig. 71.

*Helix suppressa* Say, New Harmony (Ind.) Disseminator, 1829, vol. 2, p. 229. "PENNSYLVANIA."

*Zonites suppressa* Gould, Inv. Mass., 1870, p. 454, fig. 713.

CONN.

LIMACIDAE.

\***Limax maximus** Linné.

Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 652. No locality.  
Gould, Inv. Mass., 1870, p. 407, fig. [669.]

Introduced and gradually spreading inland from the seaports.

ME.—Portland; Bar Harbor.

MASS.—Boston; Cambridge; Auburndale; Wellesley; Milton.  
R. I.—Newport.

CONN.

**Limax flavus** Linné.

Linné, Syst. Nat., ed. 10, 1758, vol. 2, p. 652. No locality.  
Gould, Inv. Mass., 1870, p. 410, fig. 672.

*Limax variegatus* Binney, Terr. Moll., 1851, vol. 2, p. 34, pl. 65, fig. 1.

Introduced and confined chiefly to the seaports.

ME.—Portland.

MASS.—Boston; Cambridge; New Bedford.

CONN.—New Haven.

\***Agriolimax agrestris** (Linné).

Walker, Rept. Geol. Surv. Mich., 1906, p. 489, figs. 72–74.

*Limax agrestris* Linné, Syst. Nat., ed. 10, 1758, vol. 2, p. 652.

No locality. Gould, Inv. Mass., 1870, p. 408, fig. 670.

*Limax tunicata* Gould, Inv. Mass., 1841, p. 3.

Introduced from Europe and widely distributed.

ME.—Portland; Mt. Desert.

MASS.—Boston; Cambridge; New Bedford; Cohasset; Duxbury.

CONN.—Northfield; New Haven.

\***Agriolimax laevis campestris** (Binney).

Taylor, Monogr. Land and Freshwater Moll. Brit. Isles, 1907, pt. 10, p. 132, fig. 145.

*Limax campestris* Binney, Proc. Boston Soc. Nat. Hist., 1842 (?), vol. 1, p. 52. "NEW ENGLAND STATES, NEW YORK, OHIO, MISSOURI." Gould, Inv. Mass., 1870, p. 409, fig. 671.

ME. to CONN.—Common under wood and stones.

### ARIONIDAE.

\***Arion hortensis** Féruccac.

Féruccac, Tabl. Syst. des Anim. Moll., 1819, pt. 1, Hist. Nat. Pulmonés sans Opercule, p. 65, pl. 2, figs. 4, 5. "PARIS, [FRANCE]." Taylor, Monogr. Land and Freshwater Moll. Brit. Isles, 1907, pt. 11, p. 210, pl. 24.

*Arion fuscus* Gould, Inv. Mass., 1870, p. 451, fig. 711.

Introduced from Europe.

ME.—Portland.

MASS.—Ipswich; Boston; Cohasset; New Bedford; Chester; Arlington.

CONN.—New Haven.

***Arion subfuscus cinereo-fuscus* (Draparnaud).**

Taylor, Monogr. Land and Freshwater Moll. Brit. Isles, 1907, pt. 11, p. 193, pl. 24.

*Limax subfuscus cinereo-fuscus* Draparnaud, Hist. Nat. Moll. France, 1805, p. 125, pl. 9, fig. 8. [FRANCE.]

Introduced from Europe.

MASS.—Jamaica Plain, Boston (Cockerell, Nautilus, 1905, vol. 19, p. 84).

## PHILOMYCIDAE.

**\**Philomycus carolinianus* (Bosc).**

*Limax carolinianus* Bosc, Hist. Nat. des Vers, suites à Buffon, ed. Déterville, 1802, vol. 1, p. 80, pl. 3, fig. 1. "L'AMÉRIQUE SEPTENTRIONALE."

*Limax togata* Gould, Inv. Mass., 1841, p. 3.

*Tebennophorus carolinensis* Gould, Inv. Mass., 1870, p. 457, fig. 716.

*Philomycus carolinensis* Baker, Bull. Chicago Acad. Sci., 1902, no. 3, pt. 2, p. 201, pl. 30, fig. 1.

ME.—Capens, Moosehead Lake; Isle au Haute.

N. H.

Vt.

MASS.—Cohasset; Westport; Uxbridge; North Adams; Chester.

CONN.—Stratford.

***Philomycus pennsylvanicus* Pilsbry.**

Pilsbry, Proc. Acad. Nat. Sci. Phila., 1894, p. 22. "YORK FURNACE, YORK CO., PA. \*\*\* SOUTH MOUNTAIN, NEAR PA. AND MD. STATE BOUNDARY."

N. H.—Mt. Monadnock (Dr. W. H. Dall).

***Pallifera dorsalis* (Binney).**

Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 8, fig. 5, pl. 3, fig. 6.

*Philomycus dorsalis* Binney, Proc. Boston Soc. Nat. Hist., 1842 (?), vol. 1, p. 52. "MASSACHUSETTS AND VERMONT."

*Tebennophorus dorsalis* Gould, Inv. Mass., 1870, p. 460, fig. 717.

ME.—Isle au Haute.

VT.

MASS.—Westport.

#### ENDODONTIDAE.

##### \***Pyramidula alternata** (Say).

Baker, Bull. Chicago Acad. Sci., 1902, no. 3, pt. 2, p. 206, pl. 28, figs. 19, 21–24.

*Helix alternata* Say, Nich. Encycl., 1817, vol. 2, pl. 1, fig. 2. "MIDDLE STATES." Gould, Inv. Mass., 1870, p. 412, fig. 673.

*Anguispira alternata* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 11, text-fig. 15; pl. 4, fig. 16.

ME. to CONN.—Common in woods under decaying logs.

##### \***Pyramidula cronkhitei anthonyi** Pilsbry.

Pilsbry, Proc. Acad. Nat. Sci. Phila., 1906, p. 153.

*Helix striatella* Anthony, Boston Journ. Nat. Hist., 1840, vol. 3, p. 278, pl. 3, fig. 2 (*non* Rang, 1831). "CINCINNATI, [OHIO]." Gould, Inv. Mass., 1870, p. 413, fig. 674.

*Patula striatella* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 21, text-fig. 48; pl. 2, fig. 6; pl. 8, fig. 49.

ME. to CONN.—Common under the bark of decaying logs.

##### \***Pyramidula cronkhitei catskillensis** Pilsbry.

*Pyramidula striatella catskillensis* Pilsbry, Nautilus, 1898, vol. 12, p. 86. "TANNERSVILLE VALLEY, CATSKILL MOUNTAINS, N. Y.; WHITE POND, WARREN COUNTY, N. J."

MASS.—Mt. Greylock.

##### \***Pyramidula (Planogyra) asteriscus** (Morse).

Walker, Rept. Geol. Surv. Mich., 1906, p. 494, fig. 84.

*Helix asteriscus* Morse, Proc. Boston Soc. Nat. Hist., 1857, vol. 6, p. 128. "BETHEL, ME."

*Planogyra asteriscus* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 24, text-figs. 50-52; pl. 2, fig. 5; pl. 8, fig. 53.

ME.—Caribou; Woodland; Orono; Gorham.

MASS.—Salem; Westport.

\****Helicodiscus parallelus* (Say).**

Walker, Rept. Geol. Surv. Mich., 1906, p. 495, fig. 88.

*Helix lineata* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 18 (*non* Olivier).

*Planorbis parallelus* (sic) Say, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 164. "UPPER MISSOURI."

*Helicodiscus lineata* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 25, text-figs. 61, 62; pl. 2, fig. 3; pl. 8, fig. 63.

*Hyalina lineata* Gould, Inv. Mass., 1870, p. 404, fig. 667.

ME.—Woodland; Bethel; Mt. Desert; Little Duck Id.

Vt.—Newport; Burlington.

MASS.—Revere; Duxbury; Westfield; Blackstone; Magnolia; Cohasset; Brookline.

R. I.

CONN.—New Haven.

\****Punctum pygmaeum minutissimum* (Lea).**

*Helix minutissima* Lea, Trans. Amer. Phil. Soc., 1844, new ser., vol. 9, p. 17. "CINCINNATI [, OHIO]."

*Punctum minutissimum* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 27, text-figs. 69, 70; pl. 8, fig. 71.

*Hyalina minutissima* Gould, Inv. Mass., 1870, p. 403, fig. 665.

ME.—Caribou; Woodland; Orono; Bethel; Ironbound Id.

MASS.—Cambridge; Westport; Duxbury; Lexington; Westfield.

R. I.—Tiverton.

**\*Sphyradium edentulum** (Draparnaud).

Dall, Harriman Alaska Exped., 1905, vol. 13, p. 54, fig. 37.

*Pupa edentula* Draparnaud, Hist. Nat. Moll. France, 1805, p. 59, pl. 3, figs. 28, 29. [FRANCE.]

*Pupa simplex* Gould, Boston Journ. Nat. Hist., 1840, vol. 3, p. 403, pl. 3, fig. 21.

*Vertigo simplex* Gould, Inv. Mass., 1870, p. 444, fig. 706.

ME.—Woodland; Capens, Moosehead Lake; Orono; Mt. Desert.

N. H.—Francestown.

MASS.—Cambridge; Westport; Lexington.

## SUCCINEIDAE.

**\*Succinea retusa** Lea.

Lea, Trans. Amer. Phil. Soc., 1837, new ser., vol. 5, p. 117, pl. 19, fig. 86. "OHIO, NEAR CINCINNATI."

*Succinea ovalis* Gould, Inv. Mass., 1870, p. 445, fig. 707 (*non* Say, 1817).

ME. to CONN.—Common in moist places.

**\*Succinea ovalis** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 15. [NORTH AMERICA.]

*Succinea campestris* Gould, Inv. Mass., 1841, p. 195, fig. 126 (*non* Say).

*Succinea obliqua* Say, Narrative Long's Exped., 1824, vol. 2, p. 260, pl. 15, fig. 7. Gould, Inv. Mass., 1870, p. 447, fig. 709.

ME. to CONN.

**\*Succinea ovalis totteniana** Lea.

*Succinea totteniana* Lea, Proc. Amer. Phil. Soc., 1841, vol. 2, p. 32. "NEWPORT, R. I." Gould, Inv. Mass., 1870, p. 448, fig. 710.

ME.—Prospect; Ironbound Id.

N. H.—Francestown.

MASS.— Fresh Pond, Cambridge; Revere; Cohasset.  
R. I.— Newport.

\***Succinea avara** Say.

Say, Narrative Long's Exped., 1824, vol. 2, p. 260, pl. 15, fig. 6.  
“NORTH-WEST TERRITORY.” Gould, Inv. Mass., 1870, p. 446,  
fig. 708.

ME.— Square Lake; Mt. Desert; Ironbound Id; Monmouth.

MASS.— Wayland; Cambridge; Duxbury.

CONN.— New Haven.

PUPILLIDAE.

\***Strobilops labyrinthica** (Say).

Pilsbry, Proc. Acad. Nat. Sci. Phila., 1892, p. 404.

*Helix labyrinthica* Say, Journ. Acad. Nat. Sci. Phila., 1817,  
ser. 1, vol. 1, p. 124. [UNITED STATES.]

*Strobila labyrinthica* Morse, Journ. Portland Soc. Nat. Hist.,  
1864, vol. 1, p. 26, text-figs. 64–67; pl. 2, fig. 12, a–b; pl. 8, fig. 68.

ME.— Caribou; Woodland; Orono; Sebago Lake; Mt. Desert.

N. H.—Three Mile Island.

VT.

MASS.— Lynnfield; Dartmouth; Westport; Cambridge; Westfield.

CONN.— Stonington; Hartford; New Haven.

\***Strobilops virgo** (Pilsbry).

Walker, Rept. Geol. Surv. Mich., 1906, p. 506, fig. 120.

*Strobila labyrinthica* var. *virgo* Pilsbry, Nautilus, 1892, vol. 6,  
p. 94. “SEBEC LAKE, PISCATAQUIS CO., MAINE.”

ME.— Sebec Lake (Winkley); Bethel (Roper); Capens.

VT.— Burlington.

**Strobilos affinis** Pilsbry.

Pilsbry, *Nautilus*, 1893, vol. 7, pp. 56, 57. "NEW YORK, OHIO,  
ETC."

ME.—Bethel.

**\*Zoogenites harpa** (Say).

Morse, *Journ. Portland Soc. Nat. Hist.*, 1864, vol. 1, p. 32, pl. 1,  
figs. 1-3.

*Helix harpa* Say, *Narrative Long's Exped.*, 1824, vol. 2, p. 256,  
pl. 15, fig. 1. "NORTH-WEST TERRITORY."

*Pupa costulata* Mighels, *Proc. Boston Soc. Nat. Hist.*, 1844, vol. 1,  
p. 187.

*Acanthinula harpa* Binney, *Bull. U. S. Nat. Mus.*, 1885, no. 28,  
p. 185, fig. 183.

ME.—Fort Kent; Bethel; Waterville; Mt. Desert; North  
Haven; Sebago Lake.

N. H.—Berlin Falls; Wolfeboro.

Vt.

Mass.—Westport; High Pines, Duxbury Beach.

R. I.—Tiverton.

**\*Pupoides marginatus** (Say).

Pilsbry and Vanatta, *Proc. Acad. Nat. Sci. Phila.*, 1900, p. 586.

*Cyclostoma marginata* Say, *Journ. Acad. Nat. Sci. Phila.*, 1821,  
ser. 1, vol. 2, p. 172. "UPPER MISSOURI."

*Pupa fallax* Gould, *Inv. Mass.*, 1870, p. 436, fig. 696 (*non* Say).

Mass.—New Bedford.

R. I.—Tiverton.

**Bifidaria armifera** (Say).

Walker, *Rept. Geol. Surv. Mich.*, 1906, p. 510, fig. 132.

*Pupa armifera* Say, *Journ. Acad. Nat. Sci. Phila.*, 1821, ser. 1,  
vol. 2, p. 162. "UPPER MISSOURI." Gould, *Inv. Mass.*, 1870,  
p. 437, fig. 697.

Vt.

MASS.— Boston.

R. I.— Tiverton.

CONN.— New Haven.

\***Bifidaria contracta** (Say).

Walker, Rept. Geol. Surv. Mich., 1906, p. 510, fig. 133.

*Pupa contracta* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 374. "VIRGINIA." Gould, Inv. Mass., 1870, p. 438, fig. 698.

ME.— Bethel; Bangor.

Vt.— Burlington.

MASS.— Westport; Swampscott.

CONN.— Housatonic Valley.

\***Bifidaria pentodon** (Say).

Vanatta and Pilsbry, Nautilus, 1906, vol. 19, p. 122, pls. 6, 7, figs. 1-41.

*Vertigo pentodon* Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 376. "PENNSYLVANIA."

*Pupa curvidens* Gould, Inv. Mass., 1841, p. 189, fig. 120.

*Pupa pentodon* Gould, Inv. Mass., 1870, p. 434, figs. 693, 694.

ME.— Buckfield; Woodland; Bethel; Fairfield; Westbrook; Orono.

Vt.— Burlington.

MASS.— Cohasset; High Pines, Duxbury; Woburn.

R. I.

CONN.— New Haven.

**Bifidaria tappaniana** (C. B. Adams).

Vanatta and Pilsbry, Nautilus, 1906, vol. 19, p. 126, pl. 7, figs. 42-53.

*Pupa tappaniana* Adams, in Thompson's Hist. Vt., 1842, p. 158. [VERMONT.]

ME.—Buckfield.

VT.—Middlebury.

MASS.—Duxbury.

**Bifidaria corticaria** (Say).

Walker, Rept. Geol. Surv. Mich., 1906, p. 511, fig. 134.

*Odostomia corticaria* Say, Nich. Encycl., 1817, vol. 4, pl. 4, fig. 5.

*Pupa corticaria* Gould, Inv. Mass., 1870, p. 439, fig. 700.

ME.—Bethel; Gorham.

MASS.—Naushon Id.; Woburn.

CONN.—Orange.

**\*Pupilla muscorum** (Linné).

Walker, Rept. Geol. Surv. Mich., 1906, p. 513, figs. 137–140.

*Turbo muscorum* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 767.

“IN EUROPAE MUSCOSIS.”

*Pupa muscorum* Gould, Inv. Mass., 1870, p. 433, fig. 691.

ME.—Near Fort Preble; Ironbound Id.; Mt. Desert; Rockland.

MASS.—Provincetown; Dartmouth; Westport; High Pines, Duxbury.

**Pupilla muscorum unidentata** (C. Pfeiffer).

Walker, Rept. Geol. Surv. Mich., 1906, p. 514, fig. 141.

*Pupa unidentata* C. Pfeiffer, Naturgesch. Deutsch. Land- u. Süsswasser-Moll., 1821, vol. 1, p. 58, pl. 3, figs. 19, 20. “BEY CASSEL AUF DEM KRATZENBERGE, UND AUF DEM SCHLOSSE ZU FELSPERG, [GERMANY].”

*Pupa badia* Adams, Boston Journ. Nat. Hist., 1840, vol. 3, p. 331, pl. 3, fig. 18.

ME.—Thomaston.

**Vertigo modesta** (Say).

Dall, Harriman Alaska Exped., 1905, vol. 13, p. 29.

*Pupa modesta* Say, Narrative Long's Exped., 1824, vol. 2, p. 259, p. 15, fig. 5. “NORTH-WEST TERRITORY.”

*Pupa decora* Gould, Proc. Boston Soc. Nat. Hist., 1847, vol. 2, p. 263.

ME.—Cape Elizabeth.

MASS.

CONN.—Stonington.

\****Vertigo gouldii* (Binney).**

Gould, Inv. Mass., 1870, p. 440, fig. 701.

*Pupa gouldii* Binney, Proc. Boston Soc. Nat. Hist., 1843 (?), vol. 1, p. 105. "NORTH-EASTERN AND MIDDLE STATES."

*Isthmia gouldii* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 38, text-fig. 95; pl. 10, fig. 96.

ME.—Westbrook; Bethel; Woodland.

N. H.

MASS.—Cambridge; Roxbury; Westport.

R. I.—Tiverton.

CONN.—Northfield.

***Vertigo gouldii paradoxa* Sterki.**

Sterki, Nautilus, 1900, vol. 13, p. 103. "WOODLAND, [MAINE]."

ME.—Woodland, Aroostook Co. (Nylander).

\****Vertigo bollesiana* (Morse).**

Gould, Inv. Mass., 1870, p. 442, fig. 703.

*Isthmia bollesiana* Morse, Ann. Lyc. Nat. Hist. N. Y., 1865, vol. 8, p. 209, figs. 4-6. "MAINE \*\*\* NEW HAMPSHIRE; MASSACHUSETTS; NEW YORK; AND NORFOLK, VA."

ME.—Ironbound Id. (Blaney); Bethel.

N. H.—Francestown.

MASS.

\****Vertigo ventricosa* (Morse).**

Gould, Inv. Mass., 1870, p. 443, fig. 705.

*Isthmia ventricosa* Morse, Ann. Lyc. Nat. Hist. N. Y., 1865, vol. 8, p. 207, figs. 1-3. "MAINE; CONCORD, N. H.; MOHAWK AND GREENWICH, N. Y."

ME.—Woodland; Westbrook; Bethel; Ironbound Id.

N. H.—Concord (Morse).

CONN.—New Haven.

**Vertigo ventricosa elatior** Sterki.

Sterki, Land and Fresh Water Moll. New Philadelphia, Ohio, 1894, p. 5. [OHIO.]

ME.—Ironbound Id. (Blaney); Woodland; North Warren.

\***Vertigo ovata** Say.

Say, Journ. Acad. Nat. Sci. Phila., 1822, ser. 1, vol. 2, p. 375. "PENNSYLVANIA." Gould, Inv. Mass., 1870, p. 442, fig. 704.

ME.—Portland.

N. H.—Portsmouth.

Vt.—Middlebury; Hartland.

MASS.—Boston; Lynn; Cohasset; Westport; Duxbury.

R. I.—Tiverton.

CONN.—Stonington; Deep River; New Haven.

**Vertigo tridentata** Wolf.

Wolf, Amer. Journ. Conch., 1870, vol. 5, p. 198, pl. 17, fig. 1. "CANTON, ILLINOIS." Walker, Rept. Geol. Surv. Mich., 1906, p. 518, fig. 153.

ME.

**Vertigo (Vertilla) milium** (Gould).

Dall, Harriman Alaska Exped., 1905, vol. 13, p. 33, fig. 24.

*Pupa milium* Gould, Boston Journ. Nat. Hist., 1840, vol. 3, p. 402, pl. 3, fig. 23. "CHELSEA, [MASS.]."

ME.

VT.

MASS.—Oak Island; Chelsea; Westport; High Pines, Duxbury.

\***Vertigo (Isthmia) pygmaea** (Draparnaud).

Dall, Harriman Alaska Exped., 1905, vol. 13, p. 33.

*Pupa pygmaea* Draparnaud, Tableau, 1801, p. 57; Hist. Nat. Moll. France, 1805, p. 60, pl. 3, figs. 30, 31. [FRANCE.]

ME.

MASS.—Brookline; Waltham; Waverly.

**Vertigo nylanderi** Sterki.

Sterki, Nautilus, 1909, vol. 22, p. 107. "WOODLAND, AROOSTOOK COUNTY, MAINE."

ME.—Woodland.

COCHLICOPIDAE.

\***Cochlicopa lubrica** (Müller).

Dall, Harriman Alaska Exped., 1905, vol. 13, p. 33.

*Helix lubrica* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 104. [EUROPE.]

*Zua lubricoidea* Morse, Journ. Portland Soc. Nat. Hist., 1864, vol. 1, p. 30, text-figs. 79–81, 83, 84; pl. 10, fig. 82.

*Cionella subcylindrica* Gould, Inv. Mass., 1870, p. 431, fig. 690.

ME. to CONN.—Common in woods under leaves and bark.

VALLONIIDAE.

\***Vallonia pulchella** (Müller).

Pilsbry, Manual Conch., 1892, ser. 2, vol. 8, p. 248, pl. 32, figs. 1–5.

*Helix pulchella* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 30. [EUROPE.]

*Helix minuta* Say, Journ. Acad. Nat. Sci. Phila., 1817, ser. 1, vol. 1, p. 123.

ME.—Mt. Desert.

MASS.—New Bedford.

\***Vallonia excentrica** Sterki.

Sterki, Proc. Acad. Nat. Sci. Phila., 1893, p. 252, pl. 8, figs. B, M. [EUROPE AND EASTERN NORTH AMERICA.] Pilsbry, Manual Conch., 1892, ser. 2, vol. 8, p. 249, pl. 32, figs. 6-9.

ME.—Caribou; Saco; Cape Elizabeth; Cliff Island.

MASS.—Cambridge; Duxbury; New Bedford.

\***Vallonia costata** (Müller).

Pilsbry, Manual Conch., 1892, ser. 2, vol. 8, p. 252, pl. 32, figs. 18-22, 27; pl. 33, fig. 54.

*Helix costata* Müller, Verm. Terr. et Fluv. Hist., 1774, vol. 2, p. 31. "IN LOCO ELEVATO FRIDRICHSDALENSIS."

ME.—Great Cranberry Island; Rockland; Aroostook Co.

MASS.—Uxbridge; Cambridge.

## CEPHALOPODA.

DIBRANCHIA.

TEUTHIDAE.

DECAPODA.

**Lestoteuthis fabricii** (Lichtenstein).

Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 390, pl. 45, figs. 1-2d; pl. 49, figs. 1-1f; pl. 55, figs. 1-1d.

*Sepia loligo* Fabricius, Fauna Groenlandica, 1780, p. 358 (*non* Linné).

*Onychoteuthis fabricii* Lichtenstein, Isis, 1818, vol. 19.

*Chiloteuthis rapax* Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 293, pl. 49, figs. 1-1f.

*Onychoteuthis banksii* of authors, not of Leach.

Gulf of Maine.—“From the stomach of a cod off Seal Island” (Verrill).

**Abralia megalops** Verrill.

Verrill, Amer. Journ. Sci., 1882, ser. 3, vol. 24, p. 364. [OFF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1884, vol. 6, p. 143, pl. 28, fig. 2.

MASS.—Off Marthas Vineyard, 173 fathoms.

## OMMASTREPHIDAE.

**Ommastrephes illecebrosa** (Lesueur).

Verrill, Trans. Conn. Acad., 1880, vol. 5, p. 268, pl. 28; pl. 29, figs. 5, 5a; pl. 37, fig. 8; pl. 39.

*Loligo illecebrosa* Lesueur, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 95, pl. [10]. “SANDY BAY, [MASS].”

*Ommastrephes sagittatus* Gould, Inv. Mass., 1870, p. 510, pl. 26, figs. 341-344 (not *L. pavo*); not pl. 25, fig. 339, which really represents a *Loligo* (Verrill).

ME.—Casco Bay; Mt. Desert; Eastport.

MASS.—Gloucester; Salem; Provincetown; Vineyard Sound.

R. I.—Newport.

**Sthenoteuthis megaptera** (Verrill).

Verrill, Trans. Conn. Acad., 1880, vol. 5, p. 223, pl. 21, figs. 1-9.

*Architeuthis megaptera* Verrill, Amer. Journ. Sci., 1878, ser. 3, vol. 16, p. 207. "CAPE SABLE, N. S."

Gulf of Maine.—"Cast ashore, during a severe gale, near Cape Sable" (Verrill); Georges Bank, from a codfish.

CHIROTEUTHIDAE.

**Chiroteuthis lacertosa** Verrill.

Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 408, pl. 56, figs. 1-1f. "BROWN'S BANK, OFF NOVA SCOTIA."

*Chiroteuthis bonplandi* (?) Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 299 (*non* Verany).

Gulf of Maine.—Brown's Bank, from the stomach of a cod (Verrill).

**Brachioteuthis beanii** Verrill.

Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 406, pl. 55, figs. 3-3b; pl. 56, figs. 2-2a. "OFF MARTHA'S VINEYARD."

MASS.—Off Marthas Vineyard, in 183 to 368 fathoms; all from fish stomachs (Verrill).

HISTIOTEUTHIDAE.

**Histioteuthis collinsi** Verrill.

Verrill, Amer. Journ. Sci., 1879, ser. 3, vol. 17, p. 241. "OFF NOVA SCOTIA." Verrill, Trans. Conn. Acad., 1880-81, vol. 5, pp. 234, 300, 404, pls. 22, 26; pl. 27, figs. 3-5; pl. 37, fig. 5.

Georges Bank, northeastern part, in 180 fathoms.

## DESMOTEUTHIDAE.

**Taonius pavo** (Lesueur).

Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 306.

*Loligo pavo* Lesueur, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 96, pl. [11]. "SANDY-BAY, [MASS.]."

*Loligopsis pavo* Binney in Gould, Inv. Mass., 1870, p. 509, not pl. 26, figs. 341-344 (Verrill). Tryon, Manual Conch., 1879, ser. 1, vol. 1, p. 163, pl. 68, fig. 252; pl. 69, fig. 253.

MASS.— Sandy Bay, Cape Ann.

## SPIRULIDAE.

\***Spirula spirula** (Linné).

Hedley, Bull. New Zealand Colonial Mus., 1906, no. 1, p. 48.

*Nautilus spirula* Linné, Syst. Nat., ed. 10, 1758, vol. 1, p. 710. "AMERICA."

*Spirula fragilis* Gould, Inv. Mass., 1870, p. 516, fig. 755.

*Spirula peronii* Tryon, Manual Conch., 1879, ser. 1, vol. 1, p. 205, pl. 96, figs. 467-469; pl. 105, fig. 585.

MASS.— Nantucket; Marthas Vineyard; Muskeget and No Man's Land, 1904 (Sumner). Shells are occasionally cast upon the outer beaches.

## LOLIGINIDAE.

\***Loligo pealeii** Lesueur.

Lesueur, Journ. Acad. Nat. Sci. Phila., 1821, ser. 1, vol. 2, p. 92, pl. 8. "SOUTH CAROLINA?"

*Loligo pealii* Binney in Gould, Inv. Mass., 1870, p. 514, pl. 25, figs. 339, 340.

*Loligo punctata* DeKay, Nat. Hist. N. Y., Moll., 1843, p. 3, pl. 1, fig. 1.

ME.—Casco Bay.

MASS.—Vineyard Sound, 5 to 20 fathoms; Hyannis; Provincetown.

R. I.—Narragansett Bay; off Newport and Point Judith, 16 to 26 fathoms.

CONN.—New Haven; Noank, 3 to 8 fathoms.

**Loligo pealeii borealis** Verrill.

Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 19, p. 292. "ANNISQUAM, MASS." Verrill, Trans. Conn. Acad., 1881, vol. 5, pp. 308, 316, pl. 37, fig. 2; pl. 41, fig. 1.

MASS.—Gloucester; Salem; Provincetown; Massachusetts Bay, 47 fathoms.

**Loligo pealeii pallida** Verrill.

Verrill, Trans. Conn. Acad., 1881, vol. 5, pp. 308, 317, pl. 34, figs. 1-4; pl. 37, figs. 9-11; pl. 40, fig. 1.

*Loligo pallida* Verrill, Rept. Inv. Vineyard Sound, 1873, p. 635, pl. 20, figs. 101, 101a. "LONG ISLAND SOUND."

MASS.—Vineyard Sound, 5 to 16 fathoms; Nantucket Sound, 8 to 12 fathoms.

R. I.—Narragansett Bay, 6 to 12 fathoms; off Newport,  $4\frac{1}{2}$  to 16 fathoms.

CONN.—Fisher's Island Sound; off New Haven.

SEPIOLIDAE.

**Stoloteuthis leucoptera** (Verrill).

Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 418.

*Sepiola leucoptera* Verrill, Amer. Journ. Sci., 1878, ser. 3, vol. 16, p. 378. "GULF OF MAINE 30 MILES E. FROM CAPE ANN." Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 347, pl. 31, figs. 4, 5; pl. 54, fig. 4.

Gulf of Maine, 30 miles east of Cape Ann, 110 fathoms.

MASS.—Off Cape Cod, 94 to 122 fathoms; off Marthas Vineyard, 182 to 388 fathoms.

**Rossia hyatti** Verrill.

Verrill, Amer. Journ. Sci., 1878, ser. 3, vol. 16, p. 208. “MASSACHUSETTS BAY; \*\*\* OFF CAPE SABLE; \*\*\* OFF HALIFAX, [N. S.]” Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 351, pl. 27, figs. 8, 9; pl. 30, fig. 1; pl. 31, figs. 1, 2; pl. 46, fig. 5.

MASS.—Off Cape Ann, 6 to 14 miles, in 45 to 90 fathoms; off Gloucester  $4\frac{1}{2}$  to 8 miles, in 42 to 45 fathoms; off Cape Cod,  $6\frac{1}{2}$  to 15 miles, in 45 to 80 fathoms.

**Rossia sublaevis** Verrill.

Verrill, Amer. Journ. Sci., 1878, ser. 3, vol. 16, p. 209. “MASSACHUSETTS BAY.”

*Rossia sublaevis* Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 354, pl. 30, fig. 2; pl. 31, fig. 3; pl. 46, fig. 4; pl. 47, figs. 2-4.

MASS.—Off Cape Ann, 6 to 33 miles, in 54 to 110 fathoms; off Cape Cod, 11 to 15 miles, in 45 to 80 fathoms.

R. I.—Off Newport, 155 to 372 fathoms.

**Heteroteuthis tenera** Verrill.

Verrill, Amer. Journ. Sci., 1880, ser. 3, vol. 20, p. 392. [OFF MARTHAS VINEYARD.] Verrill, Trans. Conn. Acad., 1881, vol. 5, pp. 357, 419.

MASS.—Off Marthas Vineyard, 64 to 192 fathoms. Most abundant in 125 to 150 fathoms.

R. I.—Off Newport, 85 to 252 fathoms.

OCTOPODA.

PHILONEXIDAE.

**Parasira catenulata** (Férussac).

Verrill, Trans. Conn. Acad., 1881, vol. 5, p. 362, pl. 33, figs. 2, 2a. *Octopus catenulatus* Férussac, Poulpes, 1828, pls. 6, 6 bis, 6 ter.

*Octopus granulatus* Verrill, Amer. Journ. Sci., 1878, ser. 3, vol. 16, p. 210 (*non* Lamarck).

Mass.—Vineyard Sound.

#### ARGONAUTIDAE.

##### ***Argonauta argo americana* Dall.**

Dall, Bull. U. S. Nat. Mus., 1889, no. 37, pp. 174, 200, pl. 43, figs. 1a–b; pl. 64, fig. 142b; pl. 67, figs. 1–3. [SOUTHEASTERN COAST UNITED STATES.]

*Argonauta argo* Verrill, Trans. Conn. Acad., 1881, vol. 5, pp. 364, 420; *Ibid.*, 1884, vol. 6, p. 247, pl. 28, figs. 1–1b.

Mass.—Off Marthas Vineyard, 64 to 365 fathoms.

#### POLYPODIDAE.

##### **\**Polypus arcticus* (Prosch.).**

Hoyle, Journ. Conch., 1902, vol. 10, pp. 197, 204.

*Octopus arcticus* Prosch, Kong. Dansk. Vid. Selsk. Skrift., 1849, ser. 5, nat. math. afd., vol. 1, p. 59. "GRÖNLAND."

*Octopus bairdii* Verrill, Amer. Journ. Sci., 1873, ser. 3, vol. 5, p. 5; Trans. Conn. Acad., 1881, vol. 5, p. 368, pl. 33, figs. 1, 1a; pl. 34, figs. 5, 6; pl. 36, fig. 10; pl. 38, fig. 8; pl. 49, figs. 4, 4a; pl. 51, figs. 1, 1a.

ME.—Off Eastport, 75 to 80 fathoms; off Casco Bay, 50 to 95 fathoms (Verrill).

MASS.—Off Cape Ann, 5 to 13 miles, in 42 to 75 fathoms; off Gloucester,  $4\frac{1}{2}$  miles, in 43 to 45 fathoms; off Cape Cod, 14 to 15 miles, in 70 to 94 fathoms; off Marthas Vineyard, 120 to 410 fathoms.

R. I.—Off Newport, 85 to 192 fathoms (Verrill).



## INDEX TO GENERA AND SUBGENERA.

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FAUNA OF NEW ENGLAND.

14.

LIST OF THE HEMIPTERA-HETEROPTERA.

BY HOWARD M. PARSHLEY.

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BOSTON:  
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### **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, and to an authentic description and illustration except in case of groups for which recent check-lists have been issued; and 3d, habitat and occurrence.

The Committee considers these lists a necessary preliminary to a series of comprehensive, illustrated monographs, the publication of which the Society has already begun. The Committee also believes that these lists will aid in the accumulation of valuable material for the 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,  
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## INTRODUCTION.<sup>1</sup>

FAUNAL lists based on intensive study of circumscribed areas provide the greater part of the data used in more comprehensive investigations of geographical distribution. Their usefulness in this respect, aside from the important questions of completeness and accuracy, depends largely upon the degree of detail with which the subject matter is presented. A species may, for instance, be found in Maine, New Hampshire, and Massachusetts and yet be restricted in reality to a very special habitat; so that an investigator of the general distribution of this species, finding it recorded perhaps as occurring "throughout New England" would be entirely misled, if as a matter of fact the form in question lived only in northern Maine and on the higher elevations of New Hampshire and western Massachusetts, where distinctly boreal conditions prevail. In preparing this list of the Heteropterous Hemiptera of New England I have therefore thought it worth while to present in considerable detail the available distributional and seasonal data not only for the rarer species but also for those of most frequent occurrence, as it is just these common species that are often of greatest interest, but concerning which it is unusual to find in the literature anything more than very general statements. The position and general character of the localities cited may be ascertained by reference to ordinary and topographical maps of the region, while the seasonal data will obviously be of direct usefulness to those interested in the economic aspect of the subject, hibernation, etc.

Full synonymy and bibliography are to be found in the publica-

<sup>1</sup> Contributions from the Entomological Laboratory of the Bussey Institution, Harvard University, No. 133.

Part 2 of a thesis submitted to the Faculty of the School of Applied Biology of Harvard University in partial fulfillment of the requirements for the degree of Doctor of Science.

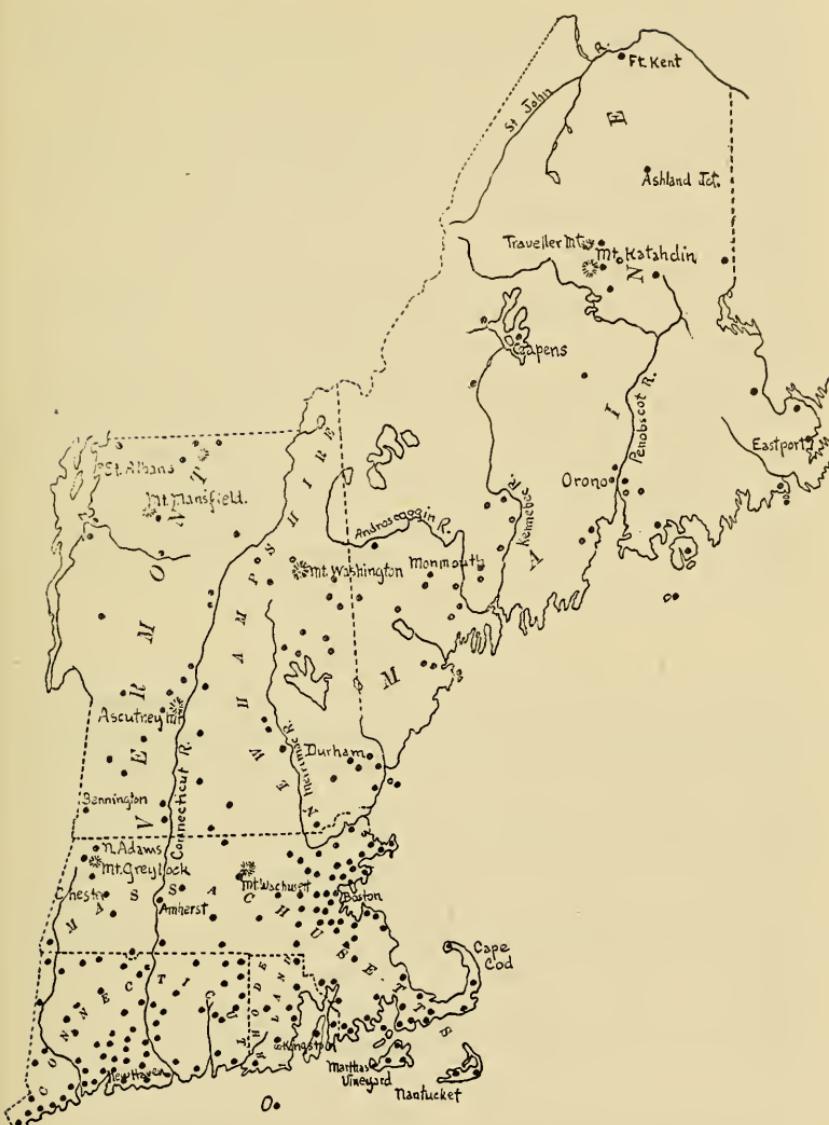
tions of Banks<sup>1</sup> and Van Duzee<sup>2</sup> and are therefore omitted here as their inclusion would greatly enlarge the paper without materially enhancing its value. In case of certain recently described species, however, the original reference is given. Except for a few points of disagreement, such as the taxonomic standing of the Alydidae, Corizidae, Meziridae (Dysodiidae), and Piesmidae (which I consider entitled to family rank), and certain minor matters, chiefly grammatical, I have adopted the nomenclature and systematic arrangement of Van Duzee's recent check list, which, being based on the latest studies, reflects very well the present condition of the taxonomy of the group.

The very large amount of data at hand, from which have been chosen for publication the records showing most clearly and fully the known distribution of the species and their earliest and latest times of appearance in each State, has been gathered for the most part during a first-hand study of the material contained in the various collections of New England, although published records of importance have been included on the authority of others (and so indicated in every case) when I considered them to be trustworthy. Thus I am personally responsible for the determinations, although in this connection I am glad to acknowledge my indebtedness to Messrs. Abbott, Barber, Heidemann, Knight, McAtee, de la Torre Bueno, and Van Duzee, whose ready assistance in points relating to their specialties has done much to increase the accuracy of the list. It is believed that a very large proportion of the species inhabiting New England is recorded in this paper, since the thorough exploration of the region by collectors, as shown on the accompanying map, has provided very extensive material in the group, which has been made available for the purposes of this study through the kindness of those in charge of the following collections wherein the specimens are now preserved: Boston Society of Natural History (C. W. Johnson); Connecticut Agri-

<sup>1</sup> Banks, Nathan. Catalogue of the Nearctic Hemiptera-Heteroptera. Philadelphia, 1910, 103 + viii pp.

<sup>2</sup> Van Duzee, E. P. Check List of the Hemiptera . . . of America, North of Mexico. New York, 1916, xii + 111 pp.

— — — Catalogue of North American Hemiptera (now in press).



TEXT-FIG. 1.—Map of New England. The dots show where Hemiptera have been collected.

cultural Experiment Station (W. E. Britton); Maine Agricultural Experiment Station (E. M. Patch); Massachusetts Agricultural College (H. T. Fernald); Museum of Comparative Zoölogy (S. Henshaw and N. Banks); New Hampshire Agricultural Experiment Station (W. C. O'Kane); Rhode Island State College (J. Barlow); Wellesley College (A. P. Morse); and many private cabinets the owners of which are mentioned in the appended list of collectors.

It is a great pleasure to take this opportunity of expressing my especial sense of obligation to Charles W. Johnson. His unusual success as a collector, intimate knowledge of our region and its fauna, and stimulating advice have been of the very greatest assistance in the present undertaking; his unfailing enthusiasm and genial nature have made our frequent consultations a constant source of enjoyment,— truly a rare and valued friend!

Analysis of the data presented in the following pages brings out much of general interest, which may now be summarized in part.

#### FAUNAL ZONES.

The lack of exact knowledge bearing on the distribution of the Hemiptera in British America and many parts of the United States seriously interferes with detailed speculation on the origin and nature of the New England fauna, but the facts at hand seem sufficient to warrant a few observations relative to this subject.

As observed by Scudder in his distributional studies on Lepidoptera,<sup>1</sup> the southern shore of New England as far north as Cape Cod exhibits marked Upper Austral characteristics, a conclusion borne out by the work of many subsequent writers on the fauna and flora of the region. The present investigation furnishes further evidence in support of this view, as I am able to record the discovery within this area of such characteristically southern Hemipterous species as *Solubea pugnax*, *Corizus hyalinus*, *Mesomiris curtulus*, and *Garganus fusiformis*. *Macrotracheliella nigra*

<sup>1</sup> Scudder, S. H. The Butterflies of the Eastern United States and Canada, Cambridge, 1889, vol. 1, p. 89 *et seq.*

may be included here as it is very closely related to the only other member of the genus, a form occurring in Mexico and Panama.

Scudder also pointed out that the northern part of Maine and the higher elevations of the mountains of New England are boreal in character, a statement which has likewise been well supported by later investigations, but here the evidence of the present study is less telling, partly for reasons already mentioned, though chiefly because of the interesting fact that most of the Hemiptera peculiar to these portions of our region are species common to the New and Old Worlds. Whether these forms are truly boreal when subjected to Nearctic conditions (though most of them are not so in Europe); whether they have been for other reasons unable to spread southward; whether they migrated hither from the east or from the west — these are questions which it is impossible to answer now, but which may find explanation when more is known of the distribution of the Hemiptera in Canada. The following are examples of this class, being confined, in New England at least, to northern latitudes or high altitudes: *Sciocoris microphthalmus*, *Nabis limbatus*, *N. flavomarginatus*, *Dictyonota tricornis*, *Lygus pratensis rubidus*, *Mecomma ambulans*, *Callicorixa praeusta*.

The remaining and larger portion of our region belongs to the Transition Zone in which typically northern and typically southern forms find respectively their southern and northern limits. Here each species is a law unto itself, some extending far into the zone, others for but a short distance. The following may be cited as exhibiting this irregular dispersal: from the south, *Piesma cinerea*, *Leptostyla heidemanni*, *Hesperotingis antennata*, *Systellocordes biceps*, *Phymata erosa*, *Zelus socius*, *Rhynocoris ventralis*, *Gerris canaliculatus*; from the north, *Homaemus aeneifrons*, *Eurygaster alternata*, *Corizus crassicornis*, *Ligyrocoris contractus*, *Calocoris norvegicus*, *Pocciloscytus unifasciatus*, *Limnoporus rufoscutellatus*.

#### SPECIES COMMON TO NEW ENGLAND AND THE PALAEARCTIC REGION.

More of the species of Hemiptera common to the Nearctic and Palaearctic faunas are to be found in New England, according

to present knowledge, than in any other area of similar extent in this country, 36 or 60% of the 61 recorded by Horváth<sup>1</sup> finding place in the subjoined list, besides ten detected since. Horváth gives evidence tending to show that a great majority of these species are of Palaearctic origin, and supposes further that their migration was largely eastward, by way of Alaska. The latter opinion seems hardly in accord with the apparent massing of the species on the eastern side of the continent, referred to above, but at least one of the species listed below, *Callicorixa praeusta*, occurs in both Maine and Alaska, and possibly the range of others may be found likewise to extend westward when our knowledge of the fauna of British America is more nearly complete. The following New England species occur also in the Palaearctic region:

<i>Sciocoris microphthalmus</i>	<i>Cimex lectularius</i> <sup>4</sup>
<i>Zicrona caerulea</i>	† <i>Xylocoris cursitans</i>
<i>Corizus hyalinus</i>	<i>Miris dolabratus</i>
<i>C. crassicornis</i>	<i>Stenodema trispinosum</i>
<i>Aradus lugubris</i>	<i>Trigonotylus ruficornis</i>
<i>Nysius thymi</i>	<i>T. brevipes</i>
<i>N. ericae</i>	† <i>Pithanus maerkeli</i>
† <i>Trapezonotus arenarius</i> <sup>2</sup>	<i>Stenotus binotatus</i>
<i>Sphragisticus nebulosus</i>	<i>Calocoris norvegicus</i>
† <i>Dictyonota tricornis</i>	<i>Pocciloscytus unifasciatus</i>
† <i>Galeatus peckhami</i>	<i>Capsus ater</i>
† <i>Leptobyrsa rhododendri</i> <sup>3</sup>	<i>Lygus pabulinus</i>
<i>Reduvius personatus</i> <sup>4</sup>	<i>L. apicalis</i>
<i>Nabis limbatus</i>	<i>L. pratensis</i>
<i>N. flavomarginatus</i>	<i>L. campestris</i>
<i>N. ferus</i>	<i>L. rubicundus</i>

<sup>1</sup> Horváth, G. Les relations entre les faunes hémiptérologiques de l'Europe et de l'Amérique du Nord. Ann. Hist.-Nat. Mus. Nat. Hung. Budapest, 1908, vol. 6, pp. 1-14.

<sup>2</sup> The dagger indicates additions to Horváth's list.

<sup>3</sup> Introduced from the United States into Europe.

<sup>4</sup> Probably imported, but thoroughly acclimated and hence to be considered as members of our fauna. *Nabis brevis* has not established itself and is therefore omitted from this list.

<i>Deraeocoris ruber</i>	<i>Campylomma verbasci</i>
<i>Monalocoris filicis</i>	<i>Limnoperus rufoscutellatus</i>
† <i>Halticus apterus</i>	<i>Saldula xanthochila</i>
<i>Orthotylus flavosparsus</i>	<i>S. pallipes</i>
† <i>Mecomma ambulans</i>	? <i>S. opacula</i>
† <i>Orthocephalus mutabilis</i>	? † <i>S. saltatoria</i>
<i>Onychumenus decolor</i>	<i>Callicorixa praeusta</i>

## HEMIPTERA OF MT. WASHINGTON.

Mt. Washington is our highest elevation and supports a rich and diversified fauna upon its slopes; it has therefore received a great deal of attention from entomological collectors and students of distribution. In the present list, 96 species are recorded from the mountain, the altitude of capture being mentioned in most cases, but it should be remembered in connection with those taken on the boreal summit that most of the species normally confined to lower levels may on occasion be carried by ascending atmospheric currents to altitudes where they are quite unable to maintain a continuous existence. Some of the rarest and most remarkable of the New England Hemiptera have been found on Mt. Washington: — *Sciocoris microphthalmus*, a Palaeartic species of which not more than three or four examples have been taken in North America; *Hesperophylum heidemanni*, the only Nearctic representative of the peculiar family Termatophylidae; *Zicrona caerulea*, a cosmopolitan species of very rare occurrence in this part of the world; and *Galeatus peckhami*, reported from Japan and from a few widely separated points in North America.

## NUMERICAL SUMMARY.

Nearly 1500 species of Hemiptera-Heteroptera are now known to inhabit America north of Mexico, of which 419 are here listed as occurring in New England. Of the 37 North American families all but 5, the Pyrrhocoridae, Isometopidae, Dipsocoridae, Schizopteridae, and Gelastocoridae, occur within our limits, and it is very

probable that representatives of at least the two first mentioned will ultimately be found here. The following table shows the numerical strength of the New England families:

Family	Genera	Species	Family	Genera	Species
Scutelleridae	2	2	Mesoveliiidae	1	1
Cydnidae	5	10	Nabidae	3	12
Pentatomidae	29	47	Cimicidae	2	3
Coreidae	5	7	Anthocoridae	4	4
Alydidae	3	5	Termatophylidae	1	1
Corizidae	2	6	Miridae	62	139
Aradidae	1	12	Hydrometridae	1	1
Meziridae	2	4	Gerridae	4	9
Neididae	2	2	Veliidae	2	5
Lygaeidae	38	52	Saldidae	4	16
Piesmidae	1	1	Notonectidae	3	8
Tingidae	11	21	Naucoridae	1	1
Enicocephalidae	1	1	Nepidae	2	4
Phymatidae	1	2	Belostomatidae	3	5
Reduviidae	13	20	Ochteridae	1	1
Hebridae	1	1	Corixidae	4	16
<hr/>					
			Totals	215	419

#### LIST OF COLLECTORS.

I am greatly indebted to the collectors mentioned in the following list, since the paper is based entirely on the results of their work. To them, I am sure, the arid waste of dates will not be without oases, and the mention of favored collecting grounds will recall most pleasant memories.

- |                  |                                |
|------------------|--------------------------------|
| Abbott, J. F.    | Bangs, O. ( <i>O. Bangs</i> ). |
| Adkins, W. S.    | Barber, H. G.                  |
| Alexander, C. P. | Barlow, J.                     |
| Allen, G. M.     | Barrows, W. M.                 |
| Allen, J. A.     | Blanchard, F.                  |

Bourne, A. I.	Johnson, C. W.
Bridwell, J. C.	Johnson, H. L.
Britton, W. E.	Jump, E. R.
Brooks, W. S.	Kirk, H. B.
Brues, C. T.	Kirkland, A. H.
Bryant, O. ( <i>O. B.</i> ).	Knab, E.
Bullard, C.	Lewis, J. K.
Burgess, E.	Lowry, Q. S.
Buttrick, P. L.	Mann, W. M.
Caffrey, D. J.	Marchand, W.
Carnochan, F. G.	Mason, S. L.
Champlain, A. B.	McAtee, W. L.
Clinch, W. T.	Merrill, E. D.
Cole, W. H.	Miller, C. S.
Crampton, G. C.	Minot, C. S.
Cushman, J. A.	Montgomery, T. H.
Davis, C. A.	Moore, E. J. S.
Davis, I. W.	Morse, A. P.
Davis, W. T.	Nelson, S. A.
Davison, C. H.	Olsen, C. E.
Dickerman, L. L.	Osborn, H.
Dickerson, E. L.	Osterberg, C.
Dodge, F. W.	Packard, A. S.
Dohanian, S. M.	Parshley, H. M.
Dow, R. P.	Parshley, N. F.
Easton, N. S.	Patch, E. M.
Eddy, F. A.	Pepper, G. W.
Edwards, A. M.	Reiff, W.
Ely, C. R.	Renshaw, A. H.
Emerton, J. H.	Ripley, L. B.
Engelhardt, G. P.	Sanborn, F. G.
Fernald, H. T.	Sarsfield, W.
Fiske, W. F.	Sharp, O.
Foote, H. W.	Shaw, S. A.
Frost, C. A.	Sherriff, F. A.
Greene, E.	Slosson, A. T.
Harris, T. W.	Small, C. L.
Henshaw, S.	Smith, H. E.
Hill, W. B.	Smith, S. J.
Hochstein, R.	Sprague, F. H.
Hollister, G. H.	Sprague, P. S.
Holt, H.	Stebbins, S.
Hyslop, J. A.	Stoddard, E. M.

Stover, O. O.	Wheeler, W. M.
Tenney, A. J.	Whiting, P. W.
Thompson, E. W.	Whitney, C. P.
Torre Bueno, J. R. de la	Whittlesey, E. B.
Uhler, P. R.	Wilcox, A. M.
Vaillant, G. H.	Williams, F. X.
Van Duzee, E. P.	Willis, W. E.
Viereck, H. L.	Winkley, H. W.
Walden, B. H.	Wood, H.
Webber, R. T.	Woodruff, L. B.
Weed, C. M.	Woods, W. C.
Wheatland, R. H.	Zappe, M. P.

## HEMIPTERA-HETEROPTERA.

### SCUTELLERIDAE.

#### TETYRINAE.

##### **Homaemus aeneifrons** (Say).

ME.—Ft. Kent, 19 Aug. '10 (*C. W. J.*); Ironbound Id., 10 Aug. '08 (*J. A. C.*); Machias, 22 July '09 (*C. W. J.*); Orono, 12 Sept. '13 (*H. M. P.*); Pemaquid Pt., Aug. '06 (*H. W. F.*); Pownal, 26 Aug. '00 (*O. O. S.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Alstead, 3 Aug. '04 (*A. P. M.*); Crawfords, 3 Oct. '16 (*H. M. P.*); Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Mt. Washington, base, 19 Sept. '09 (*C. W. J.*); summit (*fide Slosson*).

MASS.—Amherst, 9 Aug. '04; Forest Hills (*A. M. W.*); Ipswich, 1 Sept. '13 (*E. R. J.*); Peru, 28 Aug. '04 (*J. B.*); Sherborn, 8 July '92 (*A. P. M.*); Tyngsboro, 7 Sept. '02 (*F. B.*).

CONN.—Colebrook, 1 Sept. '11 (*W. M. W.*); Litchfield, 16 Sept. '08 (*L. B. W.*); Scotland, 10 Aug. '05 (*B. H. W.*); Thompson, 11 July '05 (*H. L. V.*).

#### ODONTOTARSINAE.

##### **Eurygaster alternata** (Say).

ME.—Eastport, 15 July '09 (*C. W. J.*); Ironbound Id., 10 Aug. '08 (*J. A. C.*); Liberty, 17 July '12 (*J. A. C.*); Orono, 8 Aug. '13; Pownal (*O. O. S.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Washington, base, 6 July '14 (*C. A. F.*); summit (*fide Slosson*); Surrey, 30 Aug. '02.

Vt.—St. Johnsbury, 23 July '91 (*A. P. M.*).

MASS.—Amherst, 11 July '94; Beach Bluff, 28 June '15 (*H. M. P.*); Cohasset, 6 Sept. '07 (*O. B.*); Forest Hills, 30 May '72 (*S. H.*); Nantucket, 19 Aug. '09 (*J. A. C.*); Springfield, 13 July

'05 (*C. W. J.*); West Chop, 22 July '93 (*A. P. M.*); Williamsburg, 9 Aug. '10 (*C. W. J.*); Winchendon, 1 July '92 (*A. P. M.*); Woods Hole, 1 July '05 (*J. A. C.*).

R. I.—Cumberland, 3 July '10 (*J. B.*); Kingston, 5 May '08 (*J. B.*); 29 Aug. '91 (*A. P. M.*).

CONN.—Litchfield, 31 May '13 (*L. B. W.*); New Haven, 8 June '04 (*W. E. B.*); Scotland, '25 July '04 (*B. H. W.*); S. Meriden, 19 June '14 (*H. L. J.*); Thompson, 3 Aug. '92 (*A. P. M.*).

## CYDNIDAE.

### THYREOCORINAE.

**Thyreocoris ater** (Amyot and Serville).

ME.—Orono, 15 Sept. '13 (*H. M. P.*); Paris, 9 July '15 (*C. A. F.*); Pownal (*O. O. S.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Fitzwilliam, July '07 (*J. H. E.*); Mt. Washington, summit (*fide Slosson*).

MASS.—Amherst, 10 May '15; Beach Bluff, 31 Aug. '14 (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Lynn, 17 May '14 (*F. W. D.*); Nantucket, 19 Aug. '09 (*J. A. C.*); Sherborn, 20 Oct. '16 (*C. A. F.*); Tyngsboro, 26 Mar. '06 (*F. B.*).

R. I.—Kingston, 15 July '05 (*J. B.*); Warwick, 10 Sept. '97.

CONN.—Brookfield, 27 July '10 (*E. L. D.*).

**Thyreocoris nitiduloides** (Wolff).

ME.—Deering, 21 Aug. '92 (*A. P. M.*); Orono, 15 Sept. '13 (*H. M. P.*); Paris, 10 July '15 (*C. A. F.*).

MASS.—Amherst; Forest Hills, 16 Sept. '14 (*H. M. P.*); Framingham, 2 May '15 (*C. A. F.*); Southboro, 24 May '14 (*C. A. F.*); Tyngsboro (*F. B.*); Wellesley, 4 Nov. '98 (*A. P. M.*); Winchendon, 5 July '92 (*A. P. M.*).

R. I.—Kingston, 14 Sept. '07 (*J. B.*).

CONN.—Litchfield, 7 Sept. '01 (*L. B. W.*); Milldale, 21 May '06 (*B. H. W.*); Salem, 10 July '14 (*H. W. F.*); S. Meriden, 21 May '15 (*H. L. J.*); Westville, 9 Aug. '06 (*B. H. W.*).

**Thyreocoris lateralis** (Fabricius).

MASS.— Woods Hole, 23 Aug. '14 (*W. M. M.*).

R. I.— June.

CONN.— Chapinville, 26 May '04 (*W. E. B.*); Winnipauk, 16 June '09 (*C. W. J.*).

**Thyreocoris pulicarius** (Germar).

ME.—Orono, 31 May '14 (*H. M. P.*); Paris, 10 July '15 (*C. A. F.*).

VT.— Winooski, Aug. '01 (*C. A. D.*).

MASS.— Amherst, 31 July '97; Blue Hills, 22 May '15 (*H. M. P.*); Fall River, 22 July '05 (*J. A. C.*); Framingham, 2 May '15 (*C. A. F.*); Lynn, 18 Aug. '15 (*H. M. P.*); Springfield, 13 July '05 (*C. W. J.*); Tyngsboro (*F. B.*).

R. I.— Buttonwoods, 25 July '11 (*C. W. J.*); Kingston, 28 May '05 (*J. B.*); Providence, 16 Aug. (*C. A. D.*).

CONN.— Brookfield, 27 July '10 (*E. L. D.*); Litchfield, 3 Aug. '01 (*L. B. W.*); New Haven, 17 May '06 (*B. H. W.*); Stafford, 24 Aug. '05 (*W. E. B.*).

## CYDNINAE.

## Tribe CYDNINI.

**Pangaeus bilineatus** (Say).

MASS.— (*fide Uhler*).

CONN.— (*fide Uhler*).

**Geotomus robustus** (Uhler).

MASS.— (*fide Uhler*).

**Amnestus spinifrons** (Say).

MASS.— Amherst, 13 June '97; Forest Hills, 17 April '15 (*F. G. C.*); Framingham, 21 Oct. '07 (*C. A. F.*); Milton, 28 Mar. '28 (*Harris Coll.*); Tyngsboro, 21 Apr. '95 (*F. B.*); W. Springfield, 21 Oct. '15 (*H. E. S.*).

R. I.— Kingston, 26 Feb. '07, in greenhouse (*J. B.*).

CONN.— Orange, 21 May '11 (*B. H. W.*); Southington, 27 April '10 (*W. E. B.*); S. Meriden, 1 May '14 (*H. L. J.*); West Haven, 11 May '05 (*B. H. W.*); Yalesville, 26 May '08 (*B. H. W.*).

***Amnestus pusillus*** Uhler.ME.—Paris, 10 July '15 (*C. A. F.*).MASS.—Tyngsboro (*F. B.*).***Amnestus pallidus*** Zimmer.MASS.—Cambridge; Saugus, 21 June '14 (*F. W. D.*); Wellesley, 27 May '91 (*A. P. M.*).CONN.—New Haven, 15 May '05 (*B. H. W.*).

## Tribe SEHIRINI.

***Sehirus cinctus*** (Palisot de Beauvois).ME.—Capens, 11 July '07 (*C. W. J.*); Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Orono, 7 April '12 (*H. M. P.*); Paris, 4 July '15 (*C. A. F.*); Sherman, 28 Aug. '03 (*O. O. S.*); The Forks (*O. O. S.*).N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Glen House, 3 July '14 (*C. W. J.*); Mt. Washington, base, 19 Sept. '09 (*C. A. F.*); summit (*fide Slosson*); Halfway House, 16 July '15 (*C. W. J.*); Randolph, Oct. '98 (*F. B.*).VT.—Jay, 17 July '91 (*A. P. M.*); Weston, July '01.MASS.—Amherst; Boston, 2 July '03 (*H. M. P.*); Milton, 22 April '29 (*Harris Coll.*); Peru, June '04 (*J. B.*).R. I.—Providence, 1 July (*C. A. D.*).CONN.—Brookfield, 27 July '10 (*E. L. D.*); New Haven, 9 July '11 (*B. H. W.*).

## PENTATOMIDAE.

## GRAPHOSOMATINAE.

## Tribe PODOPINI.

***Podops cinctipes*** (Say).N. H.—Hampton, 13 Feb. '02 (*S. A. S.*).MASS.—Beach Bluff, 21 June '15 (*H. M. P.*); Boston, 29 April '03 (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Framingham, 16 May '09 (*C. A. F.*); Tyngsboro, 2 Oct. '02 (*F. B.*); Woods Hole, 1 July '14 (*W. S. A.*).

CONN.—New Haven, 20 Aug. '09 (*B. H. W.*); S. Meriden, 7 June '14 (*H. L. J.*).

**Podops parvula** Van Duzee.

MASS.—Revere, 18 Sept. '97; Woods Hole.

PENTATOMINAE.

Tribe SCIOCORINI.

**Sciocoris microphthalmus** Flor.

ME.—Southwest Harbor, 1 (?) Aug. '87 (*H. T. F.*).

N. H.—Mt. Washington, summit (*fide Slosson, Van Duzee*).

Tribe HALYINI.

**Brochymena arborea** (Say).

N. H.—Mt. Washington, summit (*fide Slosson*).

MASS.—Amherst; Ashland, 4 June '11 (*C. A. F.*); Cohasset, 1 Sept. '05 (*O. B.*); Concord, 6 Aug. '14 (*W. R.*); Hopkinton, 21 Sept. '12 (*W. R.*); Hyde Park, 27 April '12 (*W. R.*); Sutton (*Harris Coll.*); Tyngsboro, Jan. '98 (*F. B.*).

CONN.—Lyme, 14 May '11 (*A. B. C.*); New Canaan, 22 Sept. '10 (*W. E. B.*); New Haven, 5 Sept. '11 (*D. J. C.*); North Bradford, 8 June '12 (*B. H. W.*); Stonington, May '14 (*I. W. D.*).

**Brochymena quadripustulata** (Fabricius).

N. H.—Durham (*C. M. W. & W. F. F.*).

MASS.—Amherst; Forest Hills, 8 Oct. '16 (*A. M. W.*); Lynn, 17 May '14 (*F. W. D.*); Sherborn, Sept. (*C. A. F.*); Tyngsboro (*F. B.*).

CONN.—Farmington, 11 June '14 (*W. M.*); New Canaan, 9 Oct. '02 (*B. H. W.*); New Haven, 6 Sept. '02 (*B. H. W.*); Portland, 15 May '14 (*B. H. W.*); S. Glastonbury, 18 Oct. '04 (*W. E. B.*).

**Brochymena carolinensis** (Westwood).

MASS.—Framingham, 5 June '10 (*C. A. F.*); Tyngsboro, May '96 (*F. B.*); Waltham (*C. B.*).

CONN.—Rainbow, 7 May '14 (*M. P. Z.*).

## Tribe PENTATOMINI.

***Peribalus limbolarius* Stål.**

MASS.—Amherst, 10 July '95; Beach Bluff, 26 July '14 (*H. M. P.*); Boston, 28 Aug. '76 (*S. H.*); Forest Hills, 21 May '16 (*A. M. W.*); Nantucket, Sept. '92 (*S. H.*); Norwood, 18 April '09 (*W. R.*).

CONN.—Hamden, 24 July '10 (*B. H. W.*); Manchester, 30 Aug. '12 (*D. J. C.*); New Haven, 24 June '02 (*E. J. S. M.*); Rainbow, 24 May '15 (*M. P. Z.*); S. Meriden, 22 April '15 (*H. L. J.*).

***Trichopepla semivittata* (Say).**

MASS.—Amherst, 2 Aug. '97; Chilmark, 7 Aug. '11 (*J. A. C.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Forest Hills, 24 May '16 (*A. M. W.*); Nantucket, 4 July '04 (*J. A. C.*); Sharon, 25 Aug. '13; West Chop, 15 July '93 (*A. P. M.*); Woods Hole, 11 Aug. '05 (*J. A. C.*).

R. I.—Kingston, 26 Aug. '07 (*J. B.*); Providence, 13 Sept. (*C. A. D.*).

CONN.—New Haven, 24 June '02 (*E. J. S. M.*), 12 Sept. '04 (*B. H. W.*); S. Meriden, 28 May '15 (*H. L. J.*).

***Rhytidolomia saucia* (Say).**

MASS.—Cohasset, 21 Sept. '14 (*H. M. P.*); Greenbush, 11 May '13 (*W. S. B.*); Ipswich, 31 Aug. '13 (*E. R. J.*); Milton, 1 Sept. '27 (*Harris Coll.*); Provincetown; Woods Hole, July (*T. H. M.*).

CONN.—East Haven, 2 May '12 (*B. H. W.*); Greenwich, 21 Aug. '94 (*A. P. M.*); Lyme, 3 July '10 (*A. B. C.*); New Haven, 20 July '05 (*B. H. W.*).

***Rhytidolomia senilis* (Say).**

MASS.—Cambridge, 20 Sept.; Cohasset, 5 Sept. '05 (*O. B.*); Dorchester, 23 Aug. '01 (*A. P. M.*); Faneuil, 12 Aug. '04 (*A. P. M.*); Forest Hills, 20 Mar. '15 (*C. T. B.*); Milton, 10 May '35 (*Harris Coll.*); Revere, 23 Sept. '96; Wollaston, 17 Nov. '95 (*F. H. S.*).

R. I.—Providence, July (*C. A. D.*).

CONN.—Branford, 20 Aug. '05 (*H. W. W.*); East Haven, 2 May '12 (*B. H. W.*); New Haven, 7 May '11 (*A. B. C.*).

***Chlorochroa uhleri* Stål (= *C. persimilis* Horváth).**

ME.—Houlton, 24 Aug. '13; Orono, 26 Sept. '12 (*H. M. P.*); Pownal, 26 Aug. '00 (*O. O. S.*); Southwest Harbor (*H. T. F.*).

N. H.—Contoocook, 7 Aug. '06; Durham (*C. M. W. & W. F. F.*); Pelham, 5 Sept. '05; Three Mile Id., 3 June '09 (*F. B.*); Webster (*W. F. F.*).

Vt.—Middlebury, July '12.

Mass.—Amherst, 9 Sept. '05; Framingham, 31 May '09 (*C. A. F.*); Lynn, 17 May '14 (*F. W. D.*); Nantucket, 17 Sept. '92 (*S. H.*); Provincetown, 8 Sept. '90 (*A. P. M.*); Tyngsboro, 13 Sept. '91 (*F. B.*); West Chop, 24 July '93 (*A. P. M.*).

CONN.—Manchester, 4 Sept. '13 (*B. H. W.*); S. Meriden, 1 June '15 (*H. L. J.*).

***Mormidea lugens* (Fabricius).**

ME.—Dexter, 15 June '00 (*O. O. S.*); Liberty, 13 Sept. '13 (*J. A. C.*); Orono, 25 July '05; Wales, 18 June (*C. A. F.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Burlington, 22 June '06 (*C. W. J.*); St. Albans, 29 June '13 (*C. W. J.*).

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Hanover (*C. M. W.*); Durham, 20 June '07; Waterville (*W. F. F.*); Webster (*W. F. F.*); Wonalancet, 13 Sept. '12 (*J. A. C.*).

Mass.—Amherst, 24 May '04; Beach Bluff, 5 July '14; (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Framingham, 21 Jan. '06 (*C. A. F.*); Martha's Vineyard, 11 Sept. '15 (*W. S. A.*); Nantucket, 6 Aug. '13 (*J. A. C.*); Provincetown, 1 Sept. '14; Woods Hole, 1 July '05.

R. I.—Kingston, 16 June '07 (*J. B.*); Providence, 6 June (*C. A. D.*); Tiverton, 31 July '13 (*N. S. E.*).

CONN.—Danbury, 15 June '09 (*C. W. J.*); Darien, 27 May '13 (*C. W. J.*); New Haven, 20 June '02 (*E. J. S. M.*); Portland, 5 June '14 (*B. H. W.*); Scotland, 30 July '04 (*B. H. W.*); Stonington, 1 July '14 (*I. W. D.*); Torrington, 7 July '05 (*W. E. B.*).

***Solubea pugnax* (Fabricius).**

CONN.—Stamford, 13 Aug. '91 (*A. P. M.*).

***Euschistus euschistoides*** (Vollenhoven) (= *E. fissilis* Uhler).

ME.—Liberty, 13 Sept. '13 (*J. A. C.*); Monmouth, 15 July '14 (*C. A. F.*); Orono, 20 June '07.

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords, 28 Sept. '16 (*H. M. P.*); Durham, 9 Aug. '07; Hanover (*C. M. W.*); Jackson, 22 Sept. (*C. W. J.*); Webster (*W. F. F.*); Wonalancet, 13 Sept. '12 (*J. A. C.*).

MASS.—Amherst, 17 June '05; Cohasset, 21 Sept. '14 (*H. M. P.*); Forest Hills, 25 April '16, 30 Sept. '15 (*H. M. P.*); Martha's Vineyard, Gay Head, 11 Sept. '15 (*W. S. A.*); Nantucket, 5 Sept. '07 (*H. T. F.*); Provincetown, 28 June '91 (*A. P. M.*); Rutland, 20 Sept. '16 (*C. W. J.*); Woods Hole, 11 Aug. '05 (*J. A. C.*).

R. I.—Block Id., 28 Aug. '91 (*A. P. M.*).

CONN.—Colebrook, 20 July '05 (*W. E. B.*); Darien, 12 June '15 (*C. W. J.*); Farmington, 6 Sept. '14 (*W. M.*); Greenwich, 9 July '07 (*J. A. C.*); Litchfield, 31 May '13 (*L. B. W.*); New Haven, 12 July '05 (*B. H. W.*); Scotland, 10 Aug. '05 (*B. H. W.*); S. Meriden, 17 July '14 (*H. L. J.*); Stonington, 22 July '13 (*L. B. R.*).

***Euschistus politus*** Uhler.

N. H.—Mt. Washington, summit (*fide Slosson*).

MASS.—Blue Hills, 14 Aug. '78 (*S. H.*); Framingham, 27 May '16 (*C. A. F.*); Lynn, 2 Sept. '15 (*H. M. P.*); Provincetown, 8 Sept. '07 (*A. P. M.*); Saugus, 7 Sept. '14 (*H. M. P.*); Tyngsboro (*F. B.*); Waltham, 30 May '97 (*C. B.*).

R. I.—Kingston, Sept. '06 (*J. B.*).

***Euschistus tristigmus*** (Say).

ME.—Capens, 12 July '07 (*C. W. J.*); Durham, 21 July '97 (*O. O. S.*); Ft. Kent, 14 June '13 (*C. W. J.*); Machias, 26 July '09 (*C. A. F.*); Monmouth, 15 July '14 (*C. A. F.*); Orono, 17 Sept. '13 (*H. M. P.*); Traveller Mt., 27 July '10 (*J. A. C.*).

N. H.—Bretton Woods, 25 June '13 (*C. W. J.*); Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords, 28 Sept. '16 (*H. M. P.*); Hanover (*C. M. W.*); Pelham, 5 April '05; Webster (*W. F. F.*).

Vt.—Dummerston, 14 July '08 (*C. W. J.*); S. Hero, Grand Isle,

9 July '04 (*A. P. M.*); Norwich, 8 July '08 (*C. W. J.*); Winooski, 22 Aug. '01 (*C. A. D.*).

MASS.—Amherst, 27 May '11; Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Chester, 27 May '12 (*C. W. J.*); Nantucket, 3 July '06 (*J. A. C.*); N. Adams, 18 June '06 (*C. W. J.*); Peru, 26 Aug. '04 (*J. B.*); Provincetown, 8 Sept. '07 (*A. P. M.*); Westfield, 22 June '13 (*P. W. W.*); Woods Hole, 5 Sept. '15 (*W. S. A.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Kingston, 13 May '06 (*J. B.*).

CONN.—Colebrook (*W. M. W.*); Danbury, 15 June '09 (*C. W. J.*); E. Hartford, 13 Aug. '06 (*B. H. W.*); New Canaan, 21 Sept. '05 (*W. E. B.*); New Haven, 27 Aug. '14 (*W. E. B.*); Portland, 29 May '14 (*B. H. W.*); Torrington, 7 July '05 (*W. E. B.*).

***Euschistus variolarius* (Palisot de Beauvois).**

N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Washington, 1 July '74 (*J. H. E.*); Pelham, 29 Aug. '05.

MASS.—Amherst, 22 Oct. '94; Blue Hills, 22 May '15 (*H. M. P.*); Boston, Chestnut Hill, 24 Sept. '15 (*H. M. P.*); Cohasset, 13 Sept. (*O. B.*); Mt. Greylock, 3500 ft., 17 Aug. '94 (*A. P. M.*); Peru, 28 July '04 (*J. B.*); W. Springfield, 2 Oct. '15 (*H. E. S.*); Winchendon, 2 July '92 (*A. P. M.*); Woods Hole, 5 Sept. '15 (*W. S. A.*).

CONN.—Greenwich, 4 Nov. '04 (*W. E. B.*); Hartford, 19 Oct. '04 (*W. E. B.*); Mystic, 25 July '15 (*M. P. Z.*); New Haven, 13 Aug. '03 (*B. H. W.*); Scotland, 25 July '04 (*B. H. W.*); Torrington (*R. H.*).

***Euschistus ictericus* (Linné).**

Vt.—Winooski, 14 Aug. '01 (*C. A. D.*).

MASS.—Beach Bluff, 15 Aug. '14 (*H. M. P.*); Boston, Chestnut Hill, 15 Sept. '14 (*H. M. P.*); Nantucket, 20 Sept. '15 (*W. S. A.*); Provincetown, 8 Sept. '07 (*A. P. M.*); Tyngsboro, 22 Oct. '93 (*F. B.*); Wellesley, 13 June '91 (*A. P. M.*); Woods Hole, 5 Sept. '15 (*W. S. A.*).

R. I.—Block Id., 28 Aug. '91 (*A. P. M.*); Buttonwoods, 18 June '12 (*C. W. J.*).

CONN.—Branford, 16 Sept. '04 (*H. W. W.*); Hamden, 24 July '10 (*B. H. W.*); New Haven, 27 July '04 (*P. L. B.*).

***Coenus delius* (Say).**

ME.—Bar Harbor; Orono, 5 May '12 (*H. M. P.*); Norway (*S. J. S.*); Pownal, 26 Aug. '00 (*O. O. S.*); Westbrook, 25 Sept. '00 (*O. O. S.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover, 30 June '01; Jaffrey, 15 Sept. '96 (*S. H.*).

MASS.—Amherst, 24 May; Arlington, 26 April '77 (*S. H.*); Beach Bluff, 25 June '15 (*H. M. P.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Framingham, 27 June '14 (*C. A. F.*); Nantucket, 4 July '05 (*J. A. C.*); Siasconset, 12 Sept. '15 (*W. S. A.*); Southboro (*O. S.*); Woods Hole, July (*T. H. M.*); Springfield; Tyngsboro (*F. B.*).

R. I.—Kingston, 29 July '91 (*A. P. M.*).

CONN.—Farmington, 10 Aug. '14 (*W. M.*); New Haven, 18 March '91 (*A. B. C.*); Scotland, 25 July '04 (*B. H. W.*); Stamford, 16 Aug. '12 (*W. E. B.*); Thompson, 10 May '10 (*B. H. W.*); Yaleville, 6 Oct. '10 (*D. J. C.*).

***Hymenarcys nervosa* (Say).**

MASS.—Milton, 15 May '26 (*Harris Coll.*); Orleans, 13 May '91 (*F. B.*); Taunton (*G. W. P.*).

R. I.—Kingston, 21 Sept. '05 (*J. B.*).

***Neottiglossa undata* (Say).**

ME.—Bar Harbor, 31 Aug. '13; Bowlin Pond, 31 July '10 (*J. A. C.*); Liberty, 17 July '12 (*J. A. C.*); Mistake Id., 9 Aug. '07 (*J. A. C.*); Orono, 19 May '14; Pownal, 26 Aug. '00 (*O. O. S.*); The Forks, 16 June '00 (*O. O. S.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*).

MASS.—Amherst, 23 June '95; Beach Bluff, 21 June '14 (*H. M. P.*); Framingham, 18 April '14 (*C. A. F.*); Peru, 29 Aug. '04 (*J. B.*); Provincetown, 29 June '91 (*A. P. M.*); Tyngsboro (*F. B.*).

CONN.—Middlebury, 2 June '16 (*M. P. Z.*); North Haven, 3 Aug. '05 (*H. L. V.*).

**Cosmopepla bimaculata** (Thomas) (= *C. carnifex* Fabricius, Auctt.).

ME.—Capens, 12 July '07 (*C. W. J.*); Eastport, 15 July '09 (*C. W. J.*); Ft. Fairfield; Monmouth, 15 July '14 (*C. A. F.*); Orono, 13 Aug. '07; Paris, 10 July '14 (*C. A. F.*); Pemaquid Pt., Aug. '06 (*H. W. F.*); Pownal, '94 (*O. O. S.*); Sherman, 28 Aug. '03 (*O. O. S.*).

N. H.—Bretton Woods, 27 June '13 (*C. W. J.*); Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords, 28 Sept. '16 (*H. M. P.*); Glen House, 15 July '15 (*C. W. J.*); Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*).

Vt.—Bennington, 18 June '15 (*C. W. J.*); Jay, 15 July '91 (*A. P. M.*); St. Albans, 29 June '13 (*C. W. J.*); Winooski, 21 Aug. '01 (*C. A. D.*).

MASS.—Amherst, 10 June '11; Beach Bluff, 27 July '14 (*H. M. P.*); Chester, 22 May '12 (*C. W. J.*); Dracut, 18 June '91 (*F. B.*); Forest Hills, 4 Oct. '15 (*H. M. P.*); Mt. Tom, 14 July '05 (*C. W. J.*); N. Adams, 20 June '06 (*C. W. J.*); Sherborn, 19 June '15 (*C. A. F.*).

CONN.—Canaan, 19 Aug. '94 (*A. P. M.*); Danbury, 15 June '09 (*C. W. J.*); Meriden, 3 June '10 (*W. E. B.*); Norfolk, 13 July '15 (*M. P. Z.*); Thompson, 11 July '05 (*H. L. V.*).

#### **Meneclis insertus** (Say).

MASS.—Amherst, 1 June; Blue Hills, 22 May '15 (*S. M. D.*); Boston, City Point, 8 May '14 (*W. M.*); Cambridge, 21 Feb. '74; Concord, 26 April '13 (*W. R.*); Forest Hills, 8 Sept. '15 (*A. M. W.*); Medford, 30 Mar. '02 (*C. A. F.*); Tyngsboro, 29 July '01 (*F. B.*); Wellesley, 23 June '92 (*A. P. M.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Warwick, 1 July.

CONN.—New London, 2 May '13 (*D. J. C.*); Stonington, 16 June '14 (*I. W. D.*); Wallingford, 20 July '10 (*D. J. C.*).

#### **Thyanta custator** (Fabricius).

MASS.—Sherborn, 15 June '92 (*A. P. M.*); Taunton (*G. W. P.*).

**Thyanta calceata** (Say) Barber.MASS.— Cambridge (*Harris Coll.*).CONN.— New Canaan, 2 Oct. '07 (*B. H. W.*).**Murgantia histrionica** (Hahn).MASS.— Boston, 8 April '16, on vegetables brought from the South (*C. W. J.*).CONN.— Meriden, 7 April '10 (*H. L. J.*). This record probably, and the preceding certainly, are due to accidental introduction of individual specimens, though the species is more or less firmly established on Long Island and in New Jersey.**Acrosternum pennsylvanicum** (De Geer).MASS.— Cambridge (*Harris Coll.*); Waltham, 30 May '97 (*C. B.*).CONN.— Stonington, 30 June '14 (*I. W. D.*).**Acrosternum hilare** (Say).VT.— Winooski, 22 Aug. '01, nymph (*C. A. D.*).MASS.— Amherst, 12 Sept. '02; Blue Hills, 22 May '15 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Framingham, 12 Sept. '09 (*C. A. F.*).R. I.— Kingston, 12 Nov. '09 (*J. B.*); Providence, 16 Sept. (*C. A. D.*).CONN.— Farmington, 3 Sept. '14 (*W. M.*); Lyme, 4 July '11 (*H. B. K. & A. B. C.*); New Canaan, 15 Sept. '05 (*B. H. W.*); New Haven, 2 June '05 (*B. H. W.*); Poquonock, 27 June '05 (*H. L. V.*); S. Meriden, 5 Sept. '14 (*H. L. J.*); Westville, 2 May '15 (*W. E. B.*).**Banasa dimidiata** (Say).ME.— Houlton (*F. A. E.*); Orono, 1 July '13; Sherman; S. Orrington, 28 Sept. '13 (*H. M. P.*); Southwest Harbor, 28 June '10 (*H. T. F.*).N. H.— Durham, 20 June '07; Mt. Washington, base, 7 July '15 (*C. W. J.*); summit (*fide Slosson*); Pelham, 29 Aug. '05.MASS.— Amherst, 26 June '95; Blue Hills, 30 May (*C. W. J.*); Boston, 19 Sept. '15 (*H. M. P.*); Chester, 5 Aug. '14 (*C. W. J.*);

Cohasset, Sept. '07 (*O. B.*); Forest Hills, 7 April '16 (*A. M. W.*); Mt. Wachusett, 30 May '14 (*C. W. J.*); Saugus, 21 June '14 (*F. W. D.*); Sherborn, 6 Sept. '14 (*C. A. F.*); Tyngsboro, 19 Nov. '93 (*F. B.*).

R. I.—Kingston, 23 June (*J. B.*).

CONN.—Farmington, 14 June '14 (*W. M.*); Hartford, 19 Oct. '06 (*W. E. B.*); Portland, 15 May '14 (*B. H. W.*); Stonington, 13 June '14 (*I. W. D.*); Union, 26 May '16 (*M. P. Z.*); Wallingford, 28 June '11 (*J. K. L.*).

**Banasa calva** (Say).

CONN.—Hartford, 1 Nov. '16 (*W. E. B.*); Yalesville, 19 Oct. '03 (*H. L. V.*).

**Banasa sordida** (Uhler).

MASS.—Cambridge; Milton, 30 Aug. '28 (*Harris Coll.*).

**Dendrocoris humeralis** (Uhler).

N. H.—Pelham (*F. B.*).

MASS.—Amherst; Andover; Beach Bluff, 18 July '15 (*H. M. P.*); Blue Hills, 17 June '03 (*H. M. P.*); Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Fall River, 13 May '08 (*N. S. E.*); Forest Hills, 16 April '16 (*F. G. C.*), 20 Oct. '14 (*H. M. P.*); Franklin, 10 July '15 (*C. T. B.*); Saugus, 5 Sept. '14 (*H. M. P.*); Tyngsboro, 22 Oct. '93 (*F. B.*).

CONN.—Killingly, 11 June '15 (*W. E. B.*); Meriden, 10 May '10 (*A. B. C.*); Portland, 22 May '14, 12 Aug. '13 (*B. H. W.*); Stonington, 6 July '14 (*I. W. D.*).

ACANTHOSOMATINAE.

**Meadorus lateralis** (Say).

ME.—Eustis; Kineo, 3 Sept. '07 (*J. A. C.*); Mercer, 3 Aug. '08; Mt. Katahdin, 650 ft., 5000 ft., 21 Aug. '13 (*C. P. A.*); Northeast Harbor, 23 Aug. '09 (*C. S. M.*).

N. H.—Glen House, 3 July '14 (*C. W. J.*); Mt. Lafayette,

summit, 22 Sept. '95 (*F. B.*); Mt. Washington, Halfway House, 4 July '14 (*C. W. J.*); summit (*C. A. F.*).

Vt.—Woodstock, Aug. '09 (*A. P. M.*).

MASS.—Chester, 7 Oct. '12 (*C. W. J.*); Mt. Wachusett, 30 May '14 (*C. W. J.*); Salem; Sherborn (*A. P. M.*); Tyngsboro (*F. B.*); Woods Hole, 31 Aug.

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Kingston, 18 Sept. '10 (*J. B.*).

CONN.—Canterbury, 14 Aug. '05 (*B. H. W.*); Litchfield, 1 Sept. '14 (*L. B. W.*); Lyme, 4 July '11 (*H. B. K. & A. B. C.*); Portland, 15 May '14 (*B. H. W.*).

#### *Elasmostethus cruciatus* (Say).

ME.—Ft. Kent, 14 Aug. '10 (*C. W. J.*); Mt. Katahdin, July '00; Northeast Harbor, 27 Sept. '07 (*C. S. M.*); Orono, 12 June '07; Paris, 10 July '14 (*C. A. F.*); Pemaquid, 1 Aug. '06 (*H. W. F.*).

N. H.—Kearsage Village, 2 July '91 (*A. P. M.*); Mt. Washington, base, 7 July '15 (*C. W. J.*).

Vt.—St. Albans, 29 June '13 (*C. W. J.*).

MASS.—Amherst, 15 July '02.

CONN.—Eastford, 15 June '16 (*W. E. B.*); Litchfield, 5 July '08 (*L. B. W.*).

#### ASOPINAE.

#### *Stiretrus anchorago fimbriatus* (Say).

N. H.—Durham (*C. M. W. & W. F. F.*); Hampton, 11 Aug. '02 (*S. A. S.*); Pelham (*F. B.*); Rochester, 13 June '16 (*W. S.*).

MASS.—Amherst, 19 Sept. '88; Blue Hills (*W. M. M.*); Framingham, 12 June '07 (*C. A. F.*); Malden, 24 Aug. '79 (*S. H.*); Milton, 10 Aug. '25 (*Harris Coll.*); Quincy, 12 July '99; Tyngsboro (*F. B.*).

R. I.—Kingston, 24 June '14 (*J. B.*).

CONN.—Lyme, 27 Aug. '11 (*A. B. C.*).

#### *Perillus circumcinctus* Stål.

ME.—Orono, 17 May '14.

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords,

28 Sept. '16 (*H. M. P.*); Hampton, 2 Aug. '02 (*S. A. S.*); Newington, 24 July '12 (*W. E. B.*).

MASS.—Amherst, 23 April '08; Beach Bluff, 3 Aug. '16 (*H. M. P.*); Boston, 9 July '03 (*H. M. P.*); Forest Hills (*A. M. W.*); Framingham, 10 July '06 (*C. A. F.*); Lynn, 17 May '14 (*F. W. D.*).

CONN.—Colebrook, 10 Aug. '09 (*W. E. W.*); S. Meriden, 3 May '14 (*H. L. J.*).

**Perillus exaptus** (Say).

ME.—Orono, 19 May '14, 30 Aug. '13.

N. H.—Mt. Washington, base, 6 July '14 (*C. W. J.*); summit (*fide Slosson*).

MASS.—Amherst; Beach Bluff, 10 July '15 (*H. M. P.*); Blue Hills, 22 May '15 (*W. M. M.*); Milton, 15 Aug. '28 (*Harris Coll.*); Saugus, 21 June '14 (*F. W. D.*); Tyngsboro (*F. B.*).

CONN.—Gales Ferry, 26 April '13 (*D. J. C.*); New Haven, 26 April '08 (*B. H. W.*); Portland, 14 July '14 (*M. P. Z.*); S. Meriden, 10 July '14 (*H. L. J.*); Thompson, 13 July '94 (*A. P. M.*).

**Rhacognathus americanus** Stål.

MASS.—Wellesley, 27 June '94 (*A. P. M.*).

**Mineus strigipes** (Herrich-Schaeffer).

MASS.—Boston, 2 July '03 (*H. M. P.*); Framingham, 4 May '19 (*C. A. F.*); Lynn, 17 May '14 (*F. W. D.*); Nantucket, 18 Sept. '92 (*S. H.*); Southbridge, 8 June '13 (*C. W. J.*); Taunton (*G. W. P.*); Wellesley, 2 Aug. '04 (*A. P. M.*).

R. I.—Cranston; Providence, July (*C. A. D.*); Westerly.

**Apateicus cynicus** (Say).

ME.—Orono, 25 Aug.; Pittsfield.

N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Lafayette, summit, 22 Sept. '95 (*F. B.*).

Vt.—Middlebury, July '12.

MASS.—Auburndale, 19 July (*C. W. J.*); Beach Bluff, 18 July '15 (*H. M. P.*); Cambridge, 9 Sept. '37 (*Harris Coll.*); Chester, 7 Aug. '14 (*C. W. J.*); Tyngsboro, 15 Sept. (*F. B.*).

CONN.— Brookfield, 27 June '10 (*E. L. D.*); Durham, 1 Sept. '09 (*B. H. W.*); New Canaan, 29 Sept. '09 (*A. I. B.*); Portland, 15 Aug. '13 (*B. H. W.*); S. Meriden, 13 July '15 (*H. L. J.*).

***Apateticus bracteatus* (Fitch).**

ME.— Houlton, 24 Aug. '13; Long Id., Penobscot Bay, 6 Aug. '11 (*F. A. E.*).

N. H.— Crawfords, 28 Sept. '16 (*H. M. P.*).

Vt.— Weston, July '01.

MASS.— Amherst, 13 Aug. '94; Auburndale, 1 Oct. (*C. W. J.*); Beach Bluff, 27 Aug. '14 (*H. M. P.*); Dover, 10 Sept. '08 (*A. P. M.*); Ipswich, 31 Aug. '13 (*E. R. J.*); Mt. Greylock, 3500 ft., 17 Aug. '94 (*A. P. M.*); Nantucket, 10 Sept. '92 (*S. H.*); Salem; Sherborn, 5 Sept. '15 (*C. A. F.*).

CONN.— Litchfield, 10 Aug. '01 (*L. B. W.*); New Haven, 24 Aug. '14 (*M. P. Z.*); Prospect, 15 Aug. '06 (*W. E. B.*); S. Meriden, 2 Aug. '13 (*H. L. J.*).

***Podisus maculiventris* (Say).**

ME.— Liberty, 16 Sept. '13 (*J. A. C.*); Norway; Orono, 18 June '08; Pownal (*O. O. S.*); Wales, 18 June (*C. A. F.*).

N. H.— Crawfords, 28 Sept. '16 (*H. M. P.*); Durham, 14 Aug. '06; Mt. Washington, base, 7 July '15 (*C. W. J.*); summit (*fide Slosson*).

Vt.— Middlebury, July '12; Winooski, 25 Aug. '01 (*C. A. D.*); Woodstock, 20 Aug. '11 (*A. P. M.*).

MASS.— Amherst, 4 Aug. '05; Boston, 10 May '12 (*W. R.*); 3 Oct. '15 (*H. M. P.*); Cohasset, 13 Sept. (*O. B.*); Forest Hills, 7 May '16 (*A. M. W.*); Mt. Greylock, 27 Aug. '07 (*C. W. J.*); Nantucket, 18 Aug. '11 (*H. T. F.*); Provincetown, 6 Sept. '90 (*A. P. M.*); Rockport, 28 Aug. '13 (*C. W. J.*); Woods Hole, 25 July '05 (*J. A. C.*).

R. I.— Buttonwoods, 18 June '12 (*C. W. J.*); Kingston, 18 May '06 (*J. B.*); Providence, 10 June; Tiverton, 31 July '13 (*N. S. E.*); Warwick, 26 May; Washington, 19 June '12 (*C. W. J.*).

CONN.— Granby, 3 Oct. '05; Moosup, 29 July '14 (*C. S. M.*);

New Haven, 6 June '02 (*E. J. S. M.*); Southington, 5 July '05 (*B. H. W.*); S. Meriden, 6 July '14 (*H. L. J.*); Windsor, 26 July '05 (*W. E. B.*); Winnipauk, 4 Aug. '08 (*C. W. J.*).

**Podisus fretus** Olsen.

Bull. Brooklyn Ent. Soc., 1916, vol. 11, p. 82.

MASS.—Amherst, 16 May '10 (*G. P. E.*); Orleans, 13 May '91 (*F. B.*).

**Podisus serieventris** Uhler.

ME.—Casco Bay, 12 Sept. '12 (*G. P. E.*); Orono, 28 June '07.

N. H.—Franconia (*fide Slosson*); Mt. Washington, base, 7 July '15 (*C. W. J.*); summit, 3 July (*S. A. N.*).

MASS.—Beach Bluff, 31 Aug. '14 (*H. M. P.*); Rutland, 20 Sept. '16 (*C. W. J.*).

R. I.—Kingston, 14 Sept. '07 (*J. B.*).

CONN.—Woodstock, 13 May '15 (*W. E. B.*).

**Podisus modestus** (Dallas).

ME.—Capens, 12 July '07 (*C. W. J.*); Eastport, 14 July '09 (*C. W. J.*); Machias, 26 July '09 (*C. W. J.*); Monmouth, 23 June '03 (*C. A. F.*); Orono (*H. T. F.*).

N. H.—Center Harbor, 10 Sept. '14; Crawfords, 28 Sept. '16 (*H. M. P.*); Durham (*C. M. W. & W. F. F.*); Glen House, 23 July '15 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*); Mt. Washington, Alpine Garden, 4 July '14 (*C. W. J.*); base, 7 July '15 (*C. W. J.*); Pelham, 5 Sept. '05 (*J. C. B.*).

Vt.—Amsden, 10 July '08 (*C. W. J.*); Bennington, 19 July '15 (*C. W. J.*); Montgomery, 18 July '91 (*A. P. M.*); Pompanoosuc (*C. M. W.*); St. Albans, 21 June '13 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Amherst, 29 Aug. '91; Auburndale, 4 April '04 (*C. W. J.*); Bashbush Falls, 28 June (*C. W. J.*); Beach Bluff, 28 Aug. '15 (*H. M. P.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Chester, 27 May '12 (*C. W. J.*); N. Adams, 18 June '06 (*C. W. J.*); Tyngsboro (*F. B.*); Waquoit,

21 Sept. '10 (*C. W. J.*); Westford, 22 June '13 (*P. W. W.*); Winchendon, 5 July '92 (*A. P. M.*); Woods Hole, 24 July (*T. H. M.*).

R. I.—Kingston, 13 May '06, 15 Aug. '05 (*J. B.*).

CONN.—S. Meriden, 29 May '15 (*H. L. J.*).

### ***Podisus placidus* Uhler.**

ME.—Capens, 12 July '07 (*C. W. J.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Washington, base, 7 July '16 (*C. W. J.*); Webster (*W. F. F.*).

MASS.—Amherst; Blue Hills, 22 May '15 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Forest Hills, 9 May '15 (*W. M. M.*); Malden, 16 May '96 (*A. H. K.*); Orleans, 13 May '91 (*F. B.*); Southbridge, 16 July '14 (*C. W. J.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Colebrook (*B. H. W.*); Killingly, 11 June '15 (*W. E. B.*); Litchfield, 23 Aug. '11 (*L. B. W.*); New Haven, 22 June '11 (*A. B. C.*); N. Stonington, 20 May '15 (*I. W. D.*); Wallingford, 29 July '12 (*D. J. C.*).

### ***Zicrona caerulea* (Linné).**

ME.—Newbury Neck, Surrey, 22 June '03 (*F. A. E.*).

N. H.—Mt. Washington, summit (*A. T. S.*) (*fide Van Duzee*).

## COREIDAE.

### MEROCORINAE.

#### ***Corynocoris distinctus* (Dallas).**

ME.—Orono, 10 May '14 (*H. M. P.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Holderness, Lake Asquam, 28 Aug. '99 (*A. P. M.*); Milford (*C. P. W.*); Webster (*W. F. F.*).

Vt.—Middlebury, July '12.

MASS.—Amherst, 21 July '05; Barnstable, 5 July '04 (*C. W. J.*); Chilmark, 17 Aug. '11 (*J. A. C.*); Fall River, 22 July '05 (*N. S. E.*); Framingham, 10 July '06 (*C. A. F.*); Truro; Tyngsboro, 2 Oct. '02 (*F. B.*); Woods Hole, 10 Sept. '15 (*W. S. A.*).

R. I.—Buttonwoods, 25 July '11 (*C. W. J.*); Kingston, Oct. '04 (*J. B.*); Plum Beach, Sept. '08.

CONN.—Litchfield, 21 Sept. '01 (*L. B. W.*); New Haven, 26 June '02 (*E. J. S. M.*); Scotland, 27 July '04 (*B. H. W.*); S. Meriden, 6 July '15 (*H. L. J.*).

#### COREINAE.

##### Tribe ACANTHOCEPHALINI.

###### **Acanthocephala terminalis** (Dallas).

MASS.—Amherst, 14 July '00; Boston, 12 June '02, 8 Oct. '15 (*H. M. P.*); Dedham, 4 Sept. '08 (*C. W. J.*); Westport Factory, 31 July '13 (*C. W. J.*).

R. I.—Kingston, 5 Sept. '12 (*J. B.*).

CONN.—Brookfield, 30 Aug. '14 (*W. M.*); Greenwich, 5 Oct. '09 (*A. I. B.*); Manchester, 30 Aug. '12 (*D. J. C.*); New Haven, 4 June '11 (*W. E. B.*); S. Meriden, 6 June '14 (*H. L. J.*); Stamford, 13 Aug. '91 (*A. P. M.*).

##### Tribe ANISOSCELINI.

###### **Leptoglossus fulvicornis** (Westwood). (= *L. magnoliae* Heide-mann).

MASS.—Amherst, Hatch Exp. Sta., 7 Oct. '01 (*H. T. F.*).

##### Tribe MICTINI.

###### **Euthochtha galeator** (Fabricius).

N. H.—Durham (*C. M. W. & W. F. F.*).

MASS.—Amherst, 18 July '00; Concord, 3 Aug. '13 (*W. R.*); Dartmouth, 16 Sept. '13 (*N. S. E.*); Ellis, 24 May '12 (*C. W. J.*); Saugus, 5 Sept. '14 (*H. M. P.*); Southwick, 3 Aug. '05; Tyngsboro, 15 June '09 (*F. B.*); Westport Factory, 31 July '13 (*C. W. J.*).

R. I.—Kingston, 2 Oct. '10 (*J. B.*).

CONN.—Brookfield, 30 Aug. '14 (*W. M.*); Farmington, 6 Sept. '14 (*W. M.*); Lyme, 4 July '11 (*H. B. K. & A. B. C.*); Manchester, 12 Sept. '10 (*W. E. B.*); New Haven, 3 July '02 (*W. E. B.*); S. Meriden, 27 April '15 (*H. L. J.*); Stamford, 22 Aug. '94 (*A. P. M.*).

## Tribe COREINI.

**Anasa tristis** (De Geer).

Common injurious species such as this are often neglected by collectors, and hence it is sometimes impossible to get an adequate number of definite records. No doubt the squash-bug is found throughout New England, wherever its food-plants are grown.

ME.—Orono, 11 May '14 (*H. M. P.*).

N. H.—Durham (*W. F. F.*).

Vt.—Williamsville, 24 June '15 (*W. T. C.*).

MASS.—Blue Hills, 15 Sept. '14 (*H. M. P.*); Edgartown, 22 Aug. '12 (*C. W. J.*); Forest Hills, 12 April '15, 22 Sept. '14 (*H. M. P.*); Truro; Woods Hole, 12 Sept. '15 (*W. S. A.*).

R. I.—Kingston (*J. B.*).

CONN.—Berlin, 16 Sept. '15 (*W. E. B.*); Hamden, 24 June '13 (*E. M. S.*); New Haven, 26 March, 16 Oct.; Wallingford, 16 June (*J. K. L.*).

**Anasa repetita** Heidemann.

MASS.—Allston, 11 Sept. '11 (*C. W. J.*); Amherst; Beach Bluff, 23 June '13 (*H. M. P.*); Boston, Jamaica Plain, 13 June '13 (*N. F. P.*); Chestnut Hill, 24 Sept. '14 (*H. M. P.*).

CONN.—Wallingford, '11 (*D. J. C.*).

**Anasa armigera** (Say).

MASS.—Amherst, June '14 (*G. C. C.*); Boston, Chestnut Hill, 24 Sept. '14, 13 Oct. '15 (*H. M. P.*).

## ALYDIDAE.

## Tribe MICRELYTRINI.

**Protenor belfragei** Haglund.

ME.—Norway; Orono, 7 Aug. '13; Pushaw Lake.

N. H.—Alstead, 9 Aug. '04 (*A. P. M.*); Durham (*C. M. W.* & *W. F. F.*); Squam Lake, 3 Aug. '07 (*G. M. A.*).

MASS.—Amherst, 3 Aug. '88; Beach Bluff, 28 July '14 (*H. M.*

*P.*); Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Salem, 7 Sept. '66 (*J. H. E.*); Springfield, Sept. '62; Woods Hole, 5 Sept. '15 (*W. S. A.*).

CONN.—New Haven, 20 July '08 (*B. H. W.*); Scotland, 10 Aug. '05 (*B. H. W.*); Westville, 9 Aug. '06 (*B. H. W.*).

#### Tribe ALYDINI.

##### **Megalotomus quinquespinosus** (Say).

ME.—Orono, 3 Aug. '06; S. Orrington, 28 Sept. '13 (*H. M. P.*).

N. H.—Durham (*C. M. W.* & *W. F. F.*); Webster (*W. F. F.*).

VT.—Winooski, 26 Aug. '01 (*J. B.*).

MASS.—Amherst, 31 Aug. '05; Melrose Highlands, 20 Aug. '15 (*F. X. W.*); Rutland, 20 Sept. '16 (*C. W. J.*); Sherborn, 15 July '92 (*A. P. M.*); Southbridge, 8 July '13 (*C. W. J.*); Springfield, 27 Aug. '12; Tyngsboro, 19 Sept. '91 (*F. B.*); Woods Hole, July (*T. H. M.*).

CONN.—Branford, 28 July '05 (*H. L. V.*); Canaan, 18 Aug. '94 (*A. P. M.*); Darien, 4 Aug. '08 (*C. W. J.*); Granby, 3 Oct. '05 (*B. H. W.*); New Haven, 9 July '14 (*M. P. Z.*); Portland, 15 Aug. '13 (*B. H. W.*); S. Meriden, 16 Aug. '13 (*H. L. J.*); Woodbury, 19 July '13 (*W. E. B.*).

##### **Alydus eurinus** (Say).

ME.—Orono, 19 June.

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Concord; Durham (*C. M. W.* & *W. F. F.*); Hanover (*C. M. W.*); Lee (*C. M. W.* & *W. F. F.*); Webster (*W. F. F.*).

VT.—Wells River, 11 July '91 (*A. P. M.*); Winooski, 26 Aug. '01 (*C. A. D.*).

MASS.—Amherst, 12 July '05; Fall River, 9 July '05 (*N. S. E.*); Forest Hills, 17 Sept. '14 (*H. M. P.*); Manomet, 26 July (*C. W. J.*); Sherborn, 15 July '92 (*A. P. M.*); Tyngsboro, 19 Sept. '91 (*F. B.*); Winchendon, 5 July '92 (*A. P. M.*); Woods Hole, 5 Sept. '15 (*W. S. A.*).

R. I.—Kingston, 26 Sept. '04 (*J. B.*); Providence, 6 July (*C. A. D.*).

CONN.—Farmington, 6 Sept. '14 (*W. M.*); New Haven, 5 June '10 (*A. B. C.*); S. Meriden, 4 June '15 (*H. L. J.*); Thompson, 11 July '05 (*W. E. B.*); Yalesville, 19 Oct. '03 (*H. L. V.*).

***Alydus conspersus* Montandon.**

ME.—Ashland (*O. O. S.*); Orono, 3 Aug. '06.

N. H.—Alstead, 8 Aug. '04 (*A. P. M.*); Durham (*C. M. W.* & *W. F. F.*); Hanover, 3 July '08 (*C. W. J.*); Holderness, 17 Aug. '99 (*A. P. M.*).

MASS.—Amherst, 10 Aug. '05; Beach Bluff, 24 June '14 (*H. M. P.*); Boston, 2 July '03 (*H. M. P.*); Marblehead, 17 July '14 (*H. M. P.*); Tyngsboro, 11 Sept. '91 (*F. B.*); Winchendon, 2 July '92 (*A. P. M.*).

***Alydus pilosulus* Herrich-Schaeffer.**

ME.—Katahdin Iron Works, 8 Sept. '99 (*F. A. E.*); Orono, 8 Sept.

MASS.—Amherst; Beach Bluff, 24 June '14 (*H. M. P.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Forest Hills, 1 Oct. '16 (*A. M. W.*); Martha's Vineyard, 17 July '03 (*J. A. C.*); Nantucket, 20 Sept. '15 (*W. S. A.*); Tyngsboro, 11 Sept. '91 (*F. B.*); Woods Hole, 19 Sept. '15 (*W. S. A.*).

R. I.—Kingston, June '05 (*J. B.*); Providence, 6 July (*C. A. D.*).

CONN.—Farmington, 6 Sept. '14 (*W. M.*); New Haven, 8 June '11 (*A. B. C.*); Poquonock, 27 June '05 (*H. L. V.*); Scotland, 25 July '04 (*B. H. W.*); Stamford, 13 Aug. '91 (*A. P. M.*).

## CORIZIDAE.

### Tribe HARMOSTINI.

***Harmostes reflexulus* (Say).**

ME.—Princeton, 12 July (*C. W. J.*).

MASS.—Amherst, 2 Aug. '05; Chatham, 1 July '09 (*C. W. J.*); Forest Hills, 1 June '15 (*H. M. P.*); Hyde Park, 21 Oct. '15 (*H.*

*M. P.*); Nantucket, 19 Aug. '09 (*J. A. C.*); Tisbury, 25 July '11 (*J. A. C.*); Tuckernuck Id., 5 Aug. '15 (*J. A. C.*).

R. I.—Block Id., 28 Aug. '91 (*A. P. M.*); Buttonwoods, 22 June '12 (*C. W. J.*); Kingston, 2 Aug. '05 (*J. B.*); Providence (*C. A. D.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*).

#### Tribe CORIZINI.

**Corizus hyalinus** (Fabricius).

MASS.—Woods Hole, 2 July '05 (*T. H. M.*).

**Corizus crassicornis** (Linné).

ME.—Capens, 11 July '07 (*C. W. J.*); Ft. Kent, 19 July '10 (*C. W. J.*); Ironbound Id., 10 Aug. '08 (*J. A. C.*); Lower Black River Rapids, 13 Sept. '07 (*J. A. C.*); Monmouth, 26 June '06 (*C. A. F.*); Orono, 22 April '14 (*H. M. P.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Bretton Woods, 27 June '13 (*C. W. J.*); Crawfords, 28 Sept. '16 (*H. M. P.*); Durham (*C. M. W. & W. F. F.*); Glen House, 7 July '14 (*C. W. J.*); Hanover (*C. M. W.*); Jackson, 3 July '91 (*A. P. M.*); Mt. Washington, 1 July '74 (*J. H. E.*).

Vt.—Ascutney Mt., 14 Aug. '98 (*A. P. M.*).

MASS.—Chester, 27 May '12 (*C. W. J.*).

**Corizus lateralis** (Say).

ME.—Orono.

N. H.—Durham (*C. M. W. & W. F. F.*).

Vt.—St. Albans, 21 June '13 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Amherst, 6 June '01; Beach Bluff, 21 June '14 (*H. M. P.*); Manomet, 5 Aug. '12 (*W. S. B.*); Rockport, 15 July '04 (*C. W. J.*); Sankaty Head, 20 Sept. '15 (*W. S. A.*).

R. I.—Buttonwoods, 25 July '11 (*C. W. J.*); Providence, 6 Oct. (*C. A. D.*).

CONN.—New Haven, 5 Nov. '10 (*D. J. C.*); Scotland, 25 July '04 (*B. H. W.*); S. Meriden, 24 May '14 (*H. L. J.*).

**Corizus bohemani** Signoret.

ME.—Paris, 10 July '14 (*C. A. F.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*).

MASS.—Amherst; Tyngsboro, '95 (*F. B.*).

CONN.—Meriden, 28 July '09 (*A. I. B.*); New Haven, 1 June '11 (*B. H. W.*); Scotland, 8 Aug. '05 (*B. H. W.*).

**Corizus hirtus** Torre Bueno.

MASS.—Nantucket, 19 Aug. '09 (*J. A. C.*).

## ARADIDAE.

**Aradus aequalis** Say.

Vt.—(*P. S. S.*).

**Aradus quadrilineatus** Say.

ME.—Holden, 17 June '02 (*F. A. E.*); Monmouth (*O. O. S.*); Mt. Katahdin, Aug. '02 (*H. G. B.*); Paris, 10 July '14 (*C. A. F.*).

N. H.—Claremont; Concord; Durham; Glen House, 22 Sept. '07 (*O. B.*); Mt. Washington, summit (*fide Slosson*); Webster (*W. F. F.*).

MASS.—Amherst; Boston, 30 April '03 (*H. M. P.*); Natick, 1 Nov. '00; Saugus, 21 June '14 (*F. W. D.*); Swansea, 10 Aug. '08.

R. I.—Providence, 7 May (*C. A. D.*); Warwick, 26 May.

CONN.—Hartford, 11 May '14 (*W. M.*); Lyme, 30 April '13 (*D. J. C.*); Saybrook, 25 April '13 (*D. J. C.*); S. Meriden, 10 May '14 (*H. L. J.*).

**Aradus robustus** Uhler.

ME.—Manchester (*O. O. S.*); Monmouth, 27 June '01 (*C. A. F.*); Orono, 24 April '14 (*H. M. P.*).

MASS.—Amherst, 26 May '92; Cambridge, 12 Sept.; Forest Hills, 26 May '16 (*A. M. W.*); Milton, 20 May '29 (*Harris Coll.*).

R. I.—Kingston, May (*J. B.*).

CONN.—Meriden, 10 May '10 (*A. B. C.*); New Haven, 26 Feb. '11 (*A. B. C.*), 21 May '11 (*W. E. B.*); Rainbow, 7 May '14 (*M. P. Z.*); Stonington, May '14 (*M. P. Z.*).

**Aradus hubbardi** Heidemann.

ME.—Mt. Katahdin, 19 Aug. '02 (*H. G. B.*); Orono, 4 June '13 (*H. M. P.*).

**Aradus similis** Say.

ME.—Orono, 29 April, 4 June '13 (*H. M. P.*).

MASS.—Forest Hills, 8 Nov. '16 (*W. M. B.*); Springfield (*J. A. A.*); Tyngsboro, 6 May '00 (*F. B.*).

CONN.—Meriden, 8 May '11 (*A. B. C.*); Stonington, May '14 (*I. W. D.*).

**Aradus acutus** Say.

ME.—Norway (*O. O. S.*).

N. H.—Aug. '50 (*Harris Coll.*); Temple, 26 May '00 (*F. B.*).

**\*Aradus borealis** Heidemann.

N. H.—Mt. Washington, Lake of the Clouds, 2 July '96 (*F. B.*).

**Aradus tuberculifer** Kirby, Bergroth.

ME.—Orono (*H. T. F.*).

**Aradus uniformis** Heidemann.

MASS.—Chicopee, 25 June '03.

**Aradus lugubris** Fallén.

ME.—Mt. Katahdin, 3000 ft., Aug. '02 (*H. G. B.*); Norway; Orono, 10 May '14 (*H. M. P.*).

N. H.—Milford (*C. P. W.*); Mt. Washington, summit (*fide Slosson*).

MASS.—Amherst; Boston, 11 July '78; Beach Bluff, June 25.

R. I.—Kingston, 17 June '06 (*J. B.*).

**Aradus abbas** Bergroth.

ME.—Ashland Junction, 16 Aug. '10 (*C. W. J.*); Ft. Kent, 17 Aug. '10 (*C. W. J.*); Machias, 17 Aug. (*C. W. J.*); Mt. Katahdin, Aug. '02 (*H. G. B.*).

Vt.—St. Johnsbury, 27 June '06 (*C. W. J.*).

MASS.—Boston, 1 Sept.; Concord, 26 April '13 (*W. R.*).

CONN.—New Haven, 24 April '15 (*Q. S. L.*); 31 July '11 (*A. B. C.*); Wallingford, 5 June '12 (*D. J. C.*).

**Aradus niger** Stål.

ME.—Orono, 29 April '14, 27 May '13 (*H. M. P.*); Mt. Katahdin, Aug. '02 (*H. G. B.*).

N. H.—Crawfords, 26 Sept. '16 (*H. M. P.*).

MASS.—(*S. H.*).

## MEZIRIDAE.

## Tribe MEZIRINI.

**Neuroctenus simplex** (Uhler).

ME.—Orono (*H. T. F.*).

MASS.—(*H. T. F.*).

**Aneurus inconstans** Uhler.

ME.—Orono, 24 Sept.

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords, 2 Oct. '16 (*H. M. P.*).

Vt.—Montpelier, 25 June '06 (*C. W. J.*).

MASS.—Amherst; Beach Bluff, 18 July '14 (*H. M. P.*); Boston, 3 Feb. '04 (*H. M. P.*); Cambridge, 19 Nov. '69 (*E. B.*); Milton, 29 May '22 (*Harris Coll.*).

R. I.—Providence, April, 11 June '06 (*C. A. D.*).

CONN.—Lyme, 14 May '11 (*A. B. C.*).

**Aneurus simplex** Uhler.

Vt.—(*P. S. S.*).

**Aneurus fiskei** Heidemann.

CONN.—Brookfield, 27 July '10 (*E. L. D.*).

## NEIDIDAE.

## NEIDINAE.

**Neides muticus** (Say).

ME.—Monmouth, 16 June (*C. A. F.*); Orono, 10 June '13 (*C. P. A.*); Paris, 9 July '14 (*C. A. F.*).

MASS.—Amherst; Boston, Chestnut Hill, 24 Sept. '15 (*H. M. P.*);

Danvers, 3 Aug. '15 (*H. M. P.*); Forest Hills, 19 Sept. '15 (*H. M. P.*); Framingham, 18 April '09 (*C. A. F.*); Freetown, 17 July '08 (*C. W. J.*); Williamsburg, 7 Aug. '11 (*C. W. J.*).

CONN.—Meriden, 29 April '07 (*B. H. W.*); New Haven, 30 July '09 (*B. H. W.*); Woodbridge, 12 May '07 (*W. E. B.*).

#### METACANTHINAE.

**Jalysus spinosus** (Say).

ME.—Bangor, 6 June (*F. A. E.*).

MASS.—Amherst (*G. C. C.*); Beach Bluff, 4 July '15 (*H. M. P.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Cohasset, 13 Sept. '07 (*O. B.*); Dedham, 20 May (*C. W. J.*); Saugus, 5 Sept. '14 (*H. M. P.*); Tyngsboro, June '01 (*F. B.*); Woods Hole, July (*T. H. M.*).

R. I.—Cumberland, 3 July '10 (*J. B.*); Kingston, May '06 (*J. B.*).

CONN.—New Haven, 26 Feb. '11 (*A. B. C.*); Rainbow, 29 May '15 (*B. H. W.*).

#### LYGAEIDAE.

##### LYGAEINAE.

###### Tribe LYGAEINI.

**Oncopeltus fasciatus** (Dallas).

MASS.—Beach Bluff, 27 July '13 (*H. M. P.*); Malden, 1 Sept. '70 (*S. H.*).

CONN.—S. Meriden, 11 Sept. '13 (*H. L. J.*); Stamford, 13 Aug. '91 (*A. P. M.*); Stonington, July '09 (*G. H. H.*).

**Lygaeus turcicus** Fabricius.

MASS.—Lynn, 2 Sept. '14 (*H. M. P.*).

**Lygaeus kalmi** Stål.

ME.—Green Lake, near Holden, 27 July '09 (*F. A. E.*).

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Durham

(*C. M. W. & W. F. F.*); Glen House, 15 July '15 (*C. W. J.*); Hanover, 10 Aug. '01; Jackson, 22 Sept. '07 (*O. B.*); Mt. Washington, summit (*fide Slosson*); N. Conway, 30 July '91 (*A. P. M.*); Pelham (*F. B.*); Webster (*W. F. F.*).

Vt.—Norwich, 4 July '08 (*C. W. J.*); Woodstock, 13 Aug. '10 (*A. P. M.*).

Mass.—Amherst, 17 Aug. '05; Beach Bluff, 4 July '12 (*H. M. P.*); Lynn, 17 May '14 (*F. W. D.*); Forest Hills, 21 Mar. '13; Medford, 3 Oct. '02 (*C. A. F.*); Truro; Tyngsboro, 29 June '90 (*F. B.*); Woods Hole, 9 Sept. '15 (*W. S. A.*).

R. I.—Buttonwoods, 20 June '12 (*C. W. J.*).

Conn.—Farmington, 21 May '14 (*W. M.*); Hartford, 12 Sept. '07 (*W. E. B.*); New Canaan, 26 Sept. '06 (*W. E. B.*); New Haven, 15 July '99 (*W. E. B.*); S. Meriden, 16 April '15 (*H. L. J.*); Stamford, 13 Aug. '91 (*A. P. M.*); Stonington, July '09 (*G. H. H.*).

#### ***Lygaeus albulus* Distant.**

Mass.—Saugus, 22 Aug. '14 (*H. M. P.*); Nantucket, 9 Sept. '09 (*H. T. F.*); Woods Hole, July '98 (*fide Barber*).

R. I.—Cumberland, 3 July '10 (*J. B.*).

#### Tribe ORSILLINI.

##### ***Ortholomus longiceps* Stål.**

ME.—Liberty, 16 Sept. '13 (*J. A. C.*); Orono, 10 Sept. '06; Portland (*P. R. U.*) (*fide Uhler*).

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Holderness, 1 Aug. '99 (*A. P. M.*).

Mass.—Beach Bluff, 10 July '15 (*H. M. P.*); Provincetown, 7 Sept. '07 (*A. P. M.*); Southwick, 3 Aug. '05.

Conn.—Brookfield, 27 July '10 (*E. L. D.*).

##### ***Nysius californicus* Stål.**

Conn.—New Haven, 20 July '04 (*B. H. W.*).

##### ***Nysius thymi* (Wolff).**

ME.—Machias, 19 July '09 (*C. W. J.*); Paris, 4 July '15 (*C. A. F.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Dublin, 1 Aug.; Hanover, 3 July '15 (*C. W. J.*); N. Conway, 30 July '91 (*A. P. M.*); Wonalancet, 13 Sept. '12 (*J. A. C.*).

Vt.—Wells River, 11 July '91 (*A. P. M.*).

MASS.—Warwick.

**Nysius ericae** (Schilling).

ME.—Naples, 1 July '13 (*C. W. J.*); Orono, 28 Sept.; Westbrook (*O. O. S.*).

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords, 28 Sept. '16 (*H. M. P.*); Dublin, 1 Aug. (*C. W. J.*); Durham (*C. M. W. & W. F. F.*); Hanover, 8 July '08 (*C. W. J.*); Littleton (*C. M. W.*); N. Conway, 30 July '91 (*A. P. M.*); Webster (*W. F. F.*).

Vt.—Mt. Equinox, 5 June '10 (*C. W. J.*); Wells River, 11 July '91 (*A. P. M.*).

MASS.—Amherst, 19 June '95; Beach Bluff, 27 Aug. '14 (*H. M. P.*); Blue Hills, 22 May '15 (*H. M. P.*); Cohasset, 8 Sept. (*O. B.*); Squantum, 3 Oct. '14 (*H. M. P.*); Tisbury, 25 July '11 (*J. A. C.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); New Haven, 4 Aug. '09 (*B. H. W.*); Poquonock, 27 June '05 (*H. L. V.*); Rainbow, 14 May '15 (*M. P. Z.*).

**Belonochilus numenius** (Say).

MASS.—Milton, 1 Sept. '29 (*Harris Coll.*); Woods Hole (*T. H. M.*).

CYMINAE.

Tribe ISCHNORRHYNCHINI.

**Ischnorrhynchus geminatus** (Say).

ME.—Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Orono, 22 May '14 (*H. M. P.*); Township 4, Range 7, Penobscot Co., 1 Aug. '10 (*J. A. C.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Jackson, 22 Sept. '07 (*O. B.*);

Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*); Webster (*W. F. F.*).

MASS.—Amherst; Chester, 8 Aug. '12 (*C. W. J.*); Edgartown, 22 Aug. '12 (*C. W. J.*); Framingham, 16 April '14 (*C. A. F.*); Franklin, 26 May '16 (*H. M. P.*); Hyde Park, 21 Oct. '15 (*H. M. P.*); Nantucket, 16 Aug. '11 (*H. T. F.*); Provincetown, 1 Sept. '14 (*C. W. J.*); Woods Hole.

CONN.—Brookfield, 27 July '10 (*E. L. D.*); New Haven, 4 May '04 (*H. L. V.*); Portland, 13 Aug. '13 (*B. H. W.*); Rainbow, 9 May '12 (*B. H. W.*).

#### Tribe CYMINI.

##### *Cymus luridus* Stål.

ME.—Eastport, 15 July '09 (*C. W. J.*); Ironbound Id., 10 Aug. '08 (*J. A. C.*); Orono, 24 May; S. Harpswell, 27 July '08 (*J. A. C.*).

N. H.—Mt. Washington, summit (*fide Slosson*).

Vt.—Mt. Mansfield, 4000 ft., 21 July '91 (*A. P. M.*).

MASS.—Beach Bluff, 21 June '15 (*H. M. P.*); Edgartown, 28 June '12 (*C. W. J.*); Gloucester, 22 May '15 (*C. W. J.*); Nantucket, 6 Aug. '13 (*J. A. C.*); Provincetown, 1 Sept. '14 (*C. W. J.*); Tuckernuck Id., 6 Aug. '09 (*J. A. C.*); Woods Hole, July (*T. H. M.*).

R. I.—Buttonwoods, 17 June '12 (*C. W. J.*).

CONN.—New Haven, 17 May '06 (*B. H. W.*); Stony Creek, 27 July '04 (*H. L. V.*).

##### *Cymus angustatus* Stål.

ME.—Capens, 12 July '07 (*C. W. J.*); Eastport, 15 July '09 (*C. W. J.*); Liberty, 13 Sept. '13 (*J. A. C.*); Monmouth, 23 June '07 (*C. A. F.*); Naples, 1 July '13 (*C. W. J.*); Orono.

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover, 3 July '15 (*C. W. J.*); Mt. Washington (*W. F. F.*); Webster (*W. F. F.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Mt. Mansfield, 4000 ft., 21 June '91 (*A. P. M.*); St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Amherst; Chilmark, 7 Aug. '11 (*J. A. C.*); Forest Hills, 20 May '15 (*H. M. P.*); Nantucket, 19 Aug. '09 (*J. A. C.*);

N. Adams, 20 June '08 (*C. W. J.*); Provincetown, 29 June '91 (*A. P. M.*); Springfield, 14 July '05 (*C. W. J.*); Tuckernuck Id., 6 Aug. '09 (*J. A. C.*); Woods Hole, July (*T. H. M.*).

R. I.—Buttonwoods, 15 June '12 (*C. W. J.*); Cumberland, 3 July '10 (*J. B.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Danbury, 15 June '09 (*C. W. J.*); New Haven, 26 Feb. '11 (*A. B. C.*); Thompson, 11 July '05 (*H. L. V.*).

**Cymus discors** Horváth.

ME.—Eastport, 15 July '09 (*C. W. J.*); Holden, 20 July '00 (*F. A. E.*); Machias, 22 July '09 (*C. W. J.*); Orono, 31 May '14 (*H. M. P.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover, 3 July '15 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).

Vt.—Burlington, 22 June '06 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Highgate Springs (*fide Horváth*); St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Beach Bluff, 21 June '15 (*H. M. P.*); Edgartown, 28 June '12 (*C. W. J.*); Pocasset, 6 Aug. '12 (*J. A. C.*); Sherburn, 6 Jan. '17 (*C. A. F.*); Tisbury, 25 July '11 (*J. A. C.*); Wellesley, 15 Aug. '00 (*A. P. M.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*).

BLISSINAE.

**Ischnodemus falcatus** (Say).

MASS.—Beach Bluff, 22 June '14 (*H. M. P.*); Cohasset, 13 Sept. '07 (*O. B.*); Tyngsboro, Jan. '98 (*F. B.*); Woods Hole, July (*T. H. M.*).

CONN.—Orange, 21 May '11 (*B. H. W.*).

**Blissus leucopterus** (Say).

MASS.—Amherst, 26 June '00; Beach Bluff, 21 June '15, 26 July '14 (*H. M. P.*); Nantucket, 9 Sept. '09 (*H. T. F.*); Woods Hole, July (*T. H. M.*).

R. I.— Providence, Sept. '15 (*J. B.*).

CONN.— New Haven, 11 Aug. '08 (*B. H. W.*); Orange, 21 May '11 (*B. H. W.*); S. Meriden, 15 April '14 (*H. L. J.*).

**Blissus hirtus** Montandon.

ME.— Harbor, 20 April '12 (*S. L. M.*); Orono, 7 April '12, 12 June '13 (*H. M. P.*).

N. H.— Crawfords, 28 Sept. '16 (*H. M. P.*).

MASS.— Forest Hills, 20 May '15, 14 Sept. '14 (*H. M. P.*); Hazelwood, 10 Aug. '00 (*A. P. M.*); Salem, 6 April '91 (*A. P. M.*); Tisbury, 5 Aug. '11 (*J. A. C.*).

CONN.— Stamford, 13 Aug. '91 (*A. P. M.*).

GEOCORINAE.

**Geocoris bullatus** (Say).

ME.— Orono, 15 June; Pownal (*O. O. S.*); Paris, 7 July '15 (*C. A. F.*).

N. H.— Mt. Washington, summit (*fide Slosson*).

VT.— Wells River, 11 July '91 (*A. P. M.*).

MASS.— Amherst; Beach Bluff, 21 June '15 (*H. M. P.*); Boston, 19 Nov. '77 (*S. H.*); Framingham, 17 June '15 (*C. A. F.*); Winchendon, 1 July '92 (*A. P. M.*).

CONN.— New Haven, 10 June '07 (*J. B.*).

**Geocoris bullatus discopterus** Stål.

ME.— Paris, 10 July '15 (*C. A. F.*).

N. H.— Bretton Woods, 18 June '12 (*C. W. J.*); Webster (*W. F. F.*).

VT.— S. Hero, Grand Isle, 9 July '04 (*A. P. M.*).

MASS.— Beach Bluff, 21 June '15, (*H. M. P.*); Forest Hills, 28 June '79 (*S. H.*); Somerville, 4 Sept. '90 (*A. P. M.*).

CONN.— New Haven, 19 July '04 (*P. L. B.*), 3 Aug. '05 (*B. H. W.*).

**Geocoris uliginosus** (Say).

ME.— Paris, 10 July '15 (*C. A. F.*); Pownal, 4 July (*O. O. S.*);

Township 4, Range 7, Penobscot Co., 1 Aug. '10 (*J. A. C.*); Westbrook, 13 Sept. (*O. O. S.*).

N. H.—Durham, July '00 (*W. F. F.*).

MASS.—Forest Hills, 31 Mar. '15 (*S. L. M.*); Provincetown, 27 June '91 (*A. P. M.*); Sherborn, 6 Jan. '17 (*C. A. F.*); Wellesley, 14 Sept. '98 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

**Geocoris uliginosus speculator** Montandon.

N. H.—White Mts. (*W. F. F.*).

MASS.—Beach Bluff, 18 July '15 (*H. M. P.*); Lowell (*fide Montandon*).

CONN.—New Haven, 9 July '11 (*B. H. W.*).

**Geocoris uliginosus lateralis** (Fieber).

MASS.—Sherborn, 6 Sept. '14 (*C. A. F.*).

**Geocoris uliginosus limbatus** Stål.

ME.—Naples, 1 July '13 (*C. W. J.*); Paris, 10 July '15 (*C. A. F.*).

N. H.—Webster (*W. F. F.*).

Vt.—Woodstock, 26 Oct. '09 (*A. P. M.*).

MASS.—Beach Bluff, 21 June '15 (*H. M. P.*); Edgartown, 27 Aug. '12 (*C. W. J.*); Framingham, 20 Aug. '15 (*C. A. F.*); Nantucket, 9 Sept. '09 (*H. T. F.*); Provincetown, 1 Sept. '14 (*C. W. J.*); Sherborn, 3 April '92 (*A. P. M.*).

**Isthmocoris piceus** (Say).

MASS.—Andover (*fide McAtee*); Cohasset, 21 Sept. '14 (*H. M. P.*); Forest Hills, 18 May '15 (*F. X. W.*); Sherborn, 12 June '15 (*C. A. F.*); Tyngsboro, 1 Mar. '01 (*F. B.*); Wellesley, 6 Sept. '00 (*A. P. M.*).

R. I.—Tiverton, 25 May '07 (*N. S. E.*).

CONN.—Hamden, 24 April '11 (*B. H. W.*); Portland (*fide McAtee*).

**PACHYGRONTHINAE.**

**Phlegyas abbreviatus** (Uhler).

ME.—Calais, 10 July (*C. W. J.*); Holden, 23 June '01 (*F. A. E.*); Orr's Id., 25 July '09 (*C. W. J.*); Paris, 15 July '14 (*C. A. F.*).

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Holderness, 3 Aug. '99 (*A. P. M.*); Littleton (*C. M. W.*); Mt. Washington (*W. F. F.*); Nottingham (*C. M. W. & W. F. F.*); Twin Mt. (*W. F. F.*).

Vt.—Dummerston, 14 July '08 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Amherst, 5 July '97; Blue Hills, 15 Sept. '14 (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Edgartown, 28 June '12 (*C. W. J.*); Forest Hills, 28 March '15 (*W. M.*); Nantucket, 4 July '04 (*J. A. C.*); Provincetown, 6 Sept. '90 (*A. P. M.*); Winchendon, 1 July '92 (*A. P. M.*); Woods Hole, 2 July '05 (*J. A. C.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Cumberland (*J. B.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Litchfield, 1 July '16 (*L. B. W.*); New Haven, 1 June '11, 17 July '08 (*B. H. W.*); Middlebury, 16 June '11 (*B. H. W.*); S. Meriden, 25 May '14 (*H. L. J.*).

#### *Oedancala dorsalis* (Say).

ME.—(*fide Storer*).

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Wonalancet, 13 Sept. '12 (*J. A. C.*).

Vt.—St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Beach Bluff, 25 June '15 (*H. M. P.*); Forest Hills, 28 May '15, 4 Oct. '15 (*H. M. P.*); Framingham, 30 May '08 (*C. A. F.*); Woods Hole, July (*T. H. M.*).

R. I.—Apponaug, 22 June '12 (*C. W. J.*); Buttonwoods, 18 June '12 (*C. W. J.*).

CONN.—Danbury, 15 June '09 (*C. W. J.*); Darien, 27 May '15 (*C. W. J.*); Lyme, 20 Aug. '10 (*B. H. W.*); New Haven, 26 May '11 (*A. B. C.*); S. Meriden, 7 June '14 (*H. L. J.*); Wallingford, 8 June '11 (*B. H. W.*).

#### OXYCARENINAE.

#### *Crophius disconotus* (Say).

ME.—Liberty, 13 Sept. '13 (*J. A. C.*).

N. H.—Crawfords, 3 Oct. '16 (*H. M. P.*); Mt. Washington, summit (*fide Slosson*).

MASS.—Beach Bluff, 21 June '14 (*H. M. P.*); Forest Hills, 14 Sept. '14 (*H. M. P.*); Hyde Park, 21 Oct. '15 (*H. M. P.*); Tyngsboro, 13 Mar. '98 (*F. B.*); Wollaston, 27 Oct. '95 (*F. H. S.*).

### RHYPAROCHROMINAE.

#### Tribe MYODOCHINI.

##### **Myodochus serripes** Olivier.

ME.—Orono, 24 May '14 (*H. M. P.*).

N. H.—Durham (*C. M. W. & W. F. F.*).

VT.—S. Hero, Grand Isle, 7 July '04 (*A. P. M.*).

MASS.—Blue Hills, 22 May '15 (*W. H. C.*); Boston, 26 May '03 (*H. M. P.*); Framingham, 21 Jan. '06 (*C. A. F.*); Milton, 25 March '28 (*Harris Coll.*); Swampscott, 19 Aug. '14 (*H. M. P.*); Woods Hole, July (*T. H. M.*).

CONN.—East River, 15 July '08 (*C. R. E.*); Farmington, 18 Aug. '14 (*W. M.*); Lyme, 30 April '11 (*A. B. C.*); New Haven, 17 June '02 (*E. J. S. M.*); Wallingford, 23 Nov. '12 (*H. B. K.*); Winnipauk, 12 June '15 (*C. W. J.*).

##### **Heraeus plebejus** Stål.

MASS.—Brookline, 25 Sept. '13 (*C. W. J.*); Cambridge; Tyngsboro, 13 Mar. '98 (*F. B.*).

CONN.—New Haven, 7 May '11 (*A. B. C.*).

##### **Sphaerobius insignis** (Uhler).

ME.—Fryeburg, 20 Aug. '92 (*A. P. M.*); Machias, 2 July (*C. W. J.*); Westbrook, 25 Sept. (*O. O. S.*).

N. H.—Hanover (*C. M. W.*); Mt. Washington (*A. T. S.*) (*fide Barber*).

##### **Ligyrocoris diffusus** (Uhler).

ME.—Calais, 10 July (*C. W. J.*); Liberty, 13 Sept. '13 (*J. A. C.*); Orono, 15 Sept. '13 (*H. M. P.*); Paris, 10 July '14 (*C. A. F.*); Township 4, Range 7, Penobscot Co., 1 Aug. '10 (*J. A. C.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Dublin, 1 Aug. (*C. W. J.*); Glen House, 20 July '15 (*C. W. J.*); Hampton (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Holderness, 1 Aug. '99 (*A. P. M.*); Jackson, 22 Sept. '07 (*O. B.*); Mt. Washington, 5000 ft., Lake of the Clouds, 5 July '14 (*C. A. F.*).

Vt.—Ascutney Mt., 23 July '12 (*C. W. J.*); Montgomery, 18 July '91 (*A. P. M.*); Norwich (*C. M. W.*); S. Hero, Grand Isle, July '04 (*A. P. M.*).

MASS.—Amherst; Beach Bluff, 21 June '15 (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Edgartown, 22 Aug. '12 (*C. W. J.*); Forest Hills, 30 Sept. '15 (*H. M. P.*); Nantucket, 9 Sept. '09 (*H. T. F.*); Newton, 16 June '14 (*J. R. T. B.*); Provincetown, 7 Sept. '07 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

R. I.—Block Id., 28 Aug. '91 (*A. P. M.*); Kingston, 25 July '05 (*J. B.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Colebrook, 21 July '05 (*H. L. V.*); New Haven, 28 June '11 (*B. H. W.*); Thompson, 3 Aug. '92 (*A. P. M.*).

#### *Ligyrocoris contractus* (Say).

ME.—Belfast, 21 June '12 (*J. A. C.*); Bowlin Pond, 31 July '10 (*J. A. C.*); Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Mistake Id., 9 Aug. '07 (*J. A. C.*); Orono, 12 Sept. '13 (*H. M. P.*); Paris, 15 July '14 (*C. A. F.*); Roque Bluff, 15 Aug. '07 (*J. A. C.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Glen House, 20 July '15 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*); Wonalancet, 13 Sept. '12 (*C. W. J.*).

Vt.—Amsden, 10 July '08 (*C. W. J.*); Ascutney Mt., 11 July '08 (*C. W. J.*); Jay, 17 July '91 (*A. P. M.*); Stratton, 10 July '13 (*P. W. W.*).

MASS.—Peru, 28 Aug. '04 (*J. B.*).

#### *Perigenes constrictus* (Say).

N. H.—Hampton.

MASS.—Amherst; Beach Bluff, 31 Aug. '14 (*H. M. P.*); Milton,

15 Aug. '31 (*Harris Coll.*); Nahant, 16 July '15 (*H. M. P.*); Newton, 16 June '14 (*J. R. T. B.*); Provincetown, 8 Sept. '90 (*A. P. M.*); Saugus, 2 Sept. '15 (*H. M. P.*); Wellesley, 6 Oct. '93 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

**Perigenes costalis** Van Duzee.

N. H.—Durham (*C. M. W. & W. F. F.*).

MASS.—Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Mt. Tom, 22 Sept. '05 (*C. W. J.*).

CONN.—S. Meriden, 6 July '14 (*H. L. J.*).

**Orthaea basalis** (Dallas).

MASS.—Boston, 8 May '15 (*W. M.*); Framingham, 19 April '14 (*C. A. F.*); Tyngsboro (*F. B.*).

CONN.—Rainbow, 9 May '12 (*B. H. W.*).

**Ptochiomera nodosa** Say.

MASS.—Woods Hole, July (*T. H. M.*).

**Carpilis ferruginea** Stål.

ME.—Orono (*H. T. F.*).

**Cnemodus mavortius** (Say).

ME.—Skowhegan, 19 June (*O. O. S.*).

MASS.—Beverly, 22 Aug. '09 (*C. W. J.*); Cambridge (*Harris Coll.*); Freetown, 3 Aug. '08 (*N. S. E.*); Wellesley, 4 Nov. '03 (*A. P. M.*); West Chop, 6 Aug. '93 (*A. P. M.*); Woods Hole (*T. H. M.*) (*fide Montgomery*).

CONN.—Lyme, 12 March '11 (*A. B. C.*); S. Meriden, 18 May '15 (*H. L. J.*).

**Pseudocnemodus canadensis** (Provancher).

MASS.—Beach Bluff, 15 Aug. '14 (*H. M. P.*); Manomet, 13 Aug. '12 (*W. S. B.*); Saugus, 5 Sept. '14 (*H. M. P.*); Tisbury, 31 July '11 (*J. A. C.*); Tyngsboro (*F. B.*); Waquoit, 21 Sept. '10 (*C. W. J.*); Woods Hole, 25 July '05 (*J. A. C.*).

## Tribe RHYPAROCHROMINI.

**Ozophora picturata** Uhler.

N. H.—Massabesic Lake, 10 Oct. '93 (*F. B.*).

MASS.—Cambridge, 9 April '35 (*Harris Coll.*); Cohasset, 13 Sept. (*O. B.*); Forest Hills, 14 April '17 (*W. M. M. & W. M. B.*); Tyngsboro, 20 Oct. '98 (*F. B.*).

CONN.—New Haven, 11 March '11 (*A. B. C.*).

**Antilocoris pilosulus** (Stål).

MASS.—Tyngsboro (*F. B.*).

**Antilocoris pallidus** (Uhler).

ME.—Orono, 22 April '13 (*H. M. P.*).

MASS.—Cambridge, 12 Sept. '73; Framingham, 10 July '05 (*C. A. F.*); Nahant, 7 July '16 (*H. M. P.*); Sherborn (*C. A. F.*); Tewksbury; Tyngsboro, April '96 (*F. B.*); Wollaston, 27 Oct. '95 (*F. H. S.*).

CONN.—New Haven, 5 June '16 (*M. P. Z.*).

**Rhyparochromus plenus** Distant.

MASS.—Beach Bluff, 18 July '15, 1 Aug. '16 (*H. M. P.*); Mt. Tom, 14 July '05 (*C. W. J.*).

CONN.—Georgetown (*fide Barber*).

**Plinthicus americanus** Van Duzee.

N. H.—Franconia.

MASS.—Tyngsboro (*F. B.*).

**Peritrechus fraternus** Uhler.

N. H.—Hampton.

MASS.—Beverly, June (*E. B.*); Nantucket, 19 Aug. '09 (*J. A. C.*); Somerset, 29 May '09 (*N. S. E.*); Tyngsboro, 10 Jan. '97 (*F. B.*).

## Tribe GONIANOTINI.

**Emblethis vicarius** Horváth.

N. H.—Hampton.

MASS.—Beach Bluff, 28 June '15 (*H. M. P.*); Framingham,

3 May '14 (*C. A. F.*); Readville, 2 Sept. '79; Springfield (*S. S.*); Tyngsboro, April '01 (*F. B.*).

R. I.—Portsmouth, 4 Sept. '13 (*N. S. E.*).

CONN.—Lyme, 1 May '10 (*A. B. C.*); N. Windham, 14 July '94 (*A. P. M.*); S. Meriden, 5 March '15 (*H. L. J.*); Waterford, 18 July '14 (*I. W. D.*).

Tribe BEOSINI.

**Trapezonotus arenarius** (Linné).

MASS.—Boston, City Point, 8 May '14 (*W. M.*).

**Sphragisticus nebulosus** (Fallén).

ME.—Pownal, 3 Sept. (*O. O. S.*).

MASS.—Amherst; Beach Bluff, 22 Aug. '14 (*H. M. P.*); Forest Hills, 3 June '16 (*A. M. W.*).

**Delochilocoris umbrosus** (Distant).

MASS.—Tyngsboro (*F. B.*) . .

CONN.—Orange, 21 May '11 (*B. H. W.*); Wallingford, 5 June '12 (*D. J. C.*); Windsor, 18 July '04 (*B. H. W.*).

Tribe LETHAEINI.

**Drymus unus** (Say).

ME.—Liberty, 13 Sept. '13 (*J. A. C.*); Northeast Harbor, 27 Sept. '07 (*C. S. M.*); Orono.

N. H.—Alton (*F. B.*); Center Harbor, 10 Sept. '14; Mt. Lafayette, summit, 22 Sept. '95 (*F. B.*); Mt. Washington, summit (*fide Slosson*); Sunapee (*F. B.*).

MASS.—Berlin, 8 Aug. '15 (*C. A. F.*); Fall River, 27 March '09 (*N. S. E.*); Forest Hills, 16 Sept. '14 (*H. M. P.*); Framingham, 10 July '05 (*C. A. F.*); Tyngsboro, Oct. '93 (*F. B.*).

**Drymus crassus** Van Duzee.

N. H.—Mt. Washington (*A. T. S.*) (*fide Van Duzee*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*).

**Eremocoris ferus** (Say).

ME.—Capens, 14 July '07 (*C. W. J.*); Holden, 27 April '01 (*F. A. E.*); Monmouth, 16 June (*C. A. F.*); Orono.

N. H.—Durham (*C. M. W. & W. F. F.*); Littleton, 15 Oct. '97 (*F. B.*); Mt. Washington, Lake of the Clouds, 2 July '96 (*F. B.*); Sunapee.

Vt.—Manchester, 8 June '10 (*C. W. J.*).

MASS.—Amherst, 2 Aug. '97; Beach Bluff, 21 June '15 (*H. M. P.*); Boston, 19 April '15 (*H. M. P.*); Edgartown, 29 June '12 (*C. W. J.*); Fall River, 8 Oct. '09 (*N. S. E.*); Forest Hills, 8 Oct. '14 (*H. M. P.*); Ipswich, 16 Oct.; S. Natick, 26 Oct. '05 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

CONN.—Orange, 21 May '11 (*B. H. W.*); Oxford, 21 May '04 (*W. E. B.*); Wallingford, 8 June '11 (*B. H. W.*).

**Scolopostethus thomsoni** Reuter.

N. H.—Mt. Washington, 2 July '96 (*F. B.*).

MASS.—Tyngsboro (*F. B.*).

**Scolopostethus atlanticus** Horváth.

ME.—Orono, 29 March '14 (*H. M. P.*); Princeton, 12 July '09 (*C. W. J.*).

MASS.—Danvers, 3 Aug. '15 (*H. M. P.*); Tyngsboro, 22 Oct. '95 (*F. B.*); Woods Hole, 11 Aug. '05 (*J. A. C.*).

R. I.—Cumberland (*J. B.*).

CONN.—New Haven, 15 May '11 (*A. B. C.*).

**Scolopostethus diffidens** Horváth.

ME.—30 April '07.

MASS.—Berlin, 8 Aug. '15 (*C. A. F.*); Cambridge, 12 Sept. '13; Framingham, 3 May '14 (*C. A. F.*).

**Xestocoris nitens** Van Duzee.

ME.—Orono, 22 April '13 (*H. M. P.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Littleton, 15 Oct. '97 (*F. B.*).

MASS.— Tyngsboro, 19 Feb. '11 (*F. B.*); Wellesley, 19 May '05 (*A. P. M.*).

CONN.— Lyme, 30 April '11 (*A. B. C.*).

**Cryphula parallelogramma** Stål.

MASS.— Fall River, 28 March '08 (*N. S. E.*); Forest Hills, 24 March '15 (*H. M. P.*); Hyde Park, 21 Oct. '15 (*H. M. P.*); Tyngsboro, 7 Mar. '01 (*F. B.*).

CONN.— New Haven, 26 Feb. '11 (*A. B. C.*).

PIESMIDAE.

**Piesma cinerea** (Say).

MASS.— Amherst, 6 April '00; Beach Bluff, 21 June '15 (*H. M. P.*); Cambridge.

R. I.— Kingston, 29 July '08 (*J. B.*).

CONN.— Hamden, 23 Aug. '10 (*W. E. B.*); Manchester, 18 Sept. '11 (*W. E. B.*); Milford, 11 July '16 (*W. E. B.*); New Haven, 4 Aug. '09 (*H. B. W.*); Stonington, 30 Dec. '13 (*I. W. D.*).

TINGIDAE.

Tribe TINGINI.

**Acalypta lillianis** Torre Bueno.

Bull. Brooklyn Ent. Soc., 1916, vol. 11, p. 39.

ME.— The Forks, 16 June '00 (*O. O. S.*).

N. H.— (*fide Osborn and Drake*).

**Dictyonota tricornis americana** Parshley.

Psyche, 1916, vol. 23, p. 164.

ME.— Eastport, 15 July '09 (*C. W. J.*); Machias, 26 July '06 (*C. W. J.*); Roque Bluff, 15 July '07 (*J. A. C.*).

**Corythucha ciliata** (Say).

ME.— (*A. S. P.*) (*fide Packard*).

MASS.— Melrose Highlands, 15 Jan. '16 (*R. T. W.*); Nantucket, 19 Aug. '09 (*J. A. C.*); Needham, 3 Sept. '11.

R. I.— Kingston, July '05 (*J. B.*).

CONN.— Hartford, 26 Sept. '10 (*G. H. H.*); Mystic, 4 March '15 (*M. P. Z.*); New Canaan, 14 Sept. '05 (*W. E. B.*); New Haven, 3 Aug. '09 (*B. H. W.*); N. Stonington, 21 Jan. '15 (*M. P. Z.*); S. Meriden, 8 March '14 (*H. L. J.*).

#### **Corythucha arcuata** (Say).

N. H.— Durham (*C. M. W. & W. F. F.*); Hampton, 27 May '10 (*S. A. S.*).

MASS.— Auburndale, 22 July (*C. W. J.*); Beverly, 24 Oct. '66 (*E. B.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Cohasset, 8 Sept. ('O. B.); Sherborn, 5 Aug. '96 (*A. P. M.*); Squantum, 3 Oct. '14 (*H. M. P.*).

R. I.— Kingston, 1 June '05 (*J. B.*).

CONN.— Brookfield, 27 July '10 (*E. L. D.*); Litchfield, 1 Sept. '14 (*L. B. W.*); Mystic, 4 March '15 (*M. P. Z.*); New Haven, 19 Sept. '10 (*W. E. B.*); Portland, 14 Aug. '14 (*B. H. W.*).

#### **Corythucha crataegi** Morrill.

MASS.— Beach Bluff, 1 Aug. '16 (*H. M. P.*); Cohasset, 15 Sept. ('O. B.); Ellis, 24 May '15 (*C. W. J.*); Needham, 3 Sept. '11; Wellesley, Oct. '03 (*A. P. M.*).

CONN.— New Haven, 9 July '11 (*B. H. W.*).

#### **Corythucha pergandei** Heidemann.

ME.— Orono, 17 Sept. '13 (*H. M. P.*).

N. H.— Durham (*C. M. W. & W. F. F.*); Fabyans (*W. F. F.*).

MASS.— Springfield, 29 Aug. '02; Tuckernuck Id., 5 Aug. '13 (*J. A. C.*).

CONN.— Brookfield, 27 July '10 (*E. L. D.*); Chapinville, 26 May '04 (*W. E. B.*); Pine Orchard, 26 July '04 (*W. E. B.*).

#### **Corythucha marmorata** (Uhler).

ME.— Princeton, 12 July '09 (*C. W. J.*).

N. H.—Bretton Woods, 18 June '12 (*C. W. J.*); Durham (*C. M. W. & W. F. F.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*).

MASS.—Amherst; Beach Bluff, 25 June '14 (*H. M. P.*); Blue Hills, 16 June (*C. W. J.*); Chilmark, 14 Aug. '11 (*J. A. C.*); Edgartown, 22 Aug. '12 (*C. W. J.*); Forest Hills, 8 Oct. '14 (*H. M. P.*); Southbridge, 16 July '14 (*C. W. J.*); Tisbury, 27 June '11 (*J. A. C.*); Woods Hole, 1 July '05 (*J. A. C.*).

R. I.—Buttonwoods, 25 July '11 (*C. W. J.*); Kingston, 20 July '05 (*J. B.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Granby, 1 July '14; New Haven, 23 June '12 (*W. E. B.*); S. Meriden, 12 June '15 (*H. L. J.*).

***Corythucha juglandis* (Fitch).**

ME.—Eastport, 15 July '09 (*C. W. J.*); Lower Goose Id., Casco Bay, 24 July '08 (*W. M. W.*); Machias, 19 July '09 (*C. W. J.*); Orono, 22 May '14 (*H. M. P.*); Princeton, 12 July '09 (*C. W. J.*).

N. H.—Bretton Woods, 26 June '13 (*C. W. J.*); Glen House, 24 July '15 (*C. W. J.*); Mt. Washington, 2500 ft., 28 July '15 (*C. W. J.*).

MASS.—Chester, 28 May '12 (*C. W. J.*); Dover, 10 Sept. '08 (*A. P. M.*); Tuckernuck Id., 5 Aug. '13 (*J. A. C.*); Washington, 8 Aug. '12 (*C. W. J.*).

R. I.—Kingston, Aug. '05 (*J. B.*).

CONN.—Scotland, 15 Aug. '05 (*B. H. W.*); Stamford, 16 Aug. '12 (*W. E. B.*).

***Galeatus peckhami* (Ashmead).**

ME.—Princeton, 12 July '09 (*C. W. J.*).

N. H.—Glen House, Osgood Trail, 20 July '15 (*C. W. J.*).

***Leptobyrsa rhododendri* (Horváth) (= *L. explanata* Heidemann).**

ME.—Bar Harbor.

MASS.—Amherst, 21 June '05; Beach Bluff, 15 Aug. '14 (*H. M. P.*); Chester, 3 Aug. '11 (*C. W. J.*); Danvers, 3 July '14; Saugus, 5 Sept. '14 (*H. M. P.*).

CONN.— Greenwich, 3 July '13 (*W. E. B.*); New Haven, 30 June '15 (*W. E. B.*); Rockville, 28 June '09 (*H. W.*).

**Gargaphia tiliae** (Walsh).

N. H.— Hampton, 8 May '09 (*S. A. S.*); Intervale, 18 Aug. '08 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).

MASS.— Chester, 5 Aug. '14 (*C. W. J.*).

CONN.— Pleasant Valley, Litchfield Co., 5 Sept. '15 (*G. P. E.*).

**Gargaphia angulata** Heidemann.

MASS.— Westfield, 10 July '05 (*C. W. J.*).

CONN.— Brookfield, 27 July '10 (*E. L. D.*); Hartford, 15 June '13 (*W. E. B.*); New Haven, 19 Aug. '13 (*L. B. R.*).

**Leptostyla heidemanni** Osborn and Drake.

Bull. Ohio Biol. Surv., 1916, vol. 2, no. 8, p. 238.

MASS.— Eastham, 27 June '04 (*C. W. J.*); Fall River, 22 July '05 (*J. A. C.*); Forest Hills, 8 Aug. '78 (*S. H.*); Newton, 16 June '14 (*J. R. T. B.*); Woods Hole, 25 July '05 (*J. A. C.*).

**Physatocheila plexa** (Say) Parshley.

R. I.— Kingston, 2 May '10 (*J. B.*); Providence (*C. A. D.*).

**Physatocheila brevirostris** Osborn and Drake.

Bull. Ohio Biol. Surv., 1916, vol. 2, no. 8, p. 243.

MASS.— Beach Bluff, 4 July '15 (*H. M. P.*).

**Physatocheila variegata** Parshley.

Psyche, 1916, vol. 23, p. 166.

ME.— Orono, 8 May '80 (*H. T. F.*).

MASS.— Wellesley, 19 May '91 (*A. P. M.*).

CONN.— Brookfield, 25 July '10 (*E. L. D.*); Portland, 15 May '14 (*B. H. W.*).

**Melanorhopala clavata** Stål.

ME.— Pownal, 15 July (*O. O. S.*).

MASS.— Amherst, 18 July '00; Beach Bluff, 21 June '15 (*H.*

*M. P.*); Fall River, 22 June '05 (*J. A. C.*); Newton, 16 June '14 (*J. R. T. B.*); Woods Hole, July (*T. H. M.*).

R. I.—Cumberland, 3 July '10 (*J. B.*).

CONN.—New Haven, 23 July '10 (*B. H. W.*).

***Melanorhopala obscura* Parshley.**

*Psyche*, 1916, vol. 23, p. 167.

MASS.—Beach Bluff, 21 June '15 (*H. M. P.*); Nahant, 16 July '15 (*H. M. P.*); Wollaston, 28 June '96 (*F. H. S.*).

***Hesperotingis antennata* Parshley.**

*Psyche*, 1917, vol. 24, p. 21.

CONN.—New Haven, 4 Sept. '11 (*C. E. O.*).

***Hesperotingis antennata borealis* Parshley.**

*Psyche*, 1917, vol. 24, p. 24.

N. H.—Hampton, 15 Aug. '09 (*S. A. S.*).

***Alveotingis grossocerata* Osborn and Drake.**

Bull. Ohio Biol. Surv., 1916, vol. 2, no. 8, p. 245.

ME.—Orono, 5 Aug. '13 (*H. O.*).

N. H.—Mt. Washington (*W. F. F.*).

**ENICOCEPHALIDAE.**

***Systelloderes biceps* (Say).**

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*).

**PHYMATIDAE.**

***Phymata vicina* Handlirsch.**

MASS.—Amherst, 6 June '03; Clifftondale, 29 May '78 (*S. H.*); Gardner, 15 Aug. '16; Nantucket, 4 July '05 (*J. A. C.*).

R. I.—(*fide Van Duzee*).

CONN.—New Haven, 9 July '11 (*B. H. W.*).

**Phymata erosa wolffi** Stål.

Vt.—Middlebury, July '12; Winooski, 14 Aug. '01 (*C. A. D.*); Woodstock, 20 Aug. '10 (*A. P. M.*).

MASS.—Amherst; Beach Bluff, 19 Aug. '13 (*H. M. P.*); Edgartown, 22 Aug. '12 (*C. W. J.*); Forest Hills, 3 Oct. '16 (*C. A. F.*); Nantucket, 4 July '05 (*J. A. C.*); Provincetown, 1 Sept. '14 (*C. W. J.*); Woods Hole, 23 Aug. '14 (*W. M. M.*).

R. I.—Buttonwoods, 25 July '11 (*C. W. J.*); Kingston (*J. B.*); Providence (*C. A. D.*).

CONN.—Greenwich, 9 July '07 (*J. A. C.*); New Canaan, 14 Sept. '05 (*W. E. B.*); New Haven, 7 Sept. '05 (*E. B. W.*); S. Meriden, 3 Aug. '14 (*H. L. J.*).

## REDUVIIDAE.

## EMESINAE.

## Tribe PLOIARIOLINI.

**Ploiariola errabunda** (Say).

N. H.—(*Harris Coll.*).

MASS.—Amherst, 5 June '14 (*G. C. C.*); Beverly, 15 July '09 (*C. W. J.*).

**Ploiariola tuberculata** Banks.

ME.—Monmouth, 27 June '12 (*C. A. F.*); Paris, 4 July '16 (*C. A. F.*).

MASS.—Fall River, 22 May '11 (*N. S. E.*); Sherborn, 30 May '16 (*C. A. F.*).

**Ploiariola hirtipes** Banks.

ME.—Orono (*H. T. F.*).

VT.—Brattleboro, 15 July '08 (*C. W. J.*).

MASS.—Nantucket, 21 Aug. '11 (*H. T. F.*).

R. I.—Kingston, 19 Aug. '05 (*J. B.*).

## Tribe EMESINI.

**Emesa brevipennis** (Say) (= *E. longipes* DeGeer).

MASS.—Amherst; Boston, 23 Sept. '09 (*C. W. J.*); Cambridge, 22 Sept. '00 (*C. O.*); Cohasset, 10 Sept. '05 (*O. B.*); Concord, 14 Oct. '10 (*C. W. J.*); Saugus, 22 Aug. '14 (*H. M. P.*); Wellesley, Aug. '98 (*A. P. M.*); Wollaston, 1 Oct. '82 (*F. H. S.*).

R. I.—Kingston, Sept. '03 (*J. B.*).

CONN.—Farmington, 17 Aug. '14 (*W. M.*); Manchester, 14 Sept. '10 (*B. H. W.*); New Canaan, 21 Sept. '09 (*A. I. B.*); New Haven, 27 Aug. '11 (*M. P. Z.*).

**Barce annulipes** Stål.

N. H.—Jackson, 22 Sept. '07 (*O. B.*).

MASS.—Andover, 9 Sept. '15 (*F. X. W.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Framingham, 10 July '05 (*C. A. F.*); Malden.

CONN.—New Haven, 26 Feb. '11 (*A. B. C.*).

**Barce uhleri brunnea** Banks.

MASS.—Brookline, 24 Sept. '13 (*C. W. J.*); Forest Hills, 30 March '15 (*F. X. W.*), 17 April '15 (*C. T. B.*), 31 May '15 (*F. X. W.*); Truro, 4 Sept. '04 (*A. P. M.*); Tyngsboro, 6 Mar. '98 (*F. B.*).

**Barce fraterna** (Say).

MASS.—Cambridge, Sept. (*fide Banks*); Framingham, 26 Aug. '06 (*C. A. F.*); Milton, 17 June '27 (*Harris Coll.*); Salem (*Harris Coll.*).

## STENOPODINAE.

**Pygolampis sericea** Stål.

N. H.—Durham (*C. M. W. & W. F. F.*).

**Pygolampis pectoralis** (Say).

ME.—Manchester (*fide Storer*).

N. H.—Mt. Washington, summit (*fide Slosson*).

MASS.—Amherst, 28 May '92; Framingham, 10 July '05 (*C. A. F.*); Milton, 15 May '26 (*Harris Coll.*); Tyngsboro (*F. B.*).

#### REDUVIINAE.

##### **Reduvius personatus** (Linné).

ME.—Brunswick (*fide Stover*); Gorham, 10 June '13 (*W. B. H.*); Newbury Neck, near Surry, 22 June '03 (*F. A. E.*); Orono, 21 July '12; Pownal (*O. O. S.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Mountain View, Aug. '15 (*A. M. W.*).

Vt.—Middlebury, July '12.

MASS.—Amherst; Cohasset, 20 June '08 (*O. B.*); Danvers, 1 June '08; Forest Hills, 11 June '14 (*H. M. P.*); Framingham, 9 July '07 (*C. A. F.*); Tyngsboro (*F. B.*); W. Brookfield, 12 July.

CONN.—Litchfield, June '09 (*L. B. W.*).

#### PIRATINAE.

##### **Melanolestes picipes** (Herrich-Schaeffer).

N. H.—Webster, July '00.

MASS.—Framingham, 16 April '05 (*C. A. F.*); Sherborn, 15 May '14 (*C. A. F.*); Wellesley, 8 Aug. '07 (*A. P. M.*).

R. I.—Kingston, 26 Sept. '07 (*J. B.*); Providence, 6 Oct. (*C. A. D.*).

CONN.—Durham, 16 Sept. '10 (*W. E. B.*); Lyme, 20 Aug. '10 (*A. B. C.*); Middlebury, 26 May '11 (*W. E. B.*); S. Meriden, 27 Sept. '14 (*H. L. J.*); W. Haven, 11 May '05 (*B. H. W.*).

##### **Melanolestes picipes abdominalis** (Herrich-Schaeffer).

MASS.—Framingham (*C. A. F.*).

R. I.—Kingston, 13 May '05, 18 Oct. '05 (*J. B.*); Providence (*C. A. D.*).

CONN.—Canaan, 4 May '12 (*D. J. C.*); New Canaan, 22 Sept. '10 (*W. E. B.*); New Haven, 25 May '11 (*A. B. C.*); Salisbury, 27 Aug. '04 (*W. E. B.*); Torrington (*G. H. H.*).

## APIOMERINAE.

**Apiomerus crassipes** (Fabricius).

CONN.—New Haven, 20 June '02 (*E. J. S. M.*); Woodbury, 19 July '13 (*W. E. B.*).

## HARPACTORINAE.

## Tribe ZELINI.

**Zelus exsanguis** Stål.

ME.—Manchester (*O. O. S.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Washington, summit (*fide Slosson*).

VT.—Bennington, 22 June '14 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Amherst, 1 June '98; Chester, 27 May '12 (*C. W. J.*); Edgartown, 28 June (*C. W. J.*); Forest Hills, 15 June '16 (*A. M. W.*); Woods Hole, 9 Aug. '14 (*W. S. A.*); Worcester, 6 July '15 (*F. X. W.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Kingston, July '14 (*J. B.*); Tiverton, 12 July '16 (*C. W. J.*).

CONN.—Portland, 5 June '15 (*M. P. Z.*); Wallingford, 2 July '12 (*D. J. C.*).

**Zelus socius** Uhler.

ME.—Monmouth, 18 July '14 (*C. A. F.*); Northeast Harbor, 27 July '11 (*C. S. M.*).

MASS.—Hopkinton, 14 June '14 (*C. A. F.*).

**Zelus audax** Banks.

MASS.—Andover; Tyngsboro (*F. B.*).

CONN.—Portland, 10 Aug. '13 (*B. H. W.*).

**Rhynocoris ventralis** (Say).

ME.—Monmouth, 26 June '06 (*C. A. F.*).

MASS.—Framingham, 12 June '04 (*C. A. F.*).

***Pselliopus cinctus* (Fabricius).**

MASS.—Amherst; Auburndale, 25 Sept. '11 (*C. W. J.*); Bedford, 12 May (*C. W. J.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Forest Hills, 16 May '16 (*A. M. W.*); Framingham, 4 Sept. '04 (*C. A. F.*).

R. I.—Kingston, 4 July '14 (*J. B.*); Providence (*C. A. D.*).

CONN.—Lyme, 14 May '11 (*A. B. C.*); New Canaan, 20 Sept. '12 (*H. B. K.*); New Haven, 9 June '14 (*Q. S. L.*); Poquonock, 27 June '05 (*B. H. W.*); Portland, 15 Aug. '13 (*B. H. W.*); S. Meriden, 31 May '14 (*H. L. J.*); Stonington, 1 July '14 (*I. W. D.*).

***Fitchia aptera* Stål.**

ME.—Manchester; Monmouth; Orono, 31 May '14 (*H. M. P.*).

N. H.—Hampton, 27 April '98 (*S. A. S.*); Hanover (*C. M. W.*).

Vt.—Norwich (*C. M. W.*).

MASS.—Cohasset, 21 Sept. '14 (*H. M. P.*); Forest Hills, 27 March '15 (*F. X. W.*); Framingham (*C. A. F.*); Horseneck Beach, 30 July '13 (*C. W. J.*); S. Sudbury, 5 Nov. '05 (*O. B.*); Tyngsboro, 16 Oct. (*F. B.*).

CONN.—New Haven, 21 April '11 (*A. B. C.*); Orange, 21 May '11 (*B. H. W.*); S. Meriden, 3 Oct. '14 (*H. L. J.*).

## Tribe HARPACTORINI.

***Acholla multispinosa* (DeGeer).**

ME.—(*fide Storer*).

N. H.—Alton (*F. B.*); Durham (*C. M. W. & W. F. F.*).

MASS.—Amherst, 14 Aug. '00; Cambridge, 27 Aug. '07 (*A. P. M.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Fall River; Forest Hills, 16 Sept. '14 (*H. M. P.*); Sherborn, 31 Aug. '14 (*C. A. F.*).

R. I.—Kingston, Oct. '04 (*J. B.*).

CONN.—Hartford, 22 Oct. '06 (*B. H. W.*); Manchester, 21 Sept. '11 (*B. H. W.*); New Canaan, 2 Oct. '07 (*W. E. B.*); Wallingford, 14 Aug. '10 (*D. J. C.*); Westville, 7 Sept. '05 (*B. H. W.*); Windsor Locks, 1 Sept. '03 (*W. E. B.*).

**Sinea diadema** (Fabricius).

ME.—Fryeburg, 20 Aug. '12 (*A. P. M.*); Orono, 3 Sept. '13; Westbrook, 13 Sept. '00 (*O. O. S.*).

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords, 28 Sept. '16 (*H. M. P.*); Durham (*C. M. W. & W. F. F.*); Holderness, 17 Aug. '99 (*A. P. M.*).

Vt.—Hartland, 9 Aug. '13 (*P. W. W.*); Newport, 12 July '91 (*A. P. M.*).

MASS.—Amherst, 2 Aug. '05; Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Forest Hills, 17 Sept. '14 (*H. M. P.*); Nantucket, 20 Sept. '15 (*W. S. A.*); N. Adams, 13 Aug. '07 (*C. W. J.*); Peru, 26 Aug. '04 (*J. B.*); West Chop, 22 July '93 (*A. P. M.*); West Newbury; Woods Hole, 9 Aug. '15 (*W. S. A.*).

R. I.—Kingston, 2 Aug. '05 (*J. B.*); Providence, 15 Sept. (*C. A. D.*).

CONN.—Canaan, 18 Aug. '94 (*A. P. M.*); Colebrook, 1 Sept. '11 (*W. M. W.*); New Canaan, 11 Sept. '14 (*M. P. Z.*); Meriden, 28 July '09 (*A. I. B.*); Stafford, 24 Aug. '05 (*W. E. B.*); Torrington (*R. H.*).

## HEBRIDAE.

**Hebrus burmeisteri** Lethierry and Severin.

MASS.—Edgartown, 28 June '12 (*C. W. J.*); Framingham, 22 Oct. '16 (*C. A. F.*); Sherborn, 6 Jan. '17 (*C. A. F.*); Tyngsboro, April '91 (*F. B.*).

CONN.—New Haven, 25 March '11 (*A. B. C.*).

## MESOVELIIDAE.

**Mesovelia mulsanti** White.

MASS.—Forest Hills, 17 June '14, 8 Oct. '14 (*H. M. P.*); Saugus, 22 Aug. '15 (*H. M. P.*).

## NABIDAE.

## PROSTEMMINAE.

**Pagasa fusca** (Stein).

- ME.—Orono; Paris, 10 July '15 (*C. A. F.*).  
 N. H.—Mt. Washington, summit (*fide Slosson*).  
 VT.—Stratton, 7 July '13 (*P. W. W.*).  
 MASS.—Boston, 30 Aug. '14 (*F. X. W.*); Framingham, 10 Oct. '07 (*C. A. F.*); Milton, 17 June '27 (*Harris Coll.*).  
 R. I.—Portsmouth, 23 July '08 (*N. S. E.*).  
 CONN.—Lyme, 20 Aug. '10 (*A. B. C.*); New Canaan, 23 Sept. '10, winged form (*W. E. B.*).

## NABINAE.

## Tribe NABINI.

**Nabis subcoleoptratus** Kirby.

- ME.—Belfast; Ft. Kent, 17 Aug. '10 (*C. W. J.*); Orono, 11 July '05; Pemaquid Pt., Aug. '06 (*H. W. F.*); Southwest Harbor, 25 July '10 (*H. T. F.*).  
 N. H.—Hanover, 3 July '08 (*C. W. J.*); N. Conway, 30 July '91 (*A. P. M.*); Webster (*W. F. F.*).  
 VT.—Newport, 12 July '91 (*A. P. M.*); St. Johnsbury, 23 July '91 (*A. P. M.*).  
 MASS.—Amherst, 2 July '94; Framingham, 10 Oct. '07 (*C. A. F.*); Winchendon, 1 July '92 (*A. P. M.*).  
 CONN.—Litchfield, 29 June '13 (*L. B. W.*); Salisbury, 29 Aug. '04 (*W. E. B.*).

**Nabis sordidus** Reuter.

- MASS.—Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Brookline, 6 Sept. (*C. W. J.*); Woods Hole, 10 July '05 (*J. A. C.*).  
 R. I.—Buttonwoods, 18 June '12 (*C. W. J.*).

**Nabis annulatus** Reuter.

- MASS.—Auburndale, 16 Aug. (*C. W. J.*); Blue Hills, 14 Aug.

'78 (*S. H.*); Boston, Chestnut Hill, 24 Sept. '14 (*C. W. J.*); Sharon, 25 Aug. '13; Weston, 23 July '11; Woods Hole (*fide T. H. M.*).

R. I.—Kingston, 18 Aug. '07 (*J. B.*).

CONN.—Portland, 7 Aug. '13 (*B. H. W.*).

**Nabis propinquus** Reuter.

ME.—Liberty, 17 July '12 (*J. A. C.*).

MASS.—Beach Bluff, 13 Aug. '14 (*H. M. P.*); Fanueil, 12 Aug. '04 (*A. P. M.*); Tisbury, 31 July '11 (*J. A. C.*).

**Nabis limbatus** Dahlbom.

ME.—Bowlin Pond, 31 July '10 (*J. A. C.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Machias, 26 July '06 (*C. W. J.*); Princeton, 12 July '09 (*C. W. J.*); Township 2, Range 7, Penobscot Co., 2 Aug. '10 (*J. A. C.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Crawfords, 28 Oct. '16 (*H. M. P.*); Mt. Washington, Tuckerman's Ravine, 6 Sept. '95 (*A. P. M.*).

MASS.—Mt. Greylock, 3500 ft., 17 Aug. '94 (*A. P. M.*).

**Nabis flavomarginatus** Scholz.

ME.—Eastport, 15 July '09 (*C. W. J.*); Machias, 17 July '09 (*C. W. J.*).

**Nabis ferus** (Linné).

ME.—Bowlin Pond, 31 July '10 (*J. A. C.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Naples, 1 July '13 (*C. W. J.*); Orono, 17 April '12 (*H. M. P.*).

Vt.—Mt. Ascutney, 23 July '12 (*C. W. J.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Durham (*C. M. W.* & *W. F. F.*); Glen House, 20 July '15 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).

MASS.—Amherst; Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Forest Hills, 12 May '16 (*H. M. P.*); Provincetown, 8 Sept. '90 (*A. P. M.*); Tisbury, 6 Aug. '11 (*J. A. C.*); Tuckernuck Id., 5 Aug. '13 (*J. A. C.*); Winchendon, 1 July '92 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

R. I.—Block Id., 28 Aug. '91 (*A. P. M.*); Kingston, 30 April '05, 17 July '05 (*J. B.*); Providence, 30 March (*C. A. D.*).

CONN.—Cheshire, 8 July '04 (*H. L. V.*); Hartford, 7 May '14 (*W. M.*), 19 Oct. '04 (*W. E. B.*); Lyme, 4 Oct. '10 (*A. B. C.*); New Haven, 31 Oct. '03 (*E. J. S. M.*); N. Windham, 14 July '94 (*A. P. M.*); Windsor, 18 July '04 (*B. H. W.*).

***Nabis roseipennis* Reuter.**

ME.—Orono, 7 May '14, 5 Oct. '13 (*H. M. P.*).

N. H.—Jackson, 22 Sept. '07; Mt. Washington, summit (*fide Slosson*).

MASS.—Amherst, 28 May '92; Beach Bluff, 31 Aug. '14 (*H. M. P.*); Blue Hills, 22 May '15 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Chester, 27 May '12 (*C. W. J.*); Forest Hills, 10 April '16 (*A. M. W.*); N. Adams, 18 June '06 (*C. W. J.*); Peru, 29 Aug. '04 (*J. B.*); Winchendon, 2 July '92 (*A. P. M.*).

R. I.—Kingston, 30 April '05, 17 July '05 (*J. B.*); Providence, 30 March (*C. A. D.*).

CONN.—Danbury, 15 June '09 (*C. W. J.*); Hartford, 17 July '05 (*H. W. W.*); Litchfield, 9 March '13 (*L. B. W.*); S. Meriden, 6 May '15 (*H. L. J.*); Winnipauk, 16 June '09 (*C. W. J.*).

***Nabis rufusculus* Reuter.**

ME.—Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Liberty, 13 Sept. '13 (*J. A. C.*); Orono, 19 April '14 (*H. M. P.*); Unity (*W. C. W.*).

N. H.—Bretton Woods, 26 June '13 (*C. W. J.*); Fabyans (*W. F. F.*); Hanover, 8 July '08 (*C. W. J.*); Jackson, 22 Sept. '07 (*C. W. J.*); Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*); N. Conway, 18 April '15.

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Gorham (*J. H. E.*); Manchester, 8 June '10 (*C. W. J.*); Montpelier, 25 June '06 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Beverly, 24 April '92 (*A. P. M.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Forest Hills, 1 June '15 (*H. M. P.*); Franklin, 26 May '16 (*H. M. P.*); Peru, 26 Aug. '04 (*J. B.*); Prov-

incetown, 8 Sept. '90 (*A. P. M.*); Winchendon, 1 July '92 (*A. P. M.*); Woods Hole, 12 Sept. '15 (*W. S. A.*).

CONN.— Danbury, 15 June '09 (*C. W. J.*); Litchfield, 7 May '15 (*L. B. W.*); S. Kent, 20 Aug. '94 (*A. P. M.*).

**Nabis brevis** Scholz.

CONN.— Cromwell, 13 Dec. '10, on nursery stock imported from England (*A. B. C.*).

**Metatropiphorus belfragei** Reuter.

MASS.— Manomet, 5 Aug. '12 (*W. S. B.*); Tyngsboro, 17 July '92 (*F. B.*).

CIMICIDAE.

CIMICINAE.

**Cimex lectularius** Linné.

ME.— Orono.

MASS.— Amherst, 12 March '98; Beach Bluff, 22 June '13 (*H. M. P.*); Framingham, 26 June '15 (*C. A. F.*); Woods Hole, July (*T. H. M.*).

R. I.— Block Id., 25 July '10; Kingston, Aug. '08 (*J. B.*).

CONN.— North Haven, 16 Oct. '08 (*B. H. W.*); Hartford, 13 Aug. '91 (*A. P. M.*).

**Cimex pilosellus** Horváth.

MASS.— East Wareham, 14 June '15 (*O. Bangs*).

**Oeciacus vicarius** Horváth.

ME.— Franklin, 18 June '16.

MASS.— East Douglas, 7 Aug. '96.

CONN.— Mt. Carmel, 29 May '03 (*L. L. D.*).

## ANTHOCORIDAE.

## LYCTOCORINAE.

**Xylocoris cursitans** (Fallén).<sup>1</sup>

- N. H.—North Conway, 18 April '15.  
 MASS.—Forest Hills, 23 Feb. '15, 26 Oct. '15 (*H. M. P.*); Lynn,  
 18 Aug. '15 (*H. M. P.*).  
 CONN.—New Haven, 24 Nov. '10 (*A. B. C.*).

## ANTHOCORINAE.

**Macrotracheliella nigra** Parshley.

- Ent. News, 1917, vol. 28, p. 37.

- MASS.—Chilmark, 14 Aug. '11 (*J. A. C.*).  
 R. I.—Tiverton, 13 Aug. '15 (*N. S. E.*).

**Anthocoris borealis** Dallas (? = *A. musculus* Say).

- ME.—Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10  
 (*C. W. J.*); Holden, 28 June '00 (*F. A. E.*); Mt. Desert (*H. T. F.*);  
 Orono, 30 April '12 (*H. M. P.*); Paris, 15 July '14 (*C. A. F.*).

- N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Mt. Lafayette,  
 summit, 22 Sept. '95 (*F. B.*).

- MASS.—Peru, 28 Aug. '04 (*J. B.*).

- R. I.—Kingston, 7 July '10 (*J. B.*).

**Triphleps insidiosa** (Say).

- ME.—Newbury Neck, near Surrey, 22 June '03 (*F. A. E.*);  
 Orono, 30 Sept. '82 (*H. T. F.*); Pownal (*O. O. S.*).

- N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords,  
 3 Oct. '16 (*H. M. P.*); Intervale, 12 Aug. (*G. M. A.*); Mt. Washington,  
 summit (*fide Slosson*).

- Vt.—St. Johnsbury, 23 July '91 (*A. P. M.*); Woodstock, 11  
 Aug. '98 (*A. P. M.*).

<sup>1</sup> Sometimes determined as *X. galactinus* (Fieber) or *X. sordidus* (Reuter).

MASS.— Beverly, 22 Aug.; Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Forest Hills, 8 Oct. '14 (*H. M. P.*); Manomet, 13 Aug. '12 (*W. S. B.*); Nantucket, 17 Aug. '11 (*H. T. F.*); Westfield, 7 Aug. '11 (*C. W. J.*); Woods Hole (*fide T. H. M.*).

R. I.— Kingston, 17 July '05 (*J. B.*).

CONN.— Branford, 27 June '04 (*H. L. V.*); Brookfield, 27 July '10 (*E. L. D.*); Glastonbury, 13 July '13 (*L. B. R.*); New Haven, 16 Oct. '03 (*H. L. V.*); Rowayton, 5 Aug. '09 (*C. W. J.*).

### TERMATOPHYLIDAE.

**Hesperophylum heidemanni** Reuter and Poppius.

N. H.— Mt. Washington (*fide Reuter and Poppius*).

### MIRIDAE.

#### MIRINAE.

##### Tribe MIRINI.

**Collaria meilleurii** Provancher.

ME.— Ft. Kent, 17 Aug. '10 (*C. W. J.*); Machias, 26 July '06 (*C. W. J.*); Monmouth, 16 July '14 (*C. A. F.*); Orono, 10 Aug. '06; Township 2, Range 7, Penobscot Co., 2 Aug. '10 (*J. A. C.*); S. Harpswell, 27 July '08 (*J. A. C.*).

N. H.— Hanover, 8 July '08 (*C. W. J.*); Holderness, 2 Aug. '99 (*A. P. M.*); N. Conway, 30 July '91 (*A. P. M.*); Squam Lake, 7 Aug. '07 (*C. W. J.*).

Vt.— Mt. Mansfield, 21 July '91 (*A. P. M.*); Newport, 12 July '91 (*A. P. M.*).

MASS.— Brookline, 26 June '77 (*S. H.*); Wellesley, 1 Aug. '94 (*A. P. M.*); Tyngsboro (*F. B.*); Woods Hole (*fide T. H. M.*).

CONN.— Colebrook, 21 July '05 (*H. L. V.*); S. Meriden, 16 July '15 (*H. L. J.*).

***Collaria oculata* (Reuter).**

ME.— Durham (*O. O. S.*).

N. H.— Holderness, 5 Aug. '99 (*A. P. M.*).

MASS.— Amherst, 30 July '97; Dedham, 17 June '92 (*A. P. M.*); Provincetown, 28 July '91 (*A. P. M.*); Winchendon, 1 July '92 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

CONN.— Cheshire, 8 July '04 (*H. L. V.*); New Haven, 1 June '11 (*B. H. W.*).

***Miris dolabratus* (Linne).**

ME.— Eastport, 15 July '09 (*C. W. J.*); Orono, 22 May '14 (*H. M. P.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.— Durham (*C. M. W. & W. F. F.*); Glen House, 15 July '15 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*); Mt. Washington, base, 7 July '14 (*C. W. J.*); Alpine Garden, 4 July '14 (*C. W. J.*); summit (*fide Slosson*).

Vt.— Bennington, 18 June '15 (*C. W. J.*); St. Albans, 19 June '13 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.— Amherst; Edgartown, 28 June '12 (*C. W. J.*); Forest Hills, 17 June '14 (*H. M. P.*); Nantucket, 4 July '05 (*J. A. C.*); N. Adams, 18 June '06 (*C. W. J.*); Provincetown, 29 June '91 (*A. P. M.*); Woods Hole, 2 July '05 (*J. A. C.*).

R. I.— Block Id., 25 July '10; Buttonwoods, 15 June '12 (*C. W. J.*); Kingston, 17 June '05 (*J. B.*).

CONN.— Brookvale, 30 May '02 (*W. E. B.*); Farmington, 14 June '14 (*W. M.*); Greenwich, 9 July '07 (*J. A. C.*); S. Meriden, 6 July '14 (*H. L. J.*).

***Stenodema trispinosum* Reuter.**

ME.— Bowlin Pond, 31 July '10 (*J. A. C.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Orono, 22 May '14 (*H. M. P.*); The Forks, 16 June (*O. O. S.*); Wales, 16 July '15 (*C. A. F.*).

MASS.— Auburndale, 22 May (*C. W. J.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Hyde Park, 21 Oct. '15 (*H. M. P.*); Tisbury, 25 July '11 (*J. A. C.*); Woods Hole, July (*T. H. M.*).

R. I.—Buttonwoods, 25 July '11 (*C. W. J.*); Cumberland, 3 July '10 (*J. B.*); Kingston, 17 June '05 (*J. B.*).

CONN.—Darien, 10 June '12 (*C. W. J.*); New Haven, 10 May '11 (*A. B. C.*), 31 Oct. '03 (*H. L. V.*); Putnam, 12 July '05 (*H. L. V.*); S. Meriden, 18 May '15 (*H. L. J.*).

**Stenodema vicinum** (Provancher).

ME.—Capens, 11 July '07 (*C. W. J.*); Ft. Kent, 17 July '05 (*C. W. J.*); Ironbound Id., 10 Aug. '08 (*J. A. C.*); Orono, 11 May '12 (*H. M. P.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Crawfords, 28 Oct. '16 (*H. M. P.*); Durham (*C. M. W.* & *W. F. F.*); Holderness, 2 Aug. '90 (*A. P. M.*); Mt. Washington, Glen to Halfway House, 8 July '91 (*A. P. M.*); summit (*fide Slosson*).

Vt.—Jay Peak, summit, 14 July '91 (*A. P. M.*).

MASS.—Amherst, 7 Aug. '91; Chester, 8 Aug. '12 (*C. W. J.*); Fall River, 22 July '05 (*J. A. C.*); Forest Hills, 20 May '15 (*S. L. M.*); Hyde Park, 21 Oct. '15 (*H. M. P.*); Mt. Greylock (*C. W. J.*); Peru, 26 Aug. '04 (*J. B.*); Springfield, 13 July '05 (*C. W. J.*).

CONN.—Branford, 28 July '05 (*H. L. V.*); Brookfield, 27 July '10 (*E. L. D.*); Canterbury, 14 Aug. '05 (*B. H. W.*); New Haven, 6 July '04 (*H. L. V.*); Winnipauk, 4 Aug. '08 (*C. W. J.*).

**Mesomiris curtulus** Reuter.

MASS.—Chilmark, 14 Aug. '11 (*J. A. C.*); Edgartown, 22 Aug. '12 (*C. W. J.*); Martha's Vineyard, 11 Sept. '15 (*W. S. A.*).

**Trigonotylus ruficornis** (Fallén).

ME.—Bowlin Pond, 31 July '10 (*J. A. C.*); Capens, 12 July '07 (*C. W. J.*); Eastport, 15 July '09 (*C. W. J.*); Orono (*H. T. F.*).

N. H.—Fabyans (*W. F. F.*); Glen House, 24 July '15 (*C. W. J.*); Hanover, 26 June '91; Mt. Washington, 3000 ft., 28 July '15 (*C. W. J.*); summit (*fide Slosson*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Middlebury, July '12.

MASS.—Beach Bluff, 27 Aug. '14 (*H. M. P.*); Cohasset, 21 Sept. '14 (*H. M. P.*); Edgartown, 29 June '12 (*C. W. J.*); Fram-

ingham, 28 July '14 (*C. A. F.*); Nantucket, 4 July '04 (*J. A. C.*); Woods Hole (*fide T. H. M.*).

CONN.—Branford, 21 June '04 (*H. L. V.*); Colebrook, 20 July '05 (*W. E. B.*).

**Trigonotylus brevipes** Jakovlev.

CONN.—East River, 30 July '10 (*C. R. E.*).

**Trigonotylus tarsalis** (Reuter).

MASS.—Beach Bluff, 22 June '14 (*H. M. P.*); Chelsea; Nantasket, 8 Aug. '06.

CONN.—Colebrook, 20 July '05 (*W. E. B.*).

**Trigonotylus uhleri** (Reuter).

N. H.—Durham (*C. M. W. & W. F. F.*).

MASS.—Cohasset, 21 Sept. '14 (*H. M. P.*); Edgartown, 29 June '12 (*C. W. J.*); Nantucket, 19 Aug. '09 (*J. A. C.*).

CONN.—Stratford, 29 June '08 (*W. E. B.*); Woodmont, 9 July '04 (*P. L. B.*).

**Teratocoris discolor** Uhler.

MASS.—Beach Bluff, 21 June '15, 8 Sept. '15 (*H. M. P.*).

Tribe HORISTINI.

**Platytyllus insitivus** (Say).

ME.—Paris, 7 July '15 (*C. A. F.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Washington, summit (*fide Slosson*).

Vt.—Ascutney Mt., 23 July '12 (*C. W. J.*).

MASS.—Amherst; Milton, July '26 (*Harris Coll.*); Tisbury, 21 July '11 (*J. A. C.*).

R. I.—Kingston, 8 Aug. '07 (*J. B.*); Newport Co., 16 July '12 (*N. S. E.*).

CONN.—Lyme, 20 Aug. '10 (*B. H. W.*).

**Platytyllus confraternus** (Uhler).

Mass.—Amherst, 8 July '11; Milton, 15 Sept. '27 (*Harris Coll.*); Saugus, 21 June '14 (*F. W. D.*).

CONN.—Portland, 14 July '14 (*M. P. Z.*); S. Meriden, 9 July '15 (*H. L. J.*).

**Platytyellus nigricollis** (Reuter).

ME.—W. Brooksville, 30 Aug. '99 (*F. A. E.*).

MASS.—Beach Bluff, 15 Aug. '14 (*H. M. P.*); Framingham, 22 Aug. '14 (*C. A. F.*).

**Platytyellus insignis** (Say).

ME.—Mt. Kineo (*fide Stover*); Orono, 15 July '13; Paris.

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Mt. Washington, summit (*fide Slosson*); Webster (*W. F. F.*).

Vt.—Newport, 12 July '91 (*A. P. M.*); Norwich (*C. M. W.*).

MASS.—Danvers, 3 Aug. '15 (*H. M. P.*); West Chop, 4 July '93 (*A. P. M.*); Winchendon, 1 July '92 (*A. P. M.*).

R. I.—Cumberland, 3 July '10 (*J. B.*); Kingston (*J. B.*).

CONN.—Cheshire, 8 July '04 (*H. L. V.*); Colebrook, 21 July '05 (*H. L. V.*).

Tribe CAPSINI.

Division *Myrmecoraria*.

**Pithanus maerkeli** (Herrick-Schaeffer).

ME.—Eastport, 14 July '09 (*C. W. J.*); Mistake Id., 9 Aug. '07 (*J. A. C.*); Roque Bluff, 15 Aug. '07 (*J. A. C.*).

Division *Phytocoraria*.

**Neurocolpus nubilus** (Say).

ME.—Orono.

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover, 3 July '15 (*C. W. J.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*).

MASS.—Amherst; Chester, 8 Aug. '12 (*C. W. J.*); Cohasset, 8 Sept. (*O. B.*); Forest Hills, 17 June '14, 4 Oct. '15 (*H. M. P.*); Mt. Tom, 14 July '05 (*C. W. J.*); Rockport, 15 July '04 (*C. W. J.*); Williamsburg, 7 Aug. '11 (*C. W. J.*); Woods Hole, 5 Sept. '15 (*W. S. A.*).

R. I.—Kingston, 10 Aug. '07 (*J. B.*); Providence, 30 June (*C. A. D.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Litchfield, 21 Aug. '15 (*L. B. W.*); New Haven, 6 July '04 (*H. L. V.*); Portland, 14 Aug. '13 (*B. H. W.*); S. Meriden, 13 July '15 (*H. L. J.*); Woodbury, 14 July '13 (*W. E. B.*).

**Phytocoris lasiomerus** Reuter.

ME.—Orono, 30 July; Monmouth, 16 July '14 (*C. A. F.*); Staceyville, Aug. '02 (*H. G. B.*).

N. H.—Hanover, 6 July '08 (*C. W. J.*); Holderness, 1 Aug. '99 (*A. P. M.*).

Vt.—Amsden, 10 July '08 (*C. W. J.*).

MASS.—Peru, 29 Aug. '04 (*J. B.*).

**Phytocoris pallidicornis** Reuter.

ME.—Orono, 12 Sept. '13 (*H. M. P.*); Liberty, 6 Sept. '13 (*J. A. C.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*).

MASS.—Beach Bluff, 8 Sept. '15 (*H. M. P.*); Forest Hills, 17 Sept. '14 (*H. M. P.*); Nantucket, 9 Aug. '09 (*J. A. C.*).

**Phytocoris minutulus** Reuter.

MASS.—Forest Hills, 16 Sept. '14 (*H. M. P.*).

**Phytocoris antennalis** Reuter.

MASS.—Ipswich, July '09 (*E. P. V. D.*) (*fide Van Duzee*).

**Phytocoris annulicornis** (Reuter).

MASS.—Beach Bluff, 27 Aug. '14 (*H. M. P.*); Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*).

**Phytocoris fenestratus** Reuter.

CONN.—Salisbury, 27 Aug. '04 (*W. E. B.*).

**Phytocoris inops** Uhler.

MASS.—Blue Hills, 15 Sept. '14 (*H. M. P.*).

**Phytocoris eximius** Reuter.

ME.—Ft. Kent, 17 Aug. '10 (*C. W. J.*); Orono, 30 June; Waldo-boro.

N. H.—Durham (*C. M. W.* & *W. F. F.*); Hanover (*C. M. W.*).

MASS.—Saugus, 7 Sept. '14 (*H. M. P.*); West Chop, 5 Aug. '93 (*A. P. M.*).\*

R. I.—Kingston, 31 Aug. '07 (*J. B.*).

CONN.—Branford, 15 July '04 (*H. W. W.*); East River, 3 Aug. '10 (*C. R. E.*); Hartford, 12 Sept. '07 (*W. E. B.*); Litchfield, 27 June '14 (*L. B. W.*); New Haven, 27 June '04 (*W. E. B.*); Portland, 14 Aug. '13 (*B. H. W.*).

**Phytocoris infuscatus** Reuter.

MASS.—Fall River, 9 July '05 (*J. A. C.*).

CONN.—East River, July '10 (*C. R. E.*).

**Phytocoris puella** Reuter.

MASS.—Auburndale, 9 Aug. (*C. W. J.*); Saugus, 7 Sept. '14 (*H. M. P.*).

R. I.—Kingston, 26 Aug. '07; Sept. '07 (*J. B.*).

CONN.—East River, Aug. '10 (*C. R. E.*).

**Phytocoris puella confluens** Reuter.

CONN.—East River, Aug. '10 (*C. R. E.*); New Haven, 9 July '12.

**Phytocoris tibialis** Reuter.

VT.—Brattleboro, 13 June '08 (*C. W. J.*).

MASS.—Beach Bluff, 31 Aug. '14 (*H. M. P.*); Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Chester, 15 June '12 (*C. W. J.*); Williamsburg, 2 Aug. '11 (*C. W. J.*).

R. I.—Kingston, 10 Aug. '07 (*J. B.*).

CONN.—Branford, 20 July '05 (*H. W. W.*); East River, Aug. '10 (*C. R. E.*).

**Adelphocoris rapidus** (Say).

ME.—Ft. Kent, 10 Aug. '10 (*C. W. J.*); Orono, 25 Sept. '13 (*H. M. P.*); Pownal (*O. O. S.*).

N. H.—Claremont (*R. P. D.*) (*fide Torre Bueno*); Crawfords, 28 Sept. '16 (*H. M. P.*); Durham (*C. M. W. & W. F. F.*); Glen House, 7 July '14 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Bennington, 22 June '15 (*C. W. J.*).

MASS.—Amherst; Beach Bluff, 27 June '15 (*H. M. P.*); Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Martha's Vineyard; 11 Sept. '15 (*W. S. A.*); Peru, 26 Aug. '04 (*J. B.*); Woods Hole, 5 Sept. (*W. S. A.*).

R. I.—Cumberland, 5 July '10 (*J. B.*); Kingston, 15 July '05 (*J. B.*).

CONN.—Chapinville, 27 Aug. '04 (*W. E. B.*); Farmington, 14 June '14 (*W. M.*); New Haven, 24 June '02 (*E. J. S. M.*); Rowayton, 5 Aug. '08 (*C. W. J.*); Scotland, 27 July '04 (*B. H. W.*); Stafford, 24 Aug. '05 (*W. E. B.*); Yalesville, 19 Oct. '03 (*H. L. V.*).

**Stenotus binotatus** (Fabricius).

MASS.—Amherst; Beach Bluff, 22 June '14 (*H. M. P.*); Forest Hills, 17 June '14 (*H. M. P.*); Newton, 16 June '14 (*J. R. T. B.*).

**Garganus fusiformis** (Say).

MASS.—Amherst, 1 Sept. '99.

CONN.—Branford, 29 July '05 (*W. E. B.*).

Division *Dichrooscytaria*.

**Paracalocoris scrupeus** (Say) McAtee.

Ann. Ent. Soc. Amer., 1916, vol. 9, p. 370.

MASS.—Auburndale, 4 July '07 (*C. W. J.*).

CONN.—New Canaan, 24 June '15 (*M. P. Z.*); Unionville, 11 June '14 (*W. M.*).

**Paracalocoris scrupeus triops** McAtee.

Ann. Ent. Soc. Amer., 1916, vol. 9, p. 371.

Vt.—Bennington, 21 June '15 (*C. W. J.*).

MASS.—Fall River, 27 June '15 (*N. S. E.*).

**Paracalocoris scrupeus par** McAtee.

Ann. Ent. Soc. Amer., 1916, vol. 9, p. 373.

Vt.—Bennington, 24 June '15 (*C. W. J.*).

**Paracalocoris scrupeus bidens** McAtee.

Ann. Ent. Soc. Amer., 1916, vol. 9, p. 374.

Vt.—Bennington, 19–24 June '15 (*C. W. J.*).

MASS.—Auburndale, 4 July '07 (*C. W. J.*); Forest Hills, 17 June '14 (*H. M. P.*).

R. I.—Tiverton, 12 July '16 (*C. W. J.*).

CONN.—Farmington, 19 June '14 (*W. M.*); Wallingford, 14 June '11 (*J. K. L.*).

**Paracalocoris scrupeus nubilus** McAtee.

Ann. Ent. Soc. Amer., 1916, vol. 9, p. 375.

Vt.—Bennington, 22 June '15 (*C. W. J.*) (*atypical*).

**Paracalocoris limbus** McAtee.

Ann. Ent. Soc. Amer., 1916, vol. 9, p. 380.

MASS.—Brookline, 4 July (*C. W. J.*); Mt. Tom, 14 July '05 (*C. W. J.*).

**Paracalocoris colon amiculus** McAtee.

Ann. Ent. Soc. Amer., 1916, vol. 9, p. 384.

MASS.—Boston (vicinity).

**Calocoris norvegicus** (Gmelin).

ME.—Eastport, 15 July '09 (*C. W. J.*); Orono, 25 July '82 (*H. T. F.*); Orr's Id., 15 July '09 (*C. W. J.*).

MASS.—Beverly (*E. B.*); Cohasset, 25 June (*O. B.*); Eastham, 27 June '09 (*C. W. J.*); Forest Hills, 17 June '14 (*H. M. P.*); Hyannisport, 4 July '04 (*J. A. C.*); Nantucket, 4 July '04 (*J. A. C.*); Rockport, 15 July '04 (*C. W. J.*).

**Poeciloscytus unifasciatus** (Fabricius).

ME.—Capens, 11 July '07 (*C. W. J.*).

? VT.—(*fide Banks*).

**Poeciloscytus basalis** Reuter.

ME.—Orono, 15 Aug. '05; Westbrook, 13 Oct.

N. H.—Hanover, 5 July '92 (*A. P. M.*).

Vt.—Middlebury, 12 July.

MASS.—Beach Bluff, 24 Aug. '15 (*H. M. P.*); Edgartown, 22 Aug. '12 (*C. W. J.*); Fall River, 14 June '06 (*N. S. E.*); Forest Hills, 7 Sept. '14 (*H. M. P.*); Nantucket, 4 July '05 (*J. A. C.*); Provincetown, 27 June '91 (*A. P. M.*); Squantum, 3 Oct. '14 (*H. M. P.*); Woods Hole, July (*T. H. M.*).

R. I.—Buttonwoods, 25 July '11 (*C. W. J.*).

CONN.—Bantam, 19 June '14 (*W. E. B.*); East River, Sept. '10 (*C. R. E.*); New Haven, 17 June '02.

**Poeciloscytus venaticus** Uhler.

ME.—Machias, 22 July '09 (*C. W. J.*); Monmouth, 15 July '14 (*C. A. F.*); Staceyville, 15 Aug. '02 (*H. G. B.*).

N. H.—Glen House, 15 July '15 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*).

Vt.—Newport, 13 July '91 (*A. P. M.*); Norwich, 8 July '08 (*C. W. J.*).

MASS.—Amherst, 31 July '00; Auburndale, 28 June (*C. W. J.*); Framingham, 27 June '14 (*C. A. F.*); Newton, 16 June '14 (*J. R. T. B.*); Swampscott, 1 Aug. '14 (*H. M. P.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Colebrook, 20 July '05 (*W. E. B.*); Darien, 10 June '12 (*C. W. J.*); Greens Farms, 24 June (*W. E. B.*); Greenwich, 9 July '07 (*J. A. C.*); Hartford, 25 June '15 (*W. M.*); West Haven, 27 June '05 (*H. L. V.*).

**Dichrooscytus suspectus** Reuter.

ME.—Mt. Katahdin, 3000 ft., Aug. '02 (*H. G. B.*).

MASS.—Lowell (*fide Reuter*).

R. I.—Kingston, Sept. '07 (*J. B.*).

CONN.—Stonington, 15 July '14 (*I. W. D.*).

**Horcias dislocatus** (Say).

N. H.—Durham (*C. M. W. & W. F. F.*).

CONN.—Branford, 28 July '05 (*H. L. V.*); Darien, 10 June '12

(*C. W. J.*); New Haven, 1 June '11 (*B. H. W.*); S. Meriden, 1 June '15 (*H. L. J.*); Wallingford, '11 (*D. J. C.*); Winnipauk, 16 June '09 (*C. W. J.*).

**Horcias dislocatus coccineus** (Emmons) (= *H. d. scutellatus* Van Duzee).

N. H.—Durham (*C. M. W. & W. F. F.*).

MASS.—Forest Hills, 17 June '14 (*H. M. P.*).

CONN.—Branford, 5 July '05 (*H. W. W.*); S. Meriden, June '15 (*H. L. J.*).

**Horcias dislocatus goniphorus** (Say).

ME.—Liberty, 17 July '12 (*J. A. C.*); Monmouth, 15 July '14 (*C. A. F.*); Orono, 15 Aug.

N. H.—Durham (*C. M. W. & W. F. F.*); Hanover, 3 July '15 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Bennington, 19 June '15 (*C. W. J.*); Burlington, 23 June '06 (*C. W. J.*); St. Albans, 29 June '13 (*C. W. J.*).

MASS.—Amherst; Boston, 2 July '03 (*H. M. P.*); N. Adams, 20 June '06 (*C. W. J.*).

CONN.—Branford, 29 June '05 (*H. W. W.*); Litchfield, 28 June '03 (*L. B. W.*); New Haven, 1 June '11 (*B. H. W.*); S. Meriden, 10 June '14 (*H. L. J.*); Winnipauk, 16 June '09 (*C. W. J.*).

**Horcias dislocatus limbatus** (Walker).

N. H.—Durham (*C. M. W. & W. F. F.*).

Vt.—Bennington, 19 June '15 (*C. W. J.*); St. Albans, 29 June '13 (*C. W. J.*).

MASS.—Amherst, 16 June '05.

CONN.—Branford, 5 July '05 (*H. W. W.*); New Haven, 1 June '11 (*B. H. W.*); S. Meriden, June '15 (*H. L. J.*); Winnipauk, 12 June '15 (*C. W. J.*).

**Horcias dislocatus marginalis** (Reuter).

ME.—Ft. Kent, 17 Aug. '10 (*C. W. J.*).

Vt.—Burlington, 22 June '06 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).

CONN.—Branford, 1 June '06 (*H. W. W.*); S. Meriden, June '15 (*H. L. J.*).

***Horcias dislocatus nigrita* Reuter.**

ME.—Ft. Kent, 19 Aug. '10 (*C. W. J.*); Paris, 10 July '14 (*C. A. F.*).

N. H.—Durham (*C. M. W. & W. F. F.*).

Vt.—Burlington, 22 June '06 (*C. W. J.*); Jay, 17 July '91 (*A. P. M.*); Montpelier, 25 June '06 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*); St. Albans, 29 June '13 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Auburndale, 25 June '05 (*C. W. J.*); Boston, 2 July '03 (*H. M. P.*).

CONN.—Branford, 27 June '04 (*H. L. V.*); Darien, 10 June '12 (*C. W. J.*); New Haven, 6 June '04 (*H. L. V.*); S. Meriden, 13 July '15 (*H. L. J.*); Winnipauk, 12 June '15 (*C. W. J.*).

***Horcias dislocatus pallipes* Van Duzee.**

ME.—Ft. Kent, 17 Aug. '10 (*C. W. J.*).

N. H.—Hanover, 8 July '08 (*C. W. J.*).

Vt.—Burlington, 22 June '06 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).

CONN.—S. Meriden, June '15 (*H. L. J.*).

***Poecilocapsus lineatus* (Fabricius).**

ME.—Capens, 12 July '07 (*C. W. J.*); Eastport, 16 July '09 (*C. W. J.*); Ft. Kent, 17 Aug. '10 (*C. W. J.*); Orono; Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Glen House, 15 July '14 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Burlington, 22 June '06 (*C. W. J.*); Newport, 13 July '91 (*A. P. M.*); Stratton, 8 July '13 (*P. W. W.*).

MASS.—Amherst, 15 July '01; Eastham, 27 June '04 (*C. W. J.*); Forest Hills, 17 June '14 (*H. M. P.*); Springfield, 13 July '05

(*C. W. J.*); Rockport, 15 July '04 (*C. W. J.*); Woods Hole, 25 July '05 (*J. A. C.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Providence, 6 July (*C. A. D.*).

CONN.—Danbury, 15 June '09 (*C. W. J.*); Greenwich, 9 July '07 (*J. A. C.*); Hartford, 26 June '14 (*W. M.*); New Haven, 12 June '96 (*W. E. B.*); S. Meriden, 6 July '14 (*H. L. J.*); Stonington, 5 July '06 (*J. A. H.*).

Division *Capsaria*.

***Capsus ater* (Linné).**

ME.—Orono, 19 June '05.

N. H.—Bretton Woods, 24 June '13 (*C. W. J.*); Claremont (*R. P. D.*) (*fide Torre Bueno*); Durham (*C. M. W. & W. F. F.*); Glen House, 15 July '15 (*C. W. J.*); Hampton; Mt. Washington, summit (*fide Slosson*).

VT.—Ascutney Mt., 23 June '06 (*C. W. J.*); Newport, 12 July '91 (*A. P. M.*); St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Beach Bluff, 21 June '14 (*H. M. P.*); Cheshire, 20 June '06 (*C. W. J.*); Cohasset, 6 June (*O. B.*); Forest Hills, 1 June '15 (*H. M. P.*); Peru, June '04 (*J. B.*); West Springfield, 4 June '15 (*H. E. S.*); Winchendon, 1 July '92 (*A. P. M.*); Woods Hole, 1 July '05 (*J. A. C.*).

R. I.—Kingston, 17 June '05, 4 Aug. '05 (*J. B.*).

CONN.—Danbury, 15 June '09 (*C. W. J.*); Middlebury, 16 June '10 (*B. H. W.*); Mt. Carmel, 22 June '08 (*W. E. B.*); New Haven, 20 May '04 (*B. H. W.*); Southington, 5 July '05 (*B. H. W.*); Windsor, 27 June '05 (*B. H. W.*).

***Capsus ater tyrannus* (Fabricius).**

ME.—Capens, 18 July (*C. W. J.*); Paris, 8 July '14 (*C. A. F.*).

N. H.—Glen House, 15 July '15 (*C. W. J.*).

VT.—Burlington, 23 June '06 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Amherst, 10 June '03; Beach Bluff, 21 June '14 (*H. M. P.*); Boston, 14 June '03 (*H. M. P.*); Woods Hole, 1 July '05 (*J. A. C.*).

**Capsus ater semiflavus** (Linné).

ME.—Eastport, 15 July '09 (*C. W. J.*); Holden, 18 June '04 (*F. A. E.*); Monmouth, 20 June '09 (*C. A. F.*).

N. H.—Jackson, 3 July '91 (*A. P. M.*).

MASS.—Amherst, 11 June '92; Beach Bluff, 21 June '15 (*H. M. P.*); Forest Hills, 17 June '14 (*H. M. P.*); Framingham, 24 Sept. '05 (*C. A. F.*); Sherborn, 10 June '94 (*A. P. M.*).

CONN.—New Haven, 22 June '04 (*B. H. W.*); Westville, 2 June '08 (*B. H. W.*).

**Coccobaphes sanguinareus** Uhler.

ME.—Manchester, 3 Aug. (*O. O. S.*); Monmouth, 27 June '06 (*C. A. F.*).

N. H.—Glen House, 25 July '14 (*C. W. J.*).

Vt.—Ascutney Mt., 2000 ft., 11 July '08 (*C. W. J.*); Montpelier, 25 June '06 (*C. W. J.*); Stratton, 1 July '13 (*P. W. W.*).

MASS.—Amherst, 4 Aug. '04; Mt. Greylock, 8 Aug. '07 (*C. W. J.*); Mt. Tom, July '14 (*C. W. J.*); Natick, 20 June '14 (*C. A. F.*); Sharon, 28 June '16 (*C. W. J.*).

CONN.—Hartford, 26 June (*W. M.*); Litchfield, 20 June '08 (*L. B. W.*); New Haven, 12 June '02 (*W. E. B.*); S. Meriden, 27 June '14 (*H. L. J.*).

**Lygidea rubecula** (Uhler).

ME.—Capens, 18 July '07 (*C. W. J.*); Machias, 19 July (*C. W. J.*).

N. H.—Fabyans (*W. F. F.*); Glen House, 15 July '15 (*C. W. J.*); Hanover, 3 July '15 (*C. W. J.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*).

**Lygidea mendax** Reuter.

ME.—Orono, 30 June.

CONN.—New Haven, 15 June '14, 1 July '14 (*M. P. Z.*); Wallingford, 5 July '11 (*D. J. C.*).

**Lygus pratensis punctatus** (Zetterstedt).

ME.—Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10

(*C. W. J.*); Ironbound Id., 10 Aug. '08 (*J. A. C.*); Orono, 7 May '14 (*H. M. P.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Jackson, 22 Sept. '07 (*O. B.*); Lebanon, 4 Sept. '15 (*H. E. S.*); Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Brattleboro, 15 June '08 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).

Mass.—Chester, 8 Aug. '12 (*C. W. J.*); Forest Hills, 7 May '15 (*S. L. M.*); Hyde Park, 21 Oct. '15 (*H. M. P.*); Mt. Greylock, 15 June '06 (*C. W. J.*); Tisbury, 25 July '11 (*J. A. C.*); Tuckernuck Id., 5 Aug. '13 (*J. A. C.*); Nantucket, 19 Aug. '09 (*J. A. C.*); W. Springfield, 21 Oct. '15 (*H. E. S.*).

R. I.—Block Id., 28 Aug. '91 (*A. P. M.*); Buttonwoods, 25 July '11 (*C. W. J.*).

Conn.—Colebrook, 21 July '05 (*H. L. V.*); Greenwich, 9 July '07 (*C. W. J.*); Litchfield, 9 March '13 (*L. B. W.*); Mt. Carmel, 27 April '15 (*Q. S. L.*); Yalesville, 19 Oct. '03 (*H. L. V.*).

#### ***Lygus pratensis rubidus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

ME.—Capens, 12 July '07 (*C. W. J.*); Eastport, 15 July '09 (*C. W. J.*); Machias, 22 July '09 (*C. W. J.*); Orono, 5 June '13 (*H. M. P.*); Paris, 4 July '15 (*C. A. F.*).

N. H.—Bretton Woods, 27 June '13 (*C. W. J.*); Fabyans (*W. F. F.*); Glen House, 3 July '14 (*C. W. J.*); Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*).

Vt.—Stratton, 8 July '13 (*P. W. W.*).

Mass.—Chester, 8 Aug. '12 (*C. W. J.*); Mt. Greylock, 15 June '06 (*C. W. J.*):

#### ***Lygus vanduzeei* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

ME.—Belfast, 21 July '12 (*J. A. C.*); Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 17 Aug. '10 (*C. W. J.*); Liberty, 17 July '12 (*J. A. C.*); Monmouth, 23 June '07 (*C. A. F.*); Northeast

Harbor, 27 Sept. '07 (*C. S. M.*); Orono, 7 Sept. '06; Township 2, Range 7, Penobscot Co., 2 Aug. '10 (*J. A. C.*).

N. H.— Bretton Woods, 26 June '13 (*C. W. J.*); Crawfords, 28 Oct. '16 (*H. M. P.*); Glen House, 15 July '15 (*C. W. J.*); Hanover, 3 July '15 (*C. W. J.*); Jackson, 22 Sept. '07 (*O. B.*); Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*); Wonalancet, 13 Sept. '12 (*J. A. C.*).

Vt.— Ascutney Mt., 11 July '08 (*C. W. J.*); Burlington, 22 June '06; Dummerston, 14 July '08 (*C. W. J.*); Manchester, 8 June '10 (*C. W. J.*); Montpelier, 25 June '06 (*C. W. J.*).

MASS.— Amherst, 23 June '04; Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Chester, 3 Aug. '11 (*C. W. J.*); E. Gloucester, 30 Aug. '12 (*C. W. J.*); Forest Hills, 24 Sept. '15 (*H. M. P.*); Mt. Greylock, 15 June '06 (*C. W. J.*); Mt. Tom, 14 July '05 (*C. W. J.*); N. Adams, 18 June '06 (*C. W. J.*); Southbridge, 8 July '13 (*C. W. J.*); Springfield, 13 July '05 (*C. W. J.*).

CONN.— Brookfield, 27 July '10 (*E. L. D.*); S. Meriden, 7 July '15 (*H. L. J.*).

#### ***Lygus vanduzeei rubroclarus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

ME.— Capens, 11 July '07 (*C. W. J.*); Machias, 26 July '06 (*C. W. J.*); Orono, 5 June '13 (*H. M. P.*).

N. H.— Bretton Woods, 30 June (*E. P. V. D.*); Fabyans (*W. F. F.*); Glen House, 3 July '14 (*C. W. J.*); Mt. Washington, 3000 ft., 8 July '14 (*C. W. J.*).

Vt.— Mt. Mansfield, 29 June (*G. P. E.*); Stratton, 8 July '13 (*P. W. W.*).

MASS.— Mt. Greylock, 15 June '06 (*C. W. J.*).

#### ***Lygus plagiatus* Uhler.**

ME.— (*fide Uhler*).

MASS.— Forest Hills, 30 Sept. '15 (*H. M. P.*); Pigeon Cove, 30 July '16 (*C. E. O.*); Swampscott, 19 Aug. '14 (*H. M. P.*).

R. I.— Kingston, 26 April '04 (*J. B.*).

***Lygus rubicundus*** (Fallén).

ME.—Paris, 10 July '14 (*C. A. F.*).

MASS.—(*fide Uhler*).

***Lygus campestris*** (Linné).

ME.—Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Orono, 2 May '13 (*H. M. P.*); Orr's Id., 25 July '09 (*C. W. J.*).

N. H.—Hanover, 3 July '13 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).

VT.—Ascutney Mt., 23 July '12 (*C. W. J.*); Brattleboro, 15 June '08 (*C. W. J.*); Newport, 12 July '91 (*A. P. M.*); St. Albans, 21 June '13 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Mt. Tom, 14 July '05 (*C. W. J.*); Plymouth, 28 July '05 (*C. W. J.*).

CONN.—Branford, 28 July '05 (*H. H. W.*); Colebrook, 21 July '05 (*H. L. V.*); West Haven, 3 April '05 (*W. E. B.*); Westville, 2 June '08 (*B. H. W.*); Winnipauk, 16 June '09 (*C. W. J.*).

***Lygus pabulinus signifer*** Reuter.

ME.—Capens, 12 July '07 (*C. W. J.*); Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Mt. Katahdin (*H. G. B.*); Naples, 1 July '13 (*C. W. J.*); Orono, 17 Aug. '05; Traveller Mt., 27 July '12 (*J. A. C.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Glen House, 20 July '15 (*C. W. J.*); Hanover, 6 July '08 (*C. W. J.*); Mt. Washington, 3000 ft., 28 July '15 (*C. W. J.*); summit (*fide Slosson*).

VT.—Ascutney Mt., 11 July '08 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Killington Peak, 11 Aug. '93 (*A. P. M.*); Mt. Mansfield, 4000 ft., 21 July '91 (*A. P. M.*); Norwich, 8 July '08 (*C. W. J.*).

MASS.—Beach Bluff, 25 June '15 (*H. M. P.*); Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*); Chester, 8 Aug. '12 (*C. W. J.*); Manomet, 27 July (*W. S. B.*); Mt. Greylock, 15 June '06 (*C. W. J.*); Woods Hole (*C. T. B.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Kingston, 17 July '05 (*J. B.*).

CONN.—Cheshire, 8 July '04 (*H. L. V.*); Darien, 10 June '12 (*C. W. J.*); Middletown, 17 June '09 (*C. W. J.*); New Haven, 10 June '10 (*B. H. W.*); Stafford, 28 Aug. '05 (*W. E. B.*).

***Lygus approximatus* (Stål).**

ME.—Mt. Katahdin, 3000 ft., Aug. '02 (*H. G. B.*).

N. H.—Mt. Washington, 2500 ft., 24 Sept. '07 (*O. B.*); Randolph, 18 Sept. (*W. T. D.*).

***Lygus olivaceus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

MASS.—Manomet, 8 Aug. '12 (*W. S. B.*); Tisbury, 6 Aug. '11 (*J. A. C.*).

CONN.—East River, 7 Sept. '10 (*C. R. E.*).

***Lygus olivaceus viridiuseulus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

MASS.—Tisbury, 5 Aug. '11 (*J. A. C.*).

***Lygus apicalis* Fieber.**

ME.—Liberty, 6 Sept. '13 (*J. A. C.*).

***Lygus fagi* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

N. H.—Glen House, 15 July '15 (*C. W. J.*).

Vt.—Dummerston, 14 July '08 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*).

MASS.—Chester, 8 Aug. '12 (*C. W. J.*); Mt. Greylock, 8 Aug. '12 (*C. W. J.*).

***Lygus invitus* (Say) Knight.**

Can. Ent., 1917, vol. 48, p. 346.

Vt.—Burlington, 22 June '06 (*C. W. J.*); Norwich, 8 July (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—North Adams, 20 June (*C. W. J.*); Swampscott, 9 July '14 (*H. M. P.*).

CONN.—Danbury, 5 June '09 (*C. W. J.*); S. Meriden, June '15 (*H. L. J.*); Winnipauk, 16 June '09 (*C. W. J.*).

***Lygus atritylus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

VT.—Stowe, 29 June (*G. P. E.*).

N. H.—Franconia (*A. T. S.*).

***Lygus confusus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

ME.—Machias, 22 July '09 (*C. W. J.*).

N. H.—Mt. Washington, 16 July.

***Lygus alni* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

N. H.—Franconia (*A. T. S.*).

***Lygus geneseensis* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

MASS.—Pigeon Cove, 28 July '16 (*C. E. O.*).

***Lygus viburni* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

VT.—Bennington, 22 June '15 (*C. W. J.*).

CONN.—New Haven, 11 June '14 (*B. H. W.*).

***Lygus parshleyi* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

ME.—Eastport, 14 July '09 (*C. W. J.*).

N. H.—Bretton Woods, 26 June '13 (*C. W. J.*); Glen House, 23 July '15 (*C. W. J.*).

***Lygus tiliae* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

VT.—Middlebury, July '12.

MASS.— Springfield, 13 July '05 (*C. W. J.*).

CONN.— Middletown, 17 June '09 (*C. W. J.*); Poquonock, 27 June '05 (*H. L. V.*).

***Lygus caryae* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

Vt.— Bennington, 22 June '15 (*C. W. J.*).

MASS.— Amherst; Forest Hills, 17 June '14 (*H. M. P.*).

CONN.— New Haven, 24 June '05 (*B. H. W.*); Portland, 5 June '14 (*B. H. W.*); Yalesville, 27 June '07 (*B. H. W.*).

***Lygus caryae subfuscus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

MASS.— Forest Hills, 11 June '14 (*H. M. P.*).

CONN.— Portland, 5 June '14 (*B. H. W.*).

***Lygus vitticollis* Reuter.**

ME.— Orono, 12 July '05.

N. H.— Bretton Woods, 28 June '13 (*C. W. J.*); Mt. Washington, 2500 ft., 24 July '15 (*C. W. J.*).

Vt.— Amsden, 10 July '08 (*C. W. J.*).

MASS.— Auburndale, 25 June '05 (*C. W. J.*); Blue Hills, 6 June ('C. W. J.); Framingham, 11 June '11 (*C. A. F.*); Groton, 8 July '05 (*C. W. J.*); Pocasset, 6 Aug. '12 (*J. A. C.*); Rutland, 31 July '16 (*C. W. J.*).

R. I.— Buttonwoods, 18 June '12 (*C. W. J.*).

CONN.— Danbury, 15 June '09 (*C. W. J.*); East River, Aug. '10 (*C. R. E.*); Litchfield, 20 June '08 (*L. B. W.*); New Haven, 9 June '05 (*B. H. W.*).

***Lygus neglectus* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

MASS.— Manomet, 26 July; Tisbury, 25 July '11 (*J. A. C.*).

***Lygus communis* Knight.**

Can. Ent., 1916, vol. 48, p. 346.

ME.— Capens, 12 July (*C. W. J.*); Eastport, 15 July '03 (*C.*

*W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Orono; Paris, 10 July '14 (*C. A. F.*).

N. H.—Bretton Woods, 20 June (*E. P. V. D.*); Glen House, 24 July '15 (*C. W. J.*); Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*); summit (*fide Slosson*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Bennington, 22 June '15 (*C. W. J.*); Burlington, 22 June '06 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Beach Bluff, 21 June '14 (*H. M. P.*); Cheshire, 20 June '06 (*C. W. J.*); N. Adams, 20 June '06 (*C. W. J.*).

CONN.—Middletown, 17 June '09 (*C. W. J.*); S. Meriden, June '15 (*H. L. J.*).

#### ***Lygus quercialbae* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

MASS.—Forest Hills, 11 June '14 (*H. M. P.*); Springfield, 13 July.

#### ***Lygus omnivagus* Knight.**

ME.—Naples, 1 July '13 (*C. W. J.*).

N. H.—Durham (*C. M. W. & W. F. F.*); Glen House, 24 July '15 (*C. W. J.*); Hanover, 3 July '15 (*C. W. J.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Burlington, 22 June '06 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*).

MASS.—Auburndale, 9 Aug. (*C. W. J.*); Beach Bluff, 4 July '15 (*H. M. P.*); Chilmark, 14 Aug. '14 (*J. A. C.*); Gloucester, 20 July (*W. L. M.*); Mt. Tom, 14 July '05 (*C. W. J.*); Pigeon Cove, 29 July (*C. E. O.*); Woods Hole, July (*T. H. M.*).

R. I.—Buttonwoods, 18 June '12 (*C. W. J.*); Kingston, 31 Aug. '07 (*J. B.*).

CONN.—Branford, 28 July '05 (*H. L. V.*); Danbury, 15 June '09 (*C. W. J.*); Darien, 10 June '12 (*C. W. J.*); Double Beach, 5 June (*H. L. V.*); Litchfield, 8 Aug. '12 (*L. B. W.*); Middletown, 17 June '09 (*C. W. J.*); New Haven, 8 June '04 (*B. H. W.*).

#### ***Lygus johnsoni* Knight.**

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

VT.—St. Johnsbury, 28 June '06 (*C. W. J.*).

CONN.—Middletown, 17 June '09 (*C. W. J.*).

**Lygus belfragei** Reuter.

ME.—Calais, 17 July '07 (*C. W. J.*); Capens, 17 July '07 (*C. W. J.*); Machias, 22 July '09 (*C. W. J.*); Princeton, 12 July '09 (*C. W. J.*).

N. H.—Glen House, 20 July '15 (*C. W. J.*); Hanover (*C. M. W.*); Mt. Washington, 3000 ft., 4 July '13 (*C. W. J.*).

VT.—Ascutney Mt., 11 July '08 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Chester, 8 July '12 (*C. W. J.*); E. Gloucester, 30 Aug. '12 (*C. W. J.*); Forest Hills, 17 June '14 (*H. M. P.*); Manomet, 4 July '05 (*C. W. J.*); Mt. Greylock, 8 Aug. '07 (*C. W. J.*); Swampscott, 9 July '14 (*H. M. P.*).

R. I.—Kingston, 27 Aug. '07 (*J. B.*).

**Lygus clavigenitalis** Knight.

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

ME.—Portland, 9 July (*E. P. V. D.*).

**Lygus hirticulus** Van Duzee (= *L. tenellus* Van Duzee).

ME.—Naples, 1 July '13 (*C. W. J.*); Orono, 25 July '05; Paris, 4 July '16 (*C. A. F.*).

N. H.—Glen House, 24 July '15 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*); Mt. Washington, 3000 ft., 28 July '15 (*C. W. J.*).

VT.—Ascutney Mt., 11 July '08 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*).

MASS.—Beach Bluff, 5 July '14 (*H. M. P.*); Mt. Greylock, 8 Aug. '07 (*C. W. J.*); Mt. Tom, 14 July '05 (*C. W. J.*); N. Adams, 18 June '06 (*C. W. J.*); Peru, 26 Aug. '04 (*J. B.*); Sherborn, 26 July '15 (*C. A. F.*).

**Lygus ostryae** Knight.

Bull. Cornell Agr. Exp. Sta., 1917, no. 391.

Vt.—Norwich, 8 July '08 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).

MASS.—Brookline, 4 July (*C. W. J.*); N. Adams, 20 June '06 (*C. W. J.*).

**Tropidosteptes cardinalis** Uhler.

N. H.—Durham (*C. M. W. & W. F. F.*).

Vt.—Bennington, 19 June '15 (*C. W. J.*).

MASS.—Amherst, 16 June '05; Andover (*F. G. S.*) (*fide Uhler*); Groton, 8 July '05 (*C. W. J.*); N. Adams, 18 June '06 (*C. W. J.*).

CONN.—Darien, 10 June '12 (*C. W. J.*); Hamden, 28 May '11 (*B. H. W.*); Meriden, 3 June '10 (*W. E. B.*); New Haven, 3 June '08 (*B. H. W.*); Rowayton, 16 June '09 (*C. W. J.*).

**Neoborus amoenus** (Reuter).

ME.—Orono, 10 Sept. '85 (*H. T. F.*).

Vt.—St. Albans, 19 June '13 (*C. W. J.*).

MASS.—N. Adams, 20 June '08 (*C. W. J.*).

CONN.—New Haven, 28 Sept. '05 (*B. H. W.*).

**Neoborus amoenus palmeri** (Reuter).

CONN.—Washington, 24 June '14 (*G. H. V.*).

**Neoborus amoenus scutellaris** (Reuter).

N. H.—Hanover, 8 July '08 (*C. W. J.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*).

MASS.—Chester, 8 Aug. '12 (*C. W. J.*); Waltham.

R. I.—Kingston, 8 Aug. '07 (*J. B.*).

**Neoborus geminus** (Say).

MASS.—Mt. Greylock.

**Neoborus tricolor** (Van Duzee).

MASS.—Cohasset, 6 June (*O. B.*); N. Adams, 18 June '06 (*C. W. J.*).

**Neoborus pettiti** (Reuter).

CONN.—New Haven, 28 April '05 (*B. H. W.*).

**Neoborus canadensis** (Van Duzee).MASS.—Forest Hills, 11 June 1914 (*H. M. P.*).Division *Deraeocoraria*.**Cimatlan catulum** (Uhler).CONN.—Wallingford, 20 July '10 (*D. J. C.*).**Cimatlan grossum** (Uhler).MASS.—Tyngsboro (*fide Knight*).**Camptobrochis nebulosus** Uhler.ME.—Ashland Jet., 16 Aug. '10 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*).N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Washington, summit (*fide Slosson*).MASS.—Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Forest Hills, 15 Jan. '15 (*S. M. D.*); Lynn, 18 Aug. '15 (*H. M. P.*); Melrose, Nov. '15 (*F. A. S.*); Wellesley, 14 May '16 (*H. M. P.*).R. I.—Buttonwoods, 25 July '11 (*C. W. J.*).CONN.—New Haven, 18 March '11 (*A. B. C.*); S. Meriden, 21 Feb. '15 (*H. L. J.*); Westville, 2 Dec. '05 (*W. E. B.*).**Camptobrochis validus cunealis** Reuter.MASS.—Chester, 7 Aug. '12 (*C. W. J.*); Forest Hills, 6 April '15 (*S. L. M.*).CONN.—New Haven, 15 July (*A. B. C.*); Orange, 21 June '11 (*A. B. C.*).**Camptobrochis grandis** Uhler.ME.—Machias, 26 July '06 (*C. W. J.*); Orono, 1 July '05 (*E. M. P.*).N. H.—Mt. Washington, summit (*fide Slosson*).VT.—Ascutney Mt., 11 July '08 (*C. W. J.*).MASS.—Beach Bluff, 18 July '15 (*H. M. P.*); Chester, 8 Aug. '12 (*C. W. J.*); Danvers, 3 July '14; Natick, 20 June '14 (*C. A. F.*).

R. I.— Providence, 1 July '09 (*J. B.*).

CONN.— New Haven, 15 Aug. '05 (*W. E. B.*); S. Meriden, 4 July '14 (*H. L. J.*); Wallingford, 19 June '12 (*D. J. C.*).

**Camptobrochis grandis nitens** Reuter.

ME.— Mt. Katahdin, 3000 ft., Aug. '02 (*H. G. B.*); Orono, 11 July, 15 Aug. '05.

MASS.— Beach Bluff, 18 July '15 (*H. M. P.*); Blue Hills, 15 Sept. '14 (*H. M. P.*); Forest Hills, 17 Sept. '14 (*H. M. P.*); Saugus, 7 Sept. '14 (*H. M. P.*); Woods Hole, 5 Sept. '15 (*W. S. A.*).

CONN.— East River, 3 Aug. '10 (*C. R. E.*); New Haven, 14 Aug. '12 (*L. B. R.*); S. Meriden, 6 July '14 (*H. L. J.*); Wallingford, 19 June '12 (*D. J. C.*).

**Deraeocoris ruber**<sup>1</sup> (Linnaé).

MASS.— Beach Bluff, 12 July '14, 16 Aug. '15 (*H. M. P.*); Marblehead, 24 July '14 (*H. M. P.*).

CONN.— Hartford, 26 June '14 (*W. M.*); New Haven, 21 June '14 (*B. H. W.*), 21 July '14 (*M. P. Z.*).

BRYOCORINAE.

Tribe BRYOCORINI.

**Sixeonotus insignis** Reuter.

MASS.— Needham, 3 Sept. '11 (*C. W. J.*).

CONN.— Colebrook, 21 July '05 (*H. L. V.*).

**Monalocoris filicis** (Linnaé).

ME.— Ft. Kent, 17 Aug. '10 (*C. W. J.*); Machias, 22 July '09 (*C. W. J.*); Naples, 1 July '13 (*C. W. J.*); Orono, 31 May '14 (*H. M. P.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.— Cornish, 3 July '08; Glen House, 24 July '15 (*C. W. J.*); Mt. Washington, 4000 ft., 28 July '15 (*C. W. J.*); summit (*fide Slosson*).

<sup>1</sup> Including several forms very similar to the named varieties of Europe.

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Jay Peak, 4018 ft., 14 July '91 (*A. P. M.*); Montpelier, 25 June '06 (*C. W. J.*); Mt. Mansfield, 4000 ft., 21 July '91 (*A. P. M.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

Mass.—Blue Hills, 22 May '15 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Chester, 8 Aug. '12 (*C. W. J.*); Forest Hills, 20 May '15 (*H. M. P.*); Mt. Tom, 14 July '05 (*C. W. J.*).

Conn.—Brookfield, 27 July '10 (*E. L. D.*); Lyme, 20 Aug. '10 (*B. H. W.*); Putnam, 12 July '15 (*H. L. V.*).

#### CYLAPINAE.

##### Tribe CYLAPINI.

###### *Cylapus tenuicornis* Say.

R. I.—Kingston, 19 Aug. '07 (*J. B.*).

Conn.—Winnipauk, 21 July '08 (*C. W. J.*).

##### Tribe FULVIINI.

###### *Fulvius brunneus* (Provancher).

ME.—Orono (*H. T. F.*).

N. H.—Mt. Vernon, 6 Sept. '97 (*F. B.*).

Mass.—Fall River, 6 Aug. '10 (*N. S. E.*); Milton, 20 June '31 (*Harris Coll.*); Sherborn, 6 Sept. '14 (*C. A. F.*); Tyngsboro (*F. B.*); Wellesley, 15 Aug. '01 (*A. P. M.*).

R. I.—Kingston, 18 Aug. '07 (*J. B.*).

Conn.—Brookfield, 27 July '10 (*E. L. D.*); New Haven, 28 Aug. '10 (*B. H. W.*).

#### DICYPHINAE.

##### Tribe HALLODAPINI.

###### *Orectoderus obliquus* Uhler.

ME.—Machias, 22 July '09 (*C. W. J.*).

Mass.—Auburndale, 15 June '05 (*C. W. J.*); Berlin, 13 June '15 (*C. A. F.*); Lowell (*fide Kirkaldy*); Manomet, 16 June '12 (*W. S.*

*B.*); Provincetown, 24 June '04 (*C. W. J.*); Wachusett, 22 June '78; Woods Hole, 2 July '05 (*J. A. C.*).

R. I.—Kingston, 23 June '06 (*J. B.*).

CONN.—(*fide Uhler*).

**Coquilletta mimetica** Osborn.

MASS.—Dover, 7 July '94 (*A. P. M.*); Edgartown, 28 June '10 (*C. W. J.*); Framingham, 20 July '12 (*C. A. F.*); Woods Hole, July (*T. H. M.*).

Tribe DICYPHINI.

**Hyaliodes vitripennis** (Say).

ME.—Ashland Jct., 16 Aug. '10 (*C. W. J.*); Ft. Kent, 17 Aug. '10 (*C. W. J.*).

N. H.—Crawfords (*W. F. F.*); Hanover (*C. M. W.*).

VT.—Norwich, 8 July '08 (*C. W. J.*).

MASS.—Chester, 8 Aug. '12 (*C. W. J.*); Fall River, 22 July '05 (*N. S. E.*); Forest Hills, 14 Sept. '14 (*H. M. P.*); Williamsburg, 7 Aug. '11 (*C. W. J.*); Woods Hole, July (*T. H. M.*).

R. I.—Kingston, 10 Aug. '07 (*J. B.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Mt. Carmel, 24 July '04 (*W. E. B.*); New Canaan, 14 Sept. '05 (*W. E. B.*); Pine Orchard, 26 July '04 (*W. E. B.*); Portland, 10 Aug. '13 (*B. H. W.*); Rowayton, 5 Aug. (*C. W. J.*).

**Dicyphus agilis** (Uhler).

ME.—Capens, 12 July '07 (*C. W. J.*); Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Pownal (*O. O. S.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Fabyans (*W. F. F.*); Glen House, 24 July '15 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*); Mt. Washington, 4000 ft., 28 July '15 (*C. W. J.*); summit (*fide Slosson*).

VT.—Ascutney Mt., 23 July '12 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*); St. Johnsbury, 28 June '06 (*C. W. J.*).

MASS.—Brookline, 4 July (*C. W. J.*); Chester, 8 Aug. '12 (*C. W. J.*); Waltham.

CONN.— Colebrook, 21 July '05 (*H. L. V.*); Hamden, 25 June '11 (*B. H. W.*); New Haven, 15 June '04 (*W. E. B.*); Poquonock, 27 June '05 (*H. L. V.*).

**Dicyphus famelicus** (Uhler).

ME.— Liberty, 13 Sept. '13 (*J. A. C.*).

N. H.— Hanover, 6 July '08 (*C. W. J.*); Mt. Washington, 8 July '14 (*C. W. J.*); summit (*fide Slosson*).

VT.— Ascutney Mt., 11 July '08 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Montpelier, 25 June '06 (*C. W. J.*); St. Albans, 19 June '13 (*C. W. J.*).

MASS.— Amherst, 1 Aug. '00; Blue Hills, 15 Sept. '14 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Chester, 26 May '12 (*C. W. J.*); Forest Hills, 19 Sept. '14 (*H. M. P.*); Lynn, 18 Aug. '15 (*H. M. P.*); Saugus, 7 Sept. '14 (*H. M. P.*).

**Macrolophus separatus** (Uhler).

MASS.— Brookline, 25 Sept. '13 (*C. W. J.*); Lynn, 2 Sept. '14 (*H. M. P.*); Saugus, Aug. '06.

### ORTHOTYLINAE.

#### Tribe ORTHOTYLINI.

#### Division *Laboparia*.

**Labops hesperius** Uhler.

ME.— Monmouth, 16 June (*C. A. F.*); Paris, 4 July '15 (*C. A. F.*); Skowhegan, 19 June '00 (*O. O. S.*).

N. H.— Bretton Woods, 24 June '13 (*C. W. J.*); Concord, 4 June '15 (*H. E. S.*); Durham (*C. M. W. & W. F. F.*); Hanover (*C. M. W.*); Jackson, 3 July '91 (*A. P. M.*); Mt. Washington, below Halfway House, 8 July '91 (*A. P. M.*); summit (*fide Slosson*).

VT.— Ascutney Mt., 11 July '08 (*C. W. J.*); Mt. Mansfield, 21 July '91 (*A. P. M.*); Stratton, 10 July '13 (*P. W. W.*).

MASS.— Winchendon, 1 July '92 (*A. P. M.*).

Division *Halticaria*.***Halticus apterus*** (Linné).ME.—Patten, 2 Sept. '03 (*O. O. S.*).***Halticus intermedius*** Uhler.ME.—Orono (*H. T. F.*); Township 4, Range 7, Penobscot Co., 1 Aug. '10 (*J. A. C.*).MASS.—Boston, Chestnut Hill, 24 Sept. '14 (*H. M. P.*).CONN.—Branford, 28 July '05 (*H. L. V.*); S. Meriden, 13 July '15 (*H. L. J.*).***Halticus citri*** Ashmead.ME.—Pownal (*O. O. S.*).MASS.—Amherst, 29 Sept. '96; Beverly, 4 Oct. '71 (*E. B.*).CONN.—Kent, 31 Aug. '04 (*W. E. B.*); New Haven, 16 Oct. '03 (*H. L. V.*); Southport, 9 Sept. '04 (*W. E. B.*).***Strongylocoris stygicus*** (Say).ME.—Bowlin Pond, 31 July '10 (*J. A. C.*); Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 17 Aug. '10 (*C. W. J.*); Machias, 22 July '09 (*C. W. J.*); Paris, 4 July '15 (*C. A. F.*).N. H.—Fitzwilliam, July '07 (*J. H. E.*); Glen House, 20 July '15 (*C. W. J.*); Hanover, 3 July '15 (*C. W. J.*); Mt. Washington, 4000 ft., 28 July '15 (*C. W. J.*); summit, 4 July '14 (*C. A. F.*).VT.—Ascutney Mt., 11 July '08 (*C. W. J.*); Bennington, 22 June '15 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Manchester, 8 June '10 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*); St. Albans, 21 June '13 (*C. W. J.*).MASS.—Amherst, 31 July '00; Beach Bluff, 14 July '14 (*H. M. P.*); Fall River, 17 June '05 (*J. A. C.*); Peru, 29 Aug. '04 (*J. B.*); Springfield, 13 July '05 (*C. W. J.*); Williamsburg, 7 Aug. '11 (*C. W. J.*).R. I.—Kingston, 5 July '07 (*J. B.*).CONN.—Danbury, 15 June '09 (*C. W. J.*); Darien, 10 June '12 (*C. W. J.*); Greenwich, 9 July '09 (*J. A. C.*); New Haven, 26 June '05 (*B. H. W.*); S. Meriden, 13 July '15 (*H. L. J.*); Winnipauk, 16 June '09 (*C. W. J.*).

Division *Pilophoraria*.**Heterocordylus malinus** Reuter.

N. H.—Durham (*C. M. W. & W. F. F.*); Mt. Washington, 4 July '14 (*C. A. F.*).

**Pilophorus amoenus** Uhler.

ME.—Paris, 15 July '14 (*C. A. F.*).

N. H.—Mt. Washington, summit (*fide Slosson*).

MASS.—Cambridge; Marblehead, 24 July '14 (*H. M. P.*); Saugus, 7 Sept. '14 (*H. M. P.*).

**Sericophanes noctuans** Knight.

Ent. News, 1917, vol. 28, p. 4.

MASS.—Woods Hole, July (*T. H. M.*).

CONN.—New Haven, 30 May '11 (*B. H. W.*).

Division *Ceratocapsaria*.**Ceratocapsus modestus** (Uhler).

VT.—Woodstock, 22 July '09 (*A. P. M.*).

MASS.—Amherst, 23 July '97; Beach Bluff, 13 Aug. '14 (*H. M. P.*).

CONN.—East River, 5 Aug. '10 (*C. R. E.*); New Haven, 8 July '09 (*B. H. W.*); S. Meriden, 6 July '14 (*H. L. J.*); Stonington, 7 July '14 (*I. W. D.*).

**Ceratocapsus pumilus** (Uhler).

ME.—Orono, July, 10 Aug. '13.

MASS.—Chester, 8 Aug. '12 (*C. W. J.*); E. Gloucester, 30 Aug. '12 (*C. W. J.*); Mt. Tom, 14 July '05 (*C. W. J.*); Natick; Saugus, 22 Aug. '14 (*H. M. P.*); Sherborn, 30 July '16 (*C. A. F.*).

**Ceratocapsus fasciatus** (Uhler).

MASS.—Pigeon Cove, 28 July '16 (*C. E. O.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*).

Division *Lopidearia*.**Lopidea caesar** (Reuter).

MASS.—Fall River, 7 Aug. '08 (*N. S. E.*); Rutland, 31 July '16 (*C. W. J.*).

CONN.—Portland, 14 July '14 (*M. P. Z.*); 10 Aug. '13 (*B. H. W.*).

**Lopidea instabilis** (Reuter).

N. H.—Durham (*C. M. W. & W. F. F.*); Holderness, 1 Aug. '99 (*A. P. M.*); Webster (*W. F. F.*).

Vt.—Brattleboro, 15 June '08 (*C. W. J.*).

MASS.—Auburndale, 6 Aug. '05 (*C. W. J.*); Fall River, 22 July '05 (*J. A. C.*); Springfield, 13 July '05 (*C. W. J.*).

R. I.—Kingston, 10 Aug. '07 (*J. B.*).

CONN.—Meriden, 15 July '09 (*A. I. B.*); New Haven, 6 July '04 (*H. L. V.*), 14 Aug. '06 (*W. E. B.*).

**Lopidea instabilis marginalis** (Reuter).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*).

MASS.—Auburndale, 6 Aug. '05 (*C. W. J.*).

**Lopidea media** (Say).

ME.—Ashland Jct., 16 Aug. '10 (*C. W. J.*); Belfast, 21 July '12 (*J. A. C.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Mistake Id., 9 Aug. '07 (*J. A. C.*); Paris, 10 July '14 (*C. A. F.*); Princeton, 12 July '09 (*C. W. J.*); Township 4, Range 7, Penobscot Co., 1 Aug. '10 (*J. A. C.*).

N. H.—Crawfords, 28 Sept. '16 (*H. M. P.*); Durham (*C. M. W. & W. F. F.*); Fabyans (*W. F. F.*); Glen House, 15 July '15 (*C. W. J.*); Hanover (*C. M. W.*).

Vt.—Amsden, 10 July '08 (*C. W. J.*); Ascutney Mt., 11 July '08 (*C. W. J.*); Bennington, 19 June '15 (*C. W. J.*).

MASS.—Beach Bluff, 9 July '14 (*H. M. P.*); Fall River, 22 July '05 (*J. A. C.*); Forest Hills, 28 June '79 (*S. H.*); Mt. Tom, 14 July '05 (*C. W. J.*); Peru, Sept. '08 (*J. B.*); Southbridge, 16 July '14 (*C. W. J.*).

R. I.—Kingston, 17 July '05 (*J. B.*).

CONN.— New Haven, 9 June '05 (*B. H. W.*); Portland, 14 July '14 (*M. P. Z.*); Rainbow, 30 June '14 (*B. H. W.*); S. Meriden, 6 July '14 (*H. L. J.*); Woodbury, 14 July '13 (*W. E. B.*).

**Lopidea confluens** (Say).

N. H.— Mt. Washington, summit (*fide Slosson*).

MASS.— Chester, 3 Aug. '11 (*C. W. J.*); Williamsburg, 7 Aug. '11 (*C. W. J.*).

**Lopidea robiniae** (Uhler).

N. H.— Lee (*C. M. W. & W. F. F.*).

Vt.— Middlebury, July '12.

MASS.— Beach Bluff, 22 Aug. '14 (*H. M. P.*); Beverly, 22 Aug. '04; Fall River, 20 July '09 (*N. S. E.*); Springfield, 13 July '05 (*C. W. J.*); Woods Hole, July (*T. H. M.*).

R. I.— Kingston, 26 Aug. '07 (*J. B.*).

CONN.— Branford, 29 July '05 (*H. W. W.*); New Haven, 3 Aug. '05 (*H. L. V.*); Westville, 27 July '05 (*W. E. B.*).

Division *Orthotylaria*.

**Pseudoxenetus scutellatus** (Uhler).

MASS.— Amherst, 9 June '99; Brookline, 21 June '77 (*S. H.*); Forest Hills, 17 June '14 (*H. M. P.*); Newton, 16 June '14 (*J. R. T. B.*).

R. I.— Providence, 11 June '09.

CONN.— Branford, 8 June '12 (*B. H. W.*); Danbury, 15 June '09 (*C. W. J.*); Darien, 10 June '12 (*C. W. J.*); Litchfield, 30 June '16 (*L. B. W.*); New Haven, 12 June '10 (*A. B. C.*); S. Meriden, 14 June '15 (*H. L. J.*).

**Diaphnidia debilis** Uhler.

MASS.— Chester, 8 Aug. '12 (*C. W. J.*).

**Diaphnidia pellucida** Uhler.

ME.— Orono, 22 July.

Vt.— Ascutney Mt., 11 July '08 (*C. W. J.*).

MASS.—Chester, 8 Aug. '12 (*C. W. J.*); Framingham, 7 Sept. '14 (*C. A. F.*).

**Diaphnidia provancheri** Burque.

MASS.—Beach Bluff, 25 June '14 (*H. M. P.*).

**Orthotylus flavosparsus** (Sahlberg).

ME.—Orono, 22 July '07; Pownal, 28 Sept. '01 (*O. O. S.*).

MASS.—Amherst, 31 July '00; Beach Bluff, 24 July '14 (*H. M. P.*); Cohasset, 8 Sept. (*O. B.*); Framingham, 15 Sept. '15 (*C. A. F.*).

CONN.—New Canaan, 29 Sept. '09 (*W. E. B.*); New Haven, 26 June '05 (*H. L. V.*); S. Meriden, 16 July '15 (*H. L. J.*); Stratford, 21 July '08 (*W. E. B.*).

**Orthotylus chlorionis** (Say).

MASS.—Beach Bluff, 9 July '15 (*H. M. P.*); Forest Hills, 17 June '14 (*H. M. P.*).

CONN.—New Haven, 22 June '05 (*H. L. V.*); Noroton, 21 June '13 (*A. H. R.*).

**Orthotylus catulus** Van Duzee.

ME.—Bowlin Pond, 31 July '10 (*J. A. C.*); Traveller Mt., 29 July '10 (*J. A. C.*).

**Orthotylus dorsalis** (Provancher).

ME.—Calais, 10 July '09 (*C. W. J.*); Machias, 17 July '09 (*C. W. J.*).

N. H.—Hanover, 8 July '08 (*C. W. J.*).

Vt.—Ascutney Mt., 11 July '08 (*C. W. J.*).

MASS.—Winchendon, 1 July '92 (*A. P. M.*); Woods Hole (*fide T. H. M.*).

R. I.—Kingston, 23 June '06 (*J. B.*).

**Orthotylus marginatus** (Uhler).

ME.—Eastport, 15 July '09 (*C. W. J.*); Moosehead, 18 July '07 (*C. W. J.*).

MASS.—Winchendon, 1 July '92 (*A. P. M.*).

***Orthotylus cruciatus*** Van Duzee.

ME.—Portland, 9 July '10 (*E. P. V. D.*).

VT.—Stowe, 4 July (*G. P. E.*) (*fide E. P. V. D.*).

MASS.—Amherst, 23 June '96; Danvers, 3 July '14; Marshfield, Aug.; Sherborn, 24 June '14 (*C. A. F.*); Swampscott, 13 July '15 (*H. M. P.*).

CONN.—Hartford, 25 June '14 (*W. M.*); New Haven, 23 June '11 (*A. B. C.*).

***Orthotylus candidatus*** Van Duzee.

N. H.—Mt. Washington (*A. T. S.*).

***Orthotylus necopinus*** Van Duzee.

N. H.—Bretton Woods, 30 June '09 (*E. P. V. D.*); Mt. Washington, Alpine Garden, 4 July '14 (*C. W. J.*).

***Ilnacora malina*** (Uhler).

ME.—Holden, 9 July '96 (*F. A. E.*); Machias, 26 July '09 (*C. W. J.*); Monmouth, 29 June '05 (*C. A. F.*); Paris, 9 July '15 (*C. A. F.*).

N. H.—Fabyans (*W. F. F.*); Glen House, 24 July '15 (*C. W. J.*).

VT.—Amsden, 10 July '08 (*C. W. J.*); Ascutney Mt., 11 July '08 (*C. W. J.*); Norwich, 8 July '08 (*C. W. J.*); Stratton, 8 July '13 (*P. W. W.*).

MASS.—Newton, 16 June '14 (*J. R. T. B.*); Springfield, 13 July '05 (*C. W. J.*); Winchendon, 1 July '92 (*A. P. M.*).

CONN.—S. Meriden, 7 July '15 (*H. L. J.*).

***Mecomma ambulans*** (Fallén).

ME.—Eastport, 15 July '09 (*C. W. J.*); Ft. Kent, 19 Aug. '10 (*C. W. J.*); Machias, 22 July '09 (*C. W. J.*); Mt. Katahdin, 3000 ft., Aug. '02 (*H. G. B.*).

N. H.—Fabyans (*W. F. F.*); Glen House, 24 July '15 (*C. W. J.*); Mt. Washington, 2500 ft., 18 July '15; 4000 ft., 28 July '15 (*C. W. J.*).

VT.—Ascutney Mt., 11 July '08 (*C. W. J.*).

MASS.—Chester, 8 Aug. '12 (*C. W. J.*).

**Orthocephalus mutabilis** (Fallén).

ME.—Orono, 2 July '15 (Knight has compared the specimen recorded with European examples sent by Reuter to the U. S. National Museum).

**Parthenicus vaccinii** Van Duzee.

MASS.—Ipswich, 22 July '09 (*E. P. V. D.*).

## PHYLINAE.

## Tribe PHYLINI.

Division *Oncotylaria*.**Macrotylus sexguttatus** (Provancher).

N. H.—Glen House, 20 July '15 (*C. W. J.*).

**Macrotylus amoenus** Reuter.

MASS.—Mt. Tom, 14 July '05 (*C. W. J.*).

CONN.—Westville, 4 July '04 (*W. E. B.*).

**Onychumenus decolor** (Fallén).

ME.—Ft. Kent, 19 Aug. '10 (*C. W. J.*); Ironbound Id., 10 Aug. '08 (*J. A. C.*); Machias, 22 July '09 (*C. W. J.*); Mistake Id., 9 Aug. '07 (*J. A. C.*); Monmouth, 16 July '14 (*C. A. F.*); Traveller Mt., 29 July '10 (*J. A. C.*).

N. H.—Dublin, 1 Aug.

VT.—Ascutney Mt., 11 July '08 (*C. W. J.*); Dummerston, 14 July '08 (*C. W. J.*); Middlebury, 12 July.

MASS.—Beach Bluff, 14 July '14 (*H. M. P.*); Mt. Greylock, 8 Aug. '07 (*C. W. J.*); Tisbury, 25 July '11 (*J. A. C.*); Woods Hole, July (*T. H. M.*).

R. I.—Kingston, 17 July '05 (*J. B.*).

CONN.—Brookfield, 27 July '10 (*E. L. D.*); Colebrook, 21 July '05 (*H. L. V.*); Danbury, 15 June '09 (*C. W. J.*); New Haven, 11 July '04 (*P. L. B.*); West Thompson, 12 July '05 (*H. L. V.*); Woodbury, 16 July '13 (*W. E. B.*).

Division *Phylaria*.**Reuteroscopus ornatus** (Reuter).CONN.— New Haven, 26 June '12, 28 Aug. '10 (*B. H. W.*).**?Psallus juniperi** Heidemann.ME.— Paris, 10 July '14 (*C. A. F.*).MASS.— Beach Bluff, 28 June '15 (*H. M. P.*); Swampscott, 11 Aug. '15 (*H. M. P.*).**Microphyllum modestus** Reuter.ME.— Machias, 26 July '09 (*C. W. J.*).CONN.— New Haven, 27 June '13 (*L. B. R.*).**Rhinocapsus vanduzeii** Uhler.ME.— Liberty, 17 July '12 (*J. A. C.*); Machias, 22 July '09 (*C. W. J.*).N. H.— Glen House, 24 July '15 (*C. W. J.*); Hanover, 8 July '08 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).VT.— Ascutney Mt., 11 July '08 (*C. W. J.*); Brattleboro, 15 June '08 (*C. W. J.*).MASS.— Fall River, 11 July '13 (*N. S. E.*); Pocasset, 6 Aug. '12 (*J. A. C.*); Rockport, July (*C. W. J.*); Southbridge, 16 July '14 (*C. W. J.*).CONN.— Brookfield, 27 July '10 (*E. L. D.*).**Plagiognathus<sup>1</sup> obscurus** Uhler.ME.— Calais, 10 July '09 (*C. W. J.*); Ft. Kent, 17 Aug. '10 (*C. W. J.*); Monmouth, 15 July '14 (*C. A. F.*); Orono, 16 July '07.N. H.— Glen House, 24 July '15 (*C. W. J.*); Mt. Washington, summit (*fide Slosson*).VT.— Dummerston, 14 July '08 (*C. W. J.*); Jay, 17 July '91 (*A. P. M.*); Mt. Mansfield, 21 July '91 (*A. P. M.*); Norwich, 8 July '08 (*C. W. J.*).MASS.— Beach Bluff, 9 July '14 (*H. M. P.*); Cohasset, 21

<sup>1</sup> A number of forms of *Plagiognathus* and allied genera are at hand which are not recorded here on account of uncertainty in determination.

Sept. '14 (*H. M. P.*); Forest Hills, 4 Oct. '15 (*H. M. P.*); Southbridge, 16 July '14 (*C. W. J.*).

R. I.—Cumberland; Kingston, 11 July '10 (*J. B.*).

CONN.—East River, Aug. '10 (*C. R. E.*); New Haven, 19 July '05 (*B. H. W.*).

#### **Apocremnus politus** (Uhler).

ME.—Machias, 22 July '09 (*C. W. J.*); Orono, 14 July.

MASS.—Agawam, 16 Aug. '15 (*H. E. S.*); Beach Bluff, 22 June '14 (*H. M. P.*); Boston, Chestnut Hill, 13 Oct. '15 (*H. M. P.*); Peru, 29 Aug. '04 (*J. B.*).

R. I.—Kingston, 15 July '05 (*J. B.*); Providence, 7 July (*C. A. D.*).

CONN.—Cheshire, 8 July '04 (*H. L. V.*); Litchfield, 13 July '01 (*L. B. W.*); Mt. Carmel, 24 Aug. '06 (*B. H. W.*); New Haven, 23 June '04 (*H. L. V.*); W. Thompson, 12 July '05 (*H. L. V.*).

#### **Chlamydatus associatus** (Uhler).

MASS.—Beach Bluff, 13 Aug. '14 (*H. M. P.*); Boston, 16 May (*C. W. J.*); Forest Hills, 19 Sept. '14 (*H. M. P.*); Nantucket, 22 Aug. '11 (*H. T. F.*); Wellesley, 9 Oct. '90 (*A. P. M.*); Wollaston, 5 Sept. (*C. W. J.*).

CONN.—New Haven, 12 Sept. '04 (*B. H. W.*).

#### **Campylomma verbasci** (Meyer-Dür).

ME.—Pownal, 26 Aug. '00 (*O. O. S.*).

MASS.—Beach Bluff, 22 June '14, 2 Sept. '14 (*H. M. P.*).

CONN.—Hamden, 14 June '11 (*W. E. B.*); New Haven, 21 June '09 (*B. H. W.*); Westville, 6 Aug. '05 (*W. E. B.*).

## HYDROMETRIDAE.

#### **Hydrometra martini** Kirkaldy.

ME.—Monmouth, 11 July (*C. A. F.*); Orono, 6 May '14 (*H. M. P.*).

N. H.—Durham (*W. F. F.*).

MASS.— Brookline, 15 May '77 (*S. H.*); Cohasset, June '05 (*O. B.*); Forest Hills, 9 May '16 (*H. M. P.*); Framingham, 25 May '15 (*C. A. F.*); Provincetown, 1 Sept. '14; Somerset, 2 July '06 (*C. W. J.*); Woods Hole (*fide T. H. M.*).

R. I.— Kingston, 19 May '13, 11 July '10 (*J. B.*).

## GERRIDAE.

### GERRINAE.

#### *Gerris remigis* Say.

ME.— Auburn (*E. D. M.*); Bethel (*A. M. E.*); Orono, 20 April, 17 May '13 (*H. M. P.*).

N. H.— Crawfords, 2 Oct. '16 (*H. M. P.*); Durham, 14 April '99, Dec. '08 (*W. F. F.*); Mt. Washington, summit (*fide Slosson*).

Vt.— Woodstock, 18 Aug. '98 (*A. P. M.*).

MASS.— Brookline, 30 March '78 (*S. H.*); Danvers, 18 May '14; Forest Hills, 23 Feb. '15, 16 Sept. '14 (*H. M. P.*); Wellesley, 20 April '99 (*A. P. M.*).

R. I.— Kingston, 15 April '10 (*J. B.*).

CONN.— Farmington, 24 May '14 (*W. M.*); New Haven, 18 March '11 (*B. H. W.*); Torrington, 7 July '05 (*W. E. B.*); Winnipauk, 4 Aug. '08 (*C. W. J.*).

#### *Gerris conformis* (Uhler).

ME.— Orono, Sept.

N. H.— Durham (*C. M. W. & W. F. F.*).

MASS.— Amherst, 11 June '92; Chicopee (*R. H. W.*); Milton, 20 Sept. '21 (*Harris Coll.*); Natick; Wellesley, 28 April '99 (*A. P. M.*).

CONN.— Hamden, 1 April '11 (*B. H. W.*); Hartford, 14 May '14 (*W. M.*); Orange, 21 May '11 (*B. H. W.*).

#### *Gerris marginatus* Say.

ME.— Durham; Norway, 19 July (*O. O. S.*); Orono, 6 May '14 (*H. M. P.*); Westbrook.

N. H.— Crawfords, 2 Oct. '16 (*H. M. P.*); Durham, 20 Sept. '01.

MASS.—Amherst; Beach Bluff, 18 July '15 (*H. M. P.*); Forest Hills, 8 April '15 (*F. G. C.*), 1 Oct. '15 (*H. M. P.*); Lynn, 18 Aug. '15 (*H. M. P.*); Woods Hole (*C. T. B.*).

R. I.—Kingston, 13 April '10 (*J. B.*); Providence, 5 May (*C. A. D.*).

CONN.—Cheshire, 6 May '11 (*B. H. W.*); Lyme, 14 May '11 (*A. B. C.*); New Haven, 4 May '11 (*B. H. W.*); Putnam, 12 July '05 (*H. L. V.*); S. Meriden, 26 April '14 (*H. L. J.*).

**Gerris argenticollis** Parshley.

Ent. News, 1916, vol. 27, p. 103.

MASS.—19 April '16, 20 May '15 (*H. M. P.*).

**Gerris buenoi** Kirkaldy.

ME.—Orono, 19 April '14, 15 Sept. '13 (*H. M. P.*).

N. H.—Crawfords, 23 Sept. '16 (*H. M. P.*); Durham (*C. M. W.* & *W. F. F.*); Mt. Washington, Alpine Garden, 4 July '14 (*C. W. J.*).

Vt.—Norwich, 18 May '91 (*C. M. W.*).

MASS.—Cambridge, 4 May '68 (*E. B.*); Forest Hills, 8 April '15 (*F. G. C.*), 1 Oct. '15 (*H. M. P.*); Woods Hole, July (*T. H. M.*).

R. I.—Kingston, 29 April '10, Sept. '07 (*J. B.*).

CONN.—Cheshire, 6 May '11 (*B. H. W.*); Litchfield, 26 July '01 (*L. B. W.*); Milford, 10 Aug. '05 (*W. E. B.*); New Haven, 14 April '11 (*B. H. W.*).

**Gerris canaliculatus** Say.

MASS.—Beverly, 23 May '78 (*E. B.*); Cambridge; Forest Hills, 9 May '16, 1 Oct. '15 (*H. M. P.*); Milton, 23 April '16 (*E. W. T.*).

R. I.—Kingston, 15 April '10, 3 May '08 (*J. B.*).

CONN.—Hamden, 24 Oct. '10 (*B. H. W.*); New Haven, 4 May '11 (*B. H. W.*).

**Limnopus rufoscutellatus** (Latreille).

ME.—Brunswick; Norway (*S. J. S.*); Orono, 6 May '14 (*H. M. P.*), 19 July '05.

N. H.—Crawfords, 2 Oct. '16 (*H. M. P.*); Mt. Washington, Lake of the Clouds, 1 July (*C. A. F.*); summit, 9 July '91 (*A. P. M.*).

MASS.— Beverly, 9 Oct. '75 (*E. B.*); Forest Hills, 9 May '16 (*H. M. P.*); Brookline, 21 June '78 (*S. H.*); Sherborn, 14 April '99 (*A. P. M.*); Wellesley, 10 Sept. '04 (*A. P. M.*).

R. I.— Kingston, 26 April '04 (*J. B.*); Providence, 20 June (*C. A. D.*).

CONN.— New Haven, 28 April '11 (*B. H. W.*).

#### HALOBATINAE.

##### ***Metrobates hesperius* Uhler.**

ME.— Orono, 22 Sept. '09.

MASS.— Cambridge; Dover, 23 Aug. '01 (*A. P. M.*); Sherborn, 5 Aug. '96 (*A. P. M.*); Wellesley, 6 Aug. '00 (*A. P. M.*).

R. I.— Kingston, 18 Oct. '05 (*J. B.*).

##### ***Trepobates pictus* (Herrich-Schaeffer).**

ME.— Mistake Id., 9 Aug. '07 (*J. A. C.*); Orono, 15 Sept. '13 (*H. M. P.*); Roque Bluff, 15 Aug. '07 (*J. A. C.*).

N. H.— Durham, 15 Aug. '00 (*W. F. F.*).

MASS.— Cambridge; Wellesley, 15 Aug. '07 (*A. P. M.*); Winchester, 12 Sept. '07 (*A. P. M.*).

R. I.— Kingston, 12 July '10 (*J. B.*).

#### VELIIDAE.

##### ***Microvelia borealis* Torre Bueno.**

Bull. Brooklyn Ent. Soc., 1916, vol. 11, p. 59.

ME.— Orono, 3 May '14 (*H. M. P.*).

MASS.— Forest Hills, 20 Oct. '14 (*H. M. P.*); Saugus, 22 Aug. '14 (*H. M. P.*).

##### ***Microvelia fontinalis* Torre Bueno.**

Bull. Brooklyn Ent. Soc., 1916, vol. 11, p. 58.

MASS.— Danvers, 3 Aug. '15 (*H. M. P.*).

**Microvelia albonotata** Champion.

MASS.—Danvers, 3 Aug. '15 (*H. M. P.*).

**Microvelia americana** (Uhler).

ME.—Orono, 17 May '13, 19 Sept. '13 (*H. M. P.*); Paris, 10 July '14 (*C. A. F.*); Pownal (*O. O. S.*).

N. H.—Crawfords, 2 Oct. '16 (*H. M. P.*).

Vt.—Dummerston, 14 July '08 (*C. W. J.*).

MASS.—Dover, 16 Aug. '00 (*A. P. M.*); Fall River, 1 April '05 (*N. S. E.*); Forest Hills, 24 March '15, 16 Sept. '14 (*H. M. P.*).

R. I.—Kingston, 29 April '10 (*J. B.*).

CONN.—Cheshire, 6 May '11 (*B. H. W.*); Hamden, 25 May '11 (*B. H. W.*).

**Rhagovelia obesa** Uhler.

ME.—Paris, 15 July '14 (*C. A. F.*).

Vt.—Norwich, 8 July '08 (*C. W. J.*).

MASS.—Dover, 23 Aug. '01 (*A. P. M.*); Milton, 30 Sept. (*Harris Coll.*); Waltham (*P. R. U.*); Wellesley, 6 Aug. '00 (*A. P. M.*).

## SALDIDAE.

## SALDINAE.

**Pentacora signoreti** (Guérin).

MASS.—Woods Hole, 22 July '99.

**Pentacora ligata** (Say).

ME.—Magalloway River (*O. O. S.*); Norway (*O. O. S.*).

N. H.—Glen House, 20 July '15 (*C. W. J.*); Hanover, 6 July '08 (*C. W. J.*).

Vt.—Middlebury, July '12.

MASS.—Mt. Everett, 28 June '12 (*C. W. J.*); Waltham.

**Salda coriacea** Uhler.

ME.—Holden, 4 July '13 (*F. A. E.*); Monmouth, 15 July '14 (*C. A. F.*); Wales, 12 June '09 (*C. A. F.*).

MASS.— Andover (*F. G. S.*) (*fide Uhler*); Beach Bluff, 21 June '15 (*H. M. P.*); Cambridge, 20 June '24 (*Harris Coll.*); Sherborn, 19 June '15 (*C. A. F.*).

CONN.— Orange, 4 June '10 (*B. H. W.*).

**Saldula major** (Provancher).

ME.— Monmouth, 29 June '07 (*C. A. F.*); Orono, 4 Sept. '85 (*H. T. F.*).

N. H.— Mt. Washington, 5000 ft., 26 June '91 (*A. P. M.*).

MASS.— Beach Bluff, 11 Aug. '16 (*H. M. P.*); Brighton, 13 July '64 (*P. R. U.*); Provincetown, 25 June '04; Wellesley, 27 May '91 (*A. P. M.*).

**Saldula confluens** (Say).

CONN.— S. Meriden, 11 July '14 (*H. L. J.*).

**Saldula orbiculata** (Uhler).

MASS.— Cambridge; Cohasset, 12 Sept. (*O. B.*); Wellesley, 17 April '91 (*A. P. M.*).

**Saldula interstitialis** (Say).

ME.— Ft. Kent, 19 Aug. '10 (*C. W. J.*); Orono, 4 Sept. '85 (*H. T. F.*); Paris, 10 July '14 (*C. A. F.*).

N. H.— Hanover, 6 July '08 (*C. W. J.*); Mt. Washington, summit, 30 June '13 (*C. W. J.*).

Vt.— St. Albans, 21 June '13 (*C. W. J.*).

MASS.— Andover (*fide Uhler*); Beach Bluff, 18 Aug. '14 (*H. M. P.*); Cohasset, 15 Sept. (*O. B.*); Forest Hills, 1 June '15 (*H. M. P.*); Lynn, 7 Aug. '14 (*H. M. P.*); Nantucket, 20 July '10 (*J. A. C.*); Sherborn, 19 April '09 (*C. A. F.*); Wellesley, 10 Nov. '90 (*A. P. M.*).

R. I.— Buttonwoods, 18 June '12 (*C. W. J.*).

CONN.— E. Hartford, 13 Aug. '06 (*B. H. W.*); S. Meriden, 24 March '15 (*H. L. J.*); W. Stratford, 16 Aug. '04 (*H. L. V.*).

**Saldula separata** (Uhler).

Vt.— Montgomery, 18 July '91 (*A. P. M.*).

**Saldula reperta** (Uhler).

N. H.—Mt. Washington, summit (*fide Slosson*).

Mass.—Cambridge; Winchendon, 1 July '92 (*A. P. M.*).

**Saldula xanthochila limbosa** (Horváth).

Conn.—Branford, 11 Aug. '04 (*H. L. V.*).

**Saldula pallipes** (Fabricius).

ME.—Eastport, 15 July '09 (*C. W. J.*); Paris, 4 July '15 (*C. A. F.*).

N. H.—Mt. Washington, summit, 30 June '12 (*C. W. J.*).

Vt.—St. Albans, 21 June '13 (*C. W. J.*).

Mass.—Beach Bluff, 18 July '15 (*H. M. P.*); Manomet, 13 Aug. '12 (*W. S. B.*); Wellesley, 24 June '92 (*A. P. M.*).

R. I.—Tiverton, 31 July '10 (*N. S. E.*).

Conn.—W. Stratford, 16 Aug. '04 (*H. L. V.*).

**Saldula sphacelata** (Uhler).

ME.—Machias, 17 July '09 (*C. W. J.*).

Mass.—Beach Bluff, 21 June '15 (*H. M. P.*); Chatham, 30 June '04 (*C. W. J.*); Chelsea; Cohasset, 8 Sept. (*O. B.*); Edgartown, 29 June '12 (*C. W. J.*); Provincetown, 27 June '91 (*A. P. M.*).

R. I.—Buttonwoods, 25 July '11 (*C. W. J.*).

**?Saldula opacula** (Zetterstedt).

ME.—Orono, 4 May '14 (*H. M. P.*).

Mass.—Beach Bluff, 18 July '15 (*H. M. P.*).

**Saldula pellita** (Uhler).

Mass.—Chelsea, 9 July; Newtonville.

**?Saldula saltatoria** (Linné).

Mass.—Agawam, 21 April '16 (*H. E. S.*); Forest Hills, 11 April '15 (*F. X. W.*); Lexington, 19 April '74 (*E. B.*); W. Springfield, 7 April '16 (*H. E. S.*).

R. I.—Providence, 1 Feb. (*C. A. D.*).

Conn.—Lyme, 30 April '11 (*A. B. C.*).

***Micracanthia humilis* (Say).**

N. H.—Mt. Washington, summit (*fide Slosson*).

Vt.—Norwich, 8 July '08 (*C. W. J.*).

MASS.—Beach Bluff, 18 July '15 (*H. M. P.*); Forest Hills, 1 June '15, 30 Sept. '15 (*H. M. P.*); Manomet, 27 July '05; W. Cambridge.

## NOTONECTIDAE.

## NOTONECTINAE.

***Notonecta irrorata* Uhler.**

ME.—Machias; Norway (*S. J. S.*); Orono, 22 May '14, 19 Sept. '13 (*H. M. P.*).

N. H.—Crawfords, 23 Sept. '16 (*H. M. P.*); Durham, 15 Aug. '00 (*W. F. F.*), 18 Sept. '01.

Vt.—Winooski, 30 Aug. '01 (*C. A. D.*).

MASS.—Amherst; Brookline, 17 Nov. '79 (*S. H.*); Forest Hills, 29 April '16 (*H. M. P.*); Peru, 27 Aug. '04 (*J. B.*); Saugus (*F. W. D.*).

R. I.—(*Davis Coll.*).

CONN.—Hamden, 24 April '11 (*B. H. W.*); New Haven, 24 Nov. '10 (*A. B. C.*); Windsor, 26 July '05 (*W. E. B.*).

***Notonecta uhleri* Kirkaldy.**

MASS.—Wellesley, 12 Sept. '98, 22 Oct. '02 (*A. P. M.*).

***Notonecta variabilis* Fieber.**

ME.—Durham, Aug. '99 (*O. O. S.*); Orono, 19 April '14 (*H. M. P.*), 15 Sept.

N. H.—Crawfords, 23 Sept. '16 (*H. M. P.*); Durham (*C. M. W.* & *W. F. F.*); Holderness, 3 Aug. '99 (*A. P. M.*).

Vt.—Woodstock, 13 Aug. '10 (*A. P. M.*).

MASS.—Forest Hills, 29 April '15, 8 Oct. '14 (*H. M. P.*); Saugus (*F. W. D.*); Sherborn, 14 April '99 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

R. I.—Kingston, 5 May '08, 11 Nov. (*J. B.*).

CONN.—Hamden, 24 Oct. '10 (*B. H. W.*); Hartford, 13 Aug. '04 (*H. L. V.*); New Haven, 22 Aug. '04 (*P. L. B.*); S. Meriden, 27 March '14 (*H. L. J.*).

**Notonecta undulata**<sup>1</sup> Say.

ME.—Orono, 20 April '12, 19 Sept. '13 (*H. M. P.*).

N. H.—Crawfords, 23 Sept. '16 (*H. M. P.*); Durham, 4 Oct. '01; Mt. Washington, Lake of the Clouds, 5000 ft., 1 July (*C. A. F.*); N. Chatham, 17 Sept. '06.

Vt.—Winooski, 30 Aug. '04 (*C. A. D.*).

MASS.—Amherst, 26 Aug. '04; Forest Hills, 23 Feb. '15, 15 Oct. '14 (*H. M. P.*); Peru, 27 Aug. '04 (*J. B.*); Woods Hole, July (*T. H. M.*).

R. I.—Kingston, Sept. '07 (*J. B.*).

CONN.—Hamden, 24 Oct. '10 (*B. H. W.*); Southington, 21 April '10 (*B. H. W.*); S. Meriden, 5 April '14 (*H. L. J.*).

**Notonecta insulata** Kirby.

ME.—Orono, 27 April '13 (*H. M. P.*).

N. H.—Mt. Washington, Lake of the Clouds, 5000 ft., 1 July (*C. A. F.*).

MASS.—Amherst; Blue Hills, 11 April '14; Forest Hills, 29 April '15 (*H. M. P.*); Orleans, 13 Apr. '91 (*F. B.*); Peru, 27 Aug. '04 (*J. B.*); Saugus, 3 May '14 (*F. W. D.*); Wellesley, 1 Nov. '04 (*C. A. F.*).

R. I.—Kingston, 11 Nov. '09 (*J. B.*).

CONN.—Litchfield, 30 May '13 (*L. B. W.*).

**Buenoa margaritacea** Torre Bueno.

Vt.—Woodstock, Aug. '09 (*A. P. M.*).

MASS.—Amherst; Forest Hills, 17 June, 15 Oct. '14 (*H. M. P.*).

**Buenoa elegans** (Fieber).

MASS.—Cambridge; Forest Hills, 30 Sept. '14 (*H. M. P.*); Wellesley, 4 Nov. '01 (*A. P. M.*).

<sup>1</sup> Including the varieties, *undulata* Say, *maculata* Fieber, *charon* Kirkaldy, and intergrading forms.

## PLEINAE.

**Plea striola** Fieber.

MASS.— Cambridge, 11 April '08 (*J. A. C.*); Fall River, 17 May '06 (*N. S. E.*); Wayland, 14 May '02 (*A. P. M.*); Wellesley, 6 May '03 (*A. P. M.*).

## NAUCORIDAE.

## NAUCORINAE.

**Pelocoris femoratus** (Palisot de Beauvois).

MASS.— Forest Hills, 10 Oct. '14 (*H. M. P.*); Groton, 11 Oct. '00 (*F. B.*); Quincy, 21 Oct. '05; Sandwich, 19 June '08 (*C. W. J.*); Wellesley, 7 Oct. '02 (*A. P. M.*); Woods Hole, July (*T. H. M.*).

R. I.— Providence, May '07 (*C. A. D.*); Warwick.

CONN.— Cheshire, 6 May '11 (*B. H. W.*); S. Meriden, 20 March '14 (*H. L. J.*).

## NEPIDAE.

**Nepa apiculata** Uhler.

N. H.— Durham, 20 Oct. '01.

MASS.— Amherst, 5 Sept. '05; Boston (*A. P. M.*); Danvers, 30 May; Framingham, 21 May '07 (*C. A. F.*); Milton, 15 May '26 (*Harris Coll.*); Nantucket, '59 (*S. H.*); Newton, 30 Dec. '01 (*C. A. F.*); Salem.

R. I.— Kingston (*J. B.*); Providence, 15 July '94 (*C. A. D.*).

CONN.— New Haven, 11 Aug. '08, nymph (*B. H. W.*).

**Ranatra kirkaldyi** Torre Bueno.

MASS.— Cambridge; Dover, 23 Oct. '01 (*A. P. M.*); Framingham, 2 May '15 (*C. A. F.*).

**Ranatra americana** Montandon.

ME.— Orono, 4 Oct. (*H. M. P.*).

N. H.— Hanover (*C. M. W.*).

MASS.— Amherst, 26 Aug. '04; Forest Hills, 23 April, 15 Oct. '15 (*H. M. P.*); Wellesley, 20 April '91 (*A. P. M.*).

**Ranatra protensa** Montandon.

MASS.—Chebacco Lake, 13 Sept. '12 (*W. S. B.*); Framingham, 2 May '15 (*C. A. F.*); Taunton, 23 May '27 (*Harris Coll.*).

## BELOSTOMATIDAE.

**Benacus griseus** (Say).

MASS.—(*fide Uhler*).

R. I.—Peacedale, Aug. '06; Providence, July '07 (*C. A. D.*).

CONN.—New Haven, 22 May '11 (*A. B. C.*).

**Lethocerus americanus** (Leidy).

ME.—Auburn, 18 June (*O. O. S.*); Orono, 12 Sept.; Oldtown, 8 May.

N. H.—Raymond, 27 June '14 (*W. R.*).

MASS.—Amherst; Cohasset, 26 April '07 (*O. B.*); Fall River, 20 Sept. '06 (*N. S. E.*); Forest Hills, 10 Oct. '15 (*H. M. P.*); Wellesley, 24 Oct. '04 (*A. P. M.*).

R. I.—Kingston, 23 May '08 (*J. B.*); Providence, 2 June (*C. A. D.*).

CONN.—Lyme, 4 Sept. '09 (*C. H. D.*); New Haven, 27 March '05 (*P. L. B.*).

**Lethocerus obscurus** (Dufour).

MASS.—Amherst; Cambridge, Sept. (*Harris Coll.*); Lowell (*F. B.*) (*fide Montandon*).

CONN.—Torrington (*R. H.*).

**Belostoma flumineum** Say.

ME.—Auburn (*E. D. M.*); Orono, 20 June, 17 Oct.; Wales, 10 July '13 (*C. A. F.*).

N. H.—Durham, 25 Oct. '01; Hanover (*C. M. W.*).

Vt.—Winooski, 30 Aug. '01 (*C. A. D.*).

MASS.—Amherst, 26 Aug. '04; Boston, 29 March '03 (*H. M. P.*); Forest Hills, 1 Nov. '15 (*H. M. P.*); Saugus, 10 May '14 (*F. W. D.*); Wellesley, 16 May '99 (*A. P. M.*).

R. I.—Kingston, Sept. (*J. B.*); Providence, 2 June (*C. A. D.*).  
 CONN.—New Haven, 22 Aug. '13 (*B. H. W.*); S. Meriden, 3 April '14 (*H. L. J.*).

***Belostoma lutarium* (Stål).**

MASS.—Boston, 22 March '03, nymph (*H. M. P.*); Dover, 23 Aug. '01, nymph (*A. P. M.*); Falmouth (*fide T. H. M.*); Melrose, 11 July, nymph (*F. W. D.*); Tyngsboro, 16 Aug. '90 (*F. B.*); Wellesley (*A. P. M.*).

R. I.—(*fide Kirkaldy and Torre Bueno*).

OCHTERIDAE.

***Ochterus americanus* (Uhler).**

MASS.—?Amherst; Dedham, April (*F. G. S.*) (*fide Uhler*).

CORIXIDAE.<sup>1</sup>

***Arctocoris interrupta* (Say).**

ME.—Orono, 21 April '00 (*O. O. S.*); 8 May '12 (*H. M. P.*).  
 N. H.—Durham, 1 Oct. '01 (*W. F. F. & C. M. W.*).  
 VT.—Winooski, 30 Aug. '01 (*C. A. D.*).  
 MASS.—Amherst, 30 Aug. '04; Forest Hills, 16 Mar. '15, 1 Nov. '15 (*H. M. P.*); Marblehead, 8 Aug. '14; Nonamesset Id., 7 July '11 (*J. F. A.*); Peru, 21 Aug. '04 (*J. B.*).  
 R. I.—Kingston, 11 Nov. '09 (*J. B.*); Providence, 18 June (*C. A. D.*).  
 CONN.—Fairfield, 15 July '04 (*H. L. V.*); Hamden, 24 Oct. '10 (*B. H. W.*); Southington, 21 May '10 (*B. H. W.*); South Meriden, 19 Mar. '13 (*H. L. J.*).

<sup>1</sup> Prof. J. F. Abbott, who is engaged on a monograph of the Corixidae, has gone over all my material in the family, generously putting at my disposal the results of considerable labor.

**Arctocoris a nitida** (Fieber).

- ME.—Orono, 24 April '13 (*H. M. P.*).  
N. H.—Durham, 20 Sept. '01.  
MASS.—Forest Hills, 4 May '15 (*H. M. P.*).  
R. I.—Providence, 13 Sept. (*C. A. D.*).  
CONN.—New Haven, 22 June '12 (*A. B. C.*).

**Arctocoris a kennicotti** (Uhler).

- ME.—Orono, 21 April '00 (*O. O. S.*).  
N. H.—Durham (*W. F. F.*).  
R. I.—Kingston, 8 May '08 (*J. B.*).  
CONN.—Hamden, 1 June '11 (*B. H. W.*); S. Meriden, 27 Mar.  
'14 (*H. L. J.*).

**Arctocoris a lucida** Abbott.

- Ent. News, 1916, vol. 27, p. 341.  
N. H.—Durham, 4 Oct. '14.  
MASS.—Forest Hills, 4 May '15 (*H. M. P.*).  
CONN.—Cheshire, 6 May '11 (*B. H. W.*); Hamden, 1 June '11  
(*B. H. W.*); New Haven, 22 Aug. '13 (*B. H. W.*).

**Arctocoris a ornata** Abbott.

- Ent. News, 1916, vol. 27, p. 341.  
ME.—Orono, 19 April '14 (*H. M. P.*).  
CONN.—Cheshire, 20 June '11 (*B. H. W.*).

**Arctocoris a decorata** Abbott.

- Ent. News, 1916, vol. 27, p. 341.  
MASS.—Amherst, 26 Aug. '04.

**Arctocoris a dubia** Abbott.

- Ent. News, 1916, vol. 27, p. 342.  
ME.—Orono, 20 July '05.  
MASS.—Peru, 27 Aug. '04 (*J. B.*).

**Arctocoris alternata** (Say).

ME.—Orono, 19 April '14 (*H. M. P.*); Pownal, 13 Oct. '00 (*O. O. S.*).

N. H.—Durham, 13 Aug. '00 (*W. F. F.*).

MASS.—Amherst, 7 May '04; Forest Hills, 1 Nov. '15 (*H. M. P.*).

R. I.—Kingston, 11 Nov. '09 (*J. B.*).

CONN.—Hamden, 24 April '11 (*B. H. W.*); New Haven, 22 June '10 (*A. B. C.*).

**Arctocoris parshleyi** Abbott.

Ent. News, 1916, vol. 27, p. 342.

ME.—Orono, Sept.; Mercer.

MASS.—Lynn, 1 July '01 (*C. A. D.*).

R. I.—Providence, 18 June (*C. A. D.*).

**?Arctocoris trilineata** (Provancher).

ME.—Orono, 10 May '13 (*H. M. P.*); Paris, 7 April '15 (*C. A. F.*).

N. H.—Durham, 20 Sept. '01.

MASS.—Saugus, 22 Oct. '14 (*H. M. P.*).

R. I.—Kingston, 3 May '08 (*J. B.*).

**Arctocoris compressa** Abbott.

ME.—Orono, 19 April '12 (*H. M. P.*).

MASS.—Forest Hills, 29 April '15 (*H. M. P.*).

CONN.—Hamden, 1 June '11 (*B. H. W.*).

**Arctocoris seriata** Abbott.

Ent. News, 1916, vol. 27, p. 342.

ME.—Orono, 19 April '14; Pownal, 13 Oct. '00 (*O. O. S.*); Paris, 7 April '15 (*C. A. F.*).

N. H.—Durham, 20 Sept. '01 (*C. M. W. & W. F. F.*).

MASS.—Peru, 27 Oct. '04 (*J. B.*).

R. I.—Kingston, 2 May '04 (*J. B.*).

CONN.—Cheshire, 20 Mar. '11 (*B. H. W.*); Hamden, 21 Oct. '10 (*B. H. W.*); New Haven, 6 May '04 (*H. L. V.*).

**Arctocoris a scabra** Abbott.

- ME.—Orono, 28 April '12 (*H. M. P.*).  
N. H.—Durham, 20 Oct. '01.  
MASS.—Lynn, July '01 (*C. A. D.*).  
R. I.—Providence, 18 June (*C. A. D.*).  
CONN.—Cheshire, 20 Mar. '11 (*B. H. W.*); New Haven, 18 Mar. '11 (*B. H. W.*).

**Corixa verticalis** Fieber.

- MASS.—Beach Bluff, 19 July '15 (*H. M. P.*).  
R. I.—Kingston (*J. B.*).  
CONN.—Branford, 28 Aug. '05 (*H. M. W.*); East River, 2 Aug. '00 (*C. R. E.*).

**Callicorixa praeusta** (Fieber).

- ME.—Orono, 17 May '13 (*H. M. P.*).

**Palma corixa buenoi** Abbott.

- MASS.—Hadley (*C. A. F.*).

**Addendum.****TINGIDAE.****Corythucha salicis** Osborn and Drake.

Ohio Journ. Sci., 1917, vol. 17, p. 298.

MASS.—Middlesex Fells.



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**FAUNA OF NEW ENGLAND.**

**15.**

**LIST OF THE DIPTERA OR TWO-WINGED FLIES.**

BY CHARLES W. JOHNSON.

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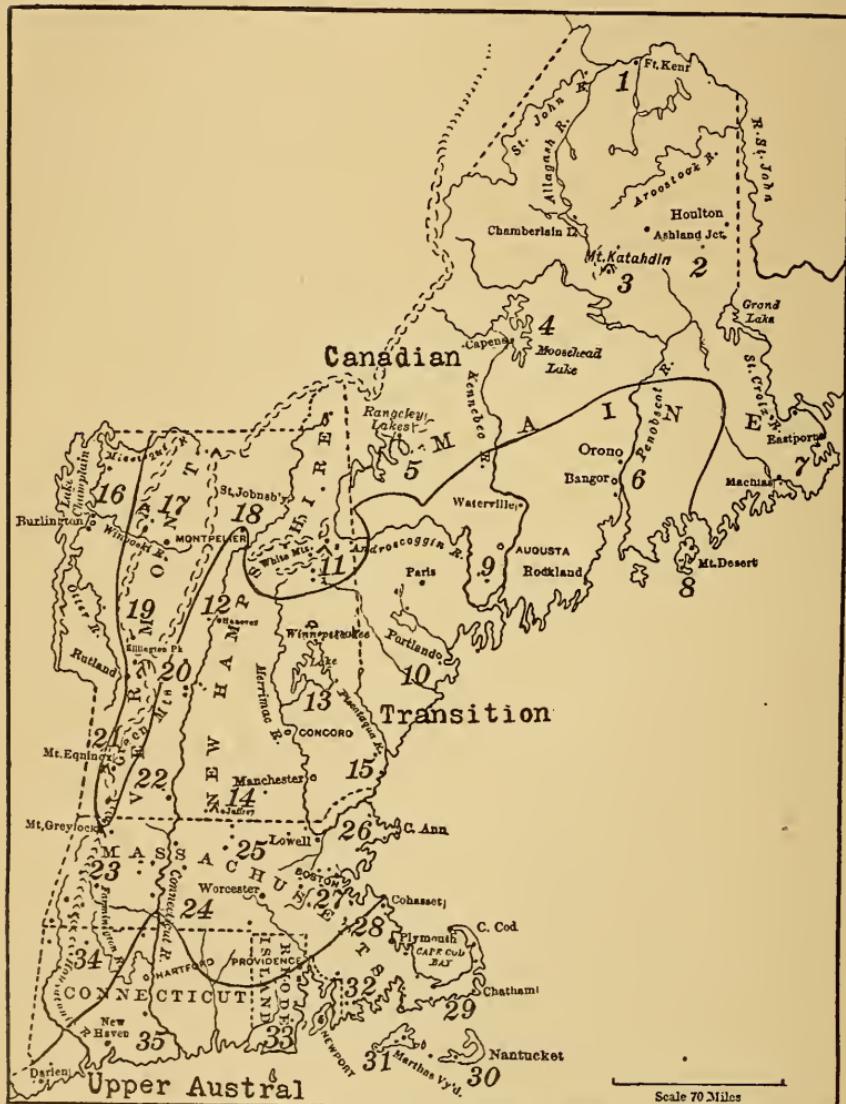
## INTRODUCTION.

As the work on the insect fauna of a given region progresses, it becomes essential not only for the further advancement of the work, but also for the encouragement of others to take up the study, to have in condensed form an index of our present knowledge of the various orders. Furthermore, we hope that the data here presented will in the future serve to show more clearly to what extent the changes in the natural conditions of the country are affecting the insect fauna. We are all aware of a marked change in the insect life in the vicinity of Boston, due in a great measure to the spraying to destroy the gipsy and brown-tail moths, to the electric lights, to the clearing of woodland, draining, stream pollution and other factors unavoidable in the growth of large cities. Insufficient data, however, relative to the former abundance and habitat of the various species, make it difficult at present to arrive at any definite conclusion bearing on the subject.

In connection with other museum work and the building-up of a general collection of New England insects, the writer has during the past twenty seasons' collecting, specialized on the Diptera and the results are in part represented in this list. Since New England is a meeting ground of the boreal and the austral species, it seems important to show the full distribution of each species, so that the northern range of a common southern species, and the southern range of an equally common northern species may be readily seen. To avoid unnecessary printing and yet show this distribution, a system of 35 named areas has been adopted, beginning with northern Maine and ending with Connecticut. In making a faunal survey of New England the writer has endeavored to collect chiefly in sections having marked physical conditions governing distribution, *viz.*, the coast, lakes, river valleys and mountains. Intensive collecting has been done in several of the more favorably situated areas where the "overlapping" of northern and southern species is apparently most pronounced. Thus, at Mt. Desert, Maine, the effect of the ocean in modifying temperature is most clearly shown; at Mt. Washington, New Hampshire, the effect of altitude on distribution is best illustrated; and in the Berkshires, Massachusetts, both elevations and river valleys are factors influencing distribution.

On the accompanying map (Text-fig. 1) are shown the numbers corresponding to those given under the descriptions of areas. Under each area are given the localities where collecting has been done, the name of the collector and date of collecting. The lines across the map mark the southern limit of the Canadian and

northern limit of the Upper Austral life-zones. When a species has been taken less than five times all data are given in full under each State. In other cases the area-numbers are used with the earliest and latest dates of capture. Figures and localities in italics indicate the type localities of the species.



TEXT-FIG. 1.—Map of New England.  
The numbers refer to the areas defined in the Introduction.

Twenty years have passed since the publication of the "Catalogue of North American Diptera" by J. M. Aldrich. The

work that has been done on Diptera during the two decades has far exceeded that of any previous corresponding period. It therefore seems necessary to add a bibliography bearing on New England dipterology published since the Aldrich Catalogue. The double-number system—year and page—has been adopted in referring to each publication.

The many problems in nomenclature that arise in attempting to follow the works of the various authors, present a task that greatly lessens the joy of recording the species of a given region. A faunal list should contain all published names bearing on the subject except (for brevity) those that have previously been placed in the synonymy. In other words such a list is not the place in which to make a synonym deliberately without proving that it really is such. However, as a friend remarked, you cannot conscientiously recognize a genus or species that you know should be in the synonymy even if you have not the time to thoroughly discuss the question. The appalling number of genera that have been made in some families, upon slight and often sexual characters, form a great hindrance to a more logical and consistent study of a family.

It is still quite difficult to estimate the number of Diptera actually occurring in New England, but it is safe to state that the number recorded in this list is probably less than three-fourths of the number that will eventually be found. The following is a summary of the families and number of species.

*List of Families and the Number of Species and Varieties Recorded.*

Tanyderidae.....	1	Dolichopodidae.....	246
Ptychopteridae.....	3	Empididae.....	180
Anisopodidae.....	9	Lonchopteridae.....	2
Tipulidae.....	264	Phoridae.....	56
Dixidae.....	8	Platypezidae.....	26
Culicidae.....	48	Pipunculidae.....	35
Psychodidae.....	12	Syrphidae.....	239
Chironomidae.....	120	Conopidae.....	23
Cecidomyiidae.....	232	Pyrgotidae.....	3
Mycetophilidae.....	176	Oestridae.....	6
Sciariidae.....	34	Phasidae.....	20
Bibionidae.....	16	Tachinidae.....	228
Scatopsidae.....	6	Megaprosopidae.....	2
Simuliidae.....	9	Dexiidae.....	28
Blepharoceridae.....	1	Sarcophagidae.....	57
Xylophagidae.....	12	Calliphoridae.....	19
Coenomyiidae.....	2	Muscidae.....	248
Stratiomyiidae.....	43	Scatophagidae.....	50
Tabanidae.....	75	Helomyzidae.....	20
Rhagionidae.....	20	Clusiidae.....	19
Cyrtidae.....	15	Borboridae.....	18
Bombyliidae.....	45	Phycodromidae.....	2
Therevidae.....	16	Sciomyzidae.....	49
Scenopinidae.....	2	Sapromyzidae.....	36
Mydidae.....	1	Lonchaeidae.....	10
Asilidae.....	86	Pallopteridae.....	3

Ortalidae.....	38	Chloripidae.....	76
Tryptidae.....	47	Drosophilidae.....	34
Micropezidae.....	6	Asteidae.....	2
Sepsidae.....	19	Geomyzidae.....	17
Piophilidae.....	8	Milichiidae.....	13
Psilidae.....	22	Ochthiphilidae.....	9
Diopsidae.....	1	Agromyzidae.....	47
Notophiliidae.....	47	Hippoboscidae.....	9
Ephydriidae.....	28		
Total.....			3,304

Of this number the Society's collection contains about 2,200 species (including some 350 types and paratypes), represented by about 15,000 specimens.

#### DESCRIPTION OF THE AREAS DESIGNATED ON THE MAP.

##### MAINE.

1. *The Upper Aroostook County area.*—This includes the most northern portion of Maine,—the upper St. John River valley. From August 17 to 19, 1910, the writer worked at Fort Kent, collecting on the hills south of the village and west along the St. John River. While botanizing, in 1907, Dr. J. A. Cushman made a small but interesting collection at Little Black River Rapids near the mouth of the Allegash River, September 10, and at Limestone, September 18; Mr. Olof O. Nylander made a collection of the species found on snow at Woodland, near Caribou, December, 1917, and January, 1918.

2. *The Lower Aroostook County area.*—This area includes that portion of the County south of a line drawn west from Mars Hill. On August 16, 1910, I collected along the stream south of Ashland Junction (Oakfield), and Dr. C. P. Alexander collected at Houlton, August 24, 1913.

3. *The Mount Katahdin area.*—This area embraces the mountainous region of central Maine. In 1910 a botanical trip was made to Traveler Mountain by Dr. Cushman and Rev. C. B. Ames. A collection of insects was made on the mountain July 27 to 29; also at Bowlin Pond, July 31, Penobscot County (Sect. 2, Range 7, and Sec. 4, Range 7), August 1 and 2. On August 21, 1913, Dr. Alexander collected on Mt. Katahdin. From July 13 to August 31, 1923, Mr. Irving H. Shaw collected from Basin Pond (2400 feet) to the summit of Mt. Katahdin.

4. *The Moosehead Lake area.*—This area covers the lake region of northern central Maine. From July 11 to 21, 1907, the writer made a large and interesting collection at Capen's on Deer Island, in Moosehead Lake; on July 17 a collection was made on the nearby Sugar Island and on the 18th at the "Outlet," Moosehead. On September 3, 1907, Dr. Cushman made a small collection at Kineo, which was augmented by a collection made by Dr. Alex-

ander, July 17, 1913. From August 17 to 20, 1905, Mr. Frank M. Jones collected a number of interesting species at Katahdin Iron Works. On September 7, 1907, Dr. Cushman made a collection at Chamberlain Lake.

5. *The Rangeley Lakes area.*—This area includes Franklin and the northern portion of Oxford Counties. From July 1 to 4, 1922, I collected at Oquossoc, along the stream flowing out of Rangeley Lake. On July 6, 1916, Mr. C. A. Frost collected at Parmachene Lake. From July 18 to 20, 1916, Dr. C. L. Metcalf collected on Saddleback Mt. In June, 1922, Mr. H. C. Dunham collected at Upper Dam, and on August 24, 1922, Mr. S. N. F. Sanford made a small collection at Rangeley.

6. *The Lower Penobscot area.*—This area embraces the lower part of the Penobscot River valley. Orono is the center of entomological activity in Maine. Dr. Edith M. Patch, Entomologist of the Maine Agricultural Experiment Station, has built up a valuable collection, which I have been privileged to examine. Dr. A. O. Johannsen while at Orono wrote "The Fungus Gnats of North America," and Dr. C. L. Metcalf the "Syrphidae of Maine." Dr. C. P. Alexander has worked on the Tipulidae, describing many new species from the State. Mr. E. F. Hitchings, has a large collection which I have studied. Dr. H. M. Parshley and Mr. A. P. Morse have also collected Diptera at Orono. Dr. G. de N. Hough collected at Eddington, June 25 to July 5, and the writer at Hampden, July 10, 1907.

7. *The Washington County area.*—This includes the entire County. From July 10 to 27, 1909, the writer collected at the following places: Calais (above Milltown) July 10; Princeton, on the Indian Reservation, July 12; Eastport, west of the town and in the vicinity of Shackford's Head, July 14 to 16; Machias, along the Machias River both above and below the town, July 17 to 27. Dr. Cushman while botanizing on Mistake Island, August 9, and at Roque Bluff, August 10 and 11, 1907, collected some interesting flies. Mr. A. P. Morse also collected at the latter place, August 13, 1913.

8. *The Mount Desert area.*—This area is restricted to Mount Desert Island. The work of making a faunal list of the insects of Mount Desert has resulted in recording over 1000 species of Diptera from the island. Work was begun in 1918, and from July 10 to 18 the writer collected at Southwest Harbor from Echo Lake and Great Pond to Manset. In 1919, the work was confined to Bar Harbor and vicinity (including Mt. Cadillac) from July 16 to 30. In 1920, collecting was done at both ends of the island, and on the salt marshes at the "Narrows" from August 10 to 24; this was repeated in 1921, from June 7 to 22, and again in 1922, from June 16 to 28 and from September 6 to 14. In 1923, collections were made at Bar Harbor, Salisbury

Cove, "Narrows" and Southwest Harbor, from July 10 to 21, though most of the work was done at Salisbury Cove. During the summers of 1909 and 1912 Dr. Charles S. Minot made a large and interesting collection at Northeast Harbor. In July, 1914, Professor Edward S. Morse captured the rare robber-fly, *Pogonosoma ridingsi*, at Seal Harbor. In July and August, 1921, Mr. S. N. F. Sanford collected insects at various localities, but chiefly at Salisbury Cove.

9. *The Lower Kennebec area.*—This area includes the Kennebec River valley south from Waterville. The principal collector of this region is Mr. C. A. Frost, who has collected for a number of seasons at Monmouth and the near-by town of Wales. Mr. E. F. Hitchings has collected at Waterville. There are in the Harris Collection a number of flies taken by J. W. Randall at Hallowell about 1835.

10. *The Southwestern Maine area.*—This covers practically the Counties of Cumberland and York. The writer collected at Orr's Island from July 24 to 26, 1907, and at Naples, July 1, 1913. Mr. Arthur H. Norton has collected a number of flies near Portland. Dr. Cushman collected at Harpswell in July, 1908, and July, 1913; Dr. G. M. Allen on Bailey's Island, August, 1915; Miss M. L. Martin at Bridgeton in 1911, and Mr. A. B. Fuller at Kennebunk in 1922.

#### NEW HAMPSHIRE.

11. *The "White Mountains" area.*—Although most of the collecting has been done on or near Mt. Washington, I am including in this area all of Coös County, and the northern portions of Carroll and Grafton Counties as far south as Chocorua. The limits of what the older authors called the "White Mts." are somewhat vague, but usually refer to the Presidential Range.

Mt. Washington has always been a favorite collecting ground for entomologists. In the "List of insects taken on the alpine region of Mt. Washington" by Mrs. Annie T. Slosson,<sup>1</sup> about 500 species of Diptera are recorded. Baron Osten Sacken collected in the "White Mountains." H. K. Morrison's collection is all marked "White Mts.," although we know that most of his specimens were taken on Mt. Washington. Collections have also been made by Messrs. S. E. Cassino, George Dimmock, F. W. Dodge, S. Henshaw, A. P. Morse, F. Sherriff, L. W. Swett and others. Mrs. Slosson has also collected a number of species at Franconia.

From June 24 to 29 the writer collected at Bretton Woods and along the Ammonoosuc River toward Base Station, going to the summit of Mt. Washington on the 30th. From July 3 to 9, 1914, was spent at the Glen House, collecting on the Alpine

<sup>1</sup> Entomological News, vols. 5, 6, 7, 8, 9, 11, 13, 14 and 17.

Garden on the 4th, at Halfway House on the 6th, and Tuckerman's Ravine on the 8th. July 15 to 29, 1915, was also spent at the Glen House, collecting at the Halfway House on the 16th, Alpine Garden on the 21st, and Tuckerman's Ravine on the 21st and 28th. June 10 to 18, 1916, was again spent at the Glen House, collecting on the 13th at the Halfway House. August 15, 1916, I collected at Base Station, on the 16th at the Alpine Garden and on the 17th at the Glen House. On September 25, 1907, Mr. Owen Bryant collected at Jackson. On several occasions Dr. G. M. Allen has collected a number of interesting species at Intervale. On September 12 and 13, Dr. J. A. Cushman collected at Passaconaway and Wonalancet. During the summer of 1920 Mr. Walter Deane made a collection at Shelburne. In 1922, Dr. Cushman collected at the Pinkham Notch (July 21) and at the Dixville Notch (July 22). On July 19, 1921, Mr. A. B. Fuller collected at Connecticut Lake.

12. *The Hanover area.*—This section was selected as a collecting ground to show the distribution of species in the Connecticut River valley. The area might be limited by Wells River on the north and White River on the south. July 4 to 6, 1908, was spent at Hanover where most of the collecting was done in the woods along Mink Brook; July 7 and 8 were spent in Norwich on the Vermont side of the river, collecting chiefly along Bloody Brook.

13. *Lake Winnipesaukee area.*—This embraces the lake region of central New Hampshire and the upper Merrimack River valley. During the summer of 1907, Dr. G. M. Allen made an interesting collection of insects at Squam Lake. From September 9 to 12, 1914, the writer collected at Center Harbor and Wolfeboro. Mr. A. P. Morse has collected at Holderness and Mr. Carl Hoessler at Andover, Franklin and Belmont.

14. *The Mount Monadnock area.*—This area might include Cheshire and Hillsboro Counties but work has been confined mostly to the more elevated portions. On and around Mt. Monadnock is a rich collecting ground. My work there has all been done in the month of June, on the Jaffrey side and along the "Red Cross Trail" to the summit of the mountain. In 1917, I collected from June 15 to 28; in 1920, from June 3 to 13; and in 1923, from June 13 to 23. All specimens collected near the "Inn" and "Ark" at an elevation of about 1,200 feet are labeled "Jaffrey." In March, 1917, Mrs. Johnson made a collection of the snow insects. Miss Nina G. Spaulding, of Jaffrey, has for a number of years collected insects and captured many interesting species. Miss Rebecca Kite has collected a number of insects at the "Mountain House." In the Harris Collection are many species from Dublin collected by Rev. L. W. Leonard from 1828 to 1835. Milford is the home of Mr. C. P. Whitney who has

described a number of new Tabanidae from there. On June 23, 1914, I spent an enjoyable day, collecting with him. Alden F. Megrew has collected a number of species at Wilton.

15. *The Hampton area.*—This area was made primarily to cover the coastal area of the State but might include the lower part of Strafford and Rockingham Counties. I have called it Hampton, the home of my friend, Mr. S. Albert Shaw, an all-round entomologist of the old school, who has been making a local collection of all orders for years and has secured many new and interesting species. Most of the records from this area are therefore his. The collection of the College of Agriculture at Durham contains many Diptera which I had the privilege of studying several years ago. Dr. Allen has taken a few interesting species at Rye Beach; Dr. George Dimmock at Canobie Lake; and Mr. P. R. Lowry at Durham and Hill.

#### VERMONT.

16. *The Lake Champlain area.*—This applies to that section adjacent to the lake, having an elevation of less than 500 feet. In 1906, the writer collected at Burlington, on June 22 at "Queen City Park" south of the city, and on the 23d and 24th at Ethan Allen Park north of the city. From June 19 to 21, 1913, I collected at St. Albans, chiefly in the woods and meadows north of the city. Dr. Cushman made a small collection at North Hero, June 18, 1907, and at Shoreham, July 15, 1910, and Professor John Barlow at Middlebury, July, 1912.

17. *The Northern "Green Mountains" area.*—This covers the northern portion of the Green Mountains from the southwestern end of Washington County, northward. The largest collection from this region was that made by Mr. Owen Bryant on Bolton Mountain, between the town of Bolton and Mt. Mansfield, from July 16 to September 19, 1922. Mr. A. P. Morse collected on Jay Peak, July 15; Mt. Mansfield, July 21; and at Stowe, July 22, 1891. Dr. J. A. Cushman made a small collection at Coventry and Newport, June 23 and 24, 1907. On June 25, 1906, I made a small collection at Montpelier. Philip S. Sprague (70-88) published a list of the insects collected on Camel's Hump.

18. *The Upper Connecticut River Valley area.*—This area should include Caledonia and Essex Counties, but comparatively little collecting has been done. The writer collected at St. Johnsbury from June 26 to 28, 1906, chiefly along the Passumpsic River. Dr. A. L. Melander has collected at Lyndon.

19. *The Middle "Green Mountains" area.*—This includes the southeastern end of Addison and the eastern half of Rutland Counties. Mr. A. P. Morse collected on Killington Peak, August 28, 1898. The writer collected on the road up Killington Peak and around the base, August 26 and 28, 1919. Dr. J.

Bequaert collected a number of Diptera around Chittenden, August 1-15, 1916.

20. *The Mount Ascutney area.*—This represents a combination of an isolated peak and portion of the Connecticut River valley, from White River to the Windham County line. On July 11, 1908, Mrs. Johnson and myself collected along the trail to the summit of Mt. Ascutney. Mr. W. S. Brooks also collected there, July 20 to 23, 1912. On July 10, 1908, I collected at Amsden, near Donner's Hotel and on July 13 at Windsor and at Cornish on the New Hampshire side of the river. A number of interesting species have been taken by Mr. A. P. Morse at Woodstock.

21. *The Lower "Green Mountains" area.*—This includes all of Bennington and the western half of Windham Counties. In June, 1910 (4th to 9th) the Society sent a collecting party to Mt. Equinox. Dr. Allen collected small mammals, Dr. Cushman botanized, and the writer collected insects, many new and interesting species being obtained. The material collected around the base of the mountain is labeled "Manchester." From June 18 to 24, 1915, I collected at Bennington, both east and west of the town.

22. *The Brattleboro area.*—A Connecticut River valley area comprising the eastern half of Windham County. On July 14, 1908, I collected at Dummerston, or more strictly speaking, West Dummerston, along the West River near Black Mountain; on July 15, at Brattleboro, west of the city.

#### MASSACHUSETTS.

23. *The Berkshire area.*—This area is not restricted to Berkshire County, but includes the Berkshire Hills as far east as Shelburne Falls and Huntington. From June 14 to 19, 1906, the writer collected in the vicinity of North Adams, chiefly near the "Cascade" and Briggsville. The 15th was spent on the summit of Mt. Greylock and the 20th at Cheshire. In May, 1907, Dr. J. A. Cushman collected a few insects while botanizing at Sheffield. In 1917, I again visited Mt. Greylock, going up the trail from Cheshire Harbor, July 25. In August, 1907, Mr. Owen Bryant collected at North Adams and on Mt. Greylock. To note the changes between spring and late summer, some intensive collecting was done by the writer at Chester (chiefly along Austin's Brook) on the following dates: August 3 to 6, 1911; May 26 to 29 and August 7 to 9, 1912; July 24 and 25, 1913; and August 5 and 6, 1914. Mr. Bryant also collected there August 6, 1922. On August 8, 1912, I collected at Washington, the highest point on the Boston and Albany railroad. In 1912, Dr. Cushman and myself made a botanical and entomological trip to the southwestern corner of the State, collecting in the vicinity of Bashbish Falls and on Mt. Everett from June 26 to 28. From June 14

to 16, 1915, the writer collected at Great Barrington, in the valley south and on the mountain east of the town. On July 24, 1917, I collected near the New Lenox and along the road leading to the top of October Mt. Mr. J. W. Beecroft has collected at Cheshire and Great Barrington, Mr. C. A. Frost has collected at Monterey and Professor John Barlow at Peru.

24. *The Connecticut River Valley area.*—The part of the Connecticut valley within the confines of Massachusetts is especially interesting, for its diversified condition presents local environments favorable to both northern and southern species. A great deal of entomological work has been done here. Springfield has for years been the home and collecting ground of Dr. George Dimmock. In July, 1905 (13 to 15), I had the pleasure of collecting with him near his home and on Mt. Tom. Amherst, the seat of the State Agricultural College, with its large collection and corps of workers is a "beehive" of entomological activities. To Dr. H. T. Fernald I am indebted for the privilege of studying the college collection and for other assistance. Dr. C. P. Alexander has made a special study of the Tipulidae of the valley. In company with Drs. Crampton and Alexander, I collected at Sunderland and Whately Glen, May 29 and 30, 1923. Mr. Stanley W. Bromley has also collected many Diptera in this area. Mr. Owen Bryant collected at Westfield, July 10, 1905. Mr. H. E. Smith collected a number of interesting species at West Springfield; Mr. F. E. Zeissig has collected at Ware and the writer at Williamsburg (August 7, 1911). Miss Fannie A. Stebbins, in her work on the "Insect Galls of Springfield and Vicinity," gives many records for the Cecidomyiidae.

25. *The Worcester County area.*—This area should really be confined to the more elevated portions of the County, but it is difficult to draw the line. The late Dr. F. W. Russell collected a number of species at Winchendon. Mr. R. T. Webber collected at Lunenburg, Miss Susan Minns at Princeton and Mrs. Ella L. Horr at Worcester. The writer collected on Mt. Wachusett, May 30, 1914, and at Rutland, June 5 and July 9, 1915; May 31, July 31 and September 20, 1916. Mr. Stanley W. Bromley has collected many interesting species at Southbridge. The writer has also collected there July 8 and 16, August 27 and September 3, 1912-15. Dr. L. H. Taylor has collected at Petersham, August, 1920. The late Millet T. Thompson's collection of insect galls is now the Society's, most of the material having been obtained in the vicinity of Worcester.

26. *The Essex County area.*—In this area I am including the valley of the Merrimack as far as Tyngsboro, where Mr. H. C. Fall has captured a number of interesting flies. Beverly was the home of Edward Burgess, who was interested in Diptera. A number of species have been recorded from his collection, which

is in the U. S. National Museum. Mr. A. P. Morse has collected at Salem, Danvers, Haggett's Pond, Plum Island and other places. Mr. F. H. Walker has collected at Salem and Marblehead. Mr. A. B. Fuller has collected at Essex and Mr. W. S. Brooks at Beverly Farms. The writer has collected on the Ipswich River above and below North Reading, June 10; at Rockport, July 15, 1904, and August 28, 1913; East Gloucester and Briar Neck (labeled Gloucester), August 30, 1912, August 28, 1913, May 22, 1915, July 5 to 8, 1918, and May 30, 1919. A small collection was also made at Coffin's Beach, May 30, 1916. Miss Cora H. Clarke has collected many species of gall insects at Magnolia.

27. *The Boston area.*—This comprises Suffolk, the southern portion of Middlesex and the greater part of Norfolk Counties, covering largely the valleys of the Charles and Neponset Rivers. It might be bounded by a line drawn from Stoneham to Concord and from there south to Framingham, through Holliston and Sharon to the Plymouth County line. The places where collecting has been done are so numerous that only the more important ones can be mentioned, except in the case of rare species, then the exact locality will be given under the species. Although this has been a collecting ground for entomologists since the days of Harris, no one has really specialized on the Diptera, hence older records are comparatively meager. Boston includes all of Suffolk County; Roxbury, Dorchester, Jamaica Plain and Forest Hills are all within the County. The label, "Brookline," includes also the Chestnut Hill section around Hammond's Pond; Auburndale includes the western part of Newton. A label, "Riverside," was first used for the portion adjacent to the Charles River, but was later discarded because there were found to be three other Riversides in the State. Both Brookline and Auburndale have been favorite collecting grounds for the writer, especially during the years 1903 to 1911. Wellesley is the home of Mr. A. P. Morse, who has collected there and in the immediate vicinity. At Sherborn, Mr. E. J. Smith has taken a number of species. Framingham is the home of Mr. C. A. Frost. He has collected a number of new and interesting species during the past twenty years. Holliston, where Mr. Nathan Banks has recently moved, is yielding many desirable species. The writer has collected at Dedham, September 4, 1908, June 3, 1909, and May 20, 1912; at Purgatory Swamp, near Ellis, May 24, 1912, April 21, 1913, May 11, 1914, and May 3, 1918; also at Walpole, May 26, 1908. Sharon has been a favorite collecting ground, and with Dr. Cushman I have spent a number of days there and obtained many new and interesting species. Another place frequently visited by the writer and others is the Blue Hill in Milton. It was at Milton that Harris lived before going to Cambridge and most of the local species in

his collection are from these two places. Mr. Owen Bryant while in Cambridge collected a number of species at Fresh Pond.

The work conducted by the Gipsy Moth Laboratory at Melrose Highlands has greatly added to our knowledge of the Diptera of this region, especially of the parasitic species, and I am greatly indebted to those connected with the laboratory for many courtesies. To those connected with the Corn-borer Laboratory at Arlington, I am also indebted for many favors. Messrs. C. L. Anderson and G. W. Barber have collected a number of interesting flies in the vicinity of Arlington and Lexington. Mr. L. W. Swett has collected at Bedford and Dr. R. H. Howe, Jr., and the writer at Concord.

28. *The Plymouth area.*—This includes all of Plymouth County and the town of Cohasset, which is a part of Norfolk County. The work in this area has been largely confined to the coastal portion from Cohasset to Manomet. Cohasset was for several years the home and collecting ground of Mr. Owen Bryant and his intensive collecting at all seasons of the year resulted in adding many new and rare species. The writer collected at Plymouth and Manomet, July 25 to 28, 1905, and at Scituate, May 15, 1915. Dr. J. A. Cushman has collected at Bridgewater and Manomet. Mr. W. S. Brooks has also on several occasions collected at Manomet and Mr. S. N. F. Sanford at Marshfield.

29. *The Cape Cod area.*—This includes all of the land east of Buzzards Bay and the Cape Cod Canal. Being the most northeastern portion of the Upper Austral it presents many interesting features bearing on distribution. In 1904 the writer collected at Provincetown, June 24–26; Eastham, June 27–28; Chatham, June 30 and July 1; Hyannisport, July 3 and 4; and Barnstable, July 5. Mr. A. P. Morse collected at Provincetown September 6, 1890, and June 29 and September 4, 1891. The Marine Biological Laboratory has brought to Woods Hole many persons interested in entomology. Messrs. J. A. Cushman, C. T. Brues, A. L. Melander, R. C. Osborn, A. H. Sturtevant, W. M. Wheeler and the writer have all collected Diptera there. Dr. Cushman has also collected at Pocasset; Mr. E. F. Hitchings at Sandwich, June 19, 1908; Mr. O. Bryant at Waquoit, September 21, 1910; and Mr. G. W. Barber at Yarmouth. Through the kindness of Mr. L. D. Baker the writer made an interesting collection at Wellfleet, August 13–18, 1919.

30. *The Nantucket area.*—This includes the islands of Nantucket, Tuckernuck and Muskeget. The insect fauna of the islands has not been studied thoroughly, but many interesting species of Diptera have been obtained by several collectors. Doctors G. M. Allen, J. A. Cushman and H. T. Fernald have collected on Nantucket at various times. Mr. A. P. Morse collected there September 9–11, 1913; Mr. S. N. F. Sanford,

August 27, 1921; and the writer August 8, 1918. Dr. Allen also collected on Tuckernuck, July 21, 1910; and Dr. Cushman, August 6, 1909. Mr. W. S. Brooks collected a number of Diptera on Muskeget, July 7, 1916 and July, 1924.

31. *The Martha's Vineyard area.*—This should comprise all of Duke's County but work has been confined to Martha's Vineyard, although an exhaustive study of the insect fauna is yet to be made. Dr. J. A. Cushman, while collecting fossils at Gay Head in 1904 and botanizing in 1911, collected a number of insects at North Tisbury, July 20–21, and at Chilmark, August 14–17. The writer collected at Edgartown, June 28 and 29, 1910, August 22 and 23, 1912, and at Oak Bluff, June 13, 1917. Mr. A. P. Morse has collected at West Chop, July 4 and August 5, 1893.

32. *The Bristol County area.*—This includes the entire County, but collecting has been mostly confined to the southern half, which yields many austral species. Dr. Gary de N. Hough made a most interesting collection of Diptera at New Bedford and Horse Neck Beach between 1894 and 1900, and published a number of valuable papers. Mr. N. S. Easton has collected a number of species in the vicinity of Fall River. In company with Mr. Easton the writer has collected at Horse Neck Beach, July 30; Westport Factory, July 31, 1913; and near Fall River, July 12, 1916. Dr. J. A. Cushman and Mr. S. N. F. Sanford have also collected at Fall River and Mr. H. M. Holt at Gooseberry Neck.

#### RHODE ISLAND.

33. *The Rhode Island area.*—For convenience it seems best to include the entire State, although east of the Sakonnet River would more naturally belong to the Bristol County area. I have studied the large collection made by Professor John Barlow at Kingston. The writer has collected at Buttonwoods, July 25, 1911, and June 12–22, 1912; Washington, June 19, and Apponaug, June 21, 1912; Tiverton, July 31, 1913, and July 12, 1916; Newport, June 5; and Wickford, June 9, 1914. Newport is the type locality for several species collected by Baron Osten Sacken. Through the kindness of Mr. Howard L. Clark I had an opportunity of collecting at Bristol, June 20, 21, 1918.

#### CONNECTICUT.

34. *The Litchfield area.*—This area includes the upper portion of Litchfield County, northward of the towns of Litchfield and Kent, having a general elevation of over a thousand feet. Dr. W. M. Wheeler has collected a large number of interesting species at Colebrook. Mr. K. F. Chamberlain has collected some Diptera at Cornwall, Mr. L. B. Woodruff at Litchfield and Mr. A. P. Morse a few at Kent. Some species have also been received

for determination from Dr. W. E. Britton, collected at Salisbury and Chapinville. The area is interesting as being the southern limit of distribution of many boreal species.

35. *The Connecticut area.*—This includes all of the State except the area above described. Through the kindness of Dr. W. E. Britton I have studied the collection of the Connecticut Agricultural Experiment Station, made by members of the staff and others in various parts of the State. The writer has collected at Darien and Rowayton, August 4-5, 1908; June 16-17, 1909; June 10-11, 1912; May 27, 1913; and June 12, 1915; also at Winnipauk, June 12 and August 4; Danbury, June 15, 1909; Middletown, June 17, 1909; and New Haven and Mt. Carmel, June 11, 1914. Dr. Geo. Dimmock has collected at Suffield, Dr. W. Marchand at Farmington, and Mr. A. P. Morse at Stamford.

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To those who have aided in furnishing material for study and whose names are mentioned in the descriptions of areas, I here wish to extend my sincere thanks. In the work of determining species and solving the many problems in nomenclature I am greatly indebted to the following co-workers: Dr. J. M. Aldrich, Dr. C. P. Alexander, Dr. E. P. Felt, Dr. O. A. Johannsen, Dr. A. L. Melander, Dr. J. D. Tothill, Dr. C. L. Metcalf, Dr. A. H. Sturtevant, Prof. C. T. Brues, Prof. J. S. Hine, Mr. E. T. Cresson, Jr., Mr. M. C. Van Duzee, Mr. J. R. Malloch, Mr. C. H. Curran, Mr. F. R. Cole, Mr. N. Banks, Mr. A. Spulzer, Mr. R. C. Shannon, Mr. H. W. Allen, Mr. S. W. Bromley and Mr. L. S. West.

## DIPTERA.

### NEMATOCERA.

#### TANYDERIDAE.

*Protoplasa* Osten Sacken.

**P. fitchii** Osten Sacken.

N. H.—Mt. Washington carriage-road, 3000 ft. (*L. W. Swett*).

#### PTYCHOPTERIDAE.

*Ptychoptera* Meigen.

**P. rufocincta** Osten Sacken.

ME.—6, 8, 10. N. H.—11, 14, 15. June 12—July 21.

MASS.—23, 24, 27. R. I.—33. CONN.—35. May 20—Aug. 8.

Bittacomorpha Westwood. "Phantom Crane-flies."

**B. clavipes** (Fabricius).

ME.—1, 5, 6, 8. N. H.—11, 14, 15. VT.—17, 18. June 10—Aug. 25.

MASS.—23, 24, 27. R. I.—33. CONN.—35. May 13—Sept. 6.

Bittacomorphella Alexander, 16—545.

**B. jonesi** (Johnson), 05—75.

ME.—6, 7, 8. N. H.—11, 13. VT.—17, 18. June 27—Aug. 25.

MASS.—23, 24, 25, 27. R. I.—33. May 30—Aug. 3.

#### ANISOPODIDAE.

##### TRICHOCERINAE.

Trichocera Meigen.

**T. bimacula** Walker.

ME.—

MASS.—27, 28, 32. CONN.—Oct. 15—Nov. 14.

**T. brumalis** Fitch.

ME.—1 (Woodland, Dec. 17, *Nylander*). N. H.—Jaffrey, Mar. 9.

MASS.—Forest Hills, Nov. 11; Arlington, Feb. 17; Tyngsboro, Oct. 26 (*Fall*). CONN.—New Haven, Nov. 20 (*Viereck*).

**T. gracilis** Walker.

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**T. regelationis** (Linné).

ME.—6, 7. June 1—July 15.

MASS.—27, 28, 32. Mar. 30—Dec. 8.

This species was determined by Coquillett from specimens bred from spoiled potatoes, June 1, 1907 (*Edith M. Patch*).

## ANISOPODINAE.

*Anisopus* Meigen, 1803 (*Rhyphus* Latreille, 1804).

*A. alternatus* (Say).

ME.—4, 6, 9. N. H.—11, 14, 15. May 8—Aug. 29.

MASS.—25, 27, 28, 32. R. I.—33. CONN.—35. Apr. 14—Aug. 2.

*A. fenestralis* (Scopoli).

ME.—9, 6. N. H.—11, 15. June 15.

MASS.—25, 27, 31, 32. R. I.—33. CONN.—35. Mar. 3—Oct. 2.

*A. punctatus* (Fabricius).

ME.—2, 6. N. H.—11, 15. VT.—17, 19. July 8—Sept. 10.

MASS.—24, 27, 28, 32. R. I.—33. CONN.—34, 35. May 7—Oct. 5.

## AXYMYIINAE.

*Axymyia* McAtee, 21—49.

*A. furcata* McAtee, 21—49 (*Eupeitenus ater* Coquillett (09—106), not Macquart).

MASS.—Mt. Toby, May 17, 1924 (*Alexander*, 24—115).

## MYCETOBIINAE.

*Mycetobia* Meigen.

*M. divergens* Walker.

ME.—Gardiner. N. H.—Hanover, July 6, 1908.

MASS.—Cambridge, July 28. CONN.—Hartford.

## TIPULIDAE. The Crane-flies.

*Geranomyia* Haliday.

*G. canadensis* (Westwood).

N. H.—Glen House, June 18.

MASS.—Cohasset, July 15—Aug. 20 (*Bryant*). CONN.—.

*G. distincta* Doane.

MASS.—*New Bedford*. CONN.—.

*G. rostrata* (Say).

ME.—1, 2. N. H.—11. VT.—17. Aug. 15—25.

MASS.—25, 24, 26, 27, 28. R. I.—33. CONN.—35. May 17—Sept. 21.

*G. diversa* Osten Sacken.

ME.—Orono, Sept. 7, 1913 (*Alexander*).

MASS.—Whately Glen, May 23, 1923 (*Alexander*).

*Discobola* Osten Sacken.

*D. argus* (Say).

ME.—1, 2, 4, 6, 8. N. H.—11, 15. VT.—16, 17. June 21—Aug. 30.

MASS.—24, 27, 28. R. I.—33. CONN.—. June 6—Sept. 27.

**Rhipidia** Meigen.**R. bryanti** Johnson, 09-123.ME.—Orono, June 30 (*Alexander*).MASS.—Cohasset, June 30-July 20 (*Bryant*).**R. maculata** Meigen.

ME.—1, 2, 5, 6, 7, 8. N. H.—11, 15. VT.—16, 17, 18. June 21-Oct. 22.

MASS.—23, 24, 27, 28. R. I.—33. CONN.—July 12-Oct. 8.

**R. domestica** Osten Sacken.CONN.—East River, Aug. 20, 1912 (*Ely*, Dietz Coll.).**R. fidelis** Osten Sacken.

VT.—Norwich, July 8; Amsden, July 10.

MASS.—Cohasset, June 20 (*Bryant*). CONN.—Rowayton, June 16.**Dicranomyia** Stephen.**D. badia** (Walker).ME.—Orono, June 10 (*Alexander*). VT.—Dummerston, July 4.MASS.—Whately Glen, May 6, Oct. 1 (*Alexander*). R. I.—Tiverton, July 31. CONN.—(*Osten Sacken*).**D. brunnea** Doane.

MASS.—Nantucket; Tuckernuck Isl. July 31.

**D. brevivena** Osten Sacken.MASS.—Leverett, Oct. 8; Goshen, Sept. 21 (*Alexander*).**D. gladiator** Osten Sacken.

ME.—Capens, July 21; Mt. Desert, July 24.

MASS.—Cohasset, June 19 (*Bryant*); Eastham, June 27.**D. globithorax** Osten Sacken.ME.—Mt. Katahdin, Aug. 22 (*Alexander*). N. H.—White Mts.; Hampton, Sept. 10 (*Shaw*).MASS.—Cohasset, June 19; Whately Glen, May 22; Goshen, Sept. 21 (*Alexander*).**D. haeretica** Osten Sacken.

ME.—6, 8. N. H.—11. VT.—16. June 8-July 27.

MASS.—24, 27, 28, 29. R. I.—33. CONN.—35. June 1-Oct. 31.

**D. halterata** Osten Sacken.ME.—Orono, Sept. 17 (*Alexander*). N. H.—Franconia (*Mrs. Slosson*).

MASS.—.

**D. immodesta** Osten Sacken.

ME.—6, 4, 7, 8. N. H.—11, 15. VT.—17, 18, 22. July 8-Sept. 16.

MASS.—23, 24, 27, 28. CONN.—May 29-Oct. 1.

**D. liberta** Osten Sacken.

ME.—6, 8. N. H.—12, 14, 15. VT.—17, 18. June 1—July 12.  
MASS.—23, 24, 27, 28. CONN.—35. May 14—Sept. 21.

**D. longipennis** (Schummel).

ME.—1, 6, 8. N. H.—11, 12. VT.—16. June 16—Aug. 17.  
MASS.—24, 28. R. I.—33. CONN.—June 14—Sept. 5.

**D. moniliformis** Doane.

MASS.—Nantucket.

**D. morioides** Osten Sacken.

ME.—Bar Harbor, June 13; Orono, June 10—July 8 (*Alexander*).  
MASS.—Sunderland, May 29 (*Alexander*).

**D. pubipennis** Osten Sacken.

ME.—Mt. Desert, July 30; Orono, July 8 (*Alexander*). N. H.—Jaffrey, June 14.

MASS.—East Walpole, May 26; Mt. Toby, July 10; Goshen, June 4.

**D. pudica** Osten Sacken.

ME.—Orono, June 8 (*Alexander*). N. H.—Mt. Washington; Hampton, June 6 (*Shaw*).

MASS.—Auburndale, July 22.

**D. rostrifera** Osten Sacken.

ME.—Ft. Kent, Aug. 28, 1913 (*Herbert Osborn*).

**D. simulans** (Walker).

ME.—N. H.—11. VT.—16, 17. Aug. 25—Sept. 14.  
MASS.—23, 24. R. I.—33. CONN.—35. May 6—Oct. 1.

**D. stulta** Osten Sacken.

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Mt. Toby, July 10, 1923 (*Alexander*)

*Limonia* Meigen, 1803 (*Limnobia* Meigen, 1818).

**L. cinctipes** (Say).

ME.—4, 5, 6, 10. N. H.—14. VT.—17. May 10—Sept. 10.  
MASS.—23. Aug. 9.

**L. immatura** (Osten Sacken).

ME.—N. H.—11, 13, 15. VT.—16, 17. May 25—Sept. 19.  
MASS.—24, 27, 28. CONN.—35. May 18—Oct. 22.

**L. indigena** (Osten Sacken).

ME.—1, 4, 8. N. H.—11, 12, 15. VT.—17, 20, 21. June 2—July 26.

MASS.—23, 24, 27, 28. CONN.—35. May 23—Sept. 29.

**L. maculacosta** (Coquillett), 05—57.

VT.—Bolton Mt., July 27, 1922 (*Bryant*).

**L. hudsonica** (Osten Sacken).

ME.—7, 8, 9, 10. VT.—16, 20. June 20—Aug. 13.  
MASS.—27. Aug. 8—16.

**L. parietina** (Osten Sacken).

ME.—10. N. H.—11, 14, 15. VT.—17. Aug. 26—Sept. 15.  
MASS.—24. Sept. 16.

**L. solitaria** (Osten Sacken).

ME.—1, 2, 4, 6, 7, 8, 9. N. H.—11, 12, 14. VT.—16, 17, 18, 21.  
June 8—Aug. 25.  
MASS.—23, 24, 27. May 29—Sept. 11.

**L. triocellata** (Osten Sacken).

ME.—1, 2, 5, 6, 7, 8, 9. N. H.—11. VT.—17, 19. July 12—  
Aug. 27.  
MASS.—23, 24, 26, 27, 28, 32. CONN.—35. July 15—Sept. 16.  
The larva lives in fungus, see Psyche, vol. 13, p. 2, 1906.

**L. tristigma** (Osten Sacken).

ME.—1, 6, 8. N. H.—11. VT.—22. July 14—Aug. 19.  
MASS.—23, 28. July 27—Aug. 8.

## Rhamphidia Meigen.

**R. flavipes** Macquart.

N. H.—11. VT.—16. June 23—July 14.  
MASS.—23, 24, 27. R. I.—33. CONN.—35. May 23—Aug. 23.

**R. mainensis** Alexander, 16—498.

ME.—Orono, June 12 (*Alexander*).

## Elephantomyia Osten Sacken.

**E. westwoodi** Osten Sacken.

ME.—1, 4, 7, 8. N. H.—11, 12. VT.—16, 21. June 5—July 17.  
MASS.—23, 24, 27. CONN.—35. June 16—Aug. 16.

## Toxorhina Loew.

**T. muliebris** (Osten Sacken).

ME.—6, 8, 9. VT.—20, 22. July 9—Aug. 5.  
MASS.—23, 24, 26, 27, 28. R. I.—33. CONN.—35. July 9—  
July 14.

## Atarba Osten Sacken.

**A. picticornis** (Osten Sacken).

N. H.—Hampton (*Shaw*).

MASS.—Sandwich, June 19 (*Hitchings*); Mt. Toby, July 10  
(*Alexander*). CONN.—East River, July 13 (*Ely*).

***Antocha*** Osten Sacken.***A. opalizans*** Osten Sacken.ME.—1, 4, 5, 6, 10. N. H.—11, 12. VT.—16, 17, 20, 21. JUNE  
4—AUG. 25.

MASS.—23, 24, 27. CONN.—35. MAY 17—SEPT. 6.

***A. saxicola*** Osten Sacken.

VT.—Manchester, JUNE 5—10.

MASS.—Conway, Sept. 16, 1922 (*Alexander*).***Dicranoptycha*** Osten Sacken.***D. germana*** Osten Sacken.N. H.—Bretton Woods, JUNE 27; Franconia (*Mrs. Slosson*).  
VT.—Dummerston, JULY 14.MASS.—Mt. Greylock, AUG. 8 (*Bryant*); Bashbush Falls, JUNE 28.***Teucholabis*** Osten Sacken.***T. complexa*** Osten Sacken.CONN.—East River, July 9, 1910 (*Ely*).***Chionea*** Dalman.***C. valga*** Harris. The Wingless Snow-midge.ME.—Woodland, Dec.—Jan. (*Nylander*). N. H.—Mt. Monadnock, 3000 ft., Jan. 16 (*Emerton*); Jaffrey, Feb. 22—Mar. 14 (*Mrs. C. W. Johnson*); Jackson, Feb. 20 (*Emerton*).MASS.—Malden (*Henshaw*); Framingham, Jan. 19 (*Frost*); Phillipston, Dec. 29 (*H. H. Shepard*).***Cladura*** Osten Sacken.***C. flavoferruginea*** Osten Sacken.

ME.—1. N. H.—11, 15. VT.—19. AUG. 26—OCT. 5.

MASS.—23, 24. SEPT. 11—OCT. 1.

***C. delicatula*** Alexander, 14—589.N. H.—White Mts. (*Morrison*). VT.—Bolton Mt., Aug. 25 (*Bryant*); Killington Peak, Aug. 27.***Rhabdomastix*** Skuse.***R. (Sacandaga) flava*** Alexander, 11—351 and 19—904.

VT.—Dummerston, July 14, 1908.

***Gonomyia*** Meigen.***G. blanda*** Osten Sacken.N. H.—Hampton, July 10—15 (*Shaw*). VT.—Burlington, June 23.CONN.—East River, July 16—20 (*Ely*).***G. cognatella*** Osten Sacken.CONN.—East River, July 5, 1910 (*Ely*).***G. florens*** Alexander, 16—317.ME.—Orono, July 12 (*Alexander*).

**G. mainensis** Alexander, 19–163.

ME.—*Ft. Kent*, Aug. 29, 1913 (*Alexander*).

**G. manca** Osten Sacken.

MASS.—Conway, Sept. 16, 1922 (*Alexander*).

**G. subcinerea** Osten Sacken.

ME.—1, 3, 6, 8. N. H.—11. VT.—22. June 8–Sept. 7.

MASS.—23, 24, 27. CONN.—35. June 17–Aug. 13.

**G. sulphurella** Osten Sacken.

ME.—9. N. H.—11, 12. VT.—20. July 8–Sept. 5.

MASS.—24. R. I.—33. CONN.—35. May 29–Sept. 23.

**Cryptolabris** Osten Sacken.

**C. paradoxa** Osten Sacken.

ME.—3, 4. N. H.—11, 12. VT.—20. July 6–Aug. 22.

MASS.—27. July 7.

**Helobia** St. Fargeau et Serville.

**H. hybrida** (Meigen).

ME.—1, 6, 8. N. H.—11, 15. VT.—16, 17, 18. May 11–Aug. 17.

MASS.—24, 26, 27, 28. R. I.—33. CONN.—35. May 3–Aug. 30.

**Molophilus** Curtis.

**M. comatus** Doane.

ME.—.

**M. cramptoni** Alexander, 24–61.

MASS.—Amherst, June 5, 1924 (*Alexander*).

**M. forcipula** Osten Sacken.

ME.—4, 7, 8, 10. N. H.—11. July 12–26.

MASS.—27.

**M. hirtipennis** Osten Sacken.

ME.—1, 6, 8. N. H.—11, 15. Apr. 29–Aug. 19.

MASS.—24, 27, 28. CONN.—35. May 26–July 20.

**M. pubipennis** Osten Sacken.

ME.—4, 8. N. H.—11. VT.—17, 22. July 14–Aug. 31.

MASS.—23, 24, 27, 29. R. I.—33. June 5–Aug. 9.

**M. ursinus** Osten Sacken.

ME.—Mt. Desert, July 22. N. H.—Hampton, April 27 (*Shaw*).

**Erioptera** Meigen.

Subgenus *Erioptera* Meigen.

**E. chlorophylla** Osten Sacken.

ME.—5, 6, 7, 8. N. H.—11. June 26–Aug. 5.

MASS.—23, 26, 27, 29. R. I.—33. CONN.—35. June 15–Aug. 10.

**E. chrysocoma** Osten Sacken.

ME.—4, 6, 7, 8. N. H.—11, 14. VT.—17, 22. June 19—July 29.  
MASS.—23, 27. June 6—Aug. 9.

**E. septentrionis** Osten Sacken.

ME.—6. N. H.—11. June 10—Aug. 5.  
MASS.—24, 27, 28. R. I.—33. CONN.—35. Apr. 19—Sept. 5.

**E. straminea** Osten Sacken.

ME.—7. N. H.—11. July 14—22.  
MASS.—23, 27. R. I.—33. CONN.—35. May 30—June 20.

**E. vespertina** Osten Sacken.

ME.—Orono, June 10; Capens, July 18. N. H.—Glen House, June 15. VT.—Burlington, June 24.  
MASS.—Amherst, May 17 (*Alexander*). CONN.—

Subgenus *Acyphona* Osten Sacken.**E. armillaris** Osten Sacken.

ME.—6, 8. N. H.—11. VT.—18, 20, 22. June 30—Aug. 17.  
MASS.—23, 24, 27. CONN.— June 19—Aug. 9.

**E. venusta** Osten Sacken.

N. H.—12. VT.—16, 17, 18, 21, 22. June 6—July 1.  
MASS.—23, 27. CONN.—35. June 6—Sept. 20.

Subgenus *Hoplolabis* Osten Sacken.**E. armata** Osten Sacken.

ME.—6. N. H.—11, 12. VT.—17, 19. June 6—Aug. 28.  
MASS.—23, 24. CONN.—35. May 17—29.

Subgenus *Mesocyphona* Osten Sacken.**E. caloptera** Say.

ME.—6, 7. N. H.—11, 12, 14, 15. VT.—17, 22. June 5—July 20.  
MASS.—24, 27, 28, 29. R. I.—33. CONN.—35. May 25—Sept. 5.

**E. needhami** Alexander, 18—383.

ME.—6, 7. N. H.—12. VT.—16, 21. June 6—July 22.  
MASS.—23, 24. CONN.—35. June 20—July 10.

**E. parva** Osten Sacken.

CONN.—

Subgenus *Empeda* Osten Sacken.**E. nyctops** Alexander, 16—503.

ME.—Mt. Desert, June 10. N. H.—Glen House, June 15.

**E. stigmatica** Osten Sacken.

ME.—Orono, June 6–12 (*Alexander*). N. H.—Franconia (*Mrs. Slosson*).

MASS.—Auburndale, Aug. 9; Brookline, May 25; Amherst, May 17 (*Alexander*).

**Gnophomyia** Osten Sacken.**G. tristissima** Osten Sacken.

ME.—6, 8, 9. N. H.—11. VT.—20. July 10–Aug. 5.

MASS.—27. R. I.—33. Apr. 24–Aug. 20.

**Trimicra** Osten Sacken.**T. anomala** Osten Sacken.

MASS.—Cohasset, Sept. 15 (*Bryant*); Nantucket, July 20; Rockport, Aug. 28. R. I.—Newport, June 5, Aug. and Sept. (*Osten Sacken*); Buttonwoods, June 17.

**Ormosia** Rondani.**O. adirondacensis** Alexander, 19–145.

MASS.—Whately Glen, June 10, 1924 (*Alexander*).

**O. arcuata** (Doane), 08–201.

ME.—Orono, May 10–July 5 (*Alexander*).

MASS.—Amherst, Apr. 30–May 14 (*Alexander*).

**O. deviata** Dietz, 16–143.

ME.—Orono, June 5–8, 1913 (*Alexander*).

MASS.—Amherst, June 5; Lake May, Berkshire Co., Aug. 24 (*Alexander*).

**O. dentifera** Alexander, 19–144.

ME.—Orono, June 5–10, 1913 (*Alexander*).

**O. fernaldi** Alexander, 24–116.

MASS.—North Amherst, May 5, 1924 (*Alexander*).

**O. innocens** (Osten Sacken).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Amherst, May 2–14 (*Alexander*).

**O. luteola** Dietz, 16–138.

ME.—Orono, July 29; Houlton, Aug. 24 (*Alexander*).

CONN.—East River, Aug. 19, 1911 (*Ely*).

**O. meigenii** Osten Sacken.

ME.—6. N. H.—11, 15. VT.—21. May 21–June 17.

MASS.—23, 24. May 20–29.

**O. monticola** Osten Sacken.

ME.—3, 8. N. H.—11, 15. Aug. 14–Sept. 26.

MASS.—23, 24. CONN.—35. Aug. 24–Sept. 5.

**O. nigripila** Osten Sacken.

ME.—Orono and Fryeburg, Sept. 5–7 (*Alexander*). N. H.—Franconia (*Mrs. Slosson*).

MASS.—Tyngsboro, June 1 (*Fall*); Sunderland; Mt. Toby and Leverett, May 27–Sept. 10 (*Alexander*).

**O. nimbipennis** Alexander, 17–24.

ME.—Mt. Desert, Aug. 21 (*Alexander*).

MASS.—Lake May, Berkshire Co., Aug. 24; Mt. Toby, Sept. (*Alexander*).

**O. notmanni** Alexander, 20–225.

MASS.—North Amherst, May 3–24; Mt. Toby, May 20 (*Alexander*).

**O. nubila** (Osten Sacken).

ME.—1, 2. N. H.—11. Aug. 17–21.

MASS.—23, 24, 27, 28, 32. May 1–Sept. 6.

**O. pygmaea** (Alexander), 12–166 and 19–911 (*O. pilosa* Dietz).

ME.—1, 2, 6, 7, 8. N. H.—11. June 8–Aug. 31.

CONN.—35. May 24.

**O. rubella** (Osten Sacken).

ME.—6. N. H.—11. Vt.—21. June 5–8.

MASS.—23, 24, 27. Aug. 24–Sept. 25.

**Ula** Haliday.**U. elegans** Osten Sacken.

ME.—Ft. Kent, Aug. 17. N. H.—Mt. Washington, July; Franconia (*Mrs. Slosson*). Vt.—Manchester, June 8.

MASS.—Brookline, Aug. 23; Essex, May 16 (*Fuller*).

**U. paupera** Osten Sacken.

ME.—Orono, June 8, and Ft. Kent, Aug. 25 (*Alexander*).

MASS.—Whately Glen, May 6–29 (*Alexander*).

**Ulomorpha** Osten Sacken.**U. pilosella** Osten Sacken.

ME.—Orono, June 12 (*Alexander*); Ellsworth, July 26 (*Stanwood*).

MASS.—Sunderland, May 27 (*Alexander*).

**Adelphomyia** Bergroth.**A. americana** Alexander, 12–829.

ME.—Houlton, Aug. 24 (*Alexander*).

MASS.—Mt. Toby; Leverett and Conway, Sept. 5–16 (*Alexander*).

**A. cayuga** Alexander, 12–831.

ME.—Orono, Sept. 7 (*Alexander*).

MASS.—Lake May; Mt. Toby and Leverett, Aug. 24–Sept. 11 (*Alexander*).

**A. minuta** Alexander, 11-287.

ME.—Orono, June 14 (*Alexander*). N. H.—Jaffrey, June 21.  
MASS.—Amherst and Sunderland, May 23-30 (*Alexander*).

**Epiphragma** Osten Sacken.

**E. fascipennis** (Say).

ME.—4, 5, 6, 7, 8. N. H.—11, 12, 14, 15. VT.—18, 21. June  
4-July 14.  
MASS.—23, 24, 27. R. I.—33. CONN.—35. May 26-June 16.

**Limnophila** Macquart.

Subgenus *Lasiomastix* Osten Sacken.

**L. macrocera** (Say).

ME.—4, 6, 7, 8, 9. N. H.—11, 14, 15. VT.—17, 20. June 12-  
Aug. 25.  
MASS.—23, 24, 27, 28. R. I.—33. CONN.—. May 29-Aug. 16.

**L. tenuicornis** Osten Sacken.

ME.—Orono, June 10 (*Alexander*). N. H.—White Mts., July.  
MASS.—North Adams, June 18; Amherst and Sunderland, May  
23-27 (*Alexander*).

Subgenus *Idioptera* Macquart.

**L. fasciolata** Osten Sacken.

ME.—Orono, June 12 (*Alexander*). N. H.—Jaffrey, June 15,  
1923.  
MASS.—.

Subgenus *Limnophila* Macquart.

**L. adusta** Osten Sacken.

ME.—6, 7, 8. N. H.—11, 14, 15. June 7-July 12.  
MASS.—23, 24, 26, 27, 28, 31, 32. R. I.—33. CONN.—35.  
May 27-Sept. 16.

**L. alleni** Johnson, '04-126.

N. H.—*Intervale*, June 17, 1904 (*G. M. Allen*).

**L. areolata** Osten Sacken.

ME.—7, 8. N. H.—11, 14. June 10-July 20.  
MASS.—23, 24. May 23-June 10.

**L. brevifurca** Osten Sacken.

ME.—Orono, June 10 (*Alexander*). N. H.—Franconia (*Mrs. Stlosion*); Mt. Washington, July 4.  
MASS.—Sunderland and Whately Glen, May 23-29 (*Alexander*).

**L. contempta** Osten Sacken.

MASS.—26, 27, 28, 31. CONN.—35. June 6-July 10.

**L. imbecilla** Osten Sacken.

MASS.—North Adams, June 18.

**L. inornata** Osten Sacken.

ME.—6, 8. N. H.—11. June 10–20.

MASS.—24, 27. R. I.—33. May 25–June 9.

**L. lenta** Osten Sacken.

ME.—1, 4, 6, 7, 8. N. H.—11. June 17–Aug. 19.

MASS.—24, 27. CONN.—35. June 22–Sept. 4.

**L. lutea** Doane.

ME.—7, 8. N. H.—15. May 21–July 12.

MASS.—26, 27. May 22–June 1.

**L. luteipennis** Osten Sacken.

ME.—6. N. H.—14. VT.—16. June 10–22.

MASS.—24, 27, 29. R. I.—33. CONN.—. May 17–Sept. 4.

**L. marchandi** Alexander, 16–118.MASS.—Stoneham (*Blackburn*). CONN.—*Farmington*, June 7, 1914 (*Dr. R. W. Marchand*).**L. niveitarsis** Osten Sacken.MASS.—Mt. Toby, 600 ft., June 1, 1924 (*Alexander*).**L. nigripalpus** Alexander and Leonard, 14–592.

ME.—Orono, July 29; Mt. Desert, July 21–24.

MASS.—Conway, May 27 (*Alexander*).**L. noveboracensis** Alexander, 11–196.ME.—Orono, July 29–Aug. 5; Mt. Katahdin, Aug. 22 (*Alexander*); Ellsworth, Aug. 18; Portland, Aug. 14.CONN.—East River, July 4–Aug. 11 (*Ely*).**L. quadrata** Osten Sacken.

ME.—6, 7, 8. N. H.—11, 14. June 10–July 21.

MASS.—27. June 28.

**L. recondita** Osten Sacken.

ME.—6, 8. N. H.—14. VT.—16, 18, 21. June 4–July 21.

MASS.—24, 26, 27, 29. CONN.—. May 30–Aug. 22.

**L. stanwoodae** Alexander, 14–595.

ME.—Ellsworth, June 21, July 23.

**L. sylvia** Alexander, 16–534.MASS.—Sunderland, May 27; Amherst, June 5 (*Alexander*).**L. tenuipes** (Say).

ME.—6, 8. N. H.—14. VT.—16. June 19–July 11.

MASS.—24, 27. CONN.—35. May 30–Sept. 14.

**L. toxoneura** Osten Sacken.

ME.—Capens, July 11; Eastport, July 14; Mt. Desert, July 12.

N. H.—Jaffrey, June 27.

MASS.—Lake May, Berkshire Co., July 14 (*Alexander*).

**L. ultima** Osten Sacken.

ME.—Easton, Aug. 26 (*Alexander*). N. H.—Franconia (*Mrs. Slosson*).

MASS.—Amherst, May 7, 1924 (*Alexander*).

Subgenus *Ephelia* Schiner.**L. aprilina** Osten Sacken.

N. H.—Franconia. VT.—Brattleboro, July 15; Dummerston, July 14.

MASS.—North Adams, June 20; Whately Glen and Mt. Toby, May 23, July 10 (*Alexander*). R. I.—Buttonwoods, June 25, 1912.

**L. johnsoni** Alexander, 14–591.

N. H.—Bretton Woods, June 23, 1913.

Subgenus *Dicranophragma* Osten Sacken.**L. fuscovaria** Osten Sacken.

ME.—4, 6, 7, 8, 9. N. H.—11, 14, 15. VT.—16, 17, 18, 21. June 6–July 29.

MASS.—24, 27. R. I.—33. CONN.—35. May 29–Aug. 9.

Subgenus *Prionolabis* Osten Sacken.**L. munda** Osten Sacken.

ME.—Mt. Desert, July 12. N. H.—Franconia (*Mrs. Slosson*); Mt. Washington, 2000–4000 ft., July 6; Bretton Woods, June 28.

**L. rufibasis** Osten Sacken.

ME.—4, 6, 7, 8. N. H.—11, 14. VT.—16, 21. June 4–July 16.

MASS.—23, 24, 26, 27. R. I.—33. CONN.—35. Apr. 6–June 15.

**L. poetica** Osten Sacken.

MASS.—Milton, May 18; Brookline, May 23; Beverly, May 23 (*Burgess*).

**L. unica** Osten Sacken.

ME.—Waterville, June 20; Orono, larva, May 4 (*Alexander*). N. H.—White Mts.

MASS.—Conway, May 27 (*Alexander*).

**L. novaeangliae** Alexander, 14–594.

ME.—Ellsworth, July 9–Aug. 10 (*Stanwood*).

**L. osborni** Alexander, 14–596.

ME.—Phair, Aug. 26; Bangor Bog, near Orono, Aug. 30.

**L. montana** Osten Sacken.

ME.—7, 8. N. H.—11, 14. VT.—17. June 12–July 15.

MASS.—24, 27, 28. CONN.—35. May 3–29.

**L. consimilis** Dietz, 21–255.

CONN.—East River, June, 1911 (*Ely*).

**L. subcostata** (Alexander), 11-288 and 19-919.

N. H.—Jaffrey, June 21; Mt. Washington, 2500 ft., June 18.

MASS.—Sunderland, May 27-30; Claremont, June 4 (*Alexander*).

**Hexatoma Latreille.**

**H. megacera** Osten Sacken.

MASS.—Conway, May 27 (*Alexander*). CONN.—Chapinville, May 26, 1904 (*Britton*).

**Penthoptera Schiner.**

**P. albitarsis** Osten Sacken.

Vt.—Brattleboro, July 15.

MASS.—Plymouth, July 28; Chester, Aug. 5; Mt. Toby, July 10 (*Alexander*). CONN.—New London.

**Eriocera Macquart.**

**E. brachycera** Osten Sacken.

ME.—Mt. Desert, July 21. N. H.—White Mts.; Bretton Woods, June 26.

MASS.—Chester, Aug. 7.

**E. spinosa** (Osten Sacken).

ME.—3. N. H.—11, 12. Vt.—22. June 26-Aug. 1.

MASS.—23.

**E. longicornis** (Walker).

ME.— N. H.—Bretton Woods, June 24; Jaffrey, June 20.

MASS.— CONN.—Oxford, May 21 (*Britton*).

**E. fuliginosa** Osten Sacken.

N. H.—Hampton, July 16 (*Shaw*).

**Pedicia Latreille.**

**P. albivitta** Walker.

ME.—3, 4, 6, 7, 8, 10. N. H.—11. Vt.—17, 20. July 9—Sept. 4.

MASS.—23, 24, 27. CONN.—34, 35. Aug. 8—Sept. 11.

**P. contermina** Walker.

ME.—Traveler Mt., July 29 (*Cushman*). N. H.—Mt. Monadnock (*Miss Kite*). Vt.—Bolton Mt., July 16-Aug. 27 (*Bryant*).

MASS.—Sharon, Aug. 3.

**Tricyphona Zetterstedt.**

**T. auripennis** (Osten Sacken).

N. H.—Mt. Washington (*Mrs. Slosson*); Bretton Woods, June 25.

MASS.—

**T. autumnalis** Alexander, 17-30.

ME.—1, 3, 4, 6, 7, 10. Aug. 3—Sept. 4.

MASS.—23, 27, 28. Aug. 24—Oct. 1.

**T. calcar** (Osten Sacken).

ME.—1, 4, 6, 7, 8, 9. N. H.—11, 14, 15. VT.—17, 21. May 20—Sept. 13.

MASS.—23, 24, 25, 26, 27, 28. May 26—Oct. 1.

**T. hyperborea** (Osten Sacken).

N. H.—Camp of Cambridge Entomological Club, near the Half-way House, Mt. Washington, July 21, 1875 (*Dimmock*).

**T. inconstans** (Osten Sacken).

ME.—1, 4, 6, 7, 8. N. H.—11, 14, 15. VT.—17, 20, 21. May 26—Aug. 29.

MASS.—23, 26, 27, 28. R. I.—33. CONN.—35. June 2—Aug. 10.

**T. katahdin** Alexander, 14—598.

ME.—Mt. Katahdin, Aug. 22 (*Alexander*); Ellsworth, Aug. 26, Sept. 1 (*Stanwood*).

**T. macateei** Alexander, 19—166.

MASS.—Sharon, May 26; Blue Hill, June 6; North Amherst, Whately Glen and Sunderland, May 5—30 (*Alexander*).

**T. vernalis** (Osten Sacken).

ME.—7, 8, 9. N. H.—11. June 10—July 25.

MASS.—23, 24, 27. May 26—June 18.

## Dicranota Zetterstedt.

**D. eucera** Osten Sacken.

MASS.—Amherst, Apr. 30—May 3, 1924 (*Alexander*).

**D. iowa** Alexander, 20—78 (*D. noveboracensis* Johnson, 22—22, not Alexander, 14—600).

N. H.—Mt. Washington, 4000 to 5000 ft., July 8—21.

**D. pallida** Alexander, 14—599.

N. H.—White Mts. (*Morrison*).

**D. rivularis** Osten Sacken.

MASS.—Whately Glen, May 6 (*Alexander*).

## Rhaphidolabis Osten Sacken.

**R. cayuga** Alexander, 16—543.

ME.—.

MASS.—Amherst, May 3—14 (*Alexander*).

**R. confusa** Alexander, 24—63.

MASS.—Mt. Toby, May 20 (*Alexander*).

**R. flaveola** Osten Sacken.

ME.—1, 3, 6, 8. N. H.—11, 14. VT.—20. June 10—Aug. 19.

MASS.—23, 24. June 5.

**R. modesta** (Osten Sacken).

N. H.—White Mts.

**R. rubescens** Alexander, 16-544.

MASS.—Mt. Toby, Sept. 11 (*Alexander*).

**R. tenuipes** Osten Sacken.

ME.—Mt. Desert, Aug. 31 (*Alexander*).

**R. forceps** Alexander, 24-63.

MASS.—Sunderland, May 30 (*Alexander*).

**Triogma** Schiner.

**T. exculpta** Osten Sacken.

N. H.—Hampton, May 20 (*Shaw*).

MASS.—Framingham, May 26 (*Frost*); Amherst, May 19 (*Alexander*).

**Phalacroceria** Schiner.

**P. tipulina** Osten Sacken.

ME.—6, 7, 8. N. H.—11, 14, 15. May 9-July 22.

**Cylindrotoma** Macquart.

**C. americana** Osten Sacken.

ME.—Capens, July 11. N. H.—Mt. Washington, "Tuckerman Ravine," July 28; Bretton Woods, June 28.

**Liogma** Osten Sacken.

**L. nodicornis** Osten Sacken.

ME.—4, 5, 6, 7, 8. N. H.—11, 12, 14. VT.—16, 17, 21. June 5-July 25.

MASS.—23. CONN.—June 15-8.

**Dolichopeza** Curtis.

**D. americana** Needham, 08-211.

ME.—6, 8. N. H.—11, 14. VT.—17. June 13-July 15.

MASS.—23, 27. June 11-July 11.

**Oropeza** Needham, 08-211.

**O. sayi** Johnson, 09-34.

ME.—4, 8. N. H.—11, 12. VT.—16, 17, 18, 22. June 25-July 17.

MASS.—23, 24, 27, 31. CONN.—35. June 11-July 17.

**O. albipes** Johnson, 09-121.

ME.—8. N. H.—15. VT.—22. July 15-21.

MASS.—23, 24, 27, 28. R. I.—33. June 7-Aug. 7.

**O. subalbipes** Johnson, 09-121.

MASS.—Auburndale, June 16.

**O. similis** Johnson, 09-119.

ME.—Mt. Desert, June 13-20.

MASS.—Auburndale, June 4.

**O. dorsalis** Johnson, 09-119.

ME.—Capens, July 14; Machias, July 25; Mt. Desert, June 11—July 17.

**O. venosa** Johnson, 09-120.

ME.—4, 7. N. H.—11, 12, 14. VT.—18. June 27-July 15.

MASS.—23, 24, 25, 27. May 29-June 18.

**O. obscura** Johnson, 09-122.

ME.—4, 7, 8, 10. N. H.—11, 12, 13. VT.—17, 22. June 19—Aug. 8.

MASS.—23, 27. R. I.—33. June 18-Aug. 10.

**O. obscura** var. **polita** Johnson, 09-122.

N. H.—11, 12. July 5-20.

MASS.—23, 25, 27. June 28-Aug. 8.

**Tanyptera** Latreille (*Xiphura* Brulle).

**T. frontalis** (Osten Sacken).

N. H.—11, 14. June 9-July 4.

MASS.—23, 25, 27. CONN.—35. May 9-June 15.

**T. topazina** (Osten Sacken).

ME.—6, 8. N. H.—11, 14. VT.—21. June 5-24.

MASS.—23. June 8-14.

**T. fumipennis** (Osten Sacken).

N. H.—Hampton (*Shaw*).

MASS.—“The Notch,” South Amherst, May 27. CONN.—Hamden, May 25 (*Champlain*); South Meriden, May 28 (*H. L. Johnson*).

**Ctenophora** Meigen.

**C. apicata** Osten Sacken.

ME.—4, 6, 9, 10. N. H.—11, 15. June 28-July 30.

MASS.—24, 27, 32. R. I.—33. CONN.—35. July 12-Aug. 22.

**C. nubecula** (Osten Sacken).

MASS.—Wellesley; Dorchester, June. CONN.—Rowayton, June 16.

**Stygeropis** Loew.

**S. fuscipennis** Loew.

ME.—8. VT.—16, 20. June 24-Aug. 18.

MASS.—26, 27, 29, 30. R. I.—33. June 21-Aug. 23.

**Longurio** Loew.

**L. testaceus** Loew.

ME.—Boothbay Harbor, July 26, 1924 (*G. M. Allen*). N. H.—White Mts. (*Morrison*), U. S. Nat. Mus.

MASS.—Savoy, July 17, 1919 (*Dr. W. E. Britton*).

*Nephrotoma* Meigen (*Pachyrhina* Macquart).*N. eucera* (Loew).ME.—1, 6, 8. N. H.—11, 12, 14, 15. June 3—Aug. 17.  
MASS.—27. R. I.—33. CONN.—35. June 4—15.*N. euceroides* Alexander.MASS.—South Hadley, June 5, 1923 (*J. C. Pearson*).*N. ferruginea* (Fabricius).ME.—4, 6, 7, 8, 10. N. H.—11, 14, 15. VT.—16, 17, 19, 20.  
June 5—Sept. 11.

MASS.—23, 27, 28, 32. R. I.—33. CONN.—35. May 26—Sept. 1.

*N. incurva* (Loew).ME.—8, 9. N. H.—12, 13, 14, 15. VT.—22. June 11—July 15.  
MASS.—23, 27, 28. CONN.—35. June 1—Aug. 10.*N. lugens* (Loew).ME.—6, 9. N. H.—11, 15. June 9—29.  
MASS.—23, 27. CONN.—35. May 24—Sept. 4.*N. macrocera* (Say).N. H.—11, 15. VT.—22. June 21—July 21.  
MASS.—26, 27, 28. CONN.—35. June 1—July 26.*N. macrocera virgata* (Dietz), 21—260.ME.—Casco Bay, July, 1913 (*Dietz*).*N. pedunculata* (Loew).ME.—7, 8, 9. N. H.—11. VT.—16. June 21—July 22.  
MASS.—27. July 19.*N. polymera* (Loew).N. H.—Hanover, July 5. VT.—Norwalk, July 7; Woodstock,  
Aug. 26 (*Morse*).MASS.—Mt. Greylock, Aug. 8 (*Bryant*).*N. penumbras* Alexander, 15—467.N. H.—*Half-way House, Mt. Washington*, July 6, 1914, and 16,  
1915.*N. punctum* (Loew).ME.— N. H.—11, 15. June 20.  
MASS.—27, 28. R. I.—33. June 17—July 15.*N. sodalis* (Loew).N. H.—*Franconia* (*Mrs. Slosson*).*N. tenuis* (Loew).ME.—7, 8. N. H.—11, 12, 13, 15. VT.—18, 20, 21, 22. June  
27—Aug. 7.

MASS.—27, 29. CONN.—35. June 13—Aug. 9.

**N. virescens** (Loew).

N. H.—15. June 20.

MASS.—26, 27, 28, 29, 31, 32. CONN.—35. July 3—Sept. 5.

**N. vittula** (Loew).

ME.—1, 4, 7. N. H.—11. July 9—Aug. 19.

MASS.—25, 27. Aug. 17—27.

**N. xanthostigma** (Loew).

ME.—6, 8, 9, 10. N. H.—11. VT.—17, 20, 21. June 8—Aug. 25.

MASS.—23, 24, 26, 27, 28, 31, 32. CONN.—35. June 1—Aug. 9.

#### *Tipula* Linné.

Subgenus *Cinctotipula* Alexander, 15—469.

**T. algonquin** Alexander, 15—469.

ME.—*Northeast Harbor*, Aug. 29—Sept. 6 (*Dr. C. S. Minot*).

N. H.—Mt. Monadnock. VT.—Bolton, Aug. 25 (*Bryant*).

MASS.—Brookline, Aug. 31; Princeton, Aug. 25.

**T. unimaculata** Loew.

ME.—Bridgton, Aug. 10. VT.—Bolton, Aug. 25 (*Bryant*).

MASS.—Gloucester, Aug. 30, 1912; Mt. Toby, Sept. 11 (*Alexander*).

**T. unifasciata** Loew.

MASS.—Mt. Toby, Sept. 10, and Bear Mt., Holyoke Range, Sept. 14 (*Alexander*).

Subgenus *Trichotipula* Alexander, 15—468.

**T. oropezoides** Johnson, 09—131.

ME.—8. N. H.—11. VT.—21. June 8—Aug. 29.

MASS.—23, 24, 27. CONN.—35. May 28—Sept.

#### Subgenus *Tipula* Linné.

**T. abdominalis** Say.

ME.—7, 8, 9. N. H.—11, 15. VT.—16, 17. June 29—Sept. 16.

MASS.—23, 24, 25, 27, 32. CONN.—35. June 15—Sept. 10.

**T. angulata** Loew.

ME.—4, 7, 8. N. H.—11. June 11—July 15.

MASS.—23. June 27.

**T. angustipennis** Loew.

ME.—6, 9. N. H.—13, 15. May 25—July 17.

MASS.—24, 26, 27, 28. R. I.—33. CONN.—35. Apr. 21—May 29.

**T. annulicornis** Say, ♂ (*T. jejuna* Johnson, 09—132, ♀).

MASS.—Wellesley, July 18 (*Morse*); Blue Hill, July 16; Sharon, Aug. 3. CONN.—

**T. appendiculata** Loew.

N. H.—Franconia (*Mrs. Slosson*).

**T. apicalis** (Loew).

ME.—4, 8, 9, 10. N. H.—13, 14, 15. June 21—July 25.  
 MASS.—23, 26, 28, 29. CONN.—35. May 29—Aug. 8.

**T. balioptera** Loew.

ME.—Southwest Harbor, June 21, 1921; Northeast Harbor, June 26, 1909 (*Dr. C. S. Minot*).

**T. bella** Loew.

ME.—7, 8, 9. N. H.—15. May 20—July 21.  
 MASS.—24, 25, 27, 28. R. I.—33. CONN.—34, 35. May 9—Sept. 12.

**T. bicornis** Forbes.

ME.—Mt. Desert, June 21. N. H.—Bretton Woods, June 27.  
 VT.—Manchester, June 5.  
 MASS.—Mt. Greylock, June 15; Danvers, June 8 (*Winkley*); Dorchester, June 7.

**T. caloptera** Loew.

ME.—6, 8. N. H.—11, 14. VT.—16. June 16—July 10.  
 MASS.—23, 24, 25, 27. CONN.—35. June 15—Aug. 28.

**T. centralis** Loew.

N. H.—White Mts.

**T. collaris** Say.

MASS.—Ellis Station, May 3; Mt. Toby and Whately Glen, Apr. 22—May 23 (*Alexander*). R. I.—Kingston, May (*Barlow*).

**T. cayuga** Alexander, 15—485.

ME.—6, 8. N. H.—11, 14. VT.—14. June 7—July 6.  
 MASS.—24, 25, 27. May 29—June 11.

**T. cunctans** Say.

ME.—Waterville, Sept. 22 (*Hitchings*).

MASS.—Auburndale, Oct. 1; Wellesley, Oct. 6. CONN.—New Haven, Oct. 16.

**T. dejecta** Walker.

N. H.—15. May 20.

MASS.—24, 26, 27. R. I.—33. CONN.—35. May 6—26.

**T. eluta** Loew.

N. H.—Franconia (*Mrs. Slosson*). VT.—Woodstock, July (*Morse*).

MASS.—Amherst, May 17; Essex Co., July 28. CONN.—Winnipauk, June 16.

**T. fragilis** Loew (*T. suspecta* Loew).

ME.—8. N. H.—11, 15. VT.—17. June 26—Sept. 29.  
 MASS.—23, 24. Sept. 16—Oct. 1.

**T. frigida** Walker.

N. H.—Mt. Washington (*Mrs. Slosson*).

**T. fuliginosa** (Say, ♀) (*T. speciosa* Loew, ♂).

N. H.—15. Vt.—21. June 6–21.

MASS.—23, 27, 28. R. I.—33. CONN.—35. June 5–22.

**T. georgiana** Alexander, 15–134.

MASS.—Cambridge; Wellesley, May 28, 1908 (*Morse*). R. I.—Buttonwoods, June 20.

**T. grata** Loew.

ME.—7, 8. N. H.—11. Vt.—17, 21. June 9–Aug. 16.

MASS.—23, 26. June 29–Aug. 8.

**T. hebes** Loew.

ME.—4, 8, 9. N. H.—11, 15. Vt.—20, 21. June 4–Aug. 17.

MASS.—23, 24, 27, 28. July 20–Sept. 10.

**T. hermannia** Alexander, 15–480 (*T. fasciata* Loew, not Linné).

ME.—4, 8, 10. N. H.—14. Vt.—17, 21. June 8–Aug. 25.

MASS.—23, 24, 27. CONN.—35. June 5–Aug. 24.

**T. hirsuta** Doane.

Vt.—Bennington, June 24; Manchester, June 24 (*Morse*).

MASS.—Cohasset, June 25. R. I.—Newport, June 5.

**T. ignobilis** Loew.

ME.—Mt. Desert, Aug. 4. N. H.—Franconia; White Mts.

Vt.—Manchester, June 4.

MASS.—North Adams, Aug. 8 (*Bryant*). CONN.—Colebrook, Aug. 10 (*Wheeler*).

**T. insignifica** Alexander, 24–117.

N. H.—Mt. Washington, "Alpine Garden," Sept. 21, 1919.

**T. ignota** Alexander, 15–128 (*T. discolor* Loew, not Gmelin).

MASS.—

**T. iroquois** Alexander, 15–128 (*T. cincta* Loew, not Gmelin).

ME.—Bar Harbor, June 13. N. H.—Mt. Washington (*Mrs. Slosson*); Jaffrey, June 24.

MASS.—Chester, May 26–28; Mt. Toby, May 20–29 (*Alexander*).

**T. johnsoniana** Alexander, 15–505.

Vt.—Dummerston, July 14, 1908.

MASS.—Mt. Greylock, Aug. 8 (*Bryant*).

**T. latipennis** Loew.

ME.—4, 7, 8. N. H.—11, 12, 15. Vt.—18, 19, 20, 22. July 12–Aug. 16.

MASS.—23. Aug. 8.

**T. longiventris** Loew.

ME.—8. N. H.—15. June 7–21.

MASS.—23, 24, 26, 27, 28, 29. R. I.—33. CONN.—35. May 29–July 1.

- T. macrolabris** Loew.  
ME.—Capens, July 19. N. H.—White Mts.; Glen House, July 23. Vt.—Bennington, June 19.  
MASS.—Mt. Greylock, Aug. 8 (*Bryant*).  
**T. mingwe** Alexander, 15—492.  
N. H.—Jaffrey, Aug. 28. Vt.—Mt. Bolton, Aug. 25 (*Bryant*).  
MASS.—Chester, July 25—Aug. 3; Lake May, Aug., and Mt. Toby, Sept. 11 (*Alexander*).  
**T. magaura** Doane.  
Vt.—Norwich, July 8, 1908.  
**T. mainensis** Alexander, 15—475.  
ME.—Mt. Desert, Aug. 31; *Ft. Kent*, Aug. 19; *Ashland Junction*, Aug. 16.  
MASS.—Mt. Greylock, Aug. 8 (*Bryant*).  
**T. monticola** Alexander, 15—490.  
ME.—8. N. H.—14. Vt.—21. June 6—28.  
MASS.—23, 24, 27. R. I.—33. June 5—29.  
**T. morrisoni** Alexander, 15—507.  
MASS.—Winchendon, July 1 (*Morse*); Blue Hill, May 30.  
R. I.—Kingston, June 30 (*Barlow*).  
**T. nobilis** (Loew).  
ME.—7, 8. N. H.—11, 14. June 7—July 14.  
MASS.—23, 25, 26, 27. June 4—19.  
**T. noveboracensis** Alexander, 19—167.  
N. H.—Glen House, June 6; Bretton Woods, June 24. Vt.—Bennington, June 18.  
MASS.—Amherst, May 29 (*Alexander*); Great Barrington, June 16; Chester, May 28.  
**T. pachyrhinoides** Alexander, 15—471.  
N. H.—Mt. Washington (*Mrs. Slosson*).  
**T. parshleyi** Alexander, 15—510.  
ME.—4, 6, 7. N. H.—11. June 23—July 19.  
MASS.—27.  
**T. phoroctenia** Alexander, 19—170.  
ME.—Orono, Oct. 3, 16, 1913 (*Parshley*).  
**T. penobscot** Alexander, 15—472.  
ME.—Orono, June 14.  
**T. perlóngipes** Johnson, 09—131.  
MASS.—27, 28, 29. R. I.—33. CONN.—35. June 11—Aug. 1.  
**T. sayi** Alexander, 11—194 (*T. costalis* Say, 1823, not Swederus, 1787).  
ME.—1, 6. N. H.—11, 15. Vt.—17. July 12—Aug. 29.  
MASS.—23, 24, 27, 28, 30, 31, 32. R. I.—33. CONN.—35. Aug. 20—Sept. 23.

**T. senega** Alexander, 15-128 (*T. pallida* Loew, not de Villers).  
ME.—4, 8. N. H.—11, 13, 14, 15. VT.—18, 21. May 25—  
July 18.  
MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—35. May 23-July 5.

**T. septentrionalis** Loew.

N. H.—Mt. Washington, "Alpine Garden," July 4.

**T. sesta** Loew.

ME.—5. N. H.—11, 14, 15. VT.—17, 21. May 25—Sept. 3.  
MASS.—23, 27, 32. R. I.—33. CONN.—35. May 22-June 19.

**T. similissima** Dietz, 21-293.

ME.—4, 7, 8. N. H.—11. VT.—20. June 12-July 19.

**T. simulata** Walker.

N. H.—Mt. Washington (*Mrs. Slosson*).

**T. strepens** Loew.

ME.—7, 8. N. H.—11. VT.—21. June 8-July 19.

MASS.—23, 27. CONN.—35. May 26-June 25.

**T. submaculata** Loew.

ME.—8. N. H.—11, 15. VT.—16, 18. May 31-July 12.

MASS.—23, 24, 27, 32. CONN.—35. May 30-July 14.

**T. sulphurea** Doane.

ME.—Orono, June 12 (*Alexander*).

MASS.—Amherst, May 14; Leverett, Sept. 5 (*Alexander*).  
R. I.—Kingston, Apr. 24 (*Barlow*).

**T. suspecta** Loew.

N. H.—Mt. Washington (*Mrs. Slosson*).

**T. taughannock** Alexander, 15-476.

VT.—*Mt. Equinox*, June 5, 1910.

**T. tephrocephala** Loew.

ME.—3, 4, 7, 8. N. H.—11. VT.—21. June 6-July 18.  
MASS.—23, 24, 26, 27, 29, 32. R. I.—33. CONN.—35. May  
30-June 29.

**T. tricolor** Fabricius.

MASS.—23, 24, 25, 27, 28, 29, 30. CONN.—35. May 25-Sept. 5.

**T. trivittata** Say.

ME.—6, 7, 8, 10. N. H.—11, 12, 14, 15. VT.—. June 5—  
July 14.

MASS.—23, 24, 27, 28. CONN.—35. May 24-June 26.

**T. ultima** Alexander, 15-128 (*T. flavicans* Fabricius, not de Vil-  
lers).

ME.—1, 6, 8, 9. N. H.—11, 13, 15. VT.—20. Aug. 28—  
Sept. 24.

MASS.—24, 25, 26, 27, 28, 32. R. I.—33. CONN.—34, 35.  
Aug. 27-Sept. 22.

**T. umbrosa** var. *inermis* Doane.

ME.—1, 2, 8. N. H.—11. Vt.—17, 19. July 17—Aug. 28.  
MASS.— R. I.—33. CONN.—35. June 18—July 8.

**T. valida** Loew.

ME.—1, 2, 4, 8. N. H.—15. Vt.—17, 21. June 6—Aug. 19.  
MASS.—23, 24, 27, 28. CONN.—35. May 29—July 11.

## DIXIDAE.

## Dixa Meigen.

**D. centralis** Loew.

ME.—Mt. Desert; Ashland Junction. N. H.—Franconia; Glen House; Intervale. July 15—Sept. 11.  
MASS.—Bashbish Falls, June 28.

**D. clavata** Loew.

ME.—1. N. H.—14, 15. Vt.—16. June 8—Aug. 19.  
MASS.—23. CONN.—35. May 27—Aug. 8.

**D. cornuta** Johannsen, 23—55.

ME.—Orono, June; Ft. Kent, Aug. 17.  
MASS.—Dedham, Sept. 4.

**D. fusca** Loew.

CONN.—New Haven, Nov. 9, 1903 (*Viereck*).

**D. modesta** Johannsen, 23—56.

ME.—8. N. H.—11, 14. Vt.—22. June 10—July 14.  
MASS.—23, 26, 27. CONN.—35. May 28—Oct. 22.

**D. notata** Loew.

MASS.—Auburndale, Aug. 2. CONN.—.

**D. similis** Johannsen, 23—57.

ME.—Capens; Princeton; Machias. July 12—26.  
R. I.—Providence.

**D. terna** Loew.

Vt.—Burlington, June 24.

CONN.—New Haven, May 10 (*A. B. Champlain*).

## CULICIDAE.

## CULICINAE.

## Wyeomyia Theobald.

**W. smithii** (Coquillett). The Pitcher-plant Mosquito.

ME.—8. N. H.—. July 30—Aug. 15.

MASS.—24, 27, 29. CONN.—35. Apr. 5—June 27.

## Culex Linné.

**C. pipiens** Linné. The Rain-barrel or House Mosquito.

ME.—6. N. H.—15. Apr. 24—July 2.

MASS.—24, 26, 27, 29, 32. R. I.—33. CONN.—35. Apr. 20—Oct. 25.

**C. territans** Walker (*C. restuans* Theobald).  
 ME.—6, 10. N. H.—14. May 16—Dec. 17.  
 MASS.—23, 24. CONN.—35. June 5—Oct. 1.

**C. salinarius** Coquillett.  
 MASS.—West Springfield, Aug. (*Knab*). CONN.—New Haven (*Britton*).

**C. testaceus** Van der Wulp.  
 ME.—Lincolnville, Aug. (*Dyar*).  
 MASS.—Westfield, Aug. 25 (*Knab*); Danvers, Sept. 23. R. I.—Weekapaug, July 5 (*Dyar*).

**C. melanurus** Coquillett.  
 N. H.—Center Harbor, Aug. 19 (*Dyar*).  
 MASS.—Westfield, Aug. (*Knab*).

**Theobaldia** Neven-Lemaire (*Culiseta* Felt).

**C. dyari** (Coquillett) (*C. brittoni* Felt).  
 N. H.—13, 14. May.  
 MASS.—24, 26. CONN.—35. May—July.

**C. impatiens** (Walker).  
 ME.—Ft. Kent, Aug. 20; Penobscot Co. (*Underwood*); Waterville, May 11 (*Hitchings*); Weld, Aug. (*Dyar*). N. H.—Monadnock, May 11 (*Thayer*).

**C. inornatus** Williston (*C. magnipennis* Felt).  
 MASS.—Beverly, Sept. 28 (*Dimmock*).

**Taeniorhynchus** Lynch Arribálzaga.  
 (*Mansonia* Blanchard; *Coquillettidia* Dyar.)

**T. perturbans** (Walker) (*C. ochropus* Dyar and Knab).  
 ME.—6, 8. N. H.—13. VT.—16. June 24—Aug.  
 MASS.—24, 25, 27, 32. R. I.—33. CONN.—35. June 4—July 15.

**Psorophora** R.-Desvoidy.

**P. ciliata** (Fabricius).  
 MASS.—23, 24, 26, 27, 32. R. I.—33. CONN.—35. June 6—Sept. 30.

**P. sayi** Dyar and Knab, 06—181.  
 MASS.—Springfield and Chicopee, July 16 (*Knab*).

**Aëdes** Meigen.

**A. trivittatus** Coquillett.  
 ME.—Paris, Sept. 3 (*W. C. Perham*).  
 MASS.—South Amherst, June 10 (*Dimmock*); Granby, Sept. 12 (*Knab*). CONN.—

**A. aurifer** Coquillett.

ME.—8. N. H.—13, 14. June 25—July 15.

MASS.—23, 24, 26, 27, 29. R. I.—33. CONN.—35. June 17—July 22.

**A. intrudens** Dyar, 19—23.

ME.—8, 9. N. H.—14. May 10—June 28.

MASS.—24. Apr. 13.

**A. diantaeus** Howard, Dyar and Knab, 17—758.ME.—Mt. Desert, July 7—25. N. H.—Dublin, May, June (*Busck*).**A. dysanor** Dyar, 21—70.N. H.—Dublin, May (*Busck*).**A. punctor** Kirby (*C. aurooides* Felt).

ME.—7, 8, 9. N. H.—12, 14. May 10—Aug. 10.

MASS.—23, 24, 26, 27. May 22—Aug. 23.

**A. hirsuteron** Theobald (*C. pretans* Grossbeck).

ME.—8. N. H.—12, 14. June 20—July 8.

MASS.—23, 24. CONN.—35. May 20—June 15.

**A. lazarensis** (Felt and Young).

ME.—4, 8, 9. N. H.—11, 14. June 4—July 15.

MASS.—23. May 27.

**A. dorsalis** Meigen (*C. curriei* Coquillett; *C. onondagensis* Felt).MASS.—Brookline, July 13; Boston, July 16, 1906; Nahant, June 4, 1908; West Peabody, Aug. 13 (*Caudell*). CONN.—New Haven (*Britton and Viereck*).**A. canadensis** Theobald.

ME.—2, 3, 6, 8. N. H.—11, 12, 13, 14. VT.—17, 18. June 24—Aug. 17.

MASS.—23, 24. R. I.—33. CONN.—35. May 27—June 27.

**A. stimulans** Walker (*C. subcantans* Felt). Woodland-pool Mosquito.

ME.—7, 8. N. H.—14, 15. VT.—16, 19, 22. June 14—Aug. 23.

MASS.—24, 25, 26, 27, 29, 31. CONN.—35. May 21—Aug. 28.

**A. cantator** Coquillett. The Brown Salt-marsh Mosquito.

ME.—7, 8, 10. N. H.—15. June 9—Sept. 5.

MASS.—26, 27, 28, 29, 31, 32. R. I.—33. CONN.—35. May 19—Aug. 18.

**A. fitchii** Felt and Young.

ME.—6, 7, 8. N. H.—12, 14. June 9—Aug. 23.

MASS.—23, 24, 27. CONN.—Apr. 16—July 28.

**A. cinereoborealis** Felt and Young.

ME.—6, 9. N. H.—14, 15. VT.—16, 21. May 10—June 21.

MASS.—24. Apr. 23—May 17.

**A. atropalpus** Coquillett.

ME.—6, 8 (Isleboro). N. H.—11, 13, 14. VT.—12. June 25—  
Aug. 28.

MASS.—23, 24, 26. CONN.—35. June 15—Sept. 8.

**A. excrucians** Walker (*C. abfitchii* Felt).

N. H.—14. Aug. 3.

MASS.—24, 27. Apr. 16—July.

**A. taeniorhynchus** (Wiedemann).

MASS.—Magnolia, Aug. 18 (*Cora H. Clarke*); Fairhaven (*Proctor*). R. I.—Providence. CONN.—East River, July 27 (*Ely*); South Norwalk, Aug. 4.

**A. sollicitans** (Walker). The White-marked Salt-marsh Mosquito.

ME.—8, 10. N. H.—15. June 26—Aug. 13.

MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. June 10—Sept. 12.

**A. triseriatus** (Say).

ME.—4. N. H.—11, 12, 13, 15. July 8—14.

MASS.—23, 24, 27. R. I.—33. CONN.—35. July 24—Sept. 12.

**A. vexans** Meigen (*A. sylvestris* Theobald). Inland Swamp Mosquito.

ME.—8. N. H.—11, 13. VT.—16. June 24—July 14.

MASS.—23, 24, 26, 27, 30. CONN.—35. May 30—Oct. 14.

**A. cinereus** Meigen (*C. fuscus* Osten Sacken).

ME.—4, 6. N. H.—13, 14. July 14—Aug. 3.

MASS.—24, 27. CONN.—35. July 1—Aug. 15.

**A. impiger** Walker (*A. deticus* Howard, Dyar and Knab).

N. H.—Franconia; White Mts.

MASS.—West Springfield, Apr. 13, and Long Meadow, Apr. 16 (*Dyar and Knab*).

**Uranotaenia Lynch Arribálzaga.****U. sapphirinus** Osten Sacken.

N. H.—Center Harbor, July 27, 1902, and Dublin, Aug. (*Dyar*).

MASS.—Wellesley, Aug. 23, 1907 (*Morse*); Sherborn, Oct. 1 (*C. A. Frost*).

**Anopheles** Meigen.**A. punctipennis** Say.

ME.—6. N. H.—11, 13, 14, 15. VT.—16. Feb. 1—Oct. 1.

MASS.—24, 26, 27. R. I.—33. CONN.—35. Apr. 20—Oct. 28.

**A. quadrimaculatus** Say. The Malaria Mosquito.

ME.—6, 10. N. H.—11, 13, 14, 15. Aug. 1—Sept. 20.

MASS.—24, 26, 27. R. I.—33. CONN.—35. May 22—Oct. 23.

**A. maculipennis** Meigen (*A. occidentalis* Dyar and Knab).  
 ME.—Weld, July 25, 1910 (Dyar); Norcross, July, 1914 (Z. P. Dyar); Mt. Desert, June 20; Oquossoc, June 30; South Poland, May (Shannon).  
 MASS.—Leverett, Oct. 8 (*S. B. Freeborn*).

**A. walkeri** Theobald.

MASS.—Westfield, Aug. 23, 1903 (Knab); Auburndale, Sept. 11, 1907.

CORETHRINAE.

**Corethra** Meigen.

**C. cinctipes** Coquillett.

N. H.—Franconia (*Mrs. Slosson*); Hampton, June 13 (Shaw).  
 MASS.—Auburndale, May 28, 1905; Brookline, Aug. 23. CONN.—Montonese, June.

**C. culiciformis** (De Geer) (*C. karnerensis* Felt, 04-347; see Dyar and Shannon, 24-206).

N. H.—Franconia (*Mrs. Slosson*); Dublin (Busck).  
 MASS.—Brookline, June 11-Aug. 23. CONN.—Darien, May 27.

**C. fuliginosus** Felt.

MASS.—Mt. Tom, May 14; Springfield, July 18 (Knab).

Chaoborus Lichtenstein (*Sayomyia* Coquillett).

**C. albipes** (Johannsen).

N. H.—Hampton, June 27 (Shaw).  
 MASS.—Auburndale, May 28; Forest Hills, Aug. 12; Brookline, Aug. 28; Topsfield.

**C. crystallina** (De Geer); see Dyar and Shannon, 24-210 (*Corethra plumicornis* var. *americana* Johannsen).

ME.—Southwest Harbor, July 13. N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Arlington, May 4, 1920 (Anderson).

**C. albatus** Johnson, 21-11.

MASS.—Brookline, June 18; Mt. Tom, July 14. CONN.—New Haven, June 17.

**C. punctipennis** Say.

N. H.—11, 13.

MASS.—25, 26, 27, 28, 29. R. I.—33. CONN.—35. June 17-Sept. 23.

**C. trivittatus** Loew.

ME.—Bar Harbor, Sept. 11. N. H.—Center Harbor; Hampton, Apr. 19-21 (Shaw).

MASS.—Worcester, Apr. 21-24 (Thompson); Framingham, Apr. 25 (Frost).

**Eucorethra** Underwood (*Pelorempis* Johannsen).

**E. underwoodi** Underwood (*P. americana* Johannsen).

ME.—Penobscot Co. (*Underwood*); Ft. Kent, Aug. 18 (bred from pupa); Mt. Desert, July 10, 21; Machias, July (larvae).  
N. H.—Dublin, May 15 (*Busck*); Crawford's (*Mrs. Slosson*).

#### PSYCHODIDAE. The Moth-flies.

**Pericoma** Walker.

**P. ocellaris** var. **americana** Kincaid.

ME.—(*Dr. Hough*).

**Psychoda** Latreille.

**P. albitarsis** Banks.

Vt.—Dummerston, July 14.

MASS.—Sunderland, May 29; Chester, Aug. 6.

**P. alternata** Say.

N. H.—11.

MASS.—27, 28. R. I.—33. CONN.—35. Aug. 13-Oct. 21.

**P. apicalis** Banks.

Vt.—Manchester, June 7.

MASS.—Blue Hill, Milton, May 30—June 6.

**P. cinerea** Banks.

ME.—Southwest Harbor, June 18.

MASS.—Boston, July 17-Dec. 1; Worcester, May; Wellesley, Nov. 19 (*Morse*). R. I.—Kingston, Oct. 14. CONN.—New Haven, March 1.

**P. marginalis** Banks.

N. H.—Franconia; Jaffrey, June 2.

MASS.—Chester, Aug. 6. CONN.—Stonington, June 10.

**P. minuta** Banks.

N. H.—White Mts.

MASS.—Boston; Brookline; Auburndale, June 18; North Amherst, May 29. R. I.—Kingston, July (*Barlow*). CONN.—

**P. nigra** Banks.

ME.—Wales, June 8 (*C. A. Frost*).

MASS.—Brookline, Oct. 21, 1918; Boston, May 25.

**P. slossoni** Williston.

ME.—Mt. Desert, May 27-Aug. 10. N. H.—Bretton Woods, June 28; Mt. Washington; Conway, Sept. 14; Jaffrey, June 22.

MASS.—Sunderland, May 29.

**P. opposita** Banks.

MASS.—Boston, July 14, 1906.

**P. signata** Banks.

ME.—Ft. Kent, Aug. 19.

MASS.—Chester, Aug. 6; Sunderland, May 30. CONN.—Oxford, May 21.

**P. superba** Banks.

MASS.—Cohasset, May 25, 1908 (*Bryant*).

CHIRONOMIDAE. Midges.

Culicoides Latreille. The Biting Midges.

**C. crepuscularis** Malloch, 15–303.

MASS.—Boston, July 9, 1920.

**C. sanguisuga** (Coquillett).

ME.—4, 5, 8. N. H.—11. June 15–July 16.

MASS.—23, 27, 29. May 26–Oct. 12.

**C. variipennis** (Coquillett).

N. H.—Franconia.

MASS.—“Cascade,” North Adams, June 14, 1906.

Neoceratopogon Malloch, 15–310.

**N. splendidus** (Winnertz) (*Ceratopogon bellus* Coquillett).

MASS.—North Reading, June 10.

Ceratopogon Meigen.

**C. fusculus** Coquillett.

ME.—9. N. H.—11, 15. June 1–July 15.

MASS.—28, 29. CONN.—35. May 14–July 24.

**C. hollensis** Melander and Brues.

MASS.—Woods Hole.

**C. levis** Coquillett.

ME.—Machias, July 21.

MASS.—Tyngsboro, Sept. 14 (*Fall*). R. I.—Bristol, July 15, 1919, common in the trap-light (*Howard L. Clark*). CONN.—New Haven, Oct. 16 (*Viereck*).

?**C. articus** Coquillett.

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**C. eriophonis** Williston?

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**C. transiens** Walker?

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**C. piceus** Winnertz?

CONN.—

Pseudoculicoides Malloch, 15–309.

**P. mutabilis** (Coquillett).

ME.—Mt. Desert, July 30 (*McAtee*). N. H.—Franconia.

Forcipomyia Meigen.

**F. squamipes** (Coquillett).

ME.—Mt. Desert, July 31 (*McAtee*).

MASS.—Cohasset, Aug. 30 (*Bryant*).

**F. cilipes** (Coquillett).

ME.—Capens, July 21.

MASS.—Boston, Aug. 7; Arlington, May 29 (*Barber*); Petersham, July 19 (*G. C. Wheeler*).

**F. specularis** (Coquillett).

ME.—Orono, Aug. 11, 1915 (*Johannsen*). N. H.—Mt. Washington (*Mrs. Slosson*).

**Palpomyia Meigen.**

**P. longipennis** (Loew).

Vt.—St. Albans, June 19.

MASS.—Provincetown, June 25, and Eastham, June 27, 1904; Mt. Tom, July 14, 1905; Fall River, June 3 (*Easton*).

**P. nebulosa** Malloch, 15-322.

ME.—8. N. H.—12, 14. June 20—July 22.

MASS.—25, 27, 29. CONN.—35. June 16—July 24.

**P. slossonae** (Coquillett), 05-61.

N. H.—Mt. Washington (*Mrs. Slosson*).

**P. tibialis** Meigen.

Vt.—Middlebury, July 12.

**Johannsenomyia Malloch, 15-332.**

**J. albaria** (Coquillett).

ME.—Princeton, July 12.

MASS.—Tyngsboro, Aug. 12 (*Fall*).

**J. argentata** (Loew).

ME.—Waterville, Aug. 8 (*Hitchings*). N. H.—Hanover, July 8, 1908.

**J. bimaculata** (Loew).

ME.—8. N. H.—12. Vt.—22. July 7—Aug. 10.

MASS.—27, 29. June 1—July 24.

**J. caudelli** Coquillett, 05-63.

ME.—Orono (*Johannsen*).

**J. polita** (Coquillett).

MASS.—Cambridge, Apr. 2.

**Stilobezzia Kieffer, 1911 (*Hartomyia* Malloch, 15-338).**

**S. nebulosa** (Coquillett).

MASS.—Woods Hole, July 24, 1903.

**S. pallidiventris** (Malloch), 15-344.

ME.—Ft. Kent, Aug. 19. Vt.—Montpelier, June 25; Dummerston, July 14.

**Heteromyia Say.**

**H. fasciata** Say.

MASS.—Woods Hole, July 4—24; Provincetown, June 24.

**H. festiva** (Loew).

ME.—Princeton, July 12, 1909.

MASS.—Woods Hole, July 24, 1903.

**H. flavipes** Meigen.

ME.—8. VT.—22. June 11—July 14.

MASS.—26, 27. June 6—10.

**H. plebia** (Loew).

ME.—8. N. H.—12. VT.—22. July 8—Aug. 18.

MASS.—27, 29, 32. July 11—Aug. 13.

**H. prattii** Coquillett.MASS.—Auburndale, June 25—July 15, 1906; Hyannisport, July 4, 1904. R. I.—Kingston (*Barlow*).**H. rufa** (Loew).

ME.—8. N. H.—12, 14. June 13—July 8.

MASS.—27. R. I.—33. CONN.—35. June 9—July 4.

**H. trivialis** (Loew).

ME.—8. N. H.—11, 12, 14. June 16—July 7.

MASS.—29. July 24.

*Serromyia* Meigen.**S. femorata** Meigen.

ME.—Southwest Harbor, July 13, 1918.

**Bezzia** Kieffer.**B. pulveria** Coquillett.

VT.—Burlington, June 23.

MASS.—Auburndale, May 7; Eastham, June 27; Hyannisport, July 4.

**B. setulosa** Loew.MASS.—Ipswich, June 10 (*Fuller*); North Reading, June 10.**Probezzia** Kieffer, 06—57.**P. xanthogaster** Kieffer (*P. elegans* Coquillett, preoccupied).

ME.—Moosehead, July 18; Mt. Desert, June 10.

**Tanypus** Meigen.**T. carnea** (Fabricius).

ME.—8. N. H.—11, 13, 15. May 11—Sept. 29.

MASS.—23, 27. CONN.—35. May 1—Sept. 14.

**T. bifasciatus** Coquillett.

MASS.—Boston.

**T. discolor** Coquillett.N. H.—Franconia (*Mrs. Slosson*).**T. dyari** Coquillett.

N. H.—15. VT.—21. Apr. 30—June 19.

MASS.—27, 28, 32. CONN.—35. Apr. 13—Aug. 28.

**T. flavifrons** Johannsen.

ME.—Orono.

**T. hirtipennis** Loew.

ME.—Bar Harbor, Sept. 13, 1922. N. H.—Franconia (*Mrs. Slosson*).

**T. johnsoni** Coquillett.

MASS.—Arlington, May 26 (*Barber*); Auburndale, June 16.  
CONN.—New Haven, Oct. 31.

**T. melanops** Meigen.

ME.—8, 9. N. H.—14. VT.—18, 21. June 2—July 19.

MASS.—26, 27, 32. CONN.—35. May 22—Sept. 13.

**T. monilis** (Linné) (*T. annulatus* Say).

ME.—6, 8. N. H.—11, 14. VT.—16. June 19—July 21.

MASS.—26, 27, 29. R. I.—33. CONN.—35. May 22—Sept. 14.

**T. nigropunctus** Staeger.

MASS.—Auburndale, Aug. 9.

**T. pictipennis** Zetterstedt (?*T. decedens* Walker).

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**T. sinuosa** Coquillett, 05—65.

N. H.—Franconia (*Mrs. Slosson*); Center Harbor, Aug. 3 (*Dyar*).

**T. tenebrosus** Coquillett, 05—66.

N. H.—Franconia (*Mrs. Slosson*).

**T. concinnus** Coquillett?

N. H.—Mt. Washington (*Mrs. Slosson*); this may be *Procladius bellus* Loew.

*Protenthes* Johannsen, 07—400.

**P. culiciformis** (Linné).

VT.—Middlebury, July, 1912 (*Barlow*).

MASS.—Boston, Apr. 19—July 2; Framingham, May 28; Eastham, June 27. CONN.—New Haven, June 26.

*Anatopynia* Johannsen, 05—135.

**A. heteropus** (Coquillett), 05—66.

N. H.—Mt. Washington (*Mrs. Slosson*).

*Procladius* Skuse.

**P. bellus** Loew.

ME.—Orono (*Johannsen*).

MASS.—Tyngsboro, July 22 (*Fall*); Provincetown, June 25; Edgartown, June 28. R. I.—Newport, June 5.

*Clinotanypus* Kieffer.

**C. scapularis** Loew.

CONN.—

**C. thoracicus** Loew.

MASS.—Provincetown, June 24. CONN.—Middletown, June 17.

**Psilotanypus** Kieffer, 06-318.**P. turpis** Zetterstedt.N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.**Corynoneura** Winnertz.**C. celeripes** Winnertz.ME.—Orono, Oct. (*Johannsen*).**Chironomus** Meigen.**C. albimanus** Meigen.MASS.—Auburndale, Aug. 9; Sunderland, May 30; Tyngsboro, June 5 (*Fall*). CONN.—Rowayton, May 27.**C. annularis** DeGeer.

ME.—Bar Harbor, June 18.

MASS.—Lynn, Apr. 19; Wellesley, Apr. 28 (*Morse*); Boston, Apr. 30.**C. attenuatus** Walker.N. H.—Mt. Washington (*Mrs. Slosson*).**C. barbipes** Staeger.

MASS.—Hyannisport, July 4.

**C. brachialis** Coquillett.

ME.—Mt. Desert, Aug. 10. N. H.—Hanover, July 6.

MASS.—Brookline, Aug. 23—Sept. 6; Auburndale, May 26; Lexington, July 2. R. I.—Wickford, June 9.

**C. braseniae** Luthers, 22-30.MASS.—Forest Hills, Boston (*R. H. Pettit*). The larvae burrow in the floating leaves of the water-shield (*Brasenia schreberi*) and water-lilies.**C. cayugae** Johannsen, 13-308.

ME.—Orrington.

MASS.—Woods Hole.

**C. cristatus** Fabricius.

ME.—4. N. H.—11, 12, 15. VT.—16. June 19—July 21.

MASS.—26, 27, 32. CONN.—35. May 3—Aug. 9.

**C. decorus** Johannsen, 05-239.

ME.—7. N. H.—12, 15. VT.—16, 19, 21. June 5—Aug. 28.

MASS.—26, 27. R. I.—33. June 8—Aug. 9.

**C. dorsalis** Meigen.

CONN.—

**C. divinctus** Say.

ME.—Mt. Desert, July 12. VT.—St. Albans, June 19.

**C. dispar** Meigen?

ME.—5, 7, 8. N. H.—14. VT.—22. June 13—July 19.

MASS.—27. CONN.—35. May 28—Aug. 9.

**C. dux** Johannsen, 05—231.

ME.—Machias, July 22. N. H.—Bretton Woods, June 28.  
VT.—Manchester, June 8.

MASS.—Brookline, Aug. 23; Auburndale, May 28—June 24;  
Wellesley, Oct. 4 (*Morse*).

**C. fallax** Johannsen, 05—210.

ME.—Machias, July 21; Mt. Desert, June 13; Oquossoc, July 1.

**C. fascipennis** Zetterstedt.

ME.—Machias, July 19; Mt. Desert, July 17. N. H.—Jaffrey,  
June 15.

MASS.—Sharon, Aug. 22.

**C. ferrugineovittatus** Zetterstedt.

MASS.—Boston and Brookline, Aug. 23—Sept. 13, 1911; Wellesley,  
Oct. 10 (*Morse*). R. I.—Providence, Aug. 23.

**C. festivus** Say.

N. H.—Mt. Washington (*Mrs. Slosson*).

R. I.—Newport, June 5. CONN.—Hartford, Aug. 2 (*Walden*).

**C. flavigingulus** Walker.

N. H.—Franconia (*Mrs. Slosson*); Bretton Woods, June 26.

MASS.—Auburndale, May 26; Chicopee, Apr. 15; Amherst,  
May 30.

**C. lineatus** Say.

ME.—Orono (*Johannsen*).

**C. lobiferus** Say.

ME.—Capens, July 21. VT.—St. Albans, June 19.

MASS.—Arlington, Sept. 17 (*Barber*). R. I.—Newport, June 5.

**C. maturus** Johannsen, 08—279.

ME.—Orono (*Johannsen*).

**C. modestus** Say.

ME.—1, 8. N. H.—11. VT.—16, 17, 21. June 5—Sept. 11.

MASS.—27, 29, 30. R. I.—33. CONN.—35. June 17—Sept. 24.

**C. needhami** Johannsen, 07—278 (*C. scalaenus* of authors, not  
Schrank).

N. H.—Mt. Washington (*Mrs. Slosson*). VT.—Montpelier,  
June 25, 1906.

**C. nigricans** Johannsen, 05—219.

ME.—6, 7, 8, 9. N. H.—12. July 12—Sept. 11.

MASS.—26, 27. June 10—Sept. 6.

**C. perpulcher** Mitchell, 08—13.

ME.—Orono, June (*Johannsen*).

*C. pulchripennis* Coquillett.

ME.—7, 8. N. H.—11, 14. VT.—16, 17, 18, 22. June 19—July 14.

MASS.—23, 27. R. I.—33. CONN.—35. June 17—July 10.

*C. plumosus* Linné.

MASS.—27, 29, 30. R. I.—33. CONN.—35. May 20—Sept. 13.

*C. quadripunctatus* Malloch, 15—437.

ME.—Bar Harbor, July 10. VT.—Woodstock, Aug. 20, 1898 (*Morse*).

MASS.—Eastham, June 27.

*C. riparius* Meigen.

ME.—5. N. H.—11. VT.—16, 18. June 21—July 1.

MASS.—26, 27, 29, 31. R. I.—33. Apr. 30—Sept. 6.

*C. taeniapennis* Coquillett.

ME.—6, 7, 8. N. H.—12. VT.—16. June 8—July 21.

MASS.—27, 28. R. I.—33. CONN.—35. May 28—Aug. 18.

*C. utahensis* Malloch, 15—438.

MASS.—“Blue Hill Reservation,” Milton, Apr. 30 (*G. C. Wheeler*).

*C. varipennis* Coquillett.

ME.—Seal Cove, Mt. Desert, Sept. 8, 1922.

MASS.—Sharon, Sept. 4, 1918. CONN.—New Haven, July 4, 1915 (*Viereck*).

*C. viridicollis* Van der Wulp.

ME.—Bar Harbor, June 13.

MASS.—Springfield, July 13; Sharon, July 7; Nantucket, July 20.

R. I.—Newport and Wickford, June 5—9. CONN.—Winnipauk, June 12.

*C. viridis* Macquart?

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

*C. zonopterus* Mitchell, 08—12.

ME.—7, 8. VT.—16, 21. June 19—July 19.

MASS.—25, 27, 28. R. I.—33. CONN.—35. June 6—July 28.

?*C. halophilus* Verrill, Invertebrate Animals of Vineyard Sound, p. 415, 1873 (no description).

MASS.—The larva was dredged in five fathoms.

*?C. brunneus* Walker.

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

*Tanytarsus* Van der Wulp.*T. dissimilis* Johannsen, 05—292.

ME.—Orono (*Johannsen*).

*T. dives* Johannsen, 05—288.

N. H.—Hampton, Apr. 13, 1919 (*Shaw*).

MASS.—Fall River, Apr. 2, 1909 (*Easton*).

**T. flavellus** (Zetterstedt).

ME.—Orono (*Johannsen*).

**T. obediens** Johannsen, 05—286.

ME.—Orono, June (*Johannsen*).

**T. tenuis** Meigen.

ME.—Orono, June (*Johannsen*).

**Eurycnemus** Van der Wulp.

**E. scitulus** Coquillett.

ME.—4, 5, 8, 9. N. H.—11, 15. June 7—July 16.

MASS.—23, 26, 27. CONN.—35. May 26—June 16.

**Metriocnemus** Van der Wulp.

**M. atratulus** Zetterstedt.

ME.—Orono (*Johannsen*).

**M. flavifrons** Johannsen, 05—301.

ME.—Orono (*Johannsen*).

**M. knabi** Coquillett, 04—11.

MASS.—Westfield; Springfield; Wilbraham. The larva lives in pitcher-plant (*Sarracenia purpurea*), Knab, 05—69.

**M. lundbecki** Johannsen, 05—302.

ME.—Orono (*Johannsen*).

**M. aterrimus** Meigen?

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**Brillia** Kieffer.

**B. par** (Johannsen) (*Metriocnemus par* Johannsen, 05—301).

ME.—Orono (*Johannsen*).

**Chasmatonotus** Loew.

**C. bimaculatus** Osten Sacken.

ME.—8. N. H.—11, 14. VT.—20. June 4—July 12.

MASS.—26, 27, 29, 31, 32. CONN.—35. May 19—June 28.

**C. unimaculatus** Loew.

ME.—7, 8. N. H.—11, 13, 14. VT.—17. June 15—July 13.

MASS.—27. CONN.—35. May 31—June 17.

**Eutanypus** Coquillett.

**E. borealis** Coquillett.

N. H.—Mt. Washington (*Mrs. Slosson*).

**Cricotopus** Van der Wulp.

**C. bicinctus** (Meigen).

MASS.—Cohasset, June 20 (*Bryant*); Sherborn, Sept. 5; Ellis, May 3.

**C. slossonae** Malloch, 15-506.

N. H.—Mt. Washington (*Mrs. Slosson*).

**C. sylvestris** (Fabricius).

MASS.—24, 27, 31, 32. CONN.—35. May 16-Oct. 31.

The larva mines the floating leaves of water-lilies.

**C. trifasciatus** (Panzer).

VT.—16. June 17.

MASS.—23, 26, 27, 29, 30. June 27-Aug. 8.

**C. varipes** Coquillett.

N. H.—Jaffrey, June 8. VT.—Burlington, June 23.

MASS.—Auburndale, Aug. 9; North Reading, June 10.

**Campyocladius** Van der Wulp.

**C. byssinus** (Schrank).

N. H.—Mt. Washington (*Mrs. Slosson*). VT.—Middlebury, July (*Barlow*).

MASS.—Medford, Apr. 12 (*Barber*). CONN.—New Haven, June 26, Nov. 4.

**C. minimus** (Meigen).

N. H.—Mt. Washington (*Mrs. Slosson*).

**Orthocladius** Van der Wulp.

**O. nivoriundus** (Fitch).

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Forest Hills, Boston, Apr. 14, 1910; Auburndale, Apr. 16; Wellesley, Mar. 20 (*Morse*).

**O. sordidellus** (Zetterstedt) (*O. variabilis* (Staeger)).

N. H.—Mt. Washington (*Mrs. Slosson*).

?**O. oceanicus** (Packard).

MASS.—Salem Harbor, larvae living in salt water (*Packard*).

**CECIDOMYIIDAE** (*Itonididae*). Gall Midges.

**Catocha** Haladay.

**C. americana** Felt, 08-309 and 13-130.

N. H.—Franconia (*Mrs. Slosson*).

**C. slossonae** Felt, 08-309, and 13-132.

N. H.—Franconia (*Mrs. Slosson*).

**Lestremia** Macquart.

**L. franconiae** Felt, 08-311 and 13-141.

N. H.—Franconia (*Mrs. Slosson*).

**L. leucophaea** Meigen.

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**Monardia** Kieffer.

**M. articulosa** (Felt), 08-315 and 13-192.  
N. H.—White Mts. (*Morrison*), U. S. Nat. Mus.

**M. barlowi** (Felt), 08-316 and 13-190.  
R. I.—Kingston, May 2, 1904 (*Barlow*).

**M. lateralis** Felt, 14-102.  
MASS.—Boston, May 10 (*Bryant*).

**M. modesta** Felt, 13-142.  
CONN.—New Haven, Nov. 4 (*Viereck*).

**M. multiarticulata** Felt, 14-109.  
N. H.—Franconia (*Mrs. Slosson*).

**M. rugosa** Felt, 14-110.  
N. H.—Hanover, July 5, 1908.

**Prionellus** Kieffer.

**P. dilatatus** (Felt), 07-149 and 13-178.  
MASS.—Worcester (*Thompson*).

**Miastor** Meinert.

**M. americana** Felt, 07-5 and 13-205.  
CONN.—Colebrook, June 8, 1911 (*Wheeler*).

The larva of this species is frequently pedogenetic (Felt, 11-82).

**Johnsonomyia** Felt, 08-417.

**J. rubra** Felt, 08-417 and 13-212.  
N. H.—Jaffrey, June 14. VT.—Montpelier, June 26, 1906.  
MASS.—Great Barrington, June 16, 1915; Sunderland, May 30,  
flying about very old decayed logs, in shady places.

**Didactylomyia** Felt, 11-39.

**D. capitata** Felt, 13-174.  
MASS.—North Adams, Aug. 1907 (*Bryant*).

**D. longimana** Felt, 08-416 and 15-142.  
MASS.—Auburndale, Aug. 16, 1906.

**Colpodia** Winnertz.

**C. cornuta** Felt, 15-153.  
MASS.—Arnold Arboretum, Jamaica Plain, Boston, Oct. 31  
(*Cora H. Clarke*).

**Porricondyla** Rondani.

**P. hamata** Felt, 07-146 and 15-177.  
MASS.—Brookline, Aug. 23.

**P. johnsoni** Felt, 19-282.  
MASS.—Brookline, Aug. 23.

**P. novaeangliae** Felt, 14-110.

N. H.—Franconia (*Mrs. Slosson*).

**P. papillata** Felt, 14-111.

N. H.—Mt. Washington (*Mrs. Slosson*).

*Dirhiza* Loew.

**D. montana** Felt, 08-420 and 15-186.

N. H.—White Mts. (*Morrison*).

*Asynapta* Loew.

**A. frosti** Felt, 13-143.

MASS.—Framingham, June 1, 1910 (*Frost*).

**A. nobilis** Felt, 13-142.

ME.—Bridgton, Aug. 23.

*Rhabdophaga* Westwood.

**R. batatas** (Walsh). The Willow Potato-gall.

ME.—Mt. Desert, Aug. 5.

MASS.—Springfield (*Stebbins*); Worcester (*Thompson*). R. I.—Providence.

Irregular ovoid galls on the willow twigs (Felt, 15-105).

**R. brassicoides** (Walsh). The Willow Cabbage-gall.

ME.—Mt. Desert, Aug. 5.

MASS.—Springfield (*Stebbins*).

Large rosette galls on willows (Felt, 15-113).

**R. gnaphaloides** (Walsh).

MASS.—Springfield, Apr. (*Stebbins*).

An ovate terminal bud-gall on willow.

**R. nodula** (Walsh). Nodule Willow-gall.

MASS.—Worcester, May-June (*Thompson*).

Nodular gall at the base of twigs (Felt, 15-91).

**R. salicifolia** Felt, 07-12 and 15-106. Spiraea Pod-gall.

ME.—Mt. Desert. N. H.—.

MASS.—Magnolia (*Cora H. Clarke*); Springfield (*Stebbins*).

R. I.—Providence.

**R. strobiloides** (Walsh). The Cone Willow-gall.

ME.—8, 9, 10. N. H.—11, 14, 15. Vt.—21. Apr. 16-May 18.

MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—35. Apr. 20—May 30.

The midges emerge in April (Felt, 13-112).

**R. triticoides** (Walsh). The Wheat-ear Willow-gall.

ME.—Mt. Desert. N. H.—Hanover.

MASS.—Worcester (*Thompson*); Auburndale; Concord.

**Dasyneura Rondani.**

**D. americana** Felt, 20-136 and 15-168 (*D. galli* Felt, 08-348, not Loew).

MASS.—Magnolia, Aug. 14 (*Cora H. Clarke*).

Flower bud-gall on bed-straw (*Galium asprellum*).

**D. aromaticae** Felt, 09-289 and 15-183.

MASS.—Barre, reared Aug. 23, 1908 (*Cora H. Clarke*).

The spearmint bud-gall (Felt, 18-184).

**D. clematidis** Felt, 08-344 and 15-147.

MASS.—Springfield (*Stebbins*).

Forms an irregular subglobular bud-gall on *Clematis virginiana*.

**D. corticis** Felt, 09-289 and 15-168.

MASS.—Arnold Arboretum, Boston, May 15—midge emerged May 21 (*Cora H. Clarke*).

In willow twigs, larvae in subcortical cells, no swelling (Felt, 18-34).

**D. cyanococci** Felt, 08-292 and 15-145. The Blueberry Bud-gall.

MASS.—Stowe.

**D. communis** Felt, 11-478 and 15-181. Gouty Vein-gall.

MASS.—CONN.—.

Pouch-like vein-galls on the red maple (Felt, 18-161).

**D. gaylussacii** Felt, 18-176 (*Cecidomyia vaccinii* Osten Sacken, not Smith). Blueberry Leaf-gall.

ME.—Mt. Desert.

MASS.—Springfield, Sept.; South Hadley (*Stebbins*).

Cockscomb-shaped gall on under side of leaf on the mid-rib.

**D. gleditschiae** (Osten Sacken). Honey Locust Midge.

VT.—Bennington, June 23.

MASS.—Brookline, June; Worcester, Aug. (*Thompson*). R. I.—Newport, Aug. (*Osten Sacken*). CONN.—New Haven, June 20 (*Walden*).

On the honey locust (*Gleditschia triacanthus*). The young leaves are transformed into pod-like swellings (Felt, 15-163 and 18-152).

**D. lysimachiae** (Beutenmueller), 07-305.

MASS.—Magnolia, Aug. 18 (*Cora H. Clarke*); Worcester, June (*Thompson*).

An apical bud-gall on loosestrife (*Lysimachia quadrifolia*) (Felt, 15-182 and 18-178).

**D. maritima** Felt, 09-288 and 15-149.

MASS.—Magnolia, Apr. 21, 1909 (*Cora H. Clarke*).

Rolls the leaflets of the beach pea, *Lathyrus maritimus* (Felt, 18-155).

**D. parthenocissi** (Stebbins), 09-44. Woodbine Vein-gall.  
MASS.—Springfield (*Stebbins*).

Tumid irregular mid-rib galls on woodbine, *Parthenocissus quinquefolia* (Felt, 15-161 and 18-165).

**D. purpurea** Felt, 08-349. Joe-pye-weed Midge.

MASS.—Worcester, Sept. (*Thompson*); Martha's Vineyard, Aug. 25.

An oval blossom bud-gall on Joe-pye-weed, *Eupatorium purpureum* (Felt, 15-181 and 18-190).

**D. radifolii** Felt, 09-289.

MASS.—Magnolia, Apr. 16-12, 1909 (*Cora H. Clarke*).

Oval irregular greenish gall composed of clusters of root-leaves on *Solidago puberula* (Felt, 15-178 and 18-193).

**D. rhodophaga** (Coquillett). Rose-bud Midge.

MASS.—Boston (1894). R. I.—A heavy infestation in 1911.

The larva inhabits the rose buds and developing leaves (Felt, 15-130 and 18-140).

**D. rosarum** Hardy. Rose-leaf Midge.

MASS.—Worcester, July (*Thompson*); Magnolia (*Cora H. Clarke*).

Curls or folds the terminal leaves (Felt, 15-166 and 18-148).

**D. salicifolia** Felt, 07-12 and 15-169. Willow-pod Midge.

MASS.—Magnolia, June 1 (*Cora H. Clarke*).

A fusiform pod or curled leaves (Felt, 18-32).

**D. semenivora** (Beutenmueller), 07-390. Violet-seed Midge.

MASS.—Springfield (*Stebbins*).

Forming irregular deformed fruit of the violets (Felt, 15-166 and 18-172).

**D. serrulatae** (Osten Sacken). Alder-bud Gall.

MASS.—Auburndale; Worcester (*Thompson*); Springfield, Apr. (*Stebbins*).

Subconical bud-gall on *Alnus rugosa* (Felt, 15-186 and 18-50).

**D. smilacifolia** Felt, 11-480 and 15-147. Smilax-leaf Midge.

MASS.—Magnolia, Aug. and Sept. (*Cora H. Clarke*).

Young leaves are rolled longitudinally (Felt, 18-28).

**D. toweri** Felt, 09-289 and 15-187.

MASS.—Magnolia, Sept.-Oct. (*Cora H. Clarke*).

Axillary bud-galls on St. John's-wort, *Hypericum mutilum* (Felt, 18-171).

**D. trifolii** (Loew). Clover-leaf Midge.

MASS.—Stow; Boston.

Folds and discolors the leaves of white clover (Felt, 15-143 and 18-154).

**D. tumidosae** Felt, 08-346 and 15-155.

MASS.—Worcester, May (*Thompson*).

Reared from tumid galls on leaves of ash (Felt, 18-179).

**D. ulmea** Felt, 08-349 and 15-171.

MASS.—Jamaica Plain, Boston (*J. G. Jack*).

Aborted or blasted buds on elm (Felt, 18-120).

**D. vaccinii** (Smith) (*Cecidomyia vaccinii* Smith, 1890, not Osten Sacken, 1869; *C. oxycoccana* Johnson; Osten Sacken's name was based on the gall only). The Cranberry Midge.

MASS.—East Wareham, State Cranberry Station (*Franklin*).

Bud-gall or leaf-fold on cranberry (Felt, 15-150 and 18-177).

*Diarthronomyia* Felt, 08-339.

**D. hypogaea** (Loew). Chrysanthemum Midge.

ME.—.

MASS.—Swampscott; Fitchburg. R. I.—Kingston, Feb. 3, 1920 (*Barlow*). CONN.—Hartford; Cromwell; New Haven; Bridgeport.

Introduced; forming swollen stems or deformed buds (Felt, 16-51 and 18-208).

Cystiphora Kieffer.

**C. viburnifolia** Felt, 11-480.

MASS.—Magnolia, May 5 (*Cora H. Clarke*).

Minute blister-gall on under side of the leaf of *Viburnum lentago?* (Felt, 15-201 and 18-187).

Lasioptera Meigen.

**L. clarkei** Felt, 09-287 and 18-164.

MASS.—Magnolia, Oct. 12, 1908 (*Clarke*).

Forming blister-galls on the leaves of *Aster macrophylla*.

**L. clavula** (Beutenmueller), 18-121.

MASS.—Springfield, May and June; Sharon, May.

Forming clavate galls on the apical twigs of the flowering dogwood (*Cornus florida*).

**L. convolvuli** Felt, 07-149 and 18-143.

MASS.—Springfield.

Forming galls on the stems of the bindweed (*Convolvulus sepium*).

**L. corni** Felt, 07-107 and 18-119.

MASS.—Wilbraham. CONN.—.

Forming ocellate galls on the leaves of *Cornus paniculata* and *C. candidissima*.

**L. cylindrigallae** Felt, 07-150 and 18-157.

MASS.—Mt. Tom, July 22; Worcester (*Thompson*).

**L. excavata** Felt, 07-6 and 18-169.

MASS.—Worcester, July.

Forming blister-like galls on *Crataegus*.

**L. farinosa** (Beutenmueller), 07-397 and Felt, 18-137.

MASS.—Springfield (*Stebbins*); Worcester (*Thompson*).

Forming primrose leaf-galls on blackberry (*Rubus nigro'buccus*).

**L. fraxinifolia** Felt, 08-327 and 18-166.

MASS.—Auburndale; Springfield, June.

From galls on ash leaves, described as *Cecidomyia pellax* by Osten Sacken.

**L. fructuaria** Felt, 16-268.

ME.—Orono, reared from blueberries, June (*W. C. Wood*).

**L. galeopsidis** Felt, 09-287 and 18-151.

MASS.—Boston, May 21 (*Clarke*).

Forming irregular stem-galls on common hemp nettle (*Galeopsis tetrahit*).

**L. impatiensifolia** Felt, 07-105 and 18-122.

MASS.—Springfield; Worcester.

Forming galls on jewel-weed (*Impatiens fulva*).

**L. luctucae** Felt, 07-151 and 18-149.

N. H.—Holderness, Apr. 18.

MASS.—Worcester (*Thompson*).

**L. lycopi** Felt, 07-152 and 18-145.

MASS.—Worcester, Oct.

Forming oval stem-galls on bugleweed (*Lycopus communis*).

**L. nodulosa** Beutenmueller, 07-397; Felt, 18-137.

MASS.—Springfield, May and June; Worcester (*Thompson*).

R. I.—Providence.

Forming irregular stem-galls on blackberry.

**L. querciperda** Felt, 08-125.

MASS.—Worcester. R. I.—Providence. CONN.—New Haven (*Champlain*).

The gall consists of swellings on white-oak twigs.

**L. solidaginis** Osten Sacken (*Cecidomyia tumifica* Beutenmueller).

N. H.—Boscawen.

MASS.—Worcester (*Thompson*); Springfield (*Stebbins*); Forest Hills, Boston, Apr. 20 (*Cora H. Clarke*).

A gall on the stem of one of the goldenrods, *Solidago rugosa*.

**L. spiraeafolia** Felt, 09-287.

ME.—Bar Harbor.

MASS.—Magnolia, July 16 (*Clarke*); Auburndale.

Forming galls on meadow-sweet (*Spiraea salicifolia*).

**L. vitis** Osten Sacken.MASS.—Springfield, June, on wild grape (*Stebbins*). CONN.—.

Forming galls on the leaves and tendrils of the grape.

**L. virginica** Felt, 09–287 and 18–154.MASS.—Magnolia, Oct. 10 (*Clarke*).A stem-gall on the marsh St. John's-wort (*Hypericum virginicum*).**Neolasioptera** Felt.**N. cornicola** (Beutenmueller), 07–394.

R. I.—Providence.

Irregular stem-gall on *Cornus stolonifera*.**N. erigerontis** (Felt), 07–163. Horseweed-stem Midge.

MASS.—.

Fusiform stem-gall on horseweed (*Erigeron canadensis*).**N. perfoliata** (Felt), 07–156 and 18–189. Boneset-stem Midge.

MASS.—Worcester; Springfield. CONN.—.

Oval stem-galls on boneset (*Eupatorium perfoliatum*).**N. ramuscula** (Beutenmueller), 07–392; Felt, 18–197 (*Cecidomyia strombiligemma* Stebbins).

MASS.—Worcester; Springfield. CONN.—.

Fusiform stem-galls on several species of asters.

**N. sambuci** (Felt), 06–131 and 18–183. Elder-stem Midge.MASS.—Worcester; Springfield, May and June (*Stebbins*).

R. I.—. CONN.—.

An irregular gall on the stems of elder.

**N. vitinea** (Felt), 07–153 and 18–178.MASS.—Worcester (*Thompson*).

A conical petiole-gall on grape.

**Asteromyia** Felt, 10–348.**A. agrostis** (Osten Sacken).N. H.—Milford (*Whitney*).MASS.—Worcester (*Thompson*); Cheshire.Forms a flattened cone-shaped gall on grass (*Muhlenbergia*).**A. asterifolia** (Beutenmueller), 07–395; Felt, 18–223.MASS.—Mt. Tom, Oct. 17 (*Stebbins*).Circular yellowish-white dark-margined galls on *Aster laterifolius*.**A. carbonifera** Felt, 18–202.

ME.—Mt. Desert.

MASS.—Springfield (*Stebbins*); Auburndale, Aug. 7; Worcester (*Thompson*).Oval black ocellate blister-galls on the leaves of *Solidago graminifolia*. The gall was named *Cecidomyia carbonifera* by Osten Sacken.

**A. divaricata** Felt, 08-330.

N. H.—Jaffrey, June 14. CONN.—.

"Large oval pinkish blotches on *Aster divaricatus*" (Felt).

**A. dumosae** (Felt), 09-286 and 18-221.

MASS.—Annisquam, July 30, 1908 (Cora H. Clarke).

A small blister-gall on *Aster dumosus*.

**A. flavolunata** (Felt), 08-329 and 13-228.

MASS.—Springfield, June (Stebbins).

"Semi-oval marginal yellowish gall on the leaves of *Solidago canadensis*."

**A. laeviana** (Felt), 07-108.

MASS.—CONN.—.

Oval greenish-yellow gall on *Aster laevis*.

**A. nigrina** Felt, 11-481.

MASS.—Magnolia, gall, Oct., 1906; midges emerged May, 1907 (Cora H. Clarke).

Greenish blister-leaf galls on witch-hazel (Hamamelis).

**A. petiolicola** (Felt), 08-228 and 18-217. Grape-petiole Gall.

R. I.—Providence, Sept.

Ovate swellings on the basal portion of the petiole of the wild grape.

**A. reducta** Felt, 11-481.

MASS.—Magnolia, July 26-28, 1910 (Cora H. Clarke). CONN.—.

Oval blackish galls on *Aster undulata*.

**A. rubra** Felt, 07-203 and 18-229.

N. H.—.

MASS.—Worcester, June-July. R. I.—Providence. CONN.—.

A variegated blister-gall on the leaves of *Solidago rugosa*.

**A. sylvestris** Felt.

CONN.—.

Circular yellowish or brownish galls on *Aster cordifolius*.

**A. vesiculososa** (Felt), 09-286 and 18-213.

MASS.—Magnolia, Sept. 24, 1908 (Mrs. H. M. Tower). CONN.—.

Oval green swellings on Aster.

#### Clinorrhyncha Loew.

**C. eupatoriflorae** (Felt), 07-6.

MASS.—Springfield, Sept. CONN.—Suffield.

In florets of thoroughwort, *Eupatorium perfoliatum* and *E. ageratoides* (Felt, 18-236).

**C. filicis** Felt, 07-108.

MASS.—Magnolia (Miss Clarke).

Apparently reared from willow, bearing the gall of *Hormomyia verruca* Walsh (Felt, 18-234).

## Camptoneuromyia Felt, 08-334.

**C. rubifolia** Felt, 08-334.MASS.—Magnolia, July 30 (*Cora H. Clarke*). CONN.—.

A corrugated marginal leaf-roll on blackberry (Felt, 18-243).

## Phytophaga Rondani.

**P. destructor** (Say) (*Mayetiola destructor* of authors). The Hessian Fly.

This has been recorded from most of the New England States, when wheat was more generally grown. Packard says that it was first noticed at New Haven, Conn., in 1833, and was destructive in Aroostook Co., Me., in 1854.

**P. fraxini** Felt, 15-206. Ash-petiole Midge.

MASS.—.

Reared from base of leaf-petioles of white ash (Felt, 18-179).

**P. rididae** (Osten Sacken). Beaked Willow-gall.

ME.—Mt. Desert, June.

MASS.—Woburn, April 24; Wellesley, Mar. 13 (*Morse*); Worcester (*Thompson*); Springfield (*Stebbins*). CONN.—New Haven, Feb. 14 (*Walden*).

An apical fusiform beaked gall (Felt, 15-213 and 18-36).

**P. ulmi** (Beutenmueller), 07-387.MASS.—Worcester, June, July (*Thompson*).

The gall is formed by the growing together of inactive leaves (Felt, 15-202 and 18-120).

**P. violicola** (Coquillett). Violet-leaf Midge.

MASS.—. CONN.—.

Rolls and discolors the leaves of *Viola odorata* (Felt, 15-204 and 18-172).

## Janetiella Kieffer.

**J. asplenifolia** (Felt), 07-157. Sweet-fern Midge.MASS.—Worcester (*Thompson*); Magnolia, July (*Cora H. Clarke*).A leaf-folding gall, near the mid-vein on *Myrica aspenifolia* (Felt, 15-221 and 18-40).

## Rhopalomyia Rübsaamen.

**R. anthophila** (Osten Sacken). Downy Flower-gall (Felt, 18-191).MASS.—Springfield, Sept. (*Stebbins*); Worcester (*Thompson*). CONN.—.Green pubescent, cylindrical galls in flower of *Solidago canadensis*.**R. astericaulis** Felt, 07-159 and 15-251.

MASS.—Worcester; Woods Hole, July 13. CONN.—.

Oval twig-gall on *Aster novae-angliae* (Felt, 18-201).

- R. bulbula** Felt, 08-365 and 15-260.  
 MASS.—Worcester (*Thompson*).  
 Cylindrical apical bud-gall in rootstalk (Felt, 18-197).
- R. capitata** Felt, 08-363 and 15-245.  
 MASS.—CONN.—  
 Goldenrod rosette midge on *Solidago canadensis* and *S. serotina* (Felt, 18-193).
- R. castanae** Felt, 09-291 and 15-278. Chestnut-bud Gall.  
 MASS.—Stow.  
 Petiole or terminal-bud gall (Felt, 18-50 and 53).
- R. clarkei** Felt, 07-18 and 15-239.  
 N. H.—Tamworth (*Cora H. Clarke*).  
 MASS.—Magnolia. CONN.—East Haven, June 30 (*Walden*).  
 Gall fusiform, sessile, green, marked with red, on leaves of *Solidago rugosa* (Felt, 18-193).
- R. lateriflori** Felt, 07-159 and 15-257 (*Cecidomyia?* *gemmaria* Stebbins, 09-53 and 126, gall only).  
 MASS.—Springfield, Aug. and Sept. (*Dimmock*); abundant on *Aster ericoides* (Stebbins); Annisquam.  
 Axillary bud-gall on *Aster lateriflorus* (Felt, 18-199).
- R. hirtipes** (Osten Sacken). Rootstalk-bud Midge (Felt, 18-192).  
 MASS.—Magnolia (*Clarke*); Worcester (*Thompson*); Springfield (Stebbins); Petersham, Sept. 2 (*G. C. Wheeler*).  
 A globose apical stem-gall on rootstalks of *Solidago juncea*.
- R. pedicellata** Felt, 08-365 and 15-262 (*Cecidomyia?* *euthemiae* Stebbins, 09-53, gall only). Goldenrod Stem Gall.  
 ME.—Southport.  
 MASS.—Springfield, Aug.-Sept. (*Stebbins*).  
 A fusiform gall, green, marked with red on *Solidago graminifolia* (Felt, 18-193).
- R. racemicola** (Osten Sacken). Beaked Goldenrod Gall.  
 N. H.—MASS.—Springfield, Sept. (*Stebbins*); Auburndale.  
 A subglobular bud-like gall on the flowers of *Solidago canadensis* (Felt, 18-19).
- R. solidaginis** (Loew). Goldenrod Bunch-gall (Felt, 18-192).  
 N. H.—MASS.—Springfield (*Stebbins*); Auburndale.  
 The gall is terminal, consisting of a bunch of many small leaves on *Solidago canadensis*.
- R.? strobiligemma** (Stebbins), 10-53.  
 MASS.—Springfield, Sept. (*Stebbins*). An ovate gall.
- R.? thomi** Felt, 15-50.  
 MASS.—Worcester, Aug. (*Thompson*).  
 An ovoid gall on the end of the stems of aster.

**R. thompsoni** Felt, 07-159 and 15-257.

MASS.—Worcester (*Thompson*).

An ovoid rootstalk gall on *Solidago*. *R. hirtipes*, Felt, 18-197.

**R. truncata** (Felt), 07-160 (*Hormomyia truncata* Felt, 07-160; *Rhopalomyia uniformis* Felt, 15-244 n. nov. for *truncata* 1907, not 1908).<sup>1</sup>

MASS.—Boston (*J. G. Jack*).

**Oligothrophus** Latreille.

**O. betulae** Winnertz. Birch-seed Midge.

MASS.—Boston (*Cora H. Clarke*). CONN.—New Haven.

Deforms the white-birch catkins, changing the alate seeds to a globose gall (Felt, 15-227 and 18-49).

**Sackenomyia** Felt, 08-361.

**S. packardi** Felt, 09-290.

MASS.—Canton, Apr. 15 (*Winthrop Packard*); Boston, May 19 (*Cora H. Clarke*).

Slightly enlarged twigs on the long-leaved willow, *Salix longifolia* (Felt, 15-282 and 18-33).

**S. viburnifolia** Felt, 09-290.

MASS.—Magnolia, Apr. 23—May 8 (*Cora H. Clarke*).

Purplish swellings on the lateral veins of *Viburnum dentatum* (Felt, 15-280).

**Lasiopteryx** Westwood.

**L. coryli** (Felt), 07-11.

MASS.—Worcester, June (*Thompson*).

Fuzzy wrinkled-fold galls at the base of leaves, *Corylus americanus* (Felt, 15-193).

**L. crispata** Felt, 14-111.

MASS.—Magnolia, Aug. 22, 1912 (*Cora H. Clarke*).

Reared from a yellowish blister-leaf gall on *Oakesia sessilifolia*.

**Asphondylia** Loew.

**A. antennariae** (Wheeler). Everlasting-bud Gall.

ME.—Bar Harbor, Aug. 15.

Corm-shaped bud-gall on everlasting (*Atennaria plantaginifolia*) (Felt, 16-133 and 18-204).

**A. conspicua** (Osten Sacken). Cone-flower Gall.

MASS.—Springfield (*Stebbins*). CONN.—Westfield, Sept. 19 (*Britton*).

Irregular subglobular apical-bud gall on cone-flower (*Rudbeckia laciniata*); (Felt, 16-146 and 18-206).

<sup>1</sup> The rules of nomenclature say that when a name is preoccupied the last name should be changed. For *R. truncata* Felt, 08-365, I therefore propose *R. feltii*.

**A. diervillae** Felt, 07-165 and 16-140 (*Cecidomyia inaequalis* Stebbins, 10-48). Bush-honeysuckle Midge.  
MASS.—Mt. Holyoke (Stebbins).

The galls consist of enlarged buds and fruit of Diervilla (Felt, 18-187).

**A. monacha** Osten Sacken. Nun Midge.

ME.—Oquossoc, July 1. N. H.—Jaffrey, June 14.

MASS.—Magnolia, Sept. 1 (*Clarke*); Worcester (*Thompson*); Springfield (Stebbins). R. I.—Buttonwoods, June 15.

An apical, subglobular, rather firm gall on goldenrod (Felt, 16-127 and 18-193).

**A. thalictri** Felt, 11-547. Meadowrue-seed Midge.

N. H.—Shelburne.

MASS.—Magnolia, Aug. 8-18 (*Cora H. Clarke*); Brookline, June 2.

Irregular swollen seed-capsules on Thalictrum (Felt, 16-137 and 18-128).

**Schizomyia** Kieffer.

**S. coryloides** (Walsh and Riley). Grape Filbert Gall.

MASS.—Springfield, on stems of frost grape, *Vitis cordifolia* (Stebbins); Worcester (*Thompson*).

Irregular, fusiform pubescent galls, in clusters (Felt, 16-108 and 18-166).

**S. petiolicola** Felt, 08-379. Grape-petiole Gall.

MASS.—An oval gall on the stem or tendril (Felt, 18-167).

**S. pomum** (Walsh and Riley). Grape Apple Gall.

MASS.—Springfield, on northern fox grape, *Vitis labrusca* (Stebbins).

An irregular nut-like gall (Felt, 16-109 and 18-166).

**S. speciosa** Felt, 14-112.

N. H.—Franconia (*Mrs. Slosson*).

**Cincticornia** Felt.

**C. caryae** Felt, 08-380 and 16-155.

MASS.—Worcester (*Thompson*).

**C. connecta** Felt, 08-381 and 16-170.

CONN.—Westville, May 8, 1903 (*Dr. W. E. Britton*).

**C. globosa** Felt, 09-291 and 16-160.

MASS.—Magnolia, Apr. 26, 1909 (*Cora H. Clarke*).

Hemispherical gall on the under side of the leaves of black oak (Felt, 18-92).

**C. majalis** (Osten Sacken). Oak-vein Gall.

ME.—Mt. Desert.

MASS.—Springfield (Stebbins). CONN.—

**C. pilulae** (Walsh). Oak-pill Gall.

ME.—Mt. Desert.

MASS.—Auburndale; Worcester (*Thompson*); Springfield (*Stebbins*).

Globose irregular wrinkled leaf-galls (Felt, 16-164 and 18-90).

**C. podagrae** Felt, 09-291 and 16-159.

MASS.—Magnolia, Oct., 1908 (*Cora H. Clarke*).

Narrow purplish galls on the under side of the veins (Felt, 18-82).

**C. pustulata** Felt, 09-291 and 16-156. Oak-blister Midge.

MASS.—Magnolia, Apr. 26 (*Cora H. Clarke*). CONN.—

Pustulate swellings on leaves of the black oak (Felt, 18-86).

**C. pustuloides** (Beutenmueller), 07-390.

MASS.—Worcester (*Thompson*); Springfield (*Stebbins*).

Blister-like gall on the leaves of the scarlet and black oaks (Felt, 16-171).

**C. serrata** Felt, 08-380 and 16-154.

MASS.—Near Boston, June, 1908 (*Cora H. Clarke*).

Circular blister leaf-galls on scarlet oak (Felt, 18-86).

**C. simpla** Felt, 09-291 and 16-157.

MASS.—Magnolia (*Cora H. Clarke*).

Oval pustulate swellings on leaf of black oak (Felt, 18-86).

**C. sobrina** (Felt), 07-158 and 16-168.

MASS.—Worcester (*Thompson*).

Irregular pustulate leaf-swellings on black oak (Felt, 18-86).

#### Contarinia Rondani.

**C. canadensis** Felt, 08-394. Ash-midrib Gall.

ME.—Mt. Desert.

MASS.—Auburndale; Springfield (*Stebbins*). CONN.—

Large tumid midrib gall on white ash (Felt, 18-179).

**C. clematidis** Felt, 08-393. Clematis-bud Gall.

MASS.—Worcester (*Thompson*); Springfield (*Stebbins*).

Irregular subglobular bud-galls (Felt, 18-129 and 18-105).

**C. pyrivora** (Riley). Pear Midge.

CONN.—Meriden; Watertown; Mystic.

Introduced; deforms young pears (Felt, 08-393, 13-97 and 18-134).

**C. setigera** Lintner. Melon-tip Midge.

MASS.—Lowell, Aug.-Sept. 1888.

Curls and slightly enlarges the tips (Felt, 08-394 and 18-189).

**C. spiraeina** Felt, 11-547. Spiraea Cabbage Gall.

MASS.—Magnolia, galls collected June 2, 1910, adults emerged Apr. 6, 1911 (*Cora H. Clarke*).

A terminal cabbage-like bud-gall (Felt, 18-133 and 18-104).

**C. virginianae** (Felt), 06–130. Chokecherry Midge.  
 ME.—Harpswell. N. H.—Jaffrey. VT.—Bennington.  
 MASS.—Stow; Worcester (*Thompson*); Springfield (*Stebbins*).  
 CONN.—

Swollen deformed fruit of the chokecherry (Felt, 18–150 and 18–101).

**Lobopteromyia** Felt, 08–389.

**L. venae** Felt, 14–21 (*Cecidomyia?* *venae* *Stebbins*, 10–39). Thorn Vein-gall.

MASS.—Springfield, June (*Stebbins*).

Pouch-like vein-galls on leaves of *Crataegus* (Felt, 18–91 and 18–136).

**Thecodiplosis** Kieffer.

**T. dulichii** Felt, 12–241. Sedge-fruit Midge.

MASS.—Magnolia, adult, June 3 and 4, 1912 (*Cora H. Clarke*).

Reared from fruit of a sedge, *Dulichium arundinaceum* (Felt, 18–27).

**T. liriodendri** (Osten Sacken). Tulip-tree Spot-gall.

MASS.—Boston (*J. G. Jack*); Worcester (*Thompson*); Springfield (*Stebbins*). CONN.—

Ocellate spots on the leaves (Felt, 18–126 and 18–129).

**Dicrodiplosis** Kieffer.

**D. antennata** Felt, 12–243.

ME.—Orono, July 10, 1912 (*Johannsen*).

Reared from larvae preying on the false maple scale, *Phenacoccus acericola* King (see Felt, 18–156).

**D. fulva** Felt, 18–153.

MASS.—Arnold Arboretum, Jamaica Plain, Boston (*Cora H. Clarke*). Reared from leaf-galls on white oak, May 9.

**D. helena** Felt, 12–245.

MASS.—Magnolia (*Cora H. Clarke*).

Reared from subglobular galls on under side of aspen leaves (*Populus tremuloides*).

**D. populi** Felt, 08–394.

MASS.—From galls similar to those of *D. helena*; thus there is some uncertainty as to real gall-maker (Felt, 18–38).

**Youngomyia** Felt.

**Y. umbellicola** (Osten Sacken). Elder-flower Midge.

MASS.—Rutland; Worcester (*Thompson*); Springfield (*Stebbins*).

R. I.—Bristol. CONN.—

The galls are swollen unopened florets (Felt, 18–188 and 18–149).

*Aphidoletes* Kieffer.

**A. cummeris** (Lintner). Melon-aphid Midge.

MASS.—Lowell, Aug., 1888 (*Lintner*).

Reared from aphids infesting melon tips (Felt, 18-188 and 18-138).

**A. recurvata** Felt, 08-397 and 18-136.

MASS.—Brookline, Aug., 1905.

*Lobodiplosis* Felt, 08-397.

**L. acerina** Felt, 07-129 and 18-162.

MASS.—Brookline, Aug. 17.

**L. quercina** (Felt), 07-130 and 18-164.

MASS.—North Adams, Aug., 1907 (*Bryant*).

**L. speciosa** Felt, 13-143.

MASS.—North Adams, Aug., 1907 (*Bryant*).

**L. triangularis** Felt, 18-163.

MASS.—Mt. Greylock, March 7 (*Bryant*).

*Coquilletomyia* Felt, 08-398.

**C. bryanti** Felt, 13-144.

MASS.—North Adams, Aug., 1907 (*Bryant*).

**C. dentata** Felt, 08-398 and 18-169.

MASS.—North Adams, Aug., 1907 (*Bryant*).

*Clinodiplosis* Kieffer.

**C. caulincola** (Coquillett).

N. H.—Portsmouth, July, 1893 (*Mrs. Celia Thaxter*).

Reared from the basal portion of the stems of Iceland poppies, *Papaver nudicaule* (Felt, 18-178).

**C. florida** Felt.

CONN.—.

*Karschomyia* Felt, 08-398.

**K. viburni** (Felt), 07-130 and 18-174.

MASS.—North Adams, Aug., 1907 (*Bryant*).

*Caryomyia* Felt, 09-292.

**C. arcuaria** (Felt), 08-338 and 21-104.

MASS.—Worcester (*Thompson*).

**C. caryae** (Osten Sacken). Hickory-leaf Gall.

MASS.—Worcester, July (*Thompson*); Springfield (*Stebbins*).

CONN.—.

A thin-walled, globose, slightly nippled gall (Felt, 18-46 and 21-97).

**C. caryaecola** Felt, 21-114.

MASS.—Auburndale; Worcester (*Thompson*); Springfield (*Stebbins*).

The gall is subglobular, with a long slender apical process.

**C. consobrina** Felt, 09-292.

MASS.—Barre, May 1. CONN.—

Small, depressed globular leaf-gall on hickory (Felt, 18-46 and 21-103).

**C. holotricha** (Osten Sacken). Hickory Onion-gall.

MASS.—Beverly, Apr. 29; Worcester (*Thompson*); Springfield, Oct. (*Stebbins*).

A globular fuzzy leaf-gall (Felt, 18-47 and 21-101).

**C. inanis** Felt, 09-292.

MASS.—Worcester (*Thompson*).

An irregular subglobose gall with false chamber at the tip (Felt, 18-47 and 21-111).

**C. persicoides** (Beutenmueller). Hickory Peach-gall.

MASS.—Springfield (*Stebbins*). CONN.—

Globular hairy galls, usually clustered along the midrib (Felt, 18-46 and 21-113).

**C. sanguinolenta** (Osten Sacken). Hickory Cone-gall.

MASS.—Worcester, July (*Thompson*); Springfield (*Stebbins*). CONN.—

Narrowly conical leaf-galls (Felt, 18-43 and 21-105).

**C. thompsoni** (Felt), 08-388 and 21-106.

MASS.—Worcester, July (*Thompson*). CONN.—

A melon-shaped long-haired gall on the leaves of hickory (Felt, 18-47).

**C. tubicola** (Osten Sacken). Hickory Tube-gall.

MASS.—Auburndale; Worcester, July (*Thompson*); Springfield (*Stebbins*).

Cylindrical tube-like galls, 4-5 mm. long (Felt, 18-42 and 21-108).

*Monarthropalpus Rübsaamen.*

**M. buxi** (Laboulbene). Box-leaf Midge.

R. I.—Newport, May 29; Kingston.

An irregular oval swelling on the leaves of box, *Buxus sempervirens* (Felt, 21-236).

*Hormomyia Loew.*

**H. cincta** Felt, 21-216.

N. H.—Hampton, May 21, 1906 (*Shaw*).

**H. pudica** Felt, 13-146.

N. H.—Hampton, June 13, 1907 (*Shaw*).

**Trishormomyia** Kieffer.

**T. canadensis** (Felt), 08-388 and 21-288. June-berry Lipped Gall.

ME.—Bar Harbor, June.

MASS.—Magnolia, Apr. (*Clarke*); Worcester (*Thompson*); Springfield (*Stebbins*).

A truncated red-lipped gall on the leaves of the shad-bush, *Amelanchier canadensis* (Felt, 18-134).

**T. clarkei** (Felt), 08-388 and 21-230.

MASS.—Magnolia, Apr. 7 (*Cora H. Clarke*); Worcester (*Thompson*).

A globular terminal bud-gall on meadow-sweet, *Spiraea latifolia* (Felt, 18-133).

**T. crataegifolia** (Felt), 07-160 and 21-224. Thorn Cockscomb Gall.

MASS.—Worcester (*Thompson*).

A cockscomb leaf-gall on the white thorn, *Crataegus crusgallae* (Felt, 18-136).

**T. johnsoni** (Felt), 07-18 and 21-224.

MASS.—Auburndale, May 28, 1906.

**T. modesta** (Felt), 13-145 and 21-229.

MASS.—Auburndale, May 22. CONN.—New Haven, June 30 (*Walden*).

**T. proteana** Felt, 14-113 and 21-228.

MASS.—Auburndale, May 28.

**T. shawi** (Felt), 13-145 and 21-223.

N. H.—Hampton, Aug. 20, 1909 (*Shaw*).

**T. verruca** (Walsh). Willow Lipped Gall.

MASS.—Magnolia, May 8 (*Clarke*); Worcester (*Thompson*); Springfield (*Stebbins*).

A subconical, truncate, lipped gall on willow leaves (Felt, 18-33 and 21-230).

**Hyperdiplosis** Kieffer.

**H. bryanti** Felt, 13-146 and 21-125.

MASS.—North Adams, Aug., 1907 (*Bryant*).

**Lestodiplosis** Kieffer.

**L. crataegifolia** Felt, 08-408.

MASS.—Worcester, July (*Thompson*).

Reared from a rather spiny gall on leaf of Crataegus (Felt, 21-134).

**Obolodiplosis** Felt, 08-410.

**O. robiniae** (Haldeman). Locust-leaf Midge.

ME.—Salisbury Cove, Mt. Desert, July 14.

MASS.—Auburndale, Sept. 3-20; Manchester, Aug. 25 (*Clarke*).

R. I.—Buttonwoods, June 20. CONN.—New Haven, June 30 (*Walden*).

Forming rolled leaf-margins on locust, *Robinia pseudo-acacia* (Felt, 18-155 and 21-152).

**Parallelodiplosis** Rübsaamen.

**P. caryae** (Felt), 07-141 and 21-168.

MASS.—Worcester (*Thompson*).

Reared from globular long-haired hickory leaf-gall resembling *Caryomyia persicoides*, probably inquiline (Felt, 18-47).

**P. cattleyae** (Molliard). Orchid Root-gall.

MASS.—South Natick, May 20, 1890 (*A. P. Morse*).

Reared from the roots of *Cattleya gigas* (Felt, 18-29 and 18-172).

**P. cinctipes** Felt, 14-113.

MASS.—Framingham, May, 1908 (*C. A. Frost*).

Reared from dead twigs of poison ivy, *Rhus vernix* (Felt, 21-172).

**P. clarkeae** Felt, 11-553.

MASS.—*Magnolia*, Sept. 19, 1910 (*Cora H. Clarke*).

A narrow apical bud-gall on *Spiraea salicifolia* (Felt, 18-133 and 21-175).

**P. spiraeae** (Felt), 09-293. *Spiraea* Leaf-roll.

MASS.—*Magnolia*, June 26, 1909 (*Cora H. Clarke*).

The gall is an irregular marginal roll of half-grown leaves of *Spiraea salicifolia* (Felt, 18-134 and 21-166).

**Retinodiplosis** Kieffer.

**R. inopis** (Osten Sacken).

MASS.—Obscure subcortical swellings on smaller branches of scrub pine (Felt, 18-15 and 21-159).

**R. resinicola** Osten Sacken. The Pitch Midge.

MASS.—Woods Hole. CONN.—Norwalk, June 9.

Reared from extruded resin masses on *Pinus rigida* (Felt, 18-16 and 21-156).

**Mycodiplosis** Rübsaamen.

**M. cerasifolia** Felt, 07-21. Leaf-folding Cherry Gall.

MASS.—Worcester (*Thompson*).

Thickened folded leaves of the chokecherry (Felt, 08-401 and 18-185).

**M. holotricha** Felt, 08-401 and 18-188.

MASS.—Worcester (*Thompson*).

Probably inquiline in the galls of *Caryomyia holotricha* (Felt, 18-47).

**M. populifolia** Felt, 08-400.

ME.—Bar Harbor, Aug. N. H.—Aug. (*Thompson*).

Bullet-like swellings at the base of aspen-poplar leaves (Felt, 18-186).

*Cecidomyia* Meigen, 1803 (*Itonida* Meigen, 1800).

**C. canadensis** (Felt), 11-558.

MASS.—Magnolia, Aug. 5, 1908 (*Cora H. Clarke*).

Oval woolly leaf-galls on lateral veins of shad-bush, *Amelanchier canadensis* (Felt, 21-182).

**C. foliora** Russell and Hooker, 08-350 (?*C. erubescens* Osten Sacken, gall only).

MASS.—Amherst, marginal rolls on the leaves of black oak; Springfield (*Stebbins*); Worcester (*Thompson*). CONN.—.

**C. reflexa** (Felt), 13-146.

N. H.—Hampton (*Shaw*).

**C. spiraeina** (Felt), 11-551 (*C. lappa* Stebbins, 10-35, gall only).

MASS.—Magnolia (*Cora H. Clarke*); Springfield (*Stebbins*).

Enlarged terminal buds on *Spiraea salicifolia* (Felt, 21-189).

**C. triticipola** Kieffer, 13-220 (*C. tritici* Felt, 12-289, not Kirby).

The Wheat Midge.

Packard records this species from all of the New England States and it may have been common when wheat was more generally cultivated.

#### DIPTEROCECIDIA.

The following names are based on the galls only, the midge which causes the gall being unknown. They are provisionally placed under the generic name of *Cecidomyia* until the gall-maker is reared and described. The specific names also are subject to change, unless the person who describes the midge chooses to adopt the same name. The form of the galls is, as a rule, so characteristic of the species that it seems detrimental to a study of the family to omit them.

#### *Cecidomyia*.

**C. balsamicola** Lintner. Balsam Gall.

ME.—Moosehead Lake, July. N. H.—(*Thompson*).

Subglobular basal swellings of the leaves of the fir balsam (Felt, 18-19).

**C. bedeguar** Welsh. Tufted Thorn Gall.

MASS.—Springfield (*Stebbins*).

Subglobose vein-gall, opening surrounded by dense tufts on leaves of *Crataegus*.

**C. bifolia** Stebbins, 10-49.

MASS.—*Springfield* (*Stebbins*).

A small gall binding together two leaves of the goldenrod.

**C. castaneae** Stebbins, 10-17.

MASS.—*Springfield*.

An ellipsoidal gall found singly or in small groups near the base of the leaves of chestnut, *Castanea dentata*.

**C. celastri** Stebbins, 10-41. Bittersweet Root-gall.

MASS.—*Springfield* (*Stebbins*).

Irregular enlargement of roots of bittersweet, *Celastrus scandens*.

**C. citricola** Osten Sacken.

MASS.—Worcester.

Infests the base of the leaves of linden.

**C. citrina** Osten Sacken.

MASS.—*Springfield*, July and Aug. (*Stebbins*).

Irregular fleshy galls on the terminal buds of linden.

**C. crotalariae** Stebbins, 10-40. Rattle-box Stem-gall.

MASS.—*Springfield*, Sept. (*Stebbins*).

A fusiform swelling of the winged stem of the rattle-box, *Crotalaria sagittalis*.

**C. cynipsea** Osten Sacken.

MASS.—Worcester.

Subglobose woody swellings on hickory.

**C. deserta** Patton.

CONN.—.

**C. impatiensis** Osten Sacken. Touch-me-not Gall.

MASS.—Auburndale; Worcester (*Thompson*); Springfield (*Stebbins*).

Globose juicy flower-bud galls on jewel-weed, *Impatiens biflora*.

**C. irregularis** Stebbins, 10-9.

MASS.—*Springfield* (*Stebbins*).

Irregular blister-galls between the leaf-veins of the large-toothed aspen, *Populus grandidentata*.

**C. muscosa** Stebbins, 10-35.

MASS.—*Springfield*, Aug. (*Stebbins*).

Mossy leaf-gall of blackberry, *Rubus nigropaucus*.

**C. niveipila** Osten Sacken. Woolly Fold-gall.

ME.—.

MASS.—Worcester (*Thompson*); Springfield (*Stebbins*).

A large midrib fold with thick white pubescence on oaks.

**C. ocellaris** Osten Sacken. Maple Leaf-spot.  
 ME.—Mt. Desert. N. H.—Jaffrey, June. VT.—Bennington, June.

MASS.—Auburndale; Worcester; Springfield. R. I.—Bristol. CONN.—.

Ocellate, yellow, red-margined blisters on the red maple.

**C. pinirigidae** Packard (*C. resinicola* Aldrich, not Osten Sacken; *Displosis rigidae* Stebbins, 10-7). Pine-needle Gall.

MASS.—Springfield (*Stebbins*). R. I.—.

Aborted needle-clusters, base globose, on *Pinus rigida*.

**C. potentillaecaulis** Stebbins, 10-37.

MASS.—Springfield, Sept. (*Stebbins*).

An enlarged internodal stem-gall on *Potentilla canadensis*.

**C. pudibunda** Osten Sacken.

N. H.—Hanover, July.

MASS.—Worcester, June (*Thompson*); Springfield (*Stebbins*).

Folds between the larger veins of the hornbeam, *Carpinus caroliniana*.

**C. racemi** Stebbins, 10-39.

MASS.—Springfield, July (*Stebbins*).

An elliptical swelling of the axis of the raceme of chokecherry.

**C. reniformis** Stebbins, 10-36.

MASS.—Springfield (*Stebbins*).

A reniform gall at the base of the petiole of the wild strawberry.

**C. serotinae** Osten Sacken. Wild-cherry Bud-gall.

MASS.—Springfield (*Stebbins*); Worcester. R. I.—Providence (*Thompson*).

Club-shaped enlargement of terminal bud of *Prunus serotina*.

**C. squamulicola** Stebbins, 10-16. Hazel-catkin Gall.

MASS.—Springfield (*Stebbins*).

A gall which deforms the sterile catkin, causing it to be twice or thrice its normal size.

**C. tuba** Stebbins, 10-46.

MASS.—Springfield (*Stebbins*).

A hemispherical gall on the leaves of *Cornus amomum*.

**C. verrucicola** Osten Sacken. Basswood Wart-gall.

MASS.—Cohasset; Worcester (*Thompson*); Springfield (*Stebbins*).

CONN.—.

Rounded wart-like gall on the leaves of the linden, *Tilia americana*.

**C. viticola** Osten Sacken. Grape Tube-gall.

MASS.—Worcester, Aug. (*Thompson*).

Elongated conical reddish leaf-galls on grape (Felt, 18–168).

*Note*:—The so-called “oak spangle” referred to in literature as *Cecidomyia poculum* O. S., although Osten Sacken suspected they were due to a cynipid, are really produced by a cynipid wasp, described by Weld as *Xystoteras poculum* (Proc. U. S. Nat. Mus., vol. 61, p. 7, 1922).

#### MYCETOPHILIDAE. The Fungus Gnats.

**Bolitophila** Meigen.

**B. disjuncta** Loew.

ME.—4, 8. N. H.—11. VT.—21. June 5–July 24.

**B. cinerea** Meigen.

ME.—1, 4, 6, 7. N. H.—11, 14, 15. June 10–Oct. 30.

MASS.—23. May 26.

**B. hybrida** Meigen.

ME.—1, 4, 8. N. H.—11, 13, 14. VT.—21. June 4–Sept. 10.

MASS.—23. June 13–Aug. 7.

**B. montana** Coquillett.

ME.—Mt. Desert, June 7. N. H.—Mt. Washington.

**Hesperinus** Walker.

**H. brevifrons** Walker.

N. H.—Mt. Washington, 4000 ft., July 6.

MASS.—Mt. Greylock, June 15.

**Palaeoplatyura** Meunier.

**P. johnsoni** Johannsen, 09–226.

VT.—Burlington, June 24.

MASS.—Great Barrington, June 15.

**Ditomyia** Winnertz.

**D. euzona** Loew.

N. H.—Franconia.

**Symmerus** Walker.

**S. tristis** (Loew).

ME.—Mt. Desert, Aug. 10.

MASS.—

**S. annulatus** (Meigen).

ME.—4. N. H.—11. VT.—18, 20, 22. June 26–July 26.

MASS.—23. July 24–Aug. 5.

**S. lauta** (Loew).

ME.—Capens, July 15; Eastport, July 16. N. H.—Mt. Washington, 2500 ft., July 24–28.

*Diadocidia* Ruthe.**D. ferruginosa** (Meigen).

N. H.—White Mts.

MASS.—Auburndale, July 10, Aug. 16; Chester, Aug. 7.

**D. borealis** Coquillett.

N. H.—Bretton Woods, June 24.

*Asindulum* Winnertz.**A. coxale** Loew.ME.—Mt. Desert, Aug. 10. N. H.—Hampton, July 18 (*Shaw*).**A. flavum** Winnertz.

N. H.—.

**A. montanum** Roeder.

ME.—3, 8. N. H.—11. VT.—19. Aug. 2–25.

MASS.—23, 25. July 31–Aug. 12.

*Ceroplatus* Bosc.**C. clausus** Coquillett.

ME.—Mt. Desert, Sept. 13. N. H.—Franconia.

R. I.—Kingston, Aug. 21.

**C. militaris** Johannsen, 09–237.ME.—Mt. Desert, Sept. 13. N. H.—Intervale, Aug. 23 (*Allen*);  
Hampton, June 30 (*Shaw*).*Cerotelion* Rondani.**C. bellulus** (Williston).

MASS.—Brookline, July 21. R. I.—Buttonwoods, July 22.

*Apemon* Johannsen, 09–20.**A. maudae** (Coquillett).N. H.—Franconia (*Mrs. Slosson*); Bretton Woods, June 28; Mt.  
Washington, 3000 ft., July 28.*Platyura* Meigen.**P. inops** Coquillett.

VT.—Brattleboro, July 15.

**P. elegans** Coquillett.

N. H.—12, 15. July 6–Aug. 11.

MASS.—24, 27, 28, 29. July 14–Aug. 16.

**P. mimula** Johannsen, 09–255.N. H.—Hampton, June 4 (*Shaw*).**P. melasoma** Loew.N. H.—Bretton Woods, June 29; Hampton, July 14 (*Shaw*).

MASS.—Auburndale, June 26.

**P. fascipennis** Say.

N. H.—Franconia.

**P. fascipennis** var. **sagax** Johannsen, 09-258.

ME.—Capens, July 11; Eastport, July 16.

**P. mendosa** Loew.

ME.—4, 7, 8. N. H.—11. Vt.—12. June 26—Aug. 10.

**P. mendica** Loew.

ME.—4. N. H.—15. Vt.—12. July 7—Sept. 30.

MASS.—27. July 16.

**P. subterminalis** Say.

ME.—Capens, July 19; Mt. Katahdin, July 16 (*Blake*).

MASS.—North Adams, June 18.

**P. diluta** Loew.

ME.—7. N. H.—11. Vt.—12, 22. July 7—15.

MASS.—27. June 28.

**P. genualis** Johannsen, 09-262.

ME.—4, 7, 8. N. H.—11, 15. Vt.—16, 20. June 23—July 26.

MASS.—27. June 7—15.

#### **Macrocera** Meigen.

**M. inconcinna** Loew.

ME.—4, 7, 8. N. H.—11. Vt.—16, 17. June 21—July 26.

MASS.—23, 27. CONN.—35. May 27—Sept. 4.

**M. nebulosa** Coquillett.

ME.—7, 8. N. H.—11. July 12—25.

MASS.—23, 29. R. I.—33. June 22—Aug. 5.

**M. hirsuta** Loew.

ME.—4, 7, 8. N. H.—11. June 24—July 26.

MASS.—23, 24, 27. CONN.—35. June 17—Sept. 4.

**M. formosa** Loew.

ME.—4, 8. Vt.—20. July 11—21.

MASS.—23, 27. CONN.—35. June 17—Sept. 21.

**M. clara** Loew.

ME.—8. N. H.—11, 13. Vt.—16. June 24—Sept. 10.

MASS.—23, 25, 27. R. I.—33. CONN.—35. June 17—Sept. 3.

**M. nobilis** Johnson, 22-21,

N. H.—Mt. Washington, 2000 ft., July 24; Mt. Monadnock, June 22.

MASS.—Chester, Aug. 8, 1922 (*Bryant*).

#### **Monoclona** Mik.

**M. elegantula** Johannsen, 10-128.

ME.—Mt. Desert, Aug. 10.

**M. furcata** Johannsen, 10-187.

ME.—Orono, May 26, 1910 (*Johannsen*).

*Eudicrana* Loew.

**E. obumbrata** Loew.  
ME.—4, 7, 8. N. H.—11. June 14—July 17.  
MASS.—23. June 24.

*Tetragoneura* Winnertz.

**T. bicolor** Coquillett.  
N. H.—Franconia (*Mrs. Slosson*).  
MASS.—Blue Hill, Milton, June 4; North Adams, June 20.

*Sciophila* Meigen.

**S. quadratula** (Loew).  
ME.— N. H.—Franconia.  
**S. glabana** Johannsen, 10—136.

ME.—Mt. Desert, July 20. VT.—Burlington, June 22.  
R. I.—Buttonwoods, June 20.

**S. glabana** var. *germania* Johannsen, 10—137.  
MASS.—Bashbush Falls, June 28.

**S. glabana** var. *socia* Johannsen, 10—137.  
VT.—Burlington, June 28.  
MASS.—Boston.

**S. incallida** Johannsen, 10—139.  
N. H.—Bretton Woods, June 28.  
MASS.—Arlington, May 26. CONN.—New Haven, June 26.

**S. hebes** Johannsen.  
R. I.—Kingston, May (*Barlow*).

**S. pallipes** Say.  
ME.—Orono, Sept. 9; Mt. Desert, Aug. 11 (*Dr. C. S. Minot*).  
N. H.—Mt. Washington.

**S. fasciata** Say.  
VT.—St. Johnsbury, June 28.

*Paratinia* Mik.

**P. recurva** Johannsen, 10—144.  
VT.—St. Albans, June 21.

*Polylepta* Winnertz.

**P. fragilis** Loew.  
MASS.—“*Massachusetts*” (Loew).

**P. leptogaster** Winnertz.  
N. H.—White Mts.

**P. obediens** Johannsen.  
N. H.—Hampton, May 16 (*Shaw*); Mt. Washington, 4000 ft.,  
July 4—6.

MASS.—Bedford; Chester, May 27.

?**P. grisea** (Walker).

N. H.—White Mts.

FAUNA OF NEW ENGLAND.

*Empalia Winnertz.*

**E. tibialis** (Coquillett).

N. H.—*White Mts.*

**Dziedzickia Johannsen.**

**D. n.sp.** (Johannsen), 10–152.

N. H.—.

**Diomonus Walker.**

**D. bifasciatus** (Say).

ME.—Bridgton, July; Enfield, July 8 (*Hitchings*). N. H.—  
White Mts. Vt.—Killington Peak, Aug. 26.

MASS.—Chester, Aug. 5.

**D. magnificus** Johannsen, 10–155.

N. H.—Mt. Washington, 2000 ft., July 28.

MASS.—Mt. Greylock, Aug. 8 (*Bryant*); Washington, Aug. 8;  
October Mt., July 24.

**D. subcaeruleus** (Coquillett).

N. H.—Franconia (*Mrs. Slosson*). Vt.—Bolton Mt., Sept. 10  
(*Bryant*).

**D. pulcher** (Johannsen), 10–156.

ME.—Enfield, July 8 (*Hitchings*). N. H.—Hampton, July 28,  
1903 (*Shaw*).

MASS.—Mt. Greylock, Aug. 8, 1907 (*Bryant*). R. I.—Kingston,  
July 24 (*Barlow*).

*Neoempheria Osten Sacken.*

**N. macularis** Johannsen, 10–159.

ME.—Capens, July 15; Princeton, July 12; Machias, July 22.  
Vt.—Brattleboro, July 15.

**N. didyma** (Loew).

ME.—4, 7. N. H.—11, 13. Vt.—. July 3–26.

MASS.—23, 25. June 5.

**N. impatiens** Johannsen, 10–161.

MASS.—23, 24, 27. R. I.—33. June 22–Sept. 4.

**N. balioptera** Loew.

Vt.—18. June 28.

MASS.—27. R. I.—33. CONN.—35. May 30–June 12.

**N. nepticula** Loew.

MASS.—Auburndale, Aug. 18; Blue Hill, July 16; Plymouth,  
July 28; Manomet, July 27.

**N. indulgens** Johannsen, 10–162.

Vt.—St. Albans, June 20; St. Johnsbury, June 28.

MASS.—Chester, Aug. 5.

**N. illustris** Johannsen, 10-163.

MASS.—Auburndale, Aug. 13; Plymouth, July 28; Blue Hill, July 16; Southbridge, Sept. 3. R. I.—Buttonwoods, June 21; Kingston, July 26.

**Mycomya Rondani.**

**M. littoralis** (Say).

ME.—8. N. H.—11. VT.—21. July 9-13.

MASS.—23, 27. CONN.— May 28-July 16.

**M. sequax** Johannsen, 10-172.

ME.—Princeton, July 12; Mt. Desert, June 13.

**M. obliqua** (Say).

ME.—8. N. H.—11. July 22-30.

MASS.—27, 28, 29, 31, 32. R. I.—33. June 28-Aug. 31.

**M. tantilla** (Loew).

ME.—Machias, July 26; Mt. Desert, July 30 (*McAtee*).

**M. imitans** Johannsen, 10-177.

ME.—Mt. Desert, July 15.

MASS.—Washington, Aug. 8. R. I.—Kingston (*Barlow*).

**M. maxima** Johannsen, 10-179.

ME.—4, 6, 7, 8. N. H.—11. VT.—16, 18. June 21-July 21.

MASS.—23. June 27.

Type locality, Nain, Labrador, not "Maine."

**M. biseriata** (Loew).

ME.—Capens, July 14. VT.—St. Albans, June 21.

**M. hirticollis** (Say).

N. H.—White Mts.

**M. flavohirta** (Coquillett).

N. H.—Franconia (*Mrs. Slosson*).

**M. mendax** Johannsen (?).

N. H.—Bretton Woods, June 24. VT.—St. Johnsbury, June 27.

?**M. onusta** (Loew).

ME.—Mt. Desert, June 30 (*Dr. Minot*); Kineo, Aug. 17 (*Alexander*).

MASS.—October Mt., July 24.

**M. incompta** Johannsen, 10-186.

ME.—Capens, July 21.

**Gnoriste Meigen.**

**G. megarrhina** Osten Sacken.

ME.—7. N. H.—11. VT.—21. June 5-July 14.

MASS.—23. May 28-June 20.

**G. macra** Johannsen, 11-257.

N. H.—Glen House, June 11.

*Acnemia* Winnertz.**A. flaveola** Coquillett.MASS.—Mt. Tom, July 14; Cohasset, July 5, 1920 (*Bryant*).  
R. I.—.*Azana* Walker.**A. sp.** Johannsen, 11–260.

ME.—.

*Rondaniella* Johannsen, 09–66.**R. abbreviata** (Loew).ME.—6. N. H.—11, 13. July 24–Sept. 10.  
MASS.—23, 27, 32. May 25–Oct. 20.**R. sororcula** (Loew).ME.—1. N. H.—11, 13. Vt.—18. June 26–Oct. 10.  
MASS.—23, 27, 32. June 18–Sept. 12.*Neuratelia* Rondani.**N. scitula** Johannsen, 11–263.ME.—Mt. Desert, June 15; Mt. Katahdin, Aug. 18 (*Blake*).  
N. H.—Bretton Woods, June 29; Glen House, July 3. Vt.—  
Brattleboro, July 15.

R. I.—Buttonwoods, June 21.

**N. desidiosa** Johannsen, 11–263.

MASS.—North Adams, June.

*Leptomorphus* Carter.**L. hyalinus** Coquillett.

N. H.—White Mts.

*Allocotocera* Mik.**A. parvula** (Coquillett).

ME.—Mt. Desert, Aug. 17.

MASS.—Chester, Aug. 17.

*Boletina* Staeger.**B. obscura** Johannsen, 11–270.N. H.—Hampton, Apr., May (*Shaw*).MASS.—Brookline, May 24; New Bedford; Swansea, Oct. 10;  
Dighton, Oct. 17 (*Easton*).**B. cincta** Johannsen, 11–270.N. H.—Hampton, July 17 (*Shaw*). Vt.—Mt. Ascutney, July 11.**B. notescens** Johannsen, 11–272.

ME.—Princeton, July 12. N. H.—Bretton Woods, June 26.

MASS.—Mt. Greylock, June 15; Chester, May 28.

**B. groenlandica** Staeger.N. H.—Mt. Washington, 2500 to 4000 ft., June 13–July 8; Glen  
House, June 11.

**B. tricincta** Loew.

ME.—4, 7, 8. N. H.—11, 15. VT.—21. June 6–Aug. 17.  
MASS.—23, 24, 27, 29, 31. June 28–Aug. 16.

**B. sciarina** Staeger.

ME.—N. H.—Bretton Woods, June 24.

**B. hopkinsii** Coquillett?

N. H.—Hampton (*Shaw*).

Leia Meigen.

**L. melaena** Loew.

ME.—Mt. Desert, Aug. 18. N. H.—Center Harbor, Sept. 10.  
MASS.—Chester, Aug. 5; Washington, Aug. 8. R. I.—Kingston  
(*Barlow*).

**L. ventralis** Say.

ME.—3, 8. N. H.—11. VT.—21. July–Aug. 13.  
MASS.—23, 27. July 24–Sept. 4.

**L. winthemii** Lehmann.

ME.—4, 6, 8. N. H.—11, 15. VT.—18. May 30–Aug. 27.  
MASS.—24. June 28.

**L. oblectabilis** Loew.

ME.—Mt. Desert, July 24–Aug. 11. N. H.—Hampton (*Shaw*).

**L. opima** (Loew).

ME.—8, 9. N. H.—11, 13, 15. VT.—18, 20. June 28–Sept. 10.  
MASS.—24, 27, 29. R. I.—33. CONN.—35. June 22–Sept. 4.

**L. sublunata** (Loew).

ME.—8. N. H.—11. July 21.  
MASS.—24. R. I.—33. CONN.—35. June 12–July 14.

**L. bivittata** Say.

N. H.—White Mts.; Hampton, June 21 (*Shaw*).  
CONN.—New Haven, July 4; Rowayton, Aug. 25.

Phthinia Winnertz.

**P. tanypus** Loew.

N. H.—Franconia. VT.—Montpelier, June 24; Killington Peak,  
Aug. 25.

MASS.—Chester, Aug. 3.

Syntemna Winnertz.

**S. rejecta** Johannsen, 11–296.

MASS.—Blue Hill, Milton, July 16.

**S. longicornis** (Coquillett).

N. H.—White Mts.

MASS.—Brookline, Aug.

**S. vittata** (Coquillett).

ME.—Machias, July 25. N. H.—Franconia (*Mrs. Slosson*).

**S. vittata** var. **fasciata** Johannsen, 11-297.

ME.—Eastport, July 15. N. H.—Mt. Washington, 3000 ft., July 28.

**S. separata** Johannsen, 11-297.

Vt.—St. Johnsbury, June.

**S. polyzona** Loew.

ME.—Mt. Desert, July 21.

R. I.—Buttonwoods, June 21; Apponaug, June 22.

**Docosia Winnertz.**

**D. dichroa** Loew.

ME.—Kittery, June 4. Vt.—Mt. Equinox, June 5.

MASS.—Ellis Station, May 11; Milton, May 17. R. I.—Kingston, May 23.

**D. obscura** Coquillett.

N. H.—White Mts.

**Trichonta Winnertz.**

**T. perspicua** Van der Wulp.

ME.—4, 8. Vt.—17, 18. June 11-July 21.

**T. cincta** Johannsen, 11-303.

ME.—Eastport.

**T. bellula** Johannsen, 11-304.

N. H.—Bretton Woods, June 28. Vt.—Mt. Ascutney, July.

**T. diffissa** Johannsen, 11-305.

MASS.—Brookline, Aug.

**Cordyla Meigen.**

**C. volucris** Johannsen, 09-101.

ME.—Eastport, July 15.

**Brachypeza Winnertz.**

**B. bisignata** var. **divergens** Johannsen, 11-309.

ME.—4, 6, 8. N. H.—12. Vt.—18. June 11-Nov. 2.

MASS.—23. Aug. 7.

**Rhymosia Winnertz.**

**R. filipes** Loew.

N. H.—“White Mts.”

CONN.—.

**R. akeleyi** Johannsen, 11-312.

N. H.—Cornish, July 13.

**R. captiosa** Johannsen, 11-313.

N. H.—11, 12. Vt.—22. June 25-July 15.

MASS.—23. July 18-Aug. 7.

## Allodia Winnertz.

**A. crassicornis** Stannius.

ME.— N. H.—11, 14. VT.—16, 20. June 14—July 25.

MASS.—23. Aug. 9.

**A. bulbosa** Johannsen, 11—316.

N. H.—(Weed).

**A. actuaria** Johannsen, 11—317.

MASS.—Woods Hole.

**A. elata** Johannsen, 11—318.

ME.—8. N. H.—15. VT.—18. Apr. 22—July 25.

MASS.—27, 32. May 1—July 16.

## Phronia Winnertz.

**P. insulsa** Johannsen, 12—60.

R. I.—.

## Macrobrachius Dziedzicki.

**M. producta** (Johannsen), 13—228.

MASS.—Brookline, Aug. 23, 1904.

## Telmaphilus Becker.

**T. nebulosa** Johannsen, 12—64.

N. H.—Hampton, Apr. 8 (*Shaw*).

## Exechia Winnertz.

**E. perspicua** Johannsen, 12—67.

ME.—Orono, Oct.

**E. cincinnata** Johannsen, 12—69.

ME.—Orono, Oct., reared from *Boletus granulatus*. N. H.—Hampton, Oct. 22. VT.—Burlington, June 24.

MASS.—Auburndale, Sept. 12; Boston, Apr. 30; Cohasset, Dec. 29.

**E. nugatoria** Johannsen, 12—70.

R. I.—Kingston (*Barlow*).

**E. nativa** Johannsen, 12—70.

ME.—Orono, Oct. VT.—Montpelier, June 24.

**E. bellula** Johannsen, 12—71.

ME.—Orono, Nov. 3.

**E. captiva** Johannsen, 12—72.

N. H.—(Weed). VT.—Burlington, June 22.

MASS.—Boston.

**E. absoluta** Johannsen, 12—72.

CONN.—New Haven, Oct. 21 (*Viereck*).

**E. capillata** Johannsen, 12—73.

R. I.—Kingston, May (*Barlow*).

**E. attrita** Johannsen, 12-73.

ME.—Orono, Nov. N. H.—Hampton, Nov. 11 (*Shaw*).

R. I.—.

**E. repanda** Johannsen, 12-73.

MASS.—Boston, Sept. 28.

**E. absurdia** Johannsen, 12-74.

ME.—Orono, Nov.

**E. nexa** Johannsen, 12-68.

MASS.—Brookline.

**Dynatosoma Winnertz.**

**D. nigrina** Johannsen, 12-75.

N. H.—Mt. Washington, 2500 to 5000 ft., July 4-28.

MASS.—Chester, July 24; Bashbush Falls, June 28; Sharon, Aug. 3.

**D. fulvida** Coquillett.

ME.—Capens, July 19; Machias, July 26. N. H.—Franconia.  
MASS.—Sharon, Aug. 3.

**D. thoracica** Coquillett.

N. H.—Mt. Washington; Franconia (*Mrs. Slosson*).

**D. placida** Johannsen, 12-76.

N. H.—Bretton Woods, June 25.

**Epicypta Winnertz.**

**E. pulicaria** Loew.

N. H.—Hampton, May 7.

MASS.—Fall River, Nov. 1; Mt. Tom, July 14.

**E. punctum** (Stannius).

MASS.—Auburndale.

**E. trinotata** (Staeger).

MASS.—North Adams, June 20.

**Mycothera Winnertz.**

**M. paula** Loew.

N. H.—Mt. Monadnock, June 26.

MASS.—Chester, Aug. 7.

**M. impellans** Johannsen, 12-83.

ME.—8. N. H.—11. Vt.—18. July 27-Aug. 16.

MASS.—23, 25. June 18-Sept. 3.

**Mycetophila Meigen.**

**M. extincta** Loew.

MASS.—North Adams, June; Auburndale, Aug.

**M. punctata** Meigen.

ME.—8. N. H.—15. Vt.—18, 22. Apr. 9-July 20.

MASS.—23, 27, 28, 32. R. I.—33. March 27-July 28.

**M. mutica** Loew.

ME.—8. N. H.—11. Vt.—16, 21. June 5—July 30.  
MASS.—23, 27. May 28—Sept. 19.

**M. lenis** Johannsen, 12—94.

ME.—Eastport, July.

**M. bipunctata** Loew.

ME.—Orono, Nov. N. H.—White Mts.

**M. inculta** Loew.

R. I.—Kingston (*Barlow*).

**M. scalaris** Loew.

ME.—7, 8. N. H.—11, 12. Vt.—16, 17, 18. June 15—July 6.  
MASS.—27, 28, 29. CONN.—35. July 27—Sept. 10.

**M. pinguis** Loew.

ME.— N. H.—White Mts.

**M. foecunda** Johannsen, 12—99.

ME.—Orono.

**M. imitator** Johannsen, 12—99.

ME.—Orono, Nov., March 31.

**M. perlonga** Johannsen, 12—100.

ME.—8. N. H.—11, 14. June 14—Aug. 17.  
MASS.—23. Aug. 7.

**M. fastosa** Johannsen, 12—91.

ME.—6, 7, 8. N. H.—11, 15. Vt.—16. Apr. 9—July 21.  
MASS.—25, 27. CONN.—35. Mar. 14—Sept. 4.

**M. lenta** Johannsen, 12—102.

ME.—Orono, Oct., bred from mushrooms; Capens, July 19.

**M. anomala** Johannsen, 12—96.

MASS.—Chester, May 28; Williamsburg, Aug. 7.

**M. sigmoides** Loew.

N. H.—White Mts.; Hampton, Apr. 8 (*Shaw*).

**M. exusta** Johannsen, 12—104.

MASS.—.

**M. edentula** Johannsen, 12—105.

N. H.—Hampton, Oct. (*Shaw*).

**M. trichonota** Loew.

ME.—8. N. H.—11. Vt.—16, 21. June 5—July 21.  
MASS.—23, 27. Aug. 3—7.

**M. monochaeta** Loew.

CONN.—.

**M. bifasciata** Walker.

N. H.—Mt. Washington (*Mrs. Slosson*).

**M. biscoidae** Say.

Vt.—Mt. Ascutney, July 11.

MASS.—Auburndale, Aug. 28; Chester, Aug. 7; Woods Hole, July 24. CONN.—Yalesville, Oct. 19.

**M. ichneumon** Say.N. H.—White Mts. (*Morrison*).

MASS.—Chester, May 26; Mt. Greylock, June 15; North Adams, June 18.

**M. obscura** Walker.ME.—Waterville. N. H.—Mt. Washington (*Mrs. Slosson*); Hampton, Mar. 4, Nov. 4 (*Shaw*).MASS.—Cohasset, Dec. 29 (*Bryant*).**M. socia** Johannsen.ME.—Mt. Desert, July 30 (*McAtee*).

Pnyxia Johannsen, 12-114.

**P. scabiei** (Hopkins) (*Epidapus scabiei* Hopkins).R. I.—Kingston, 1903 (*Barlow*). Larva causes a form of scab on potatoes (*Hopkins*).

## Sceptonia Winnertz.

**S. nigra** (Meigen).ME.—Orono, Nov. (*Johannsen*); Mt. Desert, July 30 (*McAtee*).

MASS.—Brookline, June 28.

## Zygomyia Winnertz.

**Z. ornata** Loew.

MASS.—Southbridge, Aug. 27.

**Z. varia** Staeger.

ME.—Capens, July 19.

## SCIARIDAE.

## Eugnoriste Coquillett.

**E. occidentalis** Coquillett.

N. H.—Intervale, Aug. 23.

## Trichosia Winnertz.

**T. sp.**N. H.—Franconia (*Mrs. Slosson*).

## Zygoneura Meigen.

**Z. flavicoxa** Johannsen, 12-116.

ME.—Mt. Desert.

MASS.—Brookline, Aug. 23.

## Sciara Meigen.

**S. ochrolabis** Loew.

N. H.—11, 12, 15. Vt.—16. June 24—Sept. 27.

MASS.—23, 24, 27, 29. R. I.—33. CONN.—35. June 9—Aug. 25.

**S. vicina** Johannsen, 12-124.

ME.—Machias, July 19.

**S. habilis** Johannsen, 12-126.

ME.—4, 8. VT.—16, 21. June 4-July 14.

MASS.—27, 29. May 23-July 4.

**S. sciophila** Loew.

ME.—8. N. H.—15. May 23-Aug. 16.

MASS.—26, 27, 32. R. I.—33. CONN.—35. July 6-Sept. 13.

**S. psittacus** Pettey, 18-330.

ME.—Orono?, Aug. 21 (*C. P. Alexander*).

Neosciara Pettey, 18-320.

**N. coprophila** (Lintner).

ME.—4, 6. N. H.—15. May 4-Aug. 13.

MASS.—27, 29. May 10-Sept. 7.

**N. abbreviata** Walker.

N. H.—White Mts.

**N. actuosa** (Johannsen), 12-134.

CONN.—New Haven, May 10; Yalesville, Oct. 19.

**N. atrata** (Say).

N. H.—Franconia (*Mrs. Slosson*).

**N. ocellaris** (Comstock).

MASS.—Wellesley, Feb., from flower pots (*Morse*).

**N. dux** Johannsen, 12-127.

R. I.—Buttonwoods, June 21.

**N. ericia** Pettey, 18-337.

MASS.—Brookline.

**N. exigua** (Say).

N. H.—Franconia.

**N. falcata** Pettey, 18-331.

MASS.—Auburndale, Apr.

**N. fuliginosa** Fitch.

N. H.—Franconia.

**N. fumida** (Johannsen), 12-135.

ME.—Mt. Desert, July 22.

MASS.—Mt. Tom, July 14.

**N. hastata** (Johannsen), 12-130.

ME.—Mt. Desert, July 22.

MASS.—Woods Hole, July 24.

**N. inconstans** (Fitch).

ME.—Orono; South Deer Isle. N. H.—White Mts.

- N. johannseni** (Enderline) (*Sciara nigricans* Johannsen, 12–134).  
R. I.—Kingston (*Barlow*).  
**N. jucunda** (Johannsen), 12–319.  
N. H.—12, 20. July 5–13.  
MASS.—27, 32. R. I.—33. CONN.—35. May 5–Aug. 11.  
**N. lugens** (Johannsen), 12–132.  
ME.—Orono.  
MASS.—Auburndale, May 26.  
**N. mellea** (Johannsen), 12–129.  
N. H.—Mt. Washington, 2000 ft., July 24.  
MASS.—Brookline, June 20; Auburndale, Aug. 16. CONN.—Darien, May 27; Danbury, June 20.  
**N. nacta** (Johannsen), 12–132.  
MASS.—Auburndale, July 11; Brookline, Aug. 25.  
**N. multiseta** (Felt).  
VT.—Manchester, June 6.  
**N. parilis** (Johannsen), 12–132.  
N. H.—Intervale, Aug. 18.  
**N. pauciseta** (Felt).  
N. H.—15. May 5.  
MASS.—27, 29, 32. CONN.—35. Apr. 26–Oct. 19.  
**N. prolificata** (Felt).  
ME.—9. N. H.—12, 15. Apr. 16–July 7.  
MASS.—25, 29. R. I.—33. CONN.—35. Feb.–June 30.  
**N. quadrispinosa** Pettey, 18–332.  
MASS.—North Adams, March 20.  
**N. sylvestris** Kieffer.  
ME.—Echo Lake, Mt. Desert, July 22, 1918.  
**N. varians** Johannsen, 12–135.  
ME.—Northeast Harbor, Aug. 11 (*Dr. C. S. Minot*).  
**N. vulgaris** (Fitch).  
N. H.—White Mts.

#### BIBIONIDAE.

**Plecia** Wiedemann.

- P. heteroptera** Say.  
ME.—5, 6, 8, 9. N. H.—11, 14, 15. VT.—17, 21. Aug. 29–Oct. 14.  
MASS.—26, 27. Sept. 29–Oct. 18.

#### **Bibio** Geoffroy.

- B. abbreviatus** Loew.  
ME.—9. N. H.—11, 15. May 10–June 12.  
MASS.—26, 27, 28. R. I.—33. CONN.—May 9–Oct. 27.

**B. albipennis** Say.

ME.—6, 9. N. H.—11, 15. VT.—21. May 31—June 11.  
MASS.—25, 27, 28, 32. R. I.—33. CONN.—35. May 17—June 3.

**B. basilis** Loew.

ME.—Mt. Desert, June 11—24. N. H.—Glen House, June 13—16.

**B. femoratus** Wiedemann.

ME.—9. N. H.—11, 15. May 11—June 13.  
MASS.—23, 24, 27. R. I.—33. CONN.—35. Apr. 28—June 15.

**B. fraternus** Loew.

ME.—6 (Orono).

MASS.—24, 26, 27. R. I.—33. CONN.—35. May 13—June 27.

**B. fumipennis** Walker.

N. H.—Mt. Washington (*Mrs. Slosson*). VT.—Bolton Mt.,  
Aug. 30 (*Bryant*); Killington Peak, Aug. 23, 1898 (*Morse*).

**B. longipes** Loew.

ME.—6, 8. N. H.—11, 15. VT.—19. Aug. 28—Oct. 14.  
MASS.—24, 26, 27, 32. R. I.—33. CONN.—35. Sept. 20—  
Oct. 27.

**B. slossonae** Cockerell, 09—174 (*B. gracilis* Walker, 1848, not  
Unger, 1841).

ME.—N. H.—Passaconaway, Sept. 12, 1912 (*Cushman*).

MASS.—Mt. Greylock, 3000 ft., Oct. 9, 1920 (*G. C. Wheeler*);  
Cheshire, Oct. 2 (*Beecroft*).

**B. variabilis** Loew.

ME.—5, 6, 8, 9. N. H.—11. VT.—21. June 5—July 7.

MASS.—23 (summit Mt. Greylock, June 15, 1906).

**B. xanthopus** Wiedemann.

ME.—6, 9. N. H.—11, 14, 15. VT.—19. May 17—June 19.

MASS.—25, 27. May 12—June 1.

**B. vestitus** Walker.

N. H.—Mt. Washington (*Mrs. Slosson*).

## Dilophus Meigen.

**D. breviceps** Loew.

N. H.—Glen House, June 18; Mt. Washington (*Dimmock*).

VT.—Manchester, June 6; Bennington, June 22.

MASS.—Mt. Greylock, 3000 ft., June 15; North Adams, June 20.

**D. sectus** McAtee, 21—22.

ME.—Ft. Kent, Aug. 17; Monmouth, June 16 (*Frost*). N. H.—  
Franconia (*Mrs. Slosson*); Bretton Woods, June 27.

**D. spinipes** Say (*D. dimidiatus* Loew).

CONN.—West Haven, Oct. 2 (*Britton*).

**D. stigmaterus** Say.

ME.—Orono, Sept. 15, 1913 (*Parshley*). N. H.—Base Mt. Washington, Sept. 19; Hampton, Oct. 1 (*Shaw*). MASS.—(*Harris Coll.*).

## SCATOPSIDAE.

*Scatopse* Geoffroy.

**S. notata** (Linné).

ME.—N. H.—15. Sept. 16.  
MASS.—26, 27, 28, 32. R. I.—33. April 4—Nov. 30.

*Swammerdamella* Enderlein, 12—227.

**S. brevicomis** (Meigen).

ME.—Southwest Harbor, July 11; Bar Harbor, Aug. 18. N. H.—White Mts.

*Reichertella* Enderlein, 12—268.

**R. femoralis** (Meigen) (*Scatopse pulicaria* Loew; Melander, 16—9).

ME.—7, 8. N. H.—11. July 14—Aug. 25.  
MASS.—27, 29. R. I.—33. CONN.—35. June 27—Oct. 18.

*Rhegmoclema* Enderlein, 12—276.

**R. atrata** (Say).

ME.—Mt. Desert, July 31 (*McAtee*).  
CONN.—.

*Aldrovandiella* Enderlein, 12—278.

**A. halterata** (Meigen).

ME.—Mt. Desert, July 30 (*McAtee*).

*Ectaetia* Enderlein, 12—279.

**E. clavipes** Loew.

CONN.—South Meriden, Apr. 13, 1915 (*H. L. Johnson*).

## SIMULIIDAE.

*Prosimulium* Roubaud.

Subgenus *Prosimulium* Roubaud.

**P. hirtipes** Fries.

ME.—3, 5, 8, 9. N. H.—11, 14. VT.—19. May 13—Sept. 20.  
MASS.—24, 25, 27, 28, 32. R. I.—33. CONN.—35. Apr. 14—Aug. 27.

**P. mutatum** Malloch, 14—20.

MASS.—Fall River, May 13, 1908 (*Easton*).

Subgenus *Cnephia* Enderlein, 21—43.

**P. pecuarum** Riley

CONN.—Westville, Apr. 25, 1907 (*Britton*).

**Simulium** Latreille.Subgenus *Simulium* Latreille.

**S. venustum** Say. "The Black Fly."  
 ME.—3, 4, 5, 7, 8, 10. N. H.—11, 13, 14. VT.—19. June 7–Aug. 15.

MASS.—25, 26, 27, 28. R. I.—33. June 5–Sept. 28.

**S. piscicidium** Riley.

ME.—1, 3, 4, 5, 8. N. H.—11, 14. June 7–Aug. 21.

MASS.—27. May 26.

**S. bracteatum** Coquillett.

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Mt. Tom, Sept. 22; Framingham, Aug. 26, 1915 (*Frost*).

**S. parnassum** Malloch, 14–36.

N. H.—Red Hill, Moultonburgh, Aug. 5 (*Dyar*); White Mts. (*Morrison*); Chatham, Aug. 21 (*G. M. Allen*); Alstead, Aug. 9 (*Morse*). VT.—Chittenden, Aug. 1–15 (*Bequaert*); Killington Peak, Aug. 28, 1919; Bolton Mt., July 16 (*Bryant*).

**S. meridionale** Riley.

MASS.—Worcester (*Thompson*); Wayland and Wellesley, Apr. 19, 1921 (*Morse*). R. I.—Kingston, Apr. 25 (*Barlow*).

Subgenus *Wilhelmia* Enderlein, 21–44.

**S. vittata** Zetterstedt.

ME.—7. July 12.

MASS.—25, 27. R. I.—33. May 20–July 2.

**BLEPHAROCERIDAE.**

*Blepharocera* Macquart.

**B. tenuipes** (Walker).

ME.—6, 8. N. H.—11, 12. VT.—21, 22. June 13–July 10.

MASS.—23. June 18–28.

**BRACHYCERA.****XYLOPHAGIDAE.**

*Rhachicerus* (Haliday) Walker.

**R. fulvicollis** Haliday.

MASS.—Beverly (*E. Burgess*).

**R. nitidus** Johnson.

ME.—Bar Harbor, July 29, 1919.

*Xylophagus* Meigen.

**X. abdominalis** Loew.

ME.—Machias, July 27, 1909. N. H.—Durham, May 2.

MASS.—Auburndale, May 27–June 15; Wellesley (*Morse*); South Sudbury, Apr. 22.

**X. nitidus** Adams, 04-435.

N. H.—Mt. Washington (*Mrs. Slosson*).

**X. longicornis** Loew.

MASS.—“*Massachusetts*” (*Loew*).

**X. lugens** Loew.

N. H.—11. June 12-July 7.

MASS.—24, 26, 27. CONN.—35. Apr. 1-May 18.

**X. rufipes** Loew.

ME.—1, 8. N. H.—11, 14. VT.—21. June 5-July 8.

MASS.—23, 24, 26. May 26-June 15.

**Solva** Walker, 1860 (*Xylomyia Rondani*, 1861).

**S. aterrima** Johnson.

N. H.—Franconia.

**S. pallipes** Loew.

N. H.—11, 14. July 22.

MASS.—23, 27, 28. R. I.—33. CONN.—35. Mar. 20-July 27.

**S. tenthredinoides** Van der Wulp.

N. H.—Bretton Woods, June 29, 1913.

MASS.—Beverly, July 10. CONN.—Pleasant Valley (*Bequaert*).

**Arthroceras** Williston.

**A. leptis** Osten Sacken.

N. H.—Mt. Washington, July 7 (*Sherriff*), July 25 (*Dimmock*); Base Station, July 30 (*F. W. Dodge*).

**Glutops** Burgess.

**G. singularis** Burgess.

N. H.—Base of Mt. Monadnock about 1800 ft., June 10, 1920.

MASS.—*Springfield* (*Dimmock*); Norwood, Apr. 18, 1909, and Apr. 21, 1912 (*W. Reiff*), May 3, 1918 (*C. W. J.*); Whateley, May 6, 1923 (*C. P. Alexander*). CONN.—South Meriden, Apr. 17, 1915 (*H. L. Johnson*).

#### COENOMYIIDAE.

**Coenomyia** Latreille.

**C. ferruginea** Scopoli (*C. cinereibarbis* Bigot).

ME.—6, 9. N. H.—13, 15. VT.—21. June 9-19.

MASS.—24, 25, 27. CONN.—35. June 13-July 20.

**Arthropeas** Loew.

**A. americana** Loew.

MASS.—Cheshire, June 30 (*I. W. Beecroft*). CONN.—New Haven?

## STRATIOMYIIDAE.

*Beris* Latreille.**B. annulifera** (Bigot).

ME.—Oquossoc, July 2, 1923. N. H.—Bretton Woods, June 24–26, 1913.

*Allognosta* Osten Sacken.**A. brevicornis** Johnson, 23–71.ME.—8, 9. N. H.—11, 12, 13, 14. VT.—17. June 18–July 15.  
MASS.—23. June 15.**A. fuscitarsis** (Say).ME.—8, 9. N. H.—11, 12, 13, 15. VT.—16. June 17–July 12.  
MASS.—23, 27. R. I.—33. CONN.—35. May 28–July 27.**A. obscuriventris** (Loew).ME.—4, 8, 9. N. H.—11, 14, 15. VT.—12, 21. June 5–July 19.  
MASS.—23, 26, 27. CONN.—35. May 26–June 15.*Actina* Meigen (*Allactina* Curran, 24–24).**A. viridis** (Say).ME.—6, 8, 9. N. H.—11, 15. VT.—17, 18, 21. Apr. 14–July 16.  
MASS.—23, 25, 26, 27, 28. May 26–June 14.*Scoliopepta* Williston.**S. luteipes** Williston.N. H.—11, 15. VT.—19. Aug. 1–13.  
MASS.—23, 24. Aug. 5–8.*Ptecticus* Loew.**P. sackeni** Williston.N. H.—15. July 27.  
MASS.—25, 27, 28, 32. CONN.—35. July 28–Aug. 27.**P. trivittatus** (Say).CONN.—New Haven; South Meriden, Sept. 22; Branford, July 15  
(Winkley); Rowayton, Aug. 4.*Chrysochroma* Williston.**C. nigricornis** (Loew).

MASS.—Chester, July 25, 1913.

*Macrosargus* Bigot.

(Sargus Fabricius, not Walberg; Geosargus Bezzi.)

**M. cuprarius** (Linné).ME.—6, 7. N. H.—11, 14, 15. July 2–Aug. 16.  
MASS.—25, 26, 27, 29, 32. R. I.—33. CONN.—35. June 5–  
Aug. 13.

**M. decorus** (Say).

ME.—2, 6, 7, 8, 9. N. H.—11, 14. VT.—17, 19. June 2—  
Aug. 16.

MASS.—23, 24, 27. R. I.—33. CONN.—34, 35. June 4—Sept. 4.

**M. elegans** (Loew).

ME.—9. N. H.—13, 15. July 15—Aug. 4.

MASS.—23, 24, 27. R. I.—33. CONN.—34, 35. May 22—Aug.  
27.

**M. viridis** (Say).

ME.—6, 7, 9. N. H.—11, 15. June 2—July 14.

MASS.—23, 24, 27, 32. CONN.—35. May 13—June 14.

**Microchrysa** Loew.**M. polita** (Linné).

ME.—6, 7, 8, 9. N. H.—11, 13, 15. VT.—18. June 4—Aug. 15.

MASS.—23, 27, 29. R. I.—33. CONN.—35. May 27—Sept. 20.

**Stratiomyia** Geoffroy.**S. badia** Walker.

ME.—3, 5, 6, 7, 8, 9. N. H.—11, 12, 13, 14, 15. VT.—17, 19.  
June 15—Sept. 9.

MASS.—23, 24, 25, 26, 27, 32. CONN.—34. July 11—Aug. 15.

**S. discalis** Loew.

ME.—9. N. H.—11, 14, 15. June 15—20.

MASS.—23, 24, 26, 27. R. I.—33. CONN.—35. May 24—June  
27.

**S. lativentris** Loew.

N. H.—Jaffrey, June 28, 1917.

MASS.—Cheshire.

**S. meigenii** Wiedemann.

N. H.—15. VT.—21. June 18—July 28.

MASS.—24, 27, 29. R. I.—33. CONN.—35. May 26—July 18.

**S. normula** Loew.

ME.—Waterville, June 14 and July 27 (*Hitchings*). VT.—Bur-  
lington, June 22.

CONN.—.

**S. norma** Wiedemann.

ME.—. VT.—Winooski, Aug. 1901 (*C. A. Davis*).

MASS.—North Adams, Aug. 8, 1907 (*Bryant*).

**S. quaternaria** Loew.

ME.—. VT.—21. June 5—22.

MASS.—23, 25, 27. CONN.—34. May 22—Aug. 18.

*Odontomyia* Meigen.*O. cincta* Olivier.

ME.—6, 8, 9. N. H.—11, 15. VT.—16, 21. June 14–24.  
 MASS.—27, 28, 29. R. I.—33. CONN.—34, 35. June 1–July 13.

*O. flavicornis* Olivier.

ME.— N. H.—15. Aug. 2.  
 MASS.—24, 25, 27. CONN.—34, 35. May 7.

*O. hieroglyphica* Olivier.

ME.—Capens, Moosehead Lake, July 11, 1907.  
 MASS.—Milton, July 10, 1828, and Sutton (*Harris Coll.*).

*O. hydroleonoides* Johnson.

ME.—Monmouth, July 12 (*Frost*).  
 MASS.—Melrose Highlands, July 8 (*R. T. Webber*). CONN.—  
     South Meriden, June 27 (*H. L. Johnson*); Colebrook, July 14–22  
     (*Wheeler*).

*O. vertebrata* Say.

ME.— Vt.—Bennington, June 21, 1915.  
 MASS.—Newtonville (*S. Henshaw*); Salem, July 17 (*F. H. Walker*).

*O. virgo* (Wiedemann).

ME.—8, 9. N. H.—11, 12, 14, 15. VT.—16, 21. June 18–  
     July 11.

MASS.—23, 24, 27, 28, 29. CONN.—34, 35. June 26–July 29.

*O. microstoma* Loew.

ME.— N. H.—15. July 15–Aug. 6.  
 MASS.—26, 27, 28, 29, 31. R. I.—33. CONN.—35. June 28–  
     July 31.

*O. interrupta* Olivier.

ME.—9. N. H.—11, 15. May 30–July 16.  
 MASS.—23, 26, 27, 28, 32. CONN.—35. May 17–June 20.

*O. pubescens* Day.

ME.—6, 8, 9, 10. N. H.—11, 15. June 5–June 13.  
 MASS.—26, 27, 28, 29. CONN.—35. May 24–June 19.

*O. nigerrima* Loew.

N. H.—Franconia (*Mrs. Slosson*).

*Euparyphus* Gerstaecker.*E. bellus* Loew.

MASS.—“*Massachusetts*.”

*E. tetraspilus* Loew.

VT.—Winooski, Aug. (*Davis*); Bennington, June 22.  
 MASS.—Cambridge, May, 1833 (*Harris Coll.*); Southboro, June  
     27, 1914 (*Frost*).

*E. greylockensis* Johnson, 12–5.

MASS.—Mt. Greylock, Aug. 8, 1907 (*Bryant*).

**Nemotelus** Geoffroy.**N. carbonarius** Loew.

ME.—.

MASS.—*Lenox* (*Osten Sacken*).**N. crassus** Loew.

VT.—Manchester, June 10.

R. I.—“*Rhode Island*.”**N. melanderi** Banks, 20–65.MASS.—26 (*Nahant*), 28, 29, 30, 31, 32. R. I.—33. CONN.—35.  
June 17–July 7.**N. unicolor** Loew.

VT.—Burlington, June 22; St. Johnsbury, June 27, 1906.

MASS.—Beverly, June 6 (*E. Burgess*). CONN.—New Haven,  
May 26.**Oxycera** Meigen.**O. maculata** Olivier.

ME.—.

MASS.—Cambridge, June 25, 1838 (*Harris Coll.*); Lexington,  
July 28; Sherborn, June 8 (*Frost*); Amherst, June 2. R. I.—  
Wickford, June 9. CONN.—.**Berkshiria** Johnson, 14–158.(*Johnsonomyia* Malloch, 15–313, not Felt, 1908.)**B. albistylum** Johnson, 14–158.MASS.—*Chester*, May 28, 1912.**Pachygaster** Meigen.**P. pulcher** Loew.ME.—Monmouth, June 27 (*Frost*). N. H.—White Mts. (*Morrison*); Mt. Washington (*Mrs. Slosson*).MASS.—Beverly (*E. Burgess*).**Neopachygaster** Austen, 01–245.**N. maculicornis** Hine.

VT.—Bennington, June 19, 1915.

MASS.—Cohasset, June 5 (*Bryant*).**Zabradia** Coquillett.**Z. polita** Coquillett.MASS.—Auburndale. Larvae in a wet decaying pine log, March  
26, 1905; imagos emerged May 12–22 (*Johnson*, 06–3).

## TABANIDAE.

**Buplex** Austen (*Pangonia* of authors, not Latreille).**B. rasa** (Loew).

ME.—3, 9. N. H.—15. Aug. 2–Sept. 1.

MASS.—23, 25, 26, 27. CONN.—34, 35. July 12–Sept. 8.

**B. tranquilla** (Osten Sacken).

ME.—3, 8, 10. N. H.—11, 14, 15. VT.—19. July 25—Aug. 22.  
MASS.—23, 25, 26, 27. CONN.—34. July 26—Aug. 8.

## Chrysops Meigen. Deer or Moose Flies.

**C. celer** Osten Sacken.

ME.—6, 7, 9. N. H.—13, 15. VT.—17. June 22—July 14.  
MASS.—23, 25, 27, 28, 32. R. I.—33. CONN.—34, 35. June  
11—July 4.

**C. carbonaria** Walker (*C. fugax* Osten Sacken).

ME.—1, 3, 4, 5, 6, 7, 8, 9. N. H.—11, 13, 14, 15. VT.—16, 17,  
21. June 10—July 15.  
MASS.—23, 24, 25, 27, 28, 29. R. I.—33. CONN.—35. May  
26—June 19.

**C. amazon** Daecke, 07—250.

MASS.—North Saugus, July 17, 1906.

**C. mitis** Osten Sacken.

ME.—5, 7, 8. N. H.—11, 14. VT.—21. June 9—July 12.  
MASS.—27. May 28.

**C. cuclux** Whitney.

ME.—7, 9. N. H.—14. VT.—16, 21. June 9—28.  
MASS.—23, 26, 27. CONN.—35. June 11—16.

**C. niger** Macquart.

ME.—1, 3, 6, 8, 9, 10. N. H.—11, 14, 15. VT.—16, 17, 18, 21.  
June 14—July 14.  
MASS.—23, 24, 27. R. I.—33. CONN.—35. May 30—Aug. 2.

**C. nigrobimbo** Whitney.

N. H.—Milford, July 10 (Whitney).  
MASS.—Springfield, July 13; Hyannisport, July 4; Fall River,  
July 19; Wellesley, May 24 (Morse).

**C. sordida** Osten Sacken.

ME.—Mt. Katahdin, Basin Pond, 2400 ft., July 13, 1923 (Irving  
H. Blake). N. H.—Mt. Washington, 2000 to 4000 ft., July 4—  
16; Bretton Woods, June 28; Franconia (Mrs. Slosson).

**C. excitans** Walker.

ME.—3, 4, 5, 6, 7, 8, 9, 10. N. H.—11, 14, 15. June 22—Aug. 1.  
MASS.—23, 25, 26, 27, 29. R. I.—33. CONN.—34. June 3—July 2.

**C. fuliginosa** Wiedemann (*C. plangens* Wiedemann).

ME.—7, 8, 10. N. H.—15. June 17—July 24.  
MASS.—26, 27, 28, 29, 31, 32. R. I.—33. CONN.—35. May  
30—July 4.

This species is confined to the immediate seacoast.

**C. moecha** Osten Sacken.

ME.—Waterville, July 20, 1908 (*Hitchings*). N. H.—Hampton,  
Aug. 1, 1917 (*Shaw*).

MASS.—Sharon, July 7 (*Cushman*). CONN.—.

**C. lugens** var. **morosa** Osten Sacken.

MASS.—. CONN.—South Meriden, June 19, 1912 (*H. L. Johnson*); East Wallingford, July 6; Litchfield, July 30 (*Woodruff*).

**C. obsoleta** Wiedemann.

ME.—6, 10. N. H.—11, 12, 15. VT.—20. July 6—Aug. 6.  
MASS.—23, 24, 27, 28, 32. R. I.—33. CONN.—34, 35. July 6—  
Aug. 23.

**C. univittata** Macquart.

ME.—9. N. H.—14, 15. July 5—Sept. 11.

MASS.—24, 25, 27, 28, 32. R. I.—33. CONN.—34, 35. June  
11—Aug. 9.

**C. inda** Osten Sacken.

N. H.—11. VT.—16, 18, 21. June 20—27.

MASS.—23. CONN.—34. June 8—16.

**C. sackeni** Hine.

VT.—16. July 9.

MASS.—26, 27, 29, 32. R. I.—33. CONN.—35. June 11—  
July 17.

**C. dimmocki** Hine, 05—393.

MASS.—24 (*Long Meadows*), 29, 32. R. I.—33. CONN.—35.  
June 15—July 12.

**C. callida** Osten Sacken.

ME.—9, 10. N. H.—15. July 3—15.

MASS.—23, 26, 27, 29, 32. R. I.—33. CONN.—35. June 11—  
July 31.

**C. delicatula** Osten Sacken

N. H.—13. Aug. 15.

MASS.—29. CONN.—35. June 24—July 4.

**C. pudica** Osten Sacken.

MASS.—26, 27, 29, 32. R. I.—33. CONN.—35. June 12—Aug.  
4.

**C. cursim** Whitney.

N. H.—Milford, July (*Whitney*).

MASS.—West Peabody, July 13, 1911 (*Morse*). CONN.—.

**C. flavidula** Wiedemann.

N. H.—15. July 29.

MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35.  
June 28—Sept. 4.

**C. frigida** Osten Sacken.

ME.—7, 8, 9. N. H.—11. June 25—July 12.  
 MASS.—24, 27, 29, 32. R. I.—33. CONN.—35. June 8—Aug. 4.

**C. fallax** Osten Sacken.

N. H.—12, 13. Vt.—20. July 7.  
 MASS.—23, 24, 25, 27. CONN.—34, 35. June 16—July 31.

**C. montana** Osten Sacken.

N. H.—13. Vt.—16. June 24—26.  
 MASS.—24, 25, 27, 32. CONN.—34, 35. June 23—Aug. 20.

**C. hilaris** Osten Sacken.

ME.—6, 8, 9, 10. N. H.—11, 13, 14, 15. Vt.—16, 18, 19.  
 June 24—Aug. 1.

MASS.—23, 25, 26. CONN.—34, 35. June 28—July 25.

**C. striata** Osten Sacken.

ME.—8, 9, 10. N. H.—13. Vt.—16. July 9—Aug. 27.  
 MASS.—24, 26, 27, 28, 29, 32. R. I.—33. CONN.—34, 35.  
 July 7—Sept. 9.

**C. hinei** Daecke.

MASS.—West Peabody, July 8; Wellesley, July 30, and Dover,  
 Aug. 11 (*Morse*); New Bedford, Aug. 30 (*Hough*).

**C. vittata** Wiedemann.

ME.—6, 7, 8, 10. N. H.—11, 12, 15. Vt.—16. June 20—Aug.  
 17.  
 MASS.—23, 24, 25, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—  
 34, 35. June 26—Aug. 2.

**Tabanus Linné. Horse Flies.****T. recedens** Walker.

MASS.—Springfield, July 12, 1899 (*Dimmock*). CONN.—New  
 Haven, June 24; Farmington, July 1; South Meriden, July 16;  
 Lyme, July 16.

**T. abdominalis** Fabricius.

MASS.—Sherborn (*E. J. Smith*). CONN.—New Canaan, Sept. 5;  
 Lyme, Aug. 8.

**T. trimaculatus** Palisot de Beauvois.

MASS.—? CONN.—.

**T. melanocerus** Wiedemann.

CONN.—Lyme, Aug. 8, 1915.

**T. coffeatus** Macquart.

MASS.—24, 27, 29, 31, 32. July 13—Sept. 6.

**T. orion** Osten Sacken.

ME.—9, 10. N. H.—13, 14. July 30—Aug. 9.

MASS.—23, 24, 25, 26, 27. CONN.—34, 35. July 30—Aug. 19.

**T. actaeon** Osten Sacken.

ME.—4, 10. N. H.—14, 15. Aug. 20—Sept.

MASS.—24, 25, 26, 27, 28, 32. R. I.—33. CONN.—35. Aug. 30—Sept. 22.

**T. nivosus** Osten Sacken.

N. H.—Vt.—22. June 16.

MASS.—27, 32. CONN.—35. May 31—June 29.

**T. vivax** Osten Sacken.ME.—Ocean Point, June 28 (*G. C. Wheeler*). N. H.—Jaffrey; Wiltboro, July 1. Vt.—Woodstock, July 31, 1910 (*Morse*).MASS.—Melrose Highlands, Aug. 5, 1913 (*Preston*).**T. longus** Osten Sacken.

N. H.—Pelham, Aug. 6.

MASS.—Sherborn, July 31, 1904, Aug. 12, 1915 (*E. J. Smith*).**T. pumilus** Macquart.

ME.—10. N. H.—14, 15. June 23—July 5.

MASS.—24, 26, 27, 29. R. I.—33. CONN.—35. June 14—July 20.

**T. sparus** Whitney.N. H.—Milford, June 17—July 4 (*Whitney*).

MASS.—26, 27. CONN.—35. June 11—Aug. 2.

**T. lineola** Fabricius.

ME.—9, 10. N. H.—14, 15. Vt.—16. June 17—Aug. 17.

MASS.—23, 24, 25, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. June 24—Sept. 4.

**T. nigrovittatus** Macquart.

ME.—8, 10. N. H.—15. July 27—Aug. 8.

MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. July 5—Aug. 22.

A maritime species popularly known as the "Greenhead."

**T. nigrovittatus** var. **conterminus** (Walker); Hine, 06—23.

MASS.—27, 28, 29, 30, 31. June 27—July 20.

**T. costalis** Wiedemann.

N. H.—15. Vt.—16. July 15—Aug. 2.

MASS.—23, 27, 32. CONN.—34, 35. June 16—July 30.

**T. sagax** Osten Sacken.MASS.—Mt. Tom, July 14, 1909; Southbridge, Aug. 5 (*Bromley*).CONN.—South Meriden, Aug. 27 (*H. L. Johnson*).**T. nigrescens** Palisot de Beauvois.

MASS.—Springfield. CONN.—Milford, July 22.

**T. atratus** Fabricius.

ME.—6, 9. N. H.—15. July 10—18.

MASS.—25, 26, 27, 29. CONN.—35. June 27—Aug. 14.

- T. atratus** var. **nantuckensis** (Hine) 17-271; Johnson, 19-163.  
N. H.—15. Sept. 8.  
MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—Block Isl. (*Morse*).  
July 4-Aug. 28.
- T. stygius** Say.  
ME.—9.  
MASS.—25, 27. CONN.—35. July 10-Aug. 27.
- T. americanus** Forster.  
N. H.—Dublin (*Harris Coll.*).  
MASS.—Cohasset, Aug. 22 (*Bryant*); Fall River, July 22 (*Cushman*); Lakeville (*Jenkins*); Ware (*Zeissig*).
- T. giganteus** De Geer.  
MASS.—(*Harris Coll.*). CONN.—Suffield (*Dimmock*).
- T. bicolor** Wiedemann.  
ME.—9. N. H.—11, 15. VT.—16. July 15-Aug. 15.  
MASS.—26, 29, 30, 31, 32. R. I.—33. CONN.—35. July 5-Aug. 28.
- T. ohioensis** Hine.  
ME.—Southwest Harbor, July 15; Waterville, 1901 (*Hitchings*).  
N. H.—Durham, June 28 (*Lowry*).  
MASS.—Wellesley, June 27 (*Morse*). CONN.—35.
- T. pemeticus** Johnson, 21-11.  
ME.—Mt. Desert, July 22-Aug. 20.
- T. reinwardtii** Wiedemann.  
ME.—Monmouth, July 18 (*Frost*). VT.—Bridgeport; Rutland, Aug. 1.  
MASS.—Milton, 1830 (*Harris Coll.*); Monterey, July 5 (*Frost*).  
CONN.—Cornwall, Aug. 7 (*Chamberlain*).
- T. zonalis** Kirby.  
ME.—6, 8, 9. N. H.—14, 15. June 29-July 1.  
MASS.—24, 27. May 30-June 5.
- T. cinctus** Fabricius.  
ME.—6, 9. N. H.—11, 13, 14. June 30-July 28.  
MASS.—24, 25, 27, 32. CONN.—34, 35. July 2-Aug. 8.
- T. trispilus** var. **sodalis** Williston.  
ME.—5, 8, 9. N. H.—11, 13, 14, 15. VT.—19. July 16-Aug. 18.  
MASS.—23, 24, 25, 26, 27, 32. R. I.—33. CONN.—34, 35. July 12-Aug. 15.
- T. superjumentarius** Whitney.  
N. H.—Milford, 13, 15. VT.—22. June 22-July 30.  
MASS.—25, 27, 32. CONN.—34, 35. July 7-Aug. 8.

**T. illotus** Osten Sacken.

ME.—Capens, July 14, 1907; Princeton, July 12; Aziscoos Lake, July 8, 1916 (*Frost*). N. H.—Franconia (*Mrs. Slosson*); Glen House, June 13.

**T. lasiophthalmus** Macquart.

ME.—4, 5, 6, 8, 9, 10. N. H.—11, 13, 14, 15. VT.—18, 21. June 4—July 22.

MASS.—23, 24, 27, 28, 29, 32. R. I.—33. CONN.—35. May 26—June 15.

**T. affinis** Kirby.

ME.—4, 5, 6, 7, 8. N. H.—11, 14, 15. June 29—Aug. 3.

MASS.—25, 26. July.

**T. epistates** Osten Sacken.

ME.—2, 4, 6, 7, 8, 9, 10. N. H.—13, 14, 15. VT.—16, 18, 20, 21. May 27—Aug. 16.

MASS.—23, 24, 25, 26, 27, 28. CONN.—34. May 30—Aug. 9.

**T. septentrionalis** Loew.

ME.—Machias, July 27; Roque Bluff, Aug. 10 (*Cushman*); Mt. Desert, July 15—Aug. 23.

MASS.—(*Osten Sacken*).

**T. microcephalus** Osten Sacken.

ME.—2, 6, 8. N. H.—11. Aug. 10—16.

MASS.—23, 24, 32. CONN.—34. Aug. 6—18.

**T. astutus** Osten Sacken.

ME.—3, 5, 6, 9. N. H.—11, 13, 14, 15. June 22—Aug. 16.

MASS.—23, 24, 27, 29. R. I.—33. CONN.—35. June 26—July 15.

**T. typhus** Whitney, 04—206.

N. H.—Milford, July (*Whitney*).

**T. minusculus** Hine, 07—226.

ME.—Orono, July, 1899 (*Harvey*).

MASS.—Springfield, July 13 (*Dimmock*); Wellesley, Aug. (*Morse*).

**T. carolinensis** Macquart.

R. I.—Washington, June 19, 1912.

**T. triligatus** Walker.

MASS.—Springfield, July 13, 1909.

**T. hinei** Johnson, 04—15.

MASS.—26, 27, 28, 29, 32. CONN.—35. June 11—July 25.

**Merycomyia** Hine, 12—515.

**M. whitneyi** (Johnson) (*Tabanus whitneyi* Johnson, 04—15; *M. geminata* Hine, 12—515).

MASS.—Wellesley (*A. P. Morse*). R. I.—Providence, Aug. 27 (*Davis*). CONN.—Lyme (*B. W. Walden*).

RHAGIONIDAE (*Leptidae*).

## Dialysis Walker.

**D. elongata** Say.

ME.—10. N. H.—13. July 17—Aug. 3.

MASS.—24, 27, 29. R. I.—33. CONN.—35. July 18—Aug. 18.

The record of *D. rufithorax* Say, by Hood (*Psyche*, vol. 6, 283) is probably based on the female of *D. elongata*.Rhagio Fabricius (*Leptis* Fabricius).**R. gracilis** Johnson, 12—3.

ME.—6, 8. N. H.—11. VT.—20. July 10—30.

MASS.—23. July 24—Aug. 8.

**R. mystacea** Macquart.ME.—4, 6, 7, 8, 9, 10. N. H.—11, 13, 14, 15. VT.—18, 21.  
May 30—July 16.MASS.—23, 24, 27, 29, 30, 32. R. I.—33. CONN.—35. May  
10—June 20.**R. punctipennis** Say.ME.—9, 10. N. H.—11, 14, 15. VT.—17, 19. June 3—July 9.  
MASS.—23, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—35.  
May 23—Aug. 8.**R. plumbea** Say.

VT.—Mt. Equinox, June 5.

MASS.—Mt. Greylock, June 15; Cheshire.

**R. vertebrata** Say.ME.—4, 9. N. H.—11, 12, 14. VT.—16, 17, 19, 20, 21. June  
23—July 20.

MASS.—23. CONN.—34, 35. June 16—Aug. 8.

## Chrysopilus Macquart.

**C. basilaris** Say.

N. H.—15. VT.—22. July 14—17.

MASS.—27, 28, 29, 32. CONN.—35. July 5—30.

**C. fasciatus** Say.

N. H.—11, 14. VT.—22. July 14.

MASS.—23, 24, 27, 32. R. I.—33. CONN.—35. June 25—July  
27.**C. ornatus** Say.

N. H.—11.

MASS.—23, 24, 25. CONN.—34, 35. May 1—July 25.

**C. thoracicus** Fabricius.ME.—?(*Hood*). N. H.—Mt. Lincoln? (*Hood*). Both records  
are very doubtful.

MASS.—23, 24. CONN.—34, 35. June 11—July 24.

- C. proximus** Walker.  
 ME.—4, 5, 6, 7, 9. N. H.—11, 15. VT.—16, 18. June 22—July 22.  
 MASS.—23, 27, 28, 29. R. I.—33. CONN.—35. June 8—26.
- C. simillimus** Walker (*C. propinquus* Walker).  
 N. H.—Franconia; Hampton.  
 R. I.—Buttonwoods, June 22.
- C. quadratus** Say.  
 ME.—4, 5, 6, 8, 9, 10. N. H.—11, 12, 15. VT.—18, 22. June 26—Aug. 20.  
 MASS.—23, 27, 29. R. I.—33. CONN.—35. June 6—Aug. 10.
- C. rotundipennis** Loew.  
 MASS.—Fall River, July 19 (*N. S. Easton*). R. I.—Buttonwoods, July 24.
- Ptiolina Zetterstedt.
- P. edeta** (Walker).  
 N. H.—“Alpine Garden,” Mt. Washington, July 4, 1914.
- Spania Meigen.
- S. nigra** var. *americana* Johnson, 23—70.  
 ME.—“Witch Hole Pond,” near Bar Harbor, June 21, 1921.
- Atherix Meigen.
- A. variegata** Walker.  
 ME.—Orono. N. H.—Jefferson.  
 MASS.—Amherst. CONN.—Northfield; South Meriden, June 4 (*H. L. Johnson*).
- Symphoromyia Frauenfeld.
- S. hirta** Johnson (*S. pullata* Coquillett, in part, see Aldrich, 15—124).  
 N. H.—11, 14, 15. VT.—21, 22. June 5—July 5.  
 MASS.—23, 26. R. I.—33. CONN.—35. June 11—24.
- S. montana** Aldrich, 15—133.  
 N. H.—Mt. Washington (*Mrs. Slosson*); Bretton Woods, June 25.
- Hilarimorpha Schiner.
- H. pusilla** Johnson, 23—70.  
 N. H.—Hanover, July 7. VT.—Norwich, July 8, 1908.
- CYRTIDAE. The Small-headed Flies. .
- Pterodontia Gray.
- P. analis** Westwood.  
 MASS.—Woods Hole.
- P. flavipes** Gray.  
 ME.—10. N. H.—11, 13, 14, 15. July 14—26.  
 MASS.—24, 25, 26, 27. July 10—20.

*Ogcodes* Latreille (*Oncodes* of authors).*O. borealis* Cole.

ME.—Monmouth, June 27, 1912 (*Frost*); Waterville, July 5, 1905 (*Hitchings*). N. H.—Hampton, June 27 (*Shaw*).

MASS.—Holden, June 27, 1908 (*J. H. Emerton*).

*O. costatus* Loew.

ME.—6, 7, 8, 9, 10. N. H.—11, 15. June 22—July 12.

MASS.—25, 26, 27, 32. R. I.—33. CONN.—35. June 19—Aug. 8.

*O. incultus* Osten Sacken.

ME.—4, 6, 9. N. H.—11, 15. VT.—17. June 4—26.

MASS.—26, 27, 28, 32. CONN.—34. June 5—July 28.

*O. pallidipennis* Loew.

ME.—8, 9. N. H.—15. June 18—July 23.

MASS.—23, 24, 26, 27. CONN.—35. June 26—Aug. 9.

## Opsebius Costa.

*O. gagatinus* Loew.

N. H.—Franconia (*Mrs. Slosson*).

*O. pterodontinus* Osten Sacken.

ME.—4, 6, 9. N. H.—11, 13, 15. July 10—Aug. 15.

MASS.—24, 32. R. I.—33. July 18—Aug. 8.

Parasitic on the "grass spider" (*Agelena naevia*).

*O. sulphuripes* Loew.

MASS.—Chester, Aug. 4; North Attleboro, July 4, 1921; Sherborn, July 3, 1913 (*Frost*).

## Acrocera Meigen.

*A. bimaculata* Loew.

N. H.—Jaffrey, July 18 (*Miss Nina Spaulding*).

MASS.—Southbridge, June 26 (*S. W. Bromley*).

*A. bullata* Westwood.

ME.—West Kennebunk, Aug. 19, 1919 (*A. B. Fuller*); Bailey's Isl., Aug. 20, 1915 (*G. M. Allen*).

MASS.—Southbridge, July 3, 1915 (*S. W. Bromley*).

*A. fasciata* Wiedemann.

MASS.—Waltham, from a spider, *Amaurbius sylvestris* (*J. H. Emerton*); Framingham, June 9, 1915 (*Frost*).

*A. nigrina* Westwood.

ME.—York, Sept. 4; Oquossoc, July 1, 1922. N. H.—Shirley Hill, June 17, 1911 (*F. W. Grigg*). VT.—Bennington, June 18, 1915.

CONN.—Darien, June 12, 1915.

*A. obsoleta* Van der Wulp.

ME.—Orono, Aug. 5, 1915 (*A. P. Morse*).

**A. subfasciata** Westwood.

N. H.—Pelham, Sept. 8, 1905 (*Birdwell*).

#### BOMBYLIIDAE.

**Anthrax** Scopoli, 1763 (*Spogostylum* Macquart, 1840).

**A. albofasciata** (Macquart).

Vt.—Rutland, Aug. 1.

MASS.—Provincetown, June 25–27; Sherborn, June 22, 1913 (*Frost*).

**A. analis** (Say).

ME.—9. N. H.—11, 14, 15. July 14–Aug. 9.

MASS.—24, 25, 27, 28, 29, 32. R. I.—33. CONN.—34, 35. July 25–Sept. 4.

Parasitic on the larva of tiger beetle (Shelford, 13–213).

**A. limatula** (Say).

N. H.—Bretton Woods, June 28, 1913. Vt.—St. Albans, June 21, 1913.

**A. oedipus** (Fabricius).

ME.—2, 8, 9. N. H.—11, 13. Vt.—18. July 3–Aug. 25.

MASS.—23, 25. CONN.—35. July 8–30.

Parasitic in the nests of several species of solitary wasps (*Odynerus*).

**A. pauper** (Loew).

Vt.—Middlebury, July, 1912 (*Barlow*).

MASS.—Provincetown, June 25, 1904; Manomet, July 17.

**A. pluto** (Wiedemann).

N. H.—Mt. Washington, July 8 (*Morrison*); Glen House, July.

**A. simson** (Fabricius).

N. H.—“A single specimen from western foot hills of the White Mts.” (*Hood*).

R. I.—Bristol, Aug. 28, 1913 (*Mrs. A. B. Parker*). CONN.—35 (six records), Aug. 10–Sept. 16.

Parasitic in the nests of the carpenter bees (*Xylocopa virginica*).

#### Exoprosopa Macquart.

**E. capucina** (Fabricius).

ME.—Orono; Mt. Desert, July 15, 1918; Isle of Springs, July 15 (*C. E. White, Jr.*). N. H.—White Mts.

**E. fascipennis** (Say).

N. H.—11. Vt.—20. Aug. 6.

MASS.—27, 29, 30, 31, 32. R. I.—33. CONN.—34, 35. July 14–Aug. 30.

**E. fasciata** Macquart.

N. H.—“Jefferson; Bemis; Nashua” (*Hood*).

MASS.—24, 29, 30, 32. CONN.—35. Aug. 2–Sept. 1.

*Villa Lioy* (*Anthrax* of authors, not Scopoli; Coquillett, 10-619).

**V. alternata** (Say).

ME.—2, 8, 9. N. H.—11, 15. VT.—19, 20. July 20-23.  
MASS.—23, 25, 27, 28, 29, 30, 31, 32. CONN.—35. June 25—  
Aug. 25.

**V. hypomelas** Macquart.

ME.—1, 2, 8, 9. N. H.—11, 15. July 30—Aug. 23.  
MASS.—23, 27, 29. CONN.—34, 35. June 27—Sept. 4.

Bred from one of the cut-worms.

**V. lateralis** (Say).

ME.—1, 2, 3, 6, 8, 9. N. H.—11, 13, 15. VT.—17. July 14—  
Aug. 30.  
MASS.—23, 25, 26, 27, 28, 29, 30, 31. CONN.—34, 35. June 26—  
Sept. 6.

**V. lateralis** var. *arenicola* (Johnson), 08-15.

MASS.—Provincetown, June 25; Nantucket, Aug. 12. A sand-  
dune form.

**V. lateralis** var. *gracilis* (Macquart).

ME.—2, 6, 8, 9. N. H.—11, 13, 14. VT.—19. July 13—Aug. 25.  
MASS.—23, 29. CONN.—34. July 11—Aug. 9.

**V. shawii** Johnson, 08-14.

N. H.—*Hampton Beach*, Aug. 27 (*Shaw*).  
MASS.—Westport, Sept. (*Kirkland*); Provincetown, Sept. 8, and  
Nantucket, Sept. 10 (*Morse*).

**V. fulviana** var. *nigricauda* (Loew).

ME.—1, 2, 6, 7, 8, 9. N. H.—11, 13, 15. VT.—19. July 12—  
Sept. 16.  
MASS.—23, 25, 26. CONN.—34. July 11—Aug. 30.

**V. tegminipennis** (Say).

ME.—4, 6, 8, 9. N. H.—11, 13, 15. VT.—19, 20. July 30—  
Aug. 25.  
MASS.—25, 26, 30, 32. R. I.—33. Aug. 10-30.

**V. fulvohirta** (Wiedemann).

MASS.—Springfield, Aug. 6. CONN.—New Haven, Aug. 16.

**V. bigradata** Loew.

MASS.—Provincetown, June 15 (*Webber*); Muskeget Isl., June 18;  
Nantucket, June 11 (*Fall*).

**V. webberi** Johnson, 19-11 (*V. lepidota* of authors, in part).

VT.—20, 21. June 21—July 11.

MASS.—23, 25, 27. CONN.—35. June 3-24.

**V. morio** (Linné).

ME.—8, 9. N. H.—11, 14. VT.—16, 20, 21. June 11—July 13.

MASS.—23, 25, 27. CONN.—35. May 22—July 1.

**V. sinuosa** (Wiedemann).

N. H.—13. Vt.—21. June 21—July 13.

MASS.—23, 27, 28, 29, 31, 32. R. I.—33. CONN.—35. June 10—July 30.

**Bombylius** Linné.**B. fulvibasis** Macquart (*B. atriceps* Loew).

VT.—16. June 20 and 21.

MASS.—24, 27, 28, 29, 30, 31. CONN.—35. May 21—June 11.

**B. fraudulentus** Johnson, 07—99.

MASS.—24, 29, 31, 32. CONN.—35. June 26—July 13.

**B. incanus** Johnson, 07—97.

ME.—

MASS.—24, 25, 27, 29, 31. June 15—July 8.

**B. varius** Fabricius.N. H.—“North Conway” (*Hood*).CONN.—New Haven, June 27, 1910 (*Champlain*); Darien, June 12.**B. major** Linné.

ME.—6, 9. N. H.—11, 13, 14, 15. May 5—16.

MASS.—23, 24, 25, 27. CONN.—35. Apr. 19—May 30.

A pupa was found in the nest of *Andrena* sp. along Mead Brook, Mt. Monadnock, April 19, 1919, by Miss Spaulding.**B. pygmaeus** Fabricius.

ME.—5, 6, 8, 9. N. H.—11, 13, 14, 15. May 14—June 15.

MASS.—23, 24, 25, 27, 43. CONN.—35. May 8—24.

**B. pulchellus** Loew.

MASS.—24, 27, 32. R. I.—33. CONN.—35. May 8—24.

**Anastoechus** Osten Sacken.**A. barbatus** Osten Sacken (*A. nitidulus* of authors, not Fabricius).MASS.—Nantucket, Sept. (*Scudder*), Sept. 9 (*Fernald*); Truro, Sept. 4, and Provincetown, Sept. 5—8 (*Morse*).**Systoechus** Loew.**S. vulgaris** Loew.MASS.—West Chop, Aug. 5, and Provincetown, Sept. 5 (*Morse*);Nantucket, Aug. 15 (*Fernald*); Brewster, July 26, 1921 (*R. H. Howe, Jr.*); Wellfleet, Aug. 16.**Ogcodocera** Macquart.**O. leucoprocta** (Wiedemann).MASS.—West Bedford, June 8 (*L. W. Swett*).**Phthiria** Meigen.**P. borealis** Johnson, 10—229.ME.—Ft. Kent, Aug. 7 (*C. W. J.*); Little Black River Rapids, Sept. 13 (*Cushman*).

**P. cyanoceps** Johnson.

MASS.—*Cohasset*, Sept. 8; Nantucket, Aug. 12–24 (*Fernald*).  
R. I.—Barbour's Heights, Sept. 9 (*Barlow*).

**P. coquilletti** Johnson.

MASS.—Nantucket, July 4 (*Cushman*).

**P. sulphurea** Loew.

MASS.—Horse Neck Beach, Aug. 9 (*Hough*); Nantucket, Aug. 6 (*Cushman*); Tuckernuck, Aug. 5 (*Allen*).

**Sparnopolius** Loew.**S. fulvus** (Wiedemann).

ME.—9. N. H.—15. Aug. 29–Sept. 7.

MASS.—24, 26, 27, 32. R. I.—33. CONN.—34, 35. Aug. 27–Sept. 13.

**Eclimus** Loew.**E. harrisii** (Osten Sacken).

N. H.—Mt. Washington carriage-road, 2600 ft., July 8, 1914, on blackberry flowers; along railway above Base Station, July 6, 1919 (*Frost*) (see Johnson, 14–123).

**E. funestus** (Osten Sacken).

N. H.—White Mts. (*Morrison*); Franconia (*Mrs. Slosson*); Mt. Washington carriage-road, 2600 ft., July 6 and 8, 1914.

**Systropus** Wiedemann.**S. macer** Loew.

N. H.—“Upper Bartlett” (*Hood*).

MASS.—24, 27, 28, 32. CONN.—35. Aug. 3–Sept. 12.

**Geron** Meigen.**G. calvus** Loew.

N. H.—Cornish, July 13, 1908.

MASS.—Chester, Aug. 5–9.

**G. subauratus** Loew.

MASS.—Rutland, July 3; Lexington, Aug. R. I.—Kingston, July 8, and Cumberland, July 3 (*Barlow*). CONN.—Portland, Aug. 12.

**G. vitripennis** Loew.

MASS.—26, 27, 29, 30, 31, 32. R. I.—33. CONN.—35. June 22–Sept. 8.

**Metacosmus** Coquillett.**M. mancipennis** Coquillett, 10–41.

MASS.—Framingham, June 4, 1922 (*C. A. Frost*); Blue Hill, Milton, July 13, 1919 (*J. Bequaert*).

## THEREVIDAE.

*Tabuda* Walker.**T. fulvipes** Walker.

ME.—9. June 18.

MASS.—24, 27, 28, 32. CONN.—35. Apr. 27—May 28.

*Psilocephala* Zetterstedt.**P. flavipennis** Cole, 23—42.MASS.—West Chop, Aug. 5, 1923 (*Morse*); *Horse Neck Beach*, July 30, 1913.R. I.—*Buttonwoods*, July 25. CONN.—New Haven, Sept. 12.**P. frontalis** Cole, 23—40.

ME.—N. H.—15. VT.—19, 20. July 6—Aug. 28.

MASS.—24, 26, 27, 29, 30, 31, 32. R. I.—33. CONN.—34, 35. May 30—Aug. 13.

**P. haemorrhoidalis** (Macquart).

MASS.—27, 29, 32. R. I.—33. CONN.—35. June 14—Aug. 13.

**P. munda** Loew (*P. melanoprocta* Loew, ♂).ME.—Paris, July 12, 1912 (*Frost*). N. H.—Dublin, June 25, 1828 (*Harris Coll.*); *Franconia* (*Mrs. Slosson*).**P. melampodia** Loew.

ME.—10. N. H.—11. VT.—17. July 16—Aug. 7.

MASS.—27. CONN.—34, 35. May 3—June 27.

**P. slossoni** Coquillett.N. H.—*Franconia* (*Mrs. Slosson*).*Epomyia* Cole, 23—26.**E. pictipennis** (Wiedemann).

MASS.—25, 26, 27, 28, 29. R. I.—33. CONN.—35. June 22—July 28.

**E. rufiventris** Loew.

N. H.—15. June 18.

MASS.—26, 28, 29, 30, 32. R. I.—33. June 5—Aug. 12.

*Thereva* Latreille.**T. albifrons** Say.MASS.—Waltham, June 14; Springfield, May 19 (*R. T. Webber*).**T. bella** Kröber, 14—64.MASS.—Auburndale ("Riverside"), Aug. 9; Sharon, Aug. 25; North Falmouth, Aug. 8 (*Cushman*); Stony Brook Res., Aug. 1 (*L. H. Taylor*). R. I.—Kingston, July 20 (*Barlow*).**T. bella** var. *nigrimana* Kröber, 14—65.MASS.—*Springfield*, Aug. 13, 1905.**T. candidata** Loew.

N. H.—11, 15. VT.—19. June 26—Aug. 10.

MASS.—23, 24, 25, 26. CONN.—35. May 21—Aug. 25.

**T. flavicincta** Loew.

ME.—6, 8. N. H.—11, 14. VT.—19. June 28—Sept. 8.  
MASS.—27. R. I.—33. July 20—Aug. 9.

**T. frontalis** Say.

ME.—4, 8. N. H.—11, 14, 15. VT.—16, 19, 20. June 17—  
Aug. 1.  
MASS.—23, 24, 25, 26, 27, 28, 29. R. I.—33. CONN.—35.  
May 23—Aug. 5.

**T. strigipes** Loew.

ME.—4, 7. N. H.—11. VT.—16, 20. June 24—July 25.

## SCENOPINIDAE.

**Scenopinus** Latreille. The Window-flies.

**S. fenestralis** (Linné).

ME.—6, 7, 8. N. H.—11, 12, 15. May 5—Aug. 15.  
MASS.—27, 29, 32. R. I.—33. CONN.—35. June 4—Aug. 10.

**S. glabrirrons** Meigen.

N. H.—Glen House, July 18.

MASS.—Boston; Brookline; Cambridge, June 4—Aug. 10. CONN.—  
New Haven, June 5.

## MYDAIDAE.

**Mydas** Fabricius.

**M. clavatus** Drury.

MASS.—Sherborn; Southbridge; Chicopee; Amherst, July 16—  
Aug. 8. R. I.—Rockville, Aug. 13 (*Barlow*). CONN.—Lyme;  
New Haven; Farmington; Brookfield, July 2—Aug. 1.

## ASILIDAE. The Robber-flies.

**Leptogaster** Meigen.

**L. badius** Loew.

ME.—6, 9. N. H.—11, 13, 15. June 27—July 21.  
MASS.—24, 27, 28, 31. CONN.—34, 35. June 25—July 28.

**L. testacea** Loew.

ME.—9, 10. VT.—21. June 19—July 25.  
MASS.—26, 27, 32. CONN.—35. July 8—Aug. 9.

**L. flavillaceus** Loew.

ME.—6, 9. N. H.—11. VT.—21. June 19—July 1.  
MASS.—28. CONN.—35. July 4—Aug. 10.

**L. flavipes** Loew.

ME.—6, 9. N. H.—12, 15. VT.—20, 21. July 14—July 15.  
MASS.—23, 24, 26, 27, 28. CONN.—35. June 15—July 15.

**L. loewi** Banks, 14—133.

ME.—2, 6. N. H.—12. VT.—21. July 4—Aug. 24.  
MASS.—23, 26, 27, 29. CONN.—35. June 16—July 13.

**L. pictipes** Loew.

MASS.—West Chop, Aug. 6 (*A. P. Morse*); Edgartown, June 28; Martha's Vineyard, July 17, 1905.

**Ceraturgus** Wiedemann.**C. cruciatus** (Say).

ME.—9, 10. N. H.—15. July 5—July 15.

MASS.—23, 24, 25, 27, 32. CONN.—34, 35. June 15—Aug. 29.

**C. similis** Johnson, 12—152.

Vt.—*Mt. Equinox*, June 5, 1910.

MASS.—*Bashbish Falls*, June 27, 1912.

**Echthodopa** Loew.**E. formosa** Loew.

MASS.—Cohasset, June 20 (*Bryant*); Amherst, June 24; Great Barrington, July 1 (*W. I. Beecroft*).

**Dioctria** Meigen.**D. albius** Walker.

ME.—4, 8. N. H.—11. VT.—19. July 19—Aug. 1.

MASS.—23, 24, 27. CONN.—34, 35. June 9—Aug. 8.

**D. propinqua** Bromley, 24—124.

MASS.—*Dorchester*, June.

**D. brevis** Banks, 17—117.

MASS.—Blue Hill, June 14; Sharon, July 7; Mt. Tom, July 14; Rutland, July 31. CONN.—Lyme, June 16; Hamden, June 18; New Haven.

**D. sackeni** Williston.

N. H.—Mt. Washington, near summit, July 25, 1875 (*Dimmock*); near Base Station, July 7 (*Sherriff*); near Glen House, 2500 ft., July 24, 1915 (*C. W. J.*).

**D. baumhaueri** Meigen.

MASS.—Boston, June 28, 1916; Brookline, July 6, 1917 (Johnson, 18—102); Stoneham, July 13; Arlington, June 20 (*Anderson*). CONN.—New Haven, May 27—June 23.

**Cyrtopogon** Loew.**C. allenii** Back, 09—261.

ME.—Mt. Desert, Aug. 16—17. N. H.—*Mt. Kearsarge*, Sept. 28 (*G. M. Allen*).

MASS.—Mt. Tom, Sept. 22.

**C. bimacula** Walker.

ME.—Orono, Aug. 1 (*Hitchings*). N. H.—Mt. Washington, summit (*Mrs. Slosson*). VT.—Newport.

**C. falto** Walker (*C. chrysopogon* Loew).

ME.—4, 5, 6, 7, 8, 9, 10. N. H.—11, 13, 14, 15. VT.—16, 19, 21, 22. June 4—Aug. 1.

MASS.—23, 24, 25, 26, 27. R. I.—33. CONN.—35. May 24—June 23.

**C. laphriformis** Curran, 23–59.

N. H.—Intervale, June 26, 1909 (*S. A. Shaw*).

**C. lutatus** Walker.

ME.—4, 8, 9. N. H.—11, 13, 15. June 29–Aug. 7.

MASS.—27, 29. June 12–July 3.

**C. lyratus** Osten Sacken.

ME.—Oquossoc, July 1. N. H.—White Mts. (*Osten Sacken*); Mt. Washington, summit (*Mrs. Slosson*); near Glen House, 2500 ft., July 16. VT.—Rutland, Aug. 1.

**C. marginalis** Loew.

N. H.—14. June 22.

MASS.—24, 26, 27, 32. R. I.—33. CONN.—35. May 14–June 15.

**C. tenuis** Bromley, 24–125.

ME.—Southwest Harbor, July 20, 1923.

**Lasiopogon** Loew.

**L. opaculus** Loew.

ME.—9. N. H.—11. June 16.

MASS.—23, 24, 27. CONN.—35. May 12–June 11.

**L. tetragrammus** Loew.

N. H.—Franconia (*Mrs. Slosson*); Intervale, June 16 (*Allen*); Bretton Woods, June 28.

MASS.—Sunderland, June 6 (*Bromley*). CONN.—Poquonock, May 22 (*Walden*).

**L. terricola** Johnson.

MASS.—Natick, May 15 (*Frost*); Chicopee, May 24, 1896 (*Knab*); Amherst, June 8 (*Bromley*). CONN.—Poquonock, May 22 (*Walden*).

**Holcocephala** Jaennicke.

**H. abdominalis** (Say).

N. H.—11. VT.—17, 20. July 21–Aug. 6.

MASS.—23, 24. CONN.—35. July 14–Aug. 8.

**Holopogon** Loew.

**H. guttula** Wiedemann (*H. philadelphicus* Schiner).

MASS.—23, 24, 25, 27, 28. CONN.—35. May 30–Aug. 6.

**H. tibialis** Curran, 23–207.

MASS.—23, 24, 27. CONN.—35. June 14–July 14.

**Neopogon** Bezzi (*Stichopogon* of authors, not Loew).

**N. argenteus** (Say).

MASS.—Sand dunes, Horse Neck Beach, Aug. 3–9, 1896 (*Dr. Hough*), July 30, 1913 (*C. W. J.*).

**N. trifasciatus** (Say).

MASS.—24, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—35.  
June 28—Sept. 4.

**Deromyia** Philippi.**D. discolor** (Loew).

CONN.—Stamford, Aug. 13 (*A. P. Morse*).

**D. umbrinus** (Loew).

ME.—9. N. H.—13, 14, 15. VT.—19, 20. July 22—Aug. 25.  
MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—34, 35. July  
21—Sept. 14.

**D. winthemi** Wiedemann.

MASS.—24, 30, 31, 32. R. I.—33. CONN.—35. July 10—Aug.  
30.

**Taracticus** Loew.**T. octopunctatus** (Say).

N. H.—White Mts.; Franconia (*Mrs. Slosson*).

MASS.—Cambridge, July 5. CONN.—Poquonock, June 27  
(*Viereck*).

**Nicocles** Jaennicke.**N. pictus** Loew.

MASS.—Mt. Toby, 400 ft., May 18, 1924 (*R. G. Cooke*).

**N. politus** (Say).

MASS.—Cambridge (Mt. Auburn), Aug. 1, 1836 (*Harris Coll.*);  
Haggett's Station, Sept. 21, 1911 (*A. P. Morse*); Nantucket,  
Sept. 9, 1913 (*Morse*); Sandwich, Sept. 20, 1923 (*Barber*).

**Cerotainia** Schiner.**C. macrocera** (Say).

MASS.—Mt. Tom, July 14. CONN.—.

**Atomosia** Macquart.**A. glabrata** (Say).

MASS.—Cambridge, July 15 (*Harris Coll.*); Forest Hills; Chico-  
pee, July 27; Amherst, Sept. 5; Williamstown; North Adams,  
Aug. 8, 1907 (*Bryant*).

**A. puella** (Wiedemann).

ME.—9. N. H.—13, 15. VT.—22. June 12—Sept. 2.  
MASS.—24, 25, 27, 29, 30. CONN.—35. May 30—Aug. 9.

**Pogonosoma** Rondani.**P. ridingsi** Cresson, 20—214 (*P. dorsata* of authors, not Say).

ME.—Seal Harbor, Mt. Desert (*E. S. Morse*). N. H.—Fran-  
conia (*Mrs. Slosson*); near Fabyans, July 7, 1910 (*Sherriff*).

**P. dorsatum** var. **melanoptera** (Wiedemann); see Cresson, 20—213.

MASS.—Woods Hole, July 18 (*Wheeler*); East Wareham, July 10,  
1914 (*Franklin*).

**Nusa Walker.****N. fulvicauda** (Say).ME.—Wales, July 5 (*Frost*). N. H.—Hampton, July 5 (*Shaw*). MASS.—West Springfield, June 5; Bedford, June 9 (*Barber*).**Lampria Macquart.****L. bicolor** (Wiedemann).

CONN.—.

**Dasyllis Loew.****D. flavigollis** (Say).

ME.—5, 6, 8, 9. N. H.—11, 14, 15. VT.—16, 19. May 29—Aug. 1.

MASS.—23, 24, 25, 26, 27, 32. CONN.—35. May 23—July 18.

**D. insignis** Banks, 17—54.

ME.—4, 5, 6, 7, 8. N. H.—11. June 9—Aug. 22.

**D. divisor** Banks, 17—54.CONN.—Cornwall, June 4, 1922 (*Chamberlain*).**D. posticata** (Say).

ME.—4, 5, 6, 8, 9, 10. N. H.—11, 12, 13, 14, 15. VT.—21. June 23—Aug. 25.

MASS.—23, 24, 25, 26, 27, 28, 29, 32. R. I.—33. CONN.—35. June 5—July 24.

**D. posticata** var. *virginica* Banks, 17—53.MASS.—Mt. Tom, June 19, 1895, and July 16, 1898 (*Mass. Agr. College Coll.*); Hyannisport, July 4, 1904.**D. sacrator** (Walker).

ME.—4, 5, 6, 7. N. H.—11, 14. VT.—19. June 15—Aug. 4.

MASS.—23, 25, 26. Aug. 8.

**D. thoracica** Fabricius.

ME.—9. N. H.—15. VT.—16, 21. June 16—30.

MASS.—24, 26, 27, 32. R. I.—33. CONN.—34, 35. June 2—Aug. 17.

**D. chamaplainii** Walton, 10—243.MASS.—Auburndale, July 12; Fall River, Aug. 9 (*Easton*); Westport Factory, July 31, 1913. CONN.—.**D. grossa** (Fabricius).

ME.—9. N. H.—11, 15. Aug. 11.

MASS.—24, 25, 26, 27, 32. CONN.—. June 19—July 31.

**D. cinerea** Back, 04—289N. H.—Andover, July 11 (*C. Hoessler*); Milford, June 8, 1902 (*C. P. Whitney*).MASS.—Lunenburg, June 6, 1914 (*R. T. Webber*); Dartmouth, July 20 (*N. S. Easton*).**D. affinis** Macquart.MASS.—East Wareham, Sept. 12, 1922 (*D. S. Lacroix*).

*Laphria* Meigen.

*L. aeatus* Walker (*L. index* McAtee, 18-164).

ME.—8, 9. N. H.—11. June 13-Aug. 8.

MASS.—23, 24, 25. May 11-June 16.

*L. gilva* (Linné).

ME.—8, 9. N. H.—11, 14. June 20-Aug. 17.

MASS.—24, 26, 27, 28, 32. CONN.—34. June 12-Aug. 9.

*L. scorpio* McAtee, 18-163.

ME.—4, 8. N. H.—11, 14. VT.—17. July 7-Sept. 1.

*L. sericea* Say.

MASS.—Great Barrington, June 16; Chester, July 29-Aug. 7;  
Mt. Tom. CONN.—

*L. sadalis* Walker (*L. pubescens* Williston).

ME.—4, 5, 8. N. H.—11. VT.—19. July 3-Aug. 1.

MASS.—25, 26.

*L. canis* Williston.

ME.—4, 5, 6, 8. N. H.—11, 15. VT.—17, 19, 20. July 1-Aug. 28.

MASS.—23, 24, 25, 27. R. I.—33. CONN.—35. May 30-Aug. 24.

*L. altitudinum* Bromley, 24-125.

ME.—Bar Harbor, June 7-16. N. H.—Mt. Washington, 2500-4000 ft. June 15-July 30.

*L. janus* McAtee, 18-153.

ME.—4, 5, 7, 8. N. H.—11, 14. VT.—17. June 15-Aug. 20.

*Ommatius* Wiedemann.*O. marginellus* (Fabricius).

MASS.—24, 25, 27, 29, 32. R. I.—33. CONN.—35. June 16-July 15.

*Proctacanthus* Macquart.*P. brevipennis* (Wiedemann).

MASS.—24, 25, 29, 30, 31. R. I.—33. CONN.—35. June 15-July 23.

*P. philadelphicus* Macquart.

ME.—9. N. H.—13, 14, 15. VT.—22. Aug. 13-Sept. 1.

MASS.—24, 25, 26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—34, 35. July 25-Sept. 12.

*P. rufus* Williston.

ME.—10 (Popham Beach).

MASS.—24, 26, 28, 29, 30, 31, 32. CONN.—35. July 2-Sept. 5.

**Erax Scopoli.**

**E. aestuans** (Linné) (*E. bastardii* Macquart).  
 N. H.—14, 15. July 18—Aug. 16.  
 MASS.—23, 24, 25, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—  
 34, 35. July 2—Aug. 18.

**E. barbatus** (Fabricius) (*E. cinerescens* Bellardi), Hine, 19—105.  
 MASS.—28, 29, 30, 32. CONN.—35. July 17—Sept. 4.

**E. rufibarbis** Macquart (*E. aestuans* Wiedemann, not Linné).  
 ME.—9. N. H.—15.  
 MASS.—24, 25, 26, 27, 28, 32. CONN.—34, 35. Aug. 17—Sept.  
 10.

**Promachus Loew.**

**P. bastardii** (Macquart).  
 ME.—9, 10. N. H.—15. July 16.  
 MASS.—24, 25, 27, 28, 29, 30, 32. R. I.—33. CONN.—35.  
 July 1—Aug. 24.

**P. fitchii** Osten Sacken.  
 MASS.—24, 25, 26, 27. R. I.—33. CONN.—35. June 21—  
 July 27.

**Asilus Linné.**

**A. sericeus** Say.  
 ME.—9. N. H.—13, 14, 15. Aug. 1—16.  
 MASS.—23, 24, 25, 26, 27, 29, 31, 32. R. I.—33. CONN.—35.  
 June 24—July 27.

**A. fuscatus** Hine, 09—168 (*Philonicus obscurus* Hine, 07—117).  
 MASS.—West Springfield, June 15; Chicopee, July 5. R. I.—  
 Providence, June 24: Buttonwoods, July 25.

**A. lecythus** Walker (*A. femoralis* Macquart).  
 ME.— N. H.—14. Sept. 13.  
 MASS.—24, 26, 27, 31. R. I.—33. CONN.—35. June 12—  
 Aug. 28.

**A. orphne** Walker (*Neoitamus distinctus* Williston).  
 ME.—4, 6. N. H.—11, 15. June 25—July 20.  
 MASS.—23, 24, 25, 26, 27. R. I.—33. CONN.—35. May 7—  
 July 20.

**A. flavofemoratus** Hine, 09—153.  
 ME.—6. N. H.—14.  
 MASS.—23, 24, 25, 27, 28, 31, 32. R. I.—33. CONN.—35.  
 June 3—July 15.

**A. latipennis** Hine, 09—152.  
 N. H.—15.  
 MASS.—23, 24, 25, 27. CONN.—35. Aug. 28—Sept. 4.

**A. auricomus** Hine, 09-148.

ME.—10. N. H.—13, 15. Aug. 11—Sept. 10.

MASS.—24, 26, 27, 28, 32. R. I.—33. CONN.—35. June 21—Sept. 12.

**A. piceus** Hine, 09-149.

N. H.—13, 14, 15. Aug. 11—Sept. 13.

MASS.—24, 26, 27, 31, 32. Aug. 9—Sept. 12.

**A. notatus** Wiedemann.

ME.—6, 8, 9, 10. N. H.—11, 12, 13, 15. VT.—16, 19, 20, 21, 22. June 12—Aug. 3.

MASS.—23, 24, 25, 26, 27, 29, 30, 31, 32. R. I.—33. CONN.—34, 35. June 5—Aug. 25.

**A. novae-scotiae** Macquart.

ME.—6, 7, 8, 9, 10. N. H.—11, 12, 13, 15. VT.—18, 20. June 27—Aug. 15.

MASS.—23, 24, 25, 26, 27, 30, 31. R. I.—33. CONN.—35. June 15—Sept. 5.

**A. sadyates** Walker.

ME.—6, 8, 10. N. H.—11, 15. June 25—Aug. 17.

MASS.—24, 26, 27, 28, 32. CONN.—35. July 14—Sept. 23.

**A. snowii** Hine, 09-160.

ME.—3, 6, 7, 9, 8. N. H.—11, 12, 14, 15. VT.—16, 19, 21. June 21—Aug. 24.

MASS.—23, 24, 25, 26, 27, 29, 30, 31. R. I.—33. CONN.—35. July 5—Aug. 8.

**A. erythrocnemius** Hine, 09-163.

MASS.—23, 24, 25, 27, 29, 32. CONN.—35. June 17—Aug. 21.

**A. maneei** Hine, 09-158.

MASS.—Sherborn, July 26, 1913 (*E. J. Smith*).

**A. paropus** Walker.

ME.—6, 8, 9. N. H.—11, 12, 13, 15. VT.—18. June 27—Aug. 18.

MASS.—23, 24, 27, 29, 30, 31, 32. CONN.—35. June 21—Sept. 10.

#### DOLICHOPODIDAE.

*Sciapus* Zeller, 1842.

(*Psilopus* Meigen, 1824, not Poli, 1795; *Agonosoma* Aldrich, not Guérin-Ménéville; see Becker, 21-360).

Subgenus *Sciapus* Zeller.

**S. filipes** (Loew).

CONN.—.

**S. pallens** (Wiedemann).

R. I.—Newport. CONN.—New Haven, May 5 (*Britton*).

**S. scintillans** (Loew).

N. H.—Cornish, July 13; Intervale, Aug. 12 (*Allen*).

**S. tener** (Loew).

ME.—7, S. July 14–21.

MASS.—23, 27, 32. R. I.—33. CONN.—35. June 23–Aug. 26.

**S. unifasciatus** (Say).

R. I.—Buttonwoods, July 25. CONN.—Branford, July 5 (*Burricht*).

Subgenus *Condylostylus* Bigot, 1859.

(*Psilopodinus* Aldrich, not Bigot; see Becker, 21–251.)

**S. albicoxa** (Walker).

MASS.—(Walker).

**S. caudatus** (Wiedemann).

ME.—6, 8, 10. N. H.—11, 12, 15. July 7–25.

MASS.—24, 26, 27, 28, 29. R. I.—33. CONN.—35. May 30–Aug. 12.

**S. flavipes** Aldrich, 04–284.

ME.—Mt. Desert, July 14. N. H.—Hampton, July 1–Sept. 27 (*Shaw*).

MASS.—New Bedford (*Hough*); Blue Hill, July 16; Wellesley, July 27 (*Morse*).

**S. inermis** (Loew).

MASS.—Lexington, July 27; Woburn, July 11; Hyannisport, July 4.

**S. patibulatus** (Say).

Vt.—16, 18, 22. June 24–July 14.

MASS.—23, 27, 29. R. I.—33. CONN.—35. May 30–July 11.

**S. scaber** (Loew).

MASS.—Auburndale, Aug. 2. CONN.—

**S. scrobinator** (Loew).

ME.—6, 7, 8, 10. N. H.—12, 15. VT.—18, 20. July 7–Aug. 19.

MASS.—26, 27, 29. R. I.—33. CONN.—35. June 17–Aug. 23.

**S. siphon** (Say).

ME.—9. N. H.—11. VT.—16. July 14–Aug. 23.

MASS.—24, 27, 28. R. I.—33. CONN.—35. June 12–Sept. 10.

**Mesorhaga** Schiner.

**M. townsendii** Aldrich.

MASS.—Ipswich, July 22, 1909.

**M. varipes** Van Duzee.

MASS.—Eastham, June 27, 1904.

**Diaphorus Meigen.****D. gibbosus** Van Duzee, 15-173.ME.—8, 9. N. H.—11, 14. VT.—18, 21. June 8—July 11.  
MASS.—26, 27. June 4—July 12.**D. leucostomus** Loew.MASS.—New Bedford, July 29 (*Hough*); Plymouth, July 28.  
CONN.—Norwalk, Aug. 4.**D. leucostomus** var. *infuscatus* Van Duzee, 15-179.

MASS.—Boston, Oct. 6, 1922.

**D. mundus** Loew.CONN.—New Haven, June 23 (*P. L. Buttrick*).**D. opacus** Loew.N. H.—Milford, June 23. VT.—St. Albans, June 2; Norwich,  
July 8.

R. I.—Buttonwoods, June 20. CONN.—Middletown, June 17.

**D. sodalis** Loew.N. H.—Cornish, July 13. VT.—Dummerston, July 14.  
CONN.—Westville, July 4 (*Britton*).**D. spectabilis** Loew.

CONN.—Middletown, June 17.

**D. palpiger** Wheeler (*Chrysotus spinifer* Malloch).MASS.—Wellesley, May 19 and June 2, 1891 (*Morse*).**Asyndetus Loew.****A. ammophilus** Loew.R. I.—Newport (*Osten Sacken*).**A. appendiculatus** Loew.R. I.—Newport (*Osten Sacken*).**A. johnsoni** Van Duzee, 16-93.N. H.—Hampton, July 3 (*Shaw*).**A. syntormoides** Wheeler.MASS.—E. Boston (*Hood*); New Bedford, July 15, 1896 (*Hough*).**Chrysotus Meigen.****C. affinis** Loew.

ME.—Machias, July 21.

CONN.—West Haven, June 27 (*Viereck*).**C. auratus** Loew.CONN.—New Haven, July 4 (*Viereck*).**C. barbatus** (Loew).

R. I.—Providence, Sept. 9.

**C. discolor** Loew.

ME.—Capens, July 11.

MASS.—Forest Hills. CONN.—West Haven, June 27 (*Viereck*).

**C. obliquus** Loew.

ME.—Orono, July 8, 1913 (*Alexander*).

MASS.—New Bedford, Apr. 9 (*Hough*). CONN.—West Haven, June 27 (*Viereck*).

**C. pallipes** Loew.

CONN.—New Haven, June 23 (*Viereck*).

**C. picticornis** Loew.

MASS.—Barnstable Co., July 14 (*N. S. Easton*).

**C. subcostatus** Loew.

MASS.—Freetown, July 15 (*N. S. Easton*).

**C. wisconsinensis** Wheeler.

Vt.—Dummerston, July 14.

**C. bellus** Van Duzee, 24–39.

ME.—Kittery, June 4, 1908 (*Hitchings*); Princeton, July 12.  
N. H.—Hampton, June 25 (*Shaw*).

MASS.—Saugus, June 10, 1920. CONN.—Winnipauk, June 12, 1915.

**C. disjunctus** Van Duzee, 24–33.

MASS.—Auburndale, Aug. 9.

**C. fulvohirtus** Van Duzee, 15–95.

MASS.—Winchendon, Apr. 14 (*Dr. F. W. Russell*).

**C. johnsoni** Van Duzee, 24–21.

ME.—Kineo, Aug. 17, 1913 (*Alexander*).

**C. choricus** Wheeler (*C. ciliatus* Malloch, 14–236).

CONN.—New Haven, May 26 (*Viereck*); Winnipauk, June 16.

**C. quadratus** Van Duzee, 24–28.

MASS.—Edgartown, June 29, 1910.

**C. vulgaris** Van Duzee, 24–15.

CONN.—New Haven, June 26 (*Viereck*).

*Campsicnemus* Haliday.

**C. hirtipes** Loew.

ME.—Machias, July 21. N. H.—Hampton, Sept. 18 (*Shaw*);  
Mt. Washington (*Mrs. Slosson*).

MASS.—Wellesley, Aug. 20. CONN.—Winnipauk, Aug. 5.

**C. wheeleri** Van Duzee, 23–64.

ME.—Machias, July 20; Bar Harbor, Aug. 4.

**C. americanus** Van Duzee.

MASS.—Sunderland, May 30, 1923.

*Argyra Macquart.***A. albicans** Loew.

N. H.—14, 15. May 27—June 16.

MASS.—24, 27, 28. R. I.—33. CONN.—35. May 10—Aug. 9.

**A. angustata** Van Duzee, 1925.ME.—*Echo Lake, Mt. Desert*, July 17; Machias, July 22. VT.—  
Mt. Ascutney, July 30 (*Brooks*).

MASS.—Chester, Aug. 7; Woods Hole, July 27.

**A. bimaculata** Van Duzee, 1925.

ME.—Machias, July 22.

MASS.—Blue Hill, Milton, May 30; Ipswich.

**A. calceata** Loew.

ME.—6, 8. N. H.—11. VT.—20. July 11—Aug. 20.

MASS.—23, 26, 27. July 24—Aug. 30.

**A. calcitrans** Loew.

N. H.—14. VT.—20, 22. June 23—July 15.

MASS.—23, 27. R. I.—33. CONN.—35. June 16—July 7.

**A. minuta** Loew.

N. H.—Cornish, July 13. VT.—Norwich, July 7.

MASS.—North Adams, June 20.

**A. obscura** Van Duzee, 1925.N. H.—*Mt. Washington*, about 3000 ft., July 28, 1915.**A. robusta** Johnson, 06—59.

ME.—Bar Harbor, June 11.

**A. sericata** Van Duzee, 1925.

ME.—Machias, July 20.

MASS.—Brookline, May 23.

**A. setipes** Van Duzee, 1925.

VT.—Brattleboro, July 15.

MASS.—Chester, July 25.

*Leucostola Loew.***L. cingulata** Loew.

ME.—4, 8. N. H.—12. VT.—20. July 7—20.

MASS.—23, 26, 27. CONN.—35. June 20—Aug. 25.

**L. aldrichi** (Johnson), 04—18.MASS.—Milton, June 23. R. I.—Buttonwoods and Bristol,  
June 21, 22. CONN.—New Haven, June 8.*Rhaphium Meigen (Porphyrops Meigen).***R. barbipes** (Van Duzee), 23—239.ME.—*Princeton*, July 12; Machias, July 20—22, 1909.**R. fumipennis** (Loew).

ME.—6, 8. N. H.—11. VT.—22. June 15—July 16.

MASS.—27. July 4.

**R. gracilis** Curran, 24-228.

MASS.—Beverly, May, June (*U. S. Nat. Mus.*).

**R. johnsoni** (Van Duzee), 23-240.

N. H.—*Jaffrey*, June 18.

R. I.—*Kingston*, June 17 (*Barlow*).

**R. longipes** (Loew).

ME.—8. N. H.—11, 14. June 7-July 12.

MASS.—26, 27. CONN.—35. May 24-July 8.

**R. lugubre** (Loew).

CONN.—Branford, Apr. 20 (*Champlain*).

**R. melampus** (Loew).

ME.—7, 8. N. H.—14. June 7-July 1.

MASS.—23, 27. CONN.—35. May 26-June 30.

**R. nigricoxa** Loew.

ME.—6, 8. N. H.—12, 14. VT.—16, 20. June 22-July 13.

MASS.—23, 27. CONN.—35. May 22-June 13.

**R. signifer** (Osten Sacken).

MASS.—Sharon, July 7 and Aug. 3.

**R. slossonae** (Johnson) (*Leucostola slossonae* Johnson, 06-59;  
*P. slossonae* Van Duzee, 23-239).

ME.—Bar Harbor, July 26. N. H.—*Mt. Washington* (*Mrs. Slosson*).

**R. subarmatum** Curran, 24-228.

N. H.—Franconia.

#### Nematoprotus Loew.

**N. venustus** Melander.

ME.—Machias, July 21. VT.—Norwich, July 8.

#### Syntormon Loew.

**S. cinereiventris** Loew.

CONN.—.

#### Sympycnus Loew.

**S. lineatus** Loew.

ME.—4, 8. N. H.—11, 12. VT.—22. July 8-Sept. 7.

MASS.—26, 27. R. I.—33. CONN.—35. June 17-Oct. 16.

#### Nothosympycnus Wheeler.

**N. fortunatus** Wheeler.

ME.—Orono, July 29-Aug. 9. N. H.—Cornish, July 13. VT.—Dummerston, July 14.

MASS.—Chester, Aug. 7; Sharon, Aug. 3.

**N. frontalis** (Loew).

ME.—Orono, Aug. 9.

MASS.—Boston, Sept. 28; Chester, Aug. 9.

**N. luteipes** Van Duzee, 23-63.

ME.—*Bar Harbor*, July 22, 1919; Orono, July 21, 1913 (*Alexander*).

Neurigona Rondani.

**N. rubella** (Loew).

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Beverly, Sept. 6, 1874 (*E. Burgess*). CONN.—Winnipauk, June 15.

**N. perplexa** Van Duzee, 13-29.

ME.—Capens, July 21. N. H.—Mt. Washington, July 24.

**N. dimidiata** (Loew).

N. H.—Claremont, July 19. VT.—Brattleboro, July 15.

MASS.—Rockport, July 15.

**N. carbonifer** (Loew).

N. H.—White Mts.; Hanover, July 6.

MASS.—Melrose, June 9; Cohasset, May 29 (*Bryant*). R. I.—Buttonwoods, June 18. CONN.—Middletown, June 17.

**N. nitida** Van Duzee, 13-13.

N. H.—Franconia (*Mrs. Slosson*). VT.—St. Albans, June 21.

**N. maculata** Van Duzee, 13-36.

N. H.—Mt. Washington (*Mrs. Slosson*); Hampton, July 10 (*Shaw*).

MASS.—Brookline, June 18; Chester, Aug. 4.

**N. floridula** Wheeler.

ME.—1, 7, 8. N. H.—11, 12, 15. VT.—20. June 13-Aug. 17.

MASS.—23, 27. R. I.—33. June 22-Aug. 9.

**N. floridula** var. *infuscata* Van Duzee, 13-39.

N. H.—11. VT.—20. June 28-July 13.

MASS.—29. R. I.—33. CONN.—35. June 18-July 24.

**N. disjuncta** Van Duzee, 13-42.

ME.—8. N. H.—12. VT.—20. July 7-11.

MASS.—23, 24, 28. June 14-Aug. 3.

**N. viridis** Van Duzee, 13-43.

N. H.—White Mts. (*U. S. Nat. Mus.*).

**N. deformis** Van Duzee, 13-46.

ME.—Mt. Desert, June 21. N. H.—Glen House, July 25.

**N. tenuis** (Loew).

MASS.—Mt. Tom, July 14.

**N. aestiva** Van Duzee, 13-50.

VT.—Norwich, July 7; Bennington, June 19.

MASS.—Great Barrington, June 15.

**N. tarsalis** Van Duzee, 13-51.

VT.—St. Johnsbury, June 28.

R. I.—Buttonwoods, June 20. CONN.—Danbury, June 15.

**N. lateralis** (Say).

N. H.—11, 15.

MASS.—27, 28, 29, 30. R. I.—33. CONN.—35. June 15—  
Aug. 9.

**N. dorsalis** Van Duzee, 14—434.

N. H.—Cornish, July 13.

**Chrysotimus** Loew.

**C. delicatus** Loew.

ME.—Salisbury Cove, Mt. Desert, July 14, 1923.

**Xanthochlorus** Loew.

**X. helvinus** Loew.

N. H.—White Mts. VT.—Brattleboro, July 15.

MASS.—Brookline, July 4; Chester, Aug. 9.

**Thinophilus** Wahlberg.

**T. ochrifacies** Van Duzee, 24—101.

MASS.—Cohasset, Sept. 8; Chatham, July 1; Eastham, June 27;  
Edgartown, June 29. CONN.—Rowayton, Aug. 5, 1908.

**T. prasinus** Johnson, 21—13.

N. H.—Hampton, June 27 (*Shaw*).

MASS.—Plum Isl., July 17 (*Morse*); Chatham, June 30, 1904;  
Edgartown, June 29, 1912.

**T. viridifacies** Van Duzee, 24—102.

MASS.—Edgartown, June 29, 1912; East Gloucester, June 20,  
1924.

**Diostracus** Loew.

**D. prasinus** Loew.

VT.—Bolton Mt., July 15 (*Bryant*).

MASS.—Chester, Aug. 4.

**Hypocharassus** Mik.

**H. pruinosus** (Wheeler).

MASS.—Cohasset, July 5 (*Bryant*); Chatham, June 30; Woods  
Hole; Edgartown, June 29. R. I.—Buttonwoods, July 25.

**Medeterus** Fischer von Waldheim.

**M. maurus** Wheeler.

N. H.—Mt. Washington. VT.—Jay Peak, 4018 ft., July 14,  
1891 (*Morse*).

MASS.—Auburndale, June 16.

**M. modestus** Van Duzee, 14—440.

ME.—Bar Harbor, June 11. N. H.—Mt. Washington, July 7.  
VT.—Burlington, June 24.

MASS.—Auburndale, June 16.

**M. nigripes** Loew.

N. H.—Mt. Washington; Hampton, June 19 (*Shaw*).  
MASS.—Rutland, May 31.

**M. obscurus** Van Duzee.

N. H.—Hampton, Aug. 11, 1916 (*Shaw*).

**M. princeps** Wheeler.

N. H.—Hampton, July 22—Aug. 8 (*Shaw*).  
MASS.—Southbridge (*Bromley*). R. I.—Newport.

**M. veles** Loew.

N. H.—11.

MASS.—23, 27, 29. CONN.—35. May 30—Nov. 4.

**Thrypticus** Gerstaecker.

**T. muhlenbergiae** Johannsen and Crosby, 13—164.  
CONN.—Danbury, June 15.

**T. willistoni** Wheeler.

MASS.—Melrose, June 4.

**Hydrophorus** Fallen.**H. aestuans** Loew.

ME.—Mt. Desert, June 17—Sept. 13.

MASS.—Haggett's Station, Sept. 21 (*A. P. Morse*); Essex, July 11 (*Fuller*). R. I.—Newport (*Osten Sacken*).

**H. chrysologus** Walker.

ME.—1, 4, 7, 8. N. H.—11. July 15—Aug. 17.

MASS.—26, 27, 29, 32. R. I.—33. Apr. 25—Sept. 23.

**H. intentus** Aldrich, 11—51.

ME.—7, 8. N. H.—15. July 16—Aug. 13.

MASS.—26, 27, 28, 29, 31, 32. R. I.—33. CONN.—35. June 16—Sept. 8.

**H. parvus** Loew.

N. H.—11, 15. Apr. 17—May 5.

MASS.—25, 32. Apr. 1—Dec. 31.

**H. pirata** Loew.

ME.—1, 3, 6, 7, 8, 9. N. H.—11, 15. Apr. 20—Oct. 6.

MASS.—26, 27, 29. R. I.—33. CONN.—35. Mar. 31—Oct. 16.

NOTE.—*H. viridiflos* Walker, "Mass." (*Osten Sacken*) and *H. glaber* Walker, "Mt. Washington" (*Mrs. Slosson*), determined by Coquillett, I have been unable to identify from the descriptions.

**Scellus** Loew.**S. exustus** (Walker).

ME.—Orono, June 29—July 28. N. H.—Hampton, June 28, 1911 (*Shaw*). VT.—Shoreham, July 15, 1910 (*Cushman*).

*Orthoceratium* Schrank (*Liancalus* Loew).**O. genualis** (Loew).Vt.—Bolton Mt., Sept. 25, 1922 (*Bryant*).*Plagioneurus* Loew.**P. univittatus** Loew.

MASS.—Boston, Aug. 25, 1908, on window.

*Dolichopus* Latreille.**D. abbreviatus** Van Duzee, Cole and Aldrich, 21–144.ME.—*Machias*, July 21.**D. acuminatus** Loew.MASS.—*Natick*, June 23 (*Morse*). R. I.—Buttonwoods, June 15.**D. acutus** Van Duzee, Cole and Aldrich, 21–142.MASS.—*Springfield* (*Dimmock*).**D. adulitus** Van Duzee, Cole and Aldrich, 21–98.MASS.—*Framingham*, May 28 (*Frost*); Dedham, June 3.**D. agronomus** Melander and Brues.N. H.—Hampton, May 20–June 2 (*Shaw*).MASS.—New Bedford, June 8 (*Hough*); Woods Hole, June 19  
(*Sturtevant*).**D. albiciliatus** Loew.

ME.—8. N. H.—11. Vt.—21. June 13–July 4.

MASS.—23, 26, 27, 29. R. I.—33. June 15–Sept. 8.

**D. albicoxa** Aldrich.

ME.—9. N. H.—11, 12. Vt.—16, 18, 20. June 24–July 10.

MASS.—23, 25, 26, 29. R. I.—33. CONN.—35. June 10–Aug. 4.

**D. angustatus** Aldrich.

ME.—4, 7. N. H.—11, 12, 15. Vt.—22. June 24–July 28.

MASS.—29. June 15.

**D. batillifer** Loew.

N. H.—11. Vt.—19. June 28–Aug. 10.

MASS.—23, 25, 29. June 24–July 1.

**D. bifractus** Loew.

N. H.—11, 12, 15. Vt.—16. July 7–Aug. 21.

MASS.—23, 26, 27, 29. R. I.—33. June 15–Aug. 25.

**D. brevicauda** Van Duzee, Cole and Aldrich, 21–108.N. H.—*Mt. Washington*, 5000 ft., Aug. 16, 1916.**D. breviamanus** Loew.ME.—Eastport, July 14. N. H.—Franconia (*Mrs. Slosson*);  
Hampton, May 31 (*Shaw*). Vt.—Amsden, July 10.**D. calainus** Melander and Brues.

ME.—Bar Harbor, July 10, 1923.

**D. calcaratus** Aldrich.

ME.—7. N. H.—11, 14. VT.—16, 18, 20. June 23—July 12.  
MASS.—23, 27, 28, 29. CONN.—35. June 13—Aug. 4.

**D. canadensis** Van Duzee, Cole and Aldrich, 21—141.

VT.—Lyndon, June 13. -

MASS.—Arlington, June 9 (*Barber*).

**D. chrysostoma** Loew.

MASS.—*Beverly*, July 21, 1869 (*Burgess*); Mt. Everett, June 28.

**D. comatus** Loew.

ME.—7, 8. N. H.—11, 15. June 11—Oct. 20.

MASS.—27, 29, 30. R. I.—33. CONN.—35. June 5—Oct. 16.

**D. cuprinus** Wiedemann.

ME.—2, 4, 6, 7, 8. N. H.—11, 12, 15. VT.—16, 18, 22. June 30—Aug. 24.

MASS.—23, 26, 27. CONN.—35. June 22—Aug. 24.

**D. dakotensis** Aldrich.

VT.—Norwich, July 7, 1908.

**D. dasypodus** Coquillett, 10—41.

ME.—Machias, July 19. N. H.—Mt. Washington (*Mrs. Slosson*).

**D. deflectus** Van Duzee, Cole and Aldrich, 21—143.

ME.—Ft. Kent, Aug. 19.

MASS.—Brookline, Aug. 31. CONN.—

**D. detersus** Loew.

N. H.—Franconia (*Mrs. Slosson*); Hampton, Aug. 10 (*Shaw*).

MASS.—Revere, July 29 (*Morse*). CONN.—Winnipauk, June 16.

**D. discensus** Walker.

MASS.—“Massachusetts” (*Walker*). (Unrecognizable from description.)

**D. discifer** Stannin.

ME.—4, 5, 7, 8. N. H.—11. VT.—18, 21. June 24—Aug. 22.

MASS.—23, 29. June 16—July 1.

**D. discolor** Van Duzee, Cole and Aldrich, 21—116.

N. H.—Claremont, June 19. VT.—Chittenden, Aug. 1 (*Bequaerti*).

**D. dorycerus** Loew.

N. H.—White Mts.; Mt. Washington, 3000 ft., July 11; Bretton Woods and Glen House, June 25—30.

**D. eudactylus** Loew.

N. H.—13. June 19.

MASS.—23, 26, 28, 29. R. I.—33. CONN.—34. June 10—July 24.

**D. flagellitenens** Wheeler.

N. H.—White Mts. (*Morrison*).

**D. flavicoxa** Van Duzee, Cole and Aldrich, 21-188.  
VT.—Mt. Mansfield, 4000 ft., July 21, 1891 (*Morse*).

**D. flavidacertus** Van Duzee, Cole and Aldrich, 21-110.  
MASS.—*Fall River*, June 8, 1909 (*Easton*).

**D. fulvipes** Loew.

ME.—7, 8. N. H.—11, 14. June 23—July 28.  
MASS.—27. CONN.—35. May 29—June 28.

**D. genualis** Van Duzee, Cole and Aldrich, 21-119.

ME.—*Moosehead*, July 18; *Machias*, July 20.

**D. gratus** Loew.

N. H.—11, 15. May 21.  
MASS.—23, 27. CONN.—35. June 10—July 30.

**D. harbecki** Van Duzee, Cole and Aldrich, 21-233.

ME.—*Capens*, July 16. N. H.—Mt. Washington, July 21; *Franconia* (*Mrs. Slosson*).  
MASS.—*Mt. Greylock*, July 25.

**D. idoneus** Van Duzee, Cole and Aldrich, 21-140.

VT.—*Lyndon*, June 13, 1914 (*Melander*).

**D. incisuralis** Loew.

N. H.—*Franconia* (*Mrs. Slosson*).  
CONN.—

**D. incongruus** Wheeler.

N. H.—Mt. Monadnock, June 12; Jaffrey, July 4.  
MASS.—Bashbish Falls, June 27.

**D. indigena** Van Duzee, Cole and Aldrich, 21-139.

ME.—Mt. Desert, Aug. 18. N. H.—Hampton, Aug. 6 (*Shaw*).  
MASS.—New Bedford (*Hough*).

**D. johnsoni** Aldrich.

N. H.—Jaffrey, June 7.

**D. laticornis** Loew.

ME.—4. N. H.—15. May 16—July 21.  
MASS.—26, 27, 32. CONN.—35. May 17—June 3.

**D. latipes** Loew.

N. H.—*Franconia* (*Mrs. Slosson*).  
MASS.—Woods Hole.

**D. latipes** var. **cognatus** Melander and Brues.

MASS.—Woods Hole, July 19.

**D. lobatus** Loew.

ME.—Princeton, July 12.

**D. longimanus** Loew.

ME.—7, 8. N. H.—11, 12, 14. VT.—16, 20. June 24—Sept. 1.  
MASS.—23.

**D. marginatus** Aldrich.

ME.—7, 8. N. H.—15. July 27—Aug. 21.

MASS.—25, 26, 27, 29, 32. CONN.—35. June 17—Aug. 26.

**D. melanocerus** Loew.

ME.—4, 6, 7, 8, 9. N. H.—11. July 18—Aug. 17.

MASS.—27, 28, 32. CONN.—35. May 27—Aug. 24.

**D. nodipennis** Van Duzee, Cole and Aldrich, 21—102.

MASS.—Dedham, May 20; Framingham, May 28.

**D. obsoletus** Van Duzee, Cole and Aldrich, 21—121.ME.—Moosehead, July 18. N. H.—Franconia (*Mrs. Slosson*); Center Harbor, Sept. 10.**D. omnivagus** Van Duzee, Cole and Aldrich, 21—216.ME.—Bowlin Pond, Penobscot Co., July 31, 1910 (*Cushman*).**D. ornatipennis** Van Duzee, Cole and Aldrich, 21—132.

ME.—Bar Harbor, Aug. 18.

MASS.—Sharon, Aug. 9; Bridgewater, July 11 (*Cushman*); Wellesley, Aug. 17 (*Morse*); Yarmouth, July 17 (*Barber*). CONN.—New Haven, July 27.**D. ovata** Loew.ME.—Hampden, July 10. VT.—Winooski, Aug. 21 (*Davis*).

MASS.—

**D. pachycnemus** Loew.

N. H.—North Conway, June 26.

MASS.—Fall River, June 8 (*Easton*); Peru, June (*Barlow*).**D. palaesticus** Loew.

ME.—4, 6, 7. N. H.—11, 12, 14. VT.—16, 18, 21. June 6—July 22.

MASS.—23, 27. CONN.—35. June 15—Aug. 3.

**D. pantomimus** Melander and Brues.MASS.—New Bedford, May 30 (*Hough*).**D. penicillatus** Van Duzee, Cole and Aldrich, 21—227 (*D. ciliatus* Aldrich).ME.—Orono, July 31 (*Alexander*).**D. plumipes** (Scopoli).

ME.—Eastport, June 29—July 14; Mt. Desert, July 15.

**D. porphyrops** Van Duzee, Cole and Aldrich, 21—169.

ME.—5, 6, 7, 8. N. H.—11, 12, 13. VT.—18, 19, 22. June 13—Aug. 15.

MASS.—25, 26, 29. June 5—July 7.

**D. pugil** Loew.

ME.—7, 8. N. H.—15. July 11—27.

MASS.—26, 27, 28, 29, 31, 32. R. I.—33. June 17—Sept. 8.

**D. quadrilamellatus** Loew.

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Forest Hills, Boston. CONN.—Winnipauk, June 16.

**D. ramifer** Loew.

ME.—8. July 13.

MASS.—27, 28. R. I.—33. CONN.—35. June 10—Aug. 17.

**D. remipes** Wahlberg.

ME.—Bar Harbor, July, 1919, "Witchhole" and "Beaver Dam"  
Ponds, on water-lily pads.

**D. remus** Van Duzee, Cole and Aldrich, 21—96.

Vt.—Mt. Equinox, June 5.

**D. renidescens** Melander and Brues.

ME.—Eastport, July 17, 1909.

**D. scapularis** Loew.

N. H.—Franconia (*Mrs. Slosson*).

**D. scoparius** Loew.

ME.—4, 7, 8. N. H.—11, 14. Vt.—19, 21. June 14—Aug. 1.  
MASS.—23, 25, 26, 27, 28, 29, 31. R. I.—33. May 30—July 27.

**D. serratus** Van Duzee, Cole and Aldrich, 21—155.

ME.—Mt. Katahdin, 5215 ft., Aug. 19, 1902.

**D. setifer** Loew.

ME.—4, 8. N. H.—11, 14. June 18—Aug. 21.

MASS.—26, 27, 29, 31. R. I.—33. CONN.—35. May 19—July 27.

**D. setosus** Loew.

ME.—8. N. H.—15. Vt.—21. June 7—July 13.

MASS.—26, 28, 29. May 29—July 27.

**D. sincerus** Melander.

ME.—4, 7, 8. N. H.—11. July 16—26.

MASS.—26, 27, 28. CONN.—35. July 8—Aug. 2.

**D. sincerus** var. **subdirectus** Van Duzee, Cole and Aldrich, 21—  
118.

ME.—6, 9. N. H.—11. July 8.

MASS.—27, 28, 29 (*Woods Hole*). July 27—Aug. 2.

**D. slossonae** Van Duzee, Cole and Aldrich, 21—235.

ME.—*Eastport*, July 15; Mt. Desert, June 17. N. H.—*Franconia*  
(*Mrs. Slosson*). Vt.—*Mt. Ascutney*, July 11.

**D. socius** Loew.

ME.—7, 8. N. H.—15. Vt.—20, 21. June 22—July 17.

MASS.—28. June 10.

- D. socius** var. *gladius* Van Duzee, Cole and Aldrich, 21–136.  
 ME.—4, 7, 8. N. H.—11, 15. Vt.—16, 20, 21. June 16–  
 July 24.  
 MASS.—27, 28. CONN.—35. June 10–July 11.
- D. sorotes** Loew.  
 MASS.—Middleton, Aug. 27 (*Morse*).
- D. splendidulus** Loew.  
 ME.—Machias, July 21. N. H.—Bretton Woods, June 28;  
 Glen House, July 20. Vt.—Dummerston, July 14.
- D. splendidus** Loew.  
 N. H.—11, 12. July 8–23.  
 MASS.—23, 26, 32. June 15–Aug. 3.
- D. stenhammari** Zetterstedt.  
 N. H.—White Mts. (*Morrison*), U. S. Nat. Mus.
- D. tonsus** Loew.  
 MASS.—Woods Hole.
- D. trisetosus** Van Duzee, Cole and Aldrich, 21–122.  
 ME.—Monmouth, July 4.  
 MASS.—Beverly, June 4, 1869 (*Edw. Burgess*); Sherborn, May 30.
- D. variabilis** Loew.  
 ME.—4, 6, 7, 8. N. H.—11, 12, 13, 15. Vt.—19, 20, 22. July  
 6–Sept. 19.  
 MASS.—23, 26, 27, 32. CONN.—34, 35. July 12–Aug. 23.
- D. variabilis** var. *gracilis* Aldrich.  
 ME.—7, 8. July 22–30.  
 MASS.—23, 26, 27, 28. July 15–Oct. 9.
- D. versatus** Van Duzee, Cole and Aldrich, 21–253.  
 MASS.—Woods Hole, Sept. 25 (*Hough*); Fall River, June 17  
 (Easton); Manomet, July 27; Hyannisport, July 4.
- D. virga** Coquillett, 10–41.  
 ME.—Eastport, June 30.  
 MASS.—New Bedford, May 20 (*Hough*); Woods Hole; Province-  
 town, June 25.
- D. virginiensis** Van Duzee, Cole and Aldrich, 21–236.  
 MASS.—Bashbish Falls, June 27.
- D. vittatus** Loew.  
 VT.—17. July 12.  
 MASS.—23, 26, 27, 28, 31. CONN.—35. June 15–Aug. 23.
- D. wheeleri** Melander and Brues.  
 ME.—7, 8. N. H.—11. July 12–22.  
 MASS.—23, 29 (Woods Hole). July 13–Aug. 8.
- D. xanthocnemus** Loew.  
 N. H.—Mt. Washington (*Mrs. Slosson*); “Alpine Garden,” Aug.  
 16, 1916.

**Hercostomus** Loew.Subgenus *Gymnopternus* Loew.**H. albiceps** Loew.

ME.—Mt. Desert, June 10, 1921.

**H. barbatulus** Loew.

N. H.—11, 12, 15. VT.—16. May 26—July 28.

MASS.—32. CONN.—35. May 31—June 25.

**H. chalcochrus** Loew.

ME.—7, 8. N. H.—14, 15. VT.—21. June 3—July 22.

**H. coxalis** Loew.N. H.—Hampton, May 3—June 13, 1910 (*Shaw*).**H. crassicauda** Loew.

MASS.—Forest Hills; Auburndale, July 1—Aug. 9; Lexington, Aug. 19. CONN.—Danbury, June 15.

**H. debilis** Loew.N. H.—Hanover, July 6; Hampton, Aug. 7 (*Shaw*).MASS.—New Bedford, July 30 (*Hough*).**H. despicatus** Loew.

ME.—7. N. H.—11, 14, 15. June 5—July 21.

MASS.—CONN.—35. May 27.

**H. difficilis** Loew.MASS.—Blue Hill, May 30; Brookline, Aug. 23; Auburndale, Aug. 9; Fall River, June 3 (*Easton*).**H. exilis** Loew.

N. H.—15. July 31.

MASS.—26, 27, 32. CONN.—35. July 3—Aug. 30.

**H. fimbriatus** Loew.

VT.—Brattleboro, July 15, 1908.

**H. flavus** Loew.

MASS.—25, 27, 29. R. I.—33. CONN.—35. July 8—Aug. 25.

**H. frequens** Loew.

ME.—4, 7, 8. N. H.—11, 12, 14. VT.—16, 18, 20, 22. June 8—July 22.

MASS.—23, 26, 27, 28, 32. R. I.—33. June 6—Aug. 23.

**H. humilis** Loew.

ME.—4, 7. N. H.—11, 15. May 31—July 17.

MASS.—23. Aug. 7.

**H. laevigata** Loew.

ME.—7. N. H.—11, 15. VT.—22. June 10—July 28.

MASS.—23, 26, 27. R. I.—33. CONN.—35. May 10—June 23.

**H. mirificus** Melander.MASS.—(*Melander*).

**H. nigricoxa** Van Duzee, 24-103.

MASS.—Winchendon, July 5; Saxonville; Wellesley, July 8 (Morse).

**H. obtusicauda** Van Duzee, 24-103.

ME.—Machias, July 20, 1909.

**H. opacus** Loew.

ME.—10. N. H.—12. July 5-Aug. 6.

MASS.—27. R. I.—33. CONN.—35. July 5-Aug. 5.

**H. parvicornis** Loew.

MASS.—Brookline, Aug. 28; Chatham, July 1.

**H. phyllophorus** Loew.

ME.—7, 8. N. H.—11, 15. June 4-July 21.

MASS.—27, 28, 29, 32. May 31-Aug. 2.

**H. politus** Loew.

MASS.—Auburndale, Aug. 9; Tyngsboro, July 13 (*Fall*).

**H. scotias** Loew.

N. H.—Mt. Washington (*Mrs. Slosson*); Hampton, June 1 (*Shaw*). Vt.—Jay Peak, July 14 (Morse).

MASS.—New Bedford, May 24 (*Hough*).

**H. singularis** Van Duzee, 24-102.

R. I.—Kingston, July, 1906 (*Barlow*).

**H. spectabilis** Loew.

ME.—Mt. Desert, June 27.

MASS.—Blue Hill, Milton, May 30; Sandwich, June 19 (*Hitchens*).

**H. subdilatatus** Loew.

ME.—7, 8. N. H.—13. July 17-Sept. 11.

MASS.—23, 26, 27. June 6-Aug. 4.

**H. subulatus** Loew.

ME.—7, 8, 10. N. H.—11, 13, 15. July 14-Sept. 4.

MASS.—27. Aug. 5-23.

**H. tristis** Loew.

Vt.—Killington Peak, Aug. 14, 1916 (*Bequaert*).

MASS.—Ipswich, June 10 (*Fuller*).

**H. ventralis** Loew.

ME.—7. N. H.—12, 15. Vt.—22. July 3-21.

MASS.—26, 27, 28, 32. CONN.—35. June 15-Aug. 2.

**H. vernaculus** Van Duzee, 24-104.

ME.—Machias, July 22, 1909.

**H. violaceus** (Van Duzee), 21-123.

MASS.—Bridgewater, July 11 (*Cushman*).

Subgenus *Hercostomus* Loew.**H. unicolor** Loew.

ME.—Fort Kent, Aug. 19, 1910.

## Paracilius Loew.

**P. albinotatus** Loew.

VT.—Norwich, July 7, 1908.

**P. claviculatus** Loew.

MASS.—New Bedford. CONN.—.

**P. hybridus** Melander.

ME.—Orr's Island, July 25.

MASS.—Woods Hole, July 14–27 (*Melander*); Chatham, July 1; Edgartown, June 29. CONN.—Woodmont, July 9 (*Butrick*).**P. propinquus** Wheeler.MASS.—Woods Hole, July 14–27 (*Melander*).**P. vicinus** Aldrich, 1904–277.

ME.—7, 8, 10. July 17–27.

MASS.—31, 32. CONN.—35. June 29–July 27.

## Tachytrechus Loew.

**T. binodatus** Loew.

VT.—Bennington, June 24, 1915.

**T. moechus** Loew.N. H.—Franconia (*Mrs. Slosson*).MASS.—Southbridge (*Bromley*).**T. vorax** Loew.

ME.—6. N. H.—11, 12. VT.—20. July 8.

MASS.—23, 27, 29, 31. June 13–Sept. 29.

## Pelastoneurus Loew.

**P. abbreviatus** Loew.N. H.—Hampton, Aug. 8–20 (*Shaw*).MASS.—Somerville, Aug. 13 (*Barber*). CONN.—Woodmont, July 9 (*Butrick*).**P. cristatus** Van Duzee, 1924–105.N. H.—Hampton, Aug. 8, 1923 (*Shaw*).

MASS.—Eastham, June 27, 1904.

**P. lamellatus** Loew.

ME.—7, 8, 10. N. H.—15. June 9–Sept. 12.

MASS.—26, 28, 29, 31. CONN.—35. June 20–Sept. 8.

**P. lugubris** Loew.VT.—Woodstock, Aug. 26, 1898 (*Morse*).

MASS.—.

**P. neglectus** Wheeler.N. H.—Hampton, Aug. 15, 1908 (*Shaw*).

**P. vagans** Loew.

ME.—8. N. H.—11, 15. July 15—Sept. 13.  
 MASS.—26, 27. CONN.—35. Aug. 4—Sept. 23.

## EMPIDIDAE. .

Stilpon Loew.

**S. pectiniger** Melander.

MASS.—New Bedford.

**S. varipes** Loew.MASS.—New Bedford, May 24, 1886 (*Hough*).

## Eudrapetis Melander, 18—187.

**E. armata** (Melander), 18—197.

ME.—Ft. Kent, Aug. 17.

MASS.—.

**E. gilvipes** (Loew).

ME.—Mt. Desert.

MASS.—Dartmouth, Mar. 5, 1910 (*Easton*). CONN.—New Haven, Nov. 4, 1903 (*Viereck*).**E. parvicornis** (Melander), 18—202.

ME.—Ft. Kent, Aug. 17; Mt. Desert, June 9.

MASS.—Hyannisport, July 4; Barnstable, July 5.

**E. spectabilis** (Melander).

ME.—9. July 27.

MASS.—26, 28, 29. R. I.—33. July 22—Sept. 8.

## Drapetis Meigen.

**D. aliternigra** Melander, 18—192 (*D. nigra* Melander, 1902, not Meigen, 1830).

MASS.—Forest Hills, Boston (*Melander*).**D. pubescens** Loew.MASS.—Petersham (*Melander*).

## Platypalpus Macquart.

**P. aequalis** Loew.

ME.—1, 6, 8. N. H.—11, 14, 15. VT.—16. June 28—Sept. 1.

MASS.—29. CONN.—35. June 17—July 25.

**P. apicalis** Loew.

N. H.—White Mts.

MASS.—Chester, Aug. 28; Woods Hole (*Melander*).

**P. coquillettii** Melander, 24—83 (*P. trivialis* Melander, not Loew).

MASS.—New Bedford, June 12 (*Hough*).**P. crassifemoris** (Fitch).

ME.—8. N. H.—11, 15. VT.—21. July 14—26.

MASS.—23. Aug. 7.

**P. cuneipennis** Melander, 24-83.

Vt.—*Lyndon*, June 13, 1914 (*Melander*).

**P. debilis** Loew.

MASS.—Boston (*Melander*).

**P. flammifer** Melander, 24-84.

N. H.—Hanover. Vt.—Hartland, May (*P. W. Whiting*); *Lyndon* (*Melander*).

**P. flavirostris** Loew.

ME.—3, 4, 7, 8. N. H.—11. July 14—Aug. 31.

MASS.—23. Aug. 7.

**P. harpiger** Melander, 24-84.

MASS.—*Boston*, June, 1914 (*Melander*).

**P. hians** Melander.

ME.—Capens, July 21.

**P. hians** var. *fuscohalteratus* Melander, 24-85.

ME.—Capens, July 21.

**P. holosericus** Melander, 24-85.

MASS.—*Forest Hills*, Boston, July (*Brues*).

**P. laetus** Loew.

N. H.—White Mts. (*Osten Sacken*).

**P. lateralis** Loew.

ME.—Capens, July 21. N. H.—Franconia and Mt. Washington (*Mrs. Slosson*).

MASS.—Blue Hill, Milton, June 6.

**P. pectinator** Melander, 24-85.

MASS.—*Chester*, July 7.

**P. porrectus** Melander, 24-86.

ME.—Capens, July 18.

**P. sutor** Melander var., 24-87.

MASS.—*Chester*, May 28.

**P. trivialis** Loew.

ME.—*Ft. Kent*, Aug. 17. N. H.—“White Mts.” Vt.—Hartland (*Melander*).

MASS.—North Reading, June 10. CONN.—Middletown, June 17.

**P. versutus** Melander, 24-87.

Vt.—*Mt. Equinox*, June 4.

**Trachypeza** Meigen (*Trachydromia* Meigen, in part).

**T. brachialis** Melander.

N. H.—Franconia (*Mrs. Slosson*).

**T. fenestrata** Say.

ME.—Capens, July 20. N. H.—Franconia (*Mrs. Slosson*).

**T. rapax** Loew.

N. H.—White Mts.; Hampton, May 12 (*Shaw*).  
MASS.—

**T. rostrata** Loew.

ME.—7, 8. N. H.—11, 14, 15. June 21—Sept. 5.  
MASS.—26, 27, 29. R. I.—33. CONN.—35. June 11—Sept. 3.

**T. similis** Walker.

N. H.—White Mts.

**T. winthemi** Zetterstedt.

N. H.—Mt. Washington, 4000 ft.

**Trachydromia** Meigen.**T. enecator** (Melander).

ME.—Bridgton, July 15 (*Miss Martin*).

**T. maculipennis** (Walker) (*T. pusilla* Loew).

N. H.—11, 14. VT.—21. June 6—14.

MASS.—24, 27, 32. CONN.—35. May 12—June 4.

**T. varipennis** Coquillett (*T. schwarzii* Aldrich, Catl., not Coquillett).

N. H.—Franconia, July (*Mrs. Slosson*).

**Chersodromia** Walker (*Chrysodromia* Melander, 06—370).**C. houghii** (Melander).

MASS.—New Bedford, June; Horse Neck Beach, Aug. (*Hough*); Woods Hole (*Melander*); Chatham, June 30.

**Coloboneura** Melander.**C. inusitata** Melander.

MASS.—Ipswich Beach; Gloucester; Chatham; Woods Hole.  
R. I.—Buttonwoods, June 17—Sept. 7.

**Chelipoda** Macquart (*Litanomyia* Melander).**C. elongata** (Melander).

ME.—1, 8. N. H.—11, 14. June 25—Aug. 19.

MASS.—27, 29. CONN.—35. June 23—Aug. 2.

**C. albisetosa** (Zetterstedt).

MASS.—Southbridge, July 8—13.

**Hemerodromia** Meigen.**H. albipes** Walker.

N. H.—Franconia (*Mrs. Slosson*).

**H. deflecta** Loew.

MASS.—Hyannisport, July 4. CONN.—New Haven, June 23 (*Viereck*).

**H. capta** Coquillett.

ME.—Moosehead, July 18, 1907.

**H. empiformis** Say.

ME.—Ft. Kent, Aug. 17.

MASS.—Woods Hole, July 25. CONN.—New Haven, June 23  
(Viereck); Middletown, June 17.**H. notata** Loew.ME.—Mt. Desert, July 16. N. H.—Franconia (*Mrs. Slosson*);  
Mt. Washington, 3000 ft., Aug. 16.**H. palloris** Coquillett.

ME.—1, 4, 8. N. H.—11. VT.—16. June 20—Aug. 19.

MASS.—23, 27. May 26—Sept. 4.

**H. rogatoris** Coquillett.

ME.—Ft. Kent, Aug. 17; Ashland, June, Aug. 16, 1910.

**H. obsoleta** Loew.MASS.—Blue Hill, Milton, June 6; Boston (*Melander*).**H. scapularis** Loew.

ME.—1, 8. N. H.—11, 12. June 10—Aug. 17.

MASS.—23, 26, 27. CONN.—35. June 6—Sept. 12.

**Ardoptera** Macquart.**A. irrorata** (Fallen).N. H.—Mt. Washington, 3000 ft., July 16, 1915. VT.—Bolton  
Mt., Aug. 30 (*Bryant*).**Roederiodes** Coquillett.**R. juncta** Coquillett.

N. H.—Glen House, base of Mt. Washington, June 17.

**Clinocera** Meigen.**C. conjuncta** Loew.

ME.—8. N. H.—11, 14. VT.—17. June 17—Aug. 30.

MASS.—23. Aug. 12.

**C. fuscipennis** Loew.N. H.—White Mts. (*Osten Sacken*).**C. lineata** Loew.ME.—Ft. Kent, Aug. 19. N. H.—Jaffrey, March 24, 1917  
(*Mrs. C. W. Johnson*).CONN.—New Haven, Oct. 21 (*Viereck*).**C. maculata** Loew.ME.—Ft. Kent, Aug. 19. VT.—Bolton Mt., Aug. 26 (*Bryant*).MASS.—Purgatory Swamp, Norwood, Sept. 4; Dedham (*Me-  
lander*).**C. taos** Melander.N. H.—Franconia (*Mrs. Slosson*).**C. hamifera** Melander, Genera Insectorum, in press.

ME.—Moosehead, July 18.

**C. ctenistes** Melander, Genera Insectorum, in press.  
N. H.—Hanover (Mink Brook), July 6.

**Syneches** Walker.

**S. albonotatus** Loew.

MASS.—Woods Hole (*Melander*).

**S. rufus** Loew.

ME.—6. N. H.—15. VT.—16. July 4—Aug. 9.  
MASS.—24, 25, 27. CONN.—35. June 5—Aug. 31.

**S. simplex** Walker.

ME.—6, 8. N. H.—14, 15. VT.—16. June 22—Aug. 9.  
MASS.—23, 25, 26, 27, 29, 30. CONN.—35. June 30—Aug. 30.

**S. thoracicus** Say.

ME.—6, 9. N. H.—11. VT.—16, 21, 22. June 24—July 15.  
MASS.—23, 27. July 23—Aug. 4.

**Syndyas** Loew.

**S. dorsalis** Loew.

ME.—Orono, June 5 (*Alexander*). N. H.—Franconia (*Mrs. Slosson*). VT.—Woodstock, July 25 (*Morse*).  
MASS.—Lexington, July 6 (*Barber*).

**S. polita** Loew.

ME.—8. N. H.—14. July 12.  
MASS.—27, 29. R. I.—33. CONN.—35. June 21—Sept. 6.

**Euhybos** Coquillett.

**E. electus** Melander.

MASS.—New Bedford. CONN.—Stony Creek, July 27 (*Viereck*).

**E. subjectus** Walker.

MASS.—Woods Hole (*Melander*); Hyannisport, July 4. R. I.—Buttonwoods, June 12.

**E. triplex** Walker.

ME.—1, 3, 7, 8, 9. N. H.—11, 12, 15. VT.—16, 18, 20, 21.  
June 5—Aug. 19.  
MASS.—26, 27, 28, 32. R. I.—33. CONN.—35. May 24—  
June 15.

**E. nigripes** Melander.

VT.—Lyndon (*Melander*).

MASS.—New Bedford (*Melander*); Chester, May 28; Essex Co.,  
June 30 (*Morse*).

**Hybos** Meigen.

**H. reversus** Walker.

ME.—Ft. Kent, Aug. 17. N. H.—White Mts.; Alstead, Aug. 9  
(*Morse*).

MASS.—Woods Hole (*Melander*).

**H. slossonae** Coquillett.

ME.—4, 6, 8, 9, 10. N. H.—11, 15. July 8—July 17.  
 MASS.—23, 27, 29. R. I.—33. CONN.—35. June 28—Sept. 25.

**Oedalea** Meigen.**Oe. ohioensis** Melander.

ME.—Mt. Desert, June 17. N. H.—Bretton Woods, June 26.  
 MASS.—Blue Hill, Milton, May 30.

**Oe. pruinosa** Coquillett.

N. H.—Franconia (*Mrs. Slosson*).

**Leptopeza** Macquart.**L. compta** Coquillett.

ME.—7, 8. N. H.—11, 14, 15. VT.—16, 21. June 9—July 22.  
 MASS.—23, 27. CONN.—35. May 30—Aug. 8.

**L. flavipes** (Meigen).

ME.—4, 6, 8, 9. N. H.—11. June 26—July 20.  
 MASS.—23, 27, 29. May 22—26.

**Ocydromia** Meigen.**O. glabricula** (Fallen).

ME.—2, 8, 10. N. H.—11. VT.—21. June 4—Aug. 16.  
 MASS.—23, 27. May 27—Sept. 6.

**Empis** Linné.**E. cormus** Walker.

ME.—Orono, May 1 (*Parshley*). N. H.—Mt. Washington, 4000 ft., June 13; Glen House, June 18.

**E. distans** Loew.

N. H.—Hampton, June 28 (*Shaw*).

MASS.—Auburndale. R. I.—Buttonwoods, June 18. CONN.—New Haven, June 3 (*Britton*); Danbury, June 15.

**E. laevigata** Loew.

N. H.—Franconia (*Mrs. Slosson*); Mt. Washington, 4000 ft., July 8; Glen House, June 14.

**E. longipes** Loew.

VT.—Mt. Equinox and Manchester, June 5—6.

**E. nuda** Loew.

ME.—Mt. Desert, June 27.

**E. obesa** Loew.

N. H.—Franconia (*Mrs. Slosson*); Mt. Washington, 5000 ft., Aug. 16; Passaconaway, Sept. 12 (*Cushman*).

MASS.—

**E. otiosa** Coquillett.

ME.—9. N. H.—11, 15. May 20—June 12.

MASS.—23, 26, 27, 28. CONN.—35. May 1—June 10.

**E. pallida** Loew.

N. H.—Bretton Woods, June 25. Vt.—Burlington, June 23.  
MASS.—Chester, May 26; North Adams, June 18.

**E. poeciloptera** Loew.

Vt.—Burlington, June 24; St. Johnsbury, June 28; Manchester,  
June 6.  
MASS.—North Adams, June 18. CONN.—Darien, June 11.

**E. rufescens** Loew.

ME.—4, 6, 7, 8. N. H.—11, 14, 15. Vt.—16, 20. June 14—  
July 22.  
MASS.—23, 24, 26, 27. June 4—27.

**E. scoparia** Coquillett.

N. H.—Franconia (*Mrs. Slosson*).

**E. sordida** Loew.

N. H.—Franconia (*Mrs. Slosson*).  
CONN.—South Meriden, May 31 (*H. L. Johnson*).

**E. spectabilis** Loew.

CONN.—Lyme, May 1, 1910 (*Champlain*).

**E. stenoptera** Loew.

N. H.—White Mts. Vt.—Lyndon (*Melander*).

**E. terfa** Coquillett.

MASS.—Auburndale, May 14—28.

**E. tridentata** Coquillett.

N. H.—Hampton, July 12 (*Shaw*).  
MASS.—Bridgewater; Cohasset; Manomet and Durfee, July 4—27.  
CONN.—New Haven, June 10.

**E. varipes** Loew.

N. H.—Franconia and Mt. Washington (*Mrs. Slosson*); Inter-  
vale, Aug. 23 (*G. M. Allen*); Glen House, Aug. 27.  
MASS.—Chester, Aug. 4, 1911.

**Hilara** Meigen.**H. atra** Loew.

N. H.—Franconia.

MASS.—Woods Hole (*Melander*)

**H. aurata** Coquillett.

ME.—Eastport, July 1, 1870 (*Burgess*).

**H. bella** Melander.

MASS.—New Bedford.

**H. carbonaria** Melander.

MASS.—New Bedford, June 12.

**H. femorata** Loew.

ME.—Bar Harbor, June 8, 1915. N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Blue Hill, Milton; Chester, May 26.

**H. gracilis** Loew.

ME.—Mt. Desert, July 30—Aug. 17. N. H.—Mt. Washington (*Mrs. Slosson*); Glen House, June 11.

MASS.—Auburndale, Aug. 16.

**H. leucoptera** Loew.

ME.—Mt. Desert, June 10, 1920. N. H.—Hampton, June 4 (*Shaw*).

MASS.—Woods Hole (*Melandier*); Provincetown, June 24.

CONN.—New Haven, May 25—June 23.

**H. lutea** Loew.

MASS.—Blue Hill, Milton, May 30. R. I.—Kingston, June 19 (*Barlow*).

**H. macroptera** Loew.

N. H.—Franconia (*Mrs. Slosson*).

**H. mutabilis** Loew.

N. H.—Jaffrey, June 4.

R. I.—Kingston, June 4 (*Barlow*). CONN.—New Haven, June 23 (*Viereck*).

**H. seriata** Loew.

N. H.—White Mts.

**H. testacea** Loew.

N. H.—White Mts.

MASS.—Blue Hill, Milton, June 6. R. I.—Kingston, June 5—16 (*Barlow*).

**H. tristis** Loew.

ME.—3, 4, 7, 8. N. H.—11, 15. June 12—Aug. 17.

MASS.—23, 27, 32. May 28—June 18.

**H. trivittata** Loew.

N. H.—Mt. Washington (*Mrs. Slosson*).

CONN.—

**H. umbrosa** Loew.

N. H.—11, 15. June 11.

MASS.—27, 29, 32. R. I.—33. CONN.—34, 35. May 26—July 27.

**H. unicolor** Loew.

MASS.—Chester, May 28; Concord, July 14 (*Barber*).

**H. velutina** Loew.

CONN.—New Haven, July 13 (*Britton*).

*Oreogeton* Schiner.*O. obscura* Loew.ME.—7, 8. N. H.—11, 14. Vt.—21. June 5—July 26.  
MASS.—23, 24. May 26—June 27.*O. rufa* Loew.ME.—Machias, July 26; Mt. Desert, June 10—July 16. N. H.—  
Mt. Washington, July 8—14; Mt. Monadnock, June 12.  
MASS.—Bashbish Falls, June 27.*Iteaphila* Zetterstedt.*I. macquartii* Zetterstedt.N. H.—Mt. Washington, 4000 ft., June 13, 1916.  
MASS.—Winchendon, May 11, 1904 (*Russell*).*Hormopeza* Zetterstedt.*H. brevicornis* Loew.N. H.—Mt. Washington (*Mrs. Slosson*).*Euthyneura* Macquart.*E. bucinator* Melander.

N. H.—Bretton Woods, June 28.

*Anthalia* Zetterstedt.*A. bulbosa* Melander.N. H.—Franconia (*Mrs. Slosson*).*A. flava* Coquillett.ME.—Monmouth, June 27 (*Frost*). N. H.—Franconia and Mt.  
Washington (*Mrs. Slosson*).*A. gilvihirta* (Coquillett).N. H.—Franconia (*Mrs. Slosson*).*A. schönherri* Zetterstedt.

MASS.—Mt. Greylock, June 15.

*Trichina* Meigen.*T. flavipes* Meigen.ME.—Mt. Desert, July 13—17. N. H.—Milford, June 23.  
MASS.—Chester, May 28.*T. nura* (Melander).ME.—Mt. Katahdin (*Melander*).MASS.—Woods Hole (*Melander*).*Microphorus* Macquart.*M. atratus* Coquillett.ME.—Mt. Desert, June 10—July 19. N. H.—Glen House, June  
11; Jaffrey, June 20.*M. obscurus* Coquillett.N. H.—Franconia (*Mrs. Slosson*).

*Cyrtoma* Meigen.**C. femorata** Loew.

N. H.—White Mts.; Mt. Washington (*Mrs. Slosson*).  
MASS.—Boston, Aug. 13; Manomet, July 17.

**C. halteralis** Loew.

N. H.—Franconia (*Mrs. Slosson*). Vt.—Lyndon (*Melander*).  
MASS.—Boston (*Melander*); Auburndale.

**C. longipes** Loew.

N. H.—Mt. Washington (*Mrs. Slosson*); Jaffrey, June 22.  
MASS.—Woods Hole (*Melander*); Auburndale, July 13. R. I.—  
Cumberland, July 3.

**C. pilipes** Loew.

ME.—3, 4, 6, 7, 10. N. H.—11, 13. Vt.—16, 18. July 8—  
Sept. 10.  
MASS.—26, 27, 31. R. I.—33. June 28—July 6.

**C. spuria** Fallen.

MASS.—Woods Hole (*Melander*).

*Rhamphomyia* Meigen.**R. amplipedis** Coquillett.

ME.—Mt. Desert, June 13—20.  
MASS.—New Bedford (*Hough*); Rutland, June 5.

**R. angustipennis** Loew.

N. H.—Franconia and Mt. Washington (*Mrs. Slosson*).  
MASS.—Auburndale, May 14. CONN.—Meriden, June 3.

**R. americana** Wiedemann.

ME.—Southwest Harbor, June 24. N. H.—Hampton, June 8  
(*Shaw*).

**R. aperta** Loew.

ME.—Waterville, May 11 (*Hitchings*).  
MASS.—Wellesley, April 13 (*Morse*). CONN.—South Meriden,  
Apr. 15 (*H. L. Johnson*).

**R. arcuata** Coquillett.

ME.—Mt. Desert, Sept. 8.  
MASS.—.

**R. avida** Coquillett.

ME.—Waterville, May 1. N. H.—Hampton, Apr. 15—29.  
MASS.—.

**R. basalis** Loew.

ME.—6, 7, 8, 9. N. H.—11, 14. Vt.—18. June 8—July 12.  
MASS.—23. June 27.

- R. brevis** Loew.  
ME.—Waterville, May (*Hitchings*). N. H.—Hampton, May 12 (*Shaw*).  
MASS.—Essex, May 9 (*Fuller*); Wellesley, Apr. 26 (*Morse*).  
CONN.—New Haven, May 7–12 (*Viereck*).
- R. candicans** Loew.  
ME.—4, 6, 7, 8, 10. N. H.—11, 14, 15. VT.—21. June 5–July 26.  
MASS.—23. R. I.—33. CONN.—35. May 26–June 14.
- R. ciliata** Coquillett.  
N. H.—“New Hampshire.”
- R. clauda** Coquillett.  
N. H.—Mt. Washington (*Mrs. Slosson*).
- R. compta** Coquillett.  
N. H.—Hampton, June 8–16.  
MASS.—New Bedford.
- R. debilis** Loew.  
ME.—Mt. Desert, July 16. N. H.—Franconia (*Mrs. Slosson*); Mt. Washington, 4000 ft., July 4; Glen House, June 12; Hampton (*Shaw*).
- R. dimidiata** Loew.  
N. H.—White Mts.; Franconia (*Mrs. Slosson*).  
MASS.—
- R. effera** Coquillett.  
MASS.— R. I.—Kingston, Apr. 29 (*Barlow*).
- R. exigua** Loew.  
MASS.—New Bedford.
- R. expulsa** Walker.  
N. H.—Mt. Washington (*Mrs. Slosson*).
- R. fumosa** Loew.  
CONN.—
- R. glabra** Loew.  
CONN.—New Haven, June 16 (*B. H. Walden*).
- R. gilvipes** Loew.  
ME.—Mt. Desert, June 15–July 12. N. H.—Mt. Washington (*Mrs. Slosson*).  
CONN.—Poquonock, May 22.
- R. gracilis** Loew.  
ME.—1, 2, 8. N. H.—11, 15. July 26–Aug. 19.  
MASS.—23, 27, 28. Aug. 5–Sept. 6.
- R. hirtipes** Loew.  
N. H.—White Mts.

**R. impedita** Loew.

R. I.—Kingston, May 5.

**R. irregularis** Loew.

ME.—8. N. H.—11, 15. VT.—21. May 25—June 26.

MASS.—23, 27, 32. CONN.—35. May 9—June 15.

**R. liturata** Loew.

ME.—Bar Harbor, June 8. N. H.—Glen House, June 11.

MASS.—Chester, May 26; Auburndale, May 22.

**R. longicauda** Loew.

MASS.—Bashbish Falls, June 27. CONN.—Middletown, June 17; South Meriden, June 30.

**R. longipennis** Loew.

N. H.—Mt. Washington (*Mrs. Slosson*).

**R. luctifera** Loew.

N. H.—Hampton, June 8 (*Shaw*).

**R. luteiventris** Loew.

ME.—Mt. Desert, June 8—27. N. H.—White Mts.; Glen House, June 18

MASS.—Essex Co. (*Morse*). R. I.—Apponaug, June 22. CONN.—Branford, June 8.

**R. macilenta** Loew.

ME.—N. H.—White Mts.; Franconia (*Mrs. Slosson*).

**R. manca** Coquillett.

ME.—7, 8. July 12—21.

MASS.—27, 29. R. I.—33. CONN.—35. May 26—July 4.

**R. minytus** Walker.

N. H.—Jaffrey, June 4; Glen House, June 11.

MASS.—Wellesley, May 18 (*Morse*); Franklin, May 30 (*Barber*).

R. I.—Kingston, May 16—19 (*Barlow*).

**R. mutabilis** Loew.

ME.—7, 8, 9. N. H.—11, 15. June 16—July 15.

MASS.—23, 27. CONN.—35. May 26—July 2.

**R. nana** Loew.

N. H.—Hampton, May 14 (*Shaw*).

CONN.—Middletown, June 17; New Haven, July 4.

**R. nigricans** Loew.

ME.—Waterville, May 11 (*Hitchings*). N. H.—White Mts.; Mt. Washington (*Mrs. Slosson*).

**R. parva** Coquillett.

MASS.—

**R. phemius** Walker.

MASS.—Chester, May 28.

**R. priapulus** Loew.

ME.—Mt. Desert, June 13—July 10. N. H.—Hampton, May 17 (*Shaw*).

MASS.—Billerica, Aug. 27. R. I.—Kingston, May 16 (*Barlow*).

**R. pulchra** Loew.

ME.—Bridgton, June 15.

MASS.—Manomet, July 27; Woods Hole, July 24; Saxonville (*Morse*).

**R. pulla** Loew.

ME.—8. N. H.—11, 15. May 21—July 16.

MASS.—23, 26, 27, 28, 32. CONN.—34, 35. May 26—July 6.

**R. pusio** Loew.

N. H.—Jaffrey, June 9; Hampton, May 12 (*Shaw*).

MASS.—New Bedford. R. I.—Kingston, May 13 (*Barlow*).

CONN.—New Haven, May 10.

**R. rustica** Loew.

ME.—Mt. Desert, Aug. 18—21. N. H.—White Mts.; Mt. Washington (*Mrs. Slosson*).

**R. scolopacea** Say.

R. I.—Cumberland, July 3. CONN.—Stafford, Aug. 24.

**R. setosa** Coquillett.

N. H.—Mt. Washington (*Mrs. Slosson*).

**R. soccata** Loew.

MASS.—New Bedford.

**R. sordida** Loew.

R. I.—Kingston, May 21 (*Barlow*).

**R. terfa** Coquillett.

ME.—Mt. Desert, June 24. N. H.—“*New Hampshire*”; Hampton, May 17 (*Shaw*).

**R. umbilicata** Loew.

ME.—Orr’s Isl., July 21. N. H.—Franconia (*Mrs. Slosson*).

MASS.—Dedham, Sept. 4; Petersham, Sept. 3 (*G. C. Wheeler*).

CONN.—Bear Mt., Aug. 22.

**R. umbrosa** Loew.

ME.—8. N. H.—11, 14. VT.—21. June 10—July 9.

MASS.—23. June 15.

**R. valga** Coquillett.

ME.—Bar Harbor, June 7. N. H.—“*New Hampshire*”; Hampton, May 19 (*Shaw*).

**R. vara** Loew.

ME.—Southwest Harbor, June 20—25.

MASS.—Wakefield, May 18 (*Barber*); Essex Co. (*Morse*).

**R. virgata** Coquillett.

ME.—Southwest Harbor, June 21.

MASS.—Blue Hill, Milton, May 30; Auburndale, May 22; Danvers, June 5.

## LONCHOPTERIDAE.

## Lonchoptera Meigen.

**L. furcata** Fallen (*L. lutea* of authors, not Panzer).

ME.—4, 6, 8. N. H.—12, 15. VT.—22. June 30—Aug. 17.

MASS.—23, 27, 30, 32. R. I.—33. CONN.—35. May 9—Nov. 11.

**L. furcata** var. *lacustria* Meigen.

ME.—8. N. H.—15. July 13—Aug. 1.

MASS.—23, 27, 28. R. I.—32. CONN.—35. May 15—Nov. 4.

## PHORIDAE.

## Trupheoneura Malloch, 09-27.

**T. fratercula** (Brues).N. H.—Hampton, Mar. 25 and Dec. 13 (*Shaw*).**T. microcephala** Loew.ME.—Woodland, Dec. 1, 1917, on snow (*O. O. Nylander*). See Brues, 24-92.**T. subfuscata** Malloch, 12-422.MASS.—Cambridge, Apr. 4, 1870; Fall River, Mar. 27, 1905 (*N. S. Easton*).**T. pachyneura** Loew.

MASS.—Boston, Apr. 27, 1923.

**T. vitrinervis** Malloch, 12-419.N. H.—“White Mts.” (*Morrison*), U. S. Nat. Mus.

## Chaetoneurophora Malloch, 12-422.

**C. aureiventris** Brues, 13-90.N. H.—Hampton, May 16, 1906 (*Shaw*).MASS.—Auburndale (“Riverside”), May 20, 1905. R. I.—Kingston, May 7, 1905 (*Barlow*).**C. curvinervis** (Becker), 01-33.ME.—Mt. Desert, July 13. N. H.—Hampton, May 5, 1907 (*Shaw*).**C. luggeri** (Aldrich).N. H.—Franconia (*Mrs. Slosson*).MASS.—New Bedford (*Hough*). R. I.—Kingston, May (*Barlow*). CONN.—Georgetown, Aug. 23, 1910.**C. spinipes** (Coquillett).N. H.—Hampton, Apr. 7 (*Shaw*).MASS.—Boston, Forest Hills, Apr. 7 (*Reiff*). CONN.—Hartford.

**C. thoracica** (Meigen).N. H.—Franconia (*Mrs. Slosson*).**Paraspiniphora** Malloch, 12–425.**P. multiseriata** (Aldrich).MASS.—Chester, Aug. 5, 1911; Sharon, Aug. 3, 1909. CONN.—Branford, Aug. 22, 1904 (*Winkley*).**P. slossonae** Malloch, 12–428.N. H.—Mt. Washington (*Mrs. Slosson*).**P. spinosissima** Strobl.

MASS.—Chester, May 26, 1912.

**Dohrniphora** Dahl.**D. concinna** (Meigen) (*Phora cimbicis* Aldrich; *P. nitidifrons* Brues).

ME.—1. Vt.—19. Aug. 17–27.

MASS.—23, 26, 27, 29, 32. CONN.—35. July 9–Oct. 16.

**D. venusta** (Coquillett).

MASS.—Boston, Sept., 1868 (U. S. Nat. Mus.); Brookline, July 20.

**Hypocera** Lioy.**H. clavata** Loew.

ME.—3, 9. N. H.—15. Apr. 14–Aug. 18.

MASS.—23, 26, 27, 32. R. I.—33. Apr. 3–Aug. 2.

**H. ehrmanni** Aldrich.N. H.—Hampton, Apr. 19, 1912 (*Shaw*).**H. femorata** (Meigen).

ME.—3, 8. N. H.—11, 14, 15. May 8–Aug. 11.

MASS.—26, 29, 32. R. I.—33. May 30–Aug. 2.

**H. johnsoni** Brues.MASS.—Cohasset, Sept. 9 (*Bryant*).**H. flavimana** (Meigen).

MASS.—Hyannisport, July 4, 1904. R. I.—Buttonwoods, June 20, 1912.

**Beckerina** Malloch, 10–90.**B. orphnephiloides** Malloch, 12–441.

MASS.—Mt. Tom, Sept. 22.

**Phalacrotophora** Enderlein, 12–21.**P. longifrons** Brues.

R. I.—Buttonwoods, June 12, 1912.

**P. epeirae** (Brues).

ME.—Princeton, July 12; Mt. Desert, July 12. N. H.—Mt. Washington. Vt.—Burlington, June 19.

MASS.—Auburndale, July 11. CONN.—Rowayton, June 16.

*Platyphora* Verrall.

**P. eurynota** Brues, 14-77.

MASS.—Forest Hills, Boston, May 30, 1910 (*Mrs. C. T. Brues*).

**Megaselida** Rondani, 1856 (*Aphiochaeta* Brues, 1904).

**M. anomala** (Malloch), 12-484.

N. H.—Mt. Washington (*Mrs. Slosson*).

**M. agarici** (Lintner).

MASS.—Newton, Sept. 8, 1910. Bred from mushrooms.

**M. approximata** Malloch, 12-483.

CONN.—New Haven, Nov. 4 (*Viereck*).

**M. atlantica** (Brues).

MASS.—Woods Hole.

**M. cata** (Melander and Brues).

MASS.—Woods Hole.

**M. cavernicola** (Brues).

MASS.—Chester, May 28, 1912.

**M. ciliata** (Zetterstedt).

ME.—Bar Harbor, July 12, 1921.

MASS.—Chester, May 26.

**M. difficilis** (Malloch).

MASS.—Beverly, June-Aug. (*Burgess*).

**M. dyari** Malloch, 12-484.

R. I.—Kingston, June 19, 1907 (*Barlow*).

**M. franconiensis** (Malloch), 12-479.

N. H.—Franconia; Mt. Washington (*Mrs. Slosson*).

**M. inaequalis** Malloch, 12-464.

N. H.—Hanover, July 6.

**M. minor** (Zetterstedt) (*P. minuta* Aldrich).

N. H.—Mt. Washington.

MASS.—New Bedford (*Hough*); Somerset, July 14 (*N. S. Easton*).

**M. nigriceps** (Loew).

ME.—3, 8. N. H.—11, 15. May 6—Sept. 10.

MASS.—23, 27, 29, 32. R. I.—33. CONN.—35. May 23—Sept. 8.

**M. picta** (Lehmann).

N. H.—White Mts.

MASS.—Great Barrington, June 16.

**M. projecta** Becker.

N. H.—White Mts. (*Morrison*); Hanover, July 5, 1908 (*Shaw*).

MASS.—Brookline, June 28.

**M. pleuralis** Wood, 09-117 and 146 (see Brues, 18-191).

MASS.—Milton; New Bedford (*Hough*).

**M. pygmaea** (Zetterstedt)?

ME.—Mt. Desert, July 31 (*McAtee*).

**M. pulicaria** (Fallen).

ME.—Mt. Desert, July 31 (*McAtee*).

MASS.—.

**M. rostrata** (Melander and Brues).

MASS.—*Woods Hole*. About the burrows of *Halictus pruinosus*.

**M. ruficornis** (Meigen).

N. H.—Franconia.

**M. rufipes** Meigen.

ME.—3, 8. N. H.—11, 12, 15. VT.—19. Apr. 17—Oct. 22.

MASS.—27, 32. R. I.—33. CONN.—35. Apr. 20—Sept. 28.

**M. straminipes** (Malloch), 12—474.

ME.—Bar Harbor, July 22.

MASS.—Chester, July 25—Aug. 7.

**M. sublutea** (Malloch), 12—468.

N. H.—Franconia.

**M. subobscurata** Malloch, 12—485.

N. H.—*Mt. Washington*.

**M. vulgata** (Malloch), 12—483.

ME.—*Mt. Katahdin*, 5215 ft., Aug. 19, 1902. N. H.—*Hampton (Shaw)*.

MASS.—*Boston*, July 31.

#### Apocephalus Coquillett.

**A. borealis** Brues, 24—41.

ME.—*Salisbury Cove*, Mt. Desert, July 17, 1923.

#### Gymnophora Macquart.

**G. quartomollis** Schmitz (*G. arcuata* of authors, not Meigen).

ME.—7, 8. N. H.—11, 12. VT.—16, 20, 22. June 24—July 17.

MASS.—29. CONN.—35. June 12.

#### Phora Latreille.

**P. aterrima** (Fabricius).

ME.—3, 7, 8. N. H.—11, 12, 15. VT.—20. July 7—Aug. 18.

MASS.—23, 26, 27, 32. R. I.—33. CONN.—35. May 2—Aug. 10.

**P. velutina** (Meigen).

ME.—7, 8. Aug. 17—Sept. 10.

MASS.—23, 32. May 31—Aug. 8.

#### Conicera Meigen.

**C. atra** Meigen.

ME.—8. N. H.—12. July 6—31.

MASS.—27, 32. R. I.—33. CONN.—35. May 18—July 28.

## Puliciphora Dahl.

**P. glacialis** Malloch, 12-507 (see Brues, 24-44).  
 MASS.—*Tyngsboro*, “active on the ice, Jan. 1874” (*F. Blanchard*);  
 Framingham, Mar. 3, 1923 (*Frost*).

**P. occidentalis** Melander and Brues.

MASS.—*Woods Hole*. About the burrows of *Halictus*.

## PLATYPEZIDAE.

## Agathomyia Verrall.

**A. notata** (Loew).

ME.—8. N. H.—11, 12. July 5-30.

MASS.—23, 27. Aug. 5-Sept. 8.

**A. talpula** (Loew).

ME.—8. N. H.—11, 14. June 8-July 29.

MASS.—23, 27. May 26-June 15.

**A. pulchella** (Johnson), 08-58.

ME.—4, 8. N. H.—11. Vt.—18, 19, 20, 22. June 27-Aug. 30.

MASS.—23, 28. May 31-Aug. 7.

**A. fulva** (Johnson), 08-59.

ME.—*Capens*, July 19, 1907. N. H.—Mt. Washington, carriage road, 3000 ft., July 21, 1915.

**A. cushmani** Johnson, 16-30.

N. H.—*Mt. Passaconaway*, 3800 ft., Sept. 12, 1912 (*Cushman*).  
 Vt.—Bolton Mt., 2500 ft., Aug. 30 (*Bryant*).

**A. dubia** Johnson, 16-28.

MASS.—*Chester*, Aug. 4, 1911.

**A. vanduzeei** Johnson, 16-29.

ME.—*Liberty*, Sept. 9, 1917 (*Cushman*). Vt.—Killington Peak, Aug. 28, 1919.

**A. perplexa** Johnson, 16-29.

Vt.—Base of Killington Peak, Aug. 27, 1919.

**A. obscura** (Johnson), 16-30.

MASS.—*Hammond's Pond*, near Brookline, Sept. 25, 1913.

**A. brooksi** Johnson, 23-57.

MASS.—*Manomet*, May 31, 1919 (*W. S. Brooks*).

**A. monticola** Johnson, 23-57.

N. H.—*Mt. Washington*, 2500 ft., July 24, 1915.

**A. divergens** (Loew).

N. H.—*Mt. Monadnock*, June 22, 1917; Jaffrey, June 15, 1923.

## Callimyia Meigen.

**C. proxima** Johnson, 16-32.

N. H.—*Mt. Washington*, 3000 ft., July 16, 1915.

*C. velutina* Johnson, 16-32.

ME.—Mt. Desert, June 27-July 16. N. H.—Mt. Washington, base to 3500 ft., June 14-July 28; Jaffrey, June 22.

MASS.—Chester, Aug. 5.

*C. venusta* Snow.

ME.—Eastport, July 14, 1909. N. H.—Mt. Washington, 3000 ft., July 16; Glen House, July 25, 1922 (*Cushman*).

Platypeza Meigen.

*P. anthrax* Loew (*P. elongata* Banks, 15-215).

ME.—6, 8, 9. N. H.—11, 13, 15. VT.—17, 19. Aug. 12-Sept. 16.

MASS.—25, 27, 28. Aug. 27-Oct. 7.

*P. banksi* Johnson, 23-53.

VT.—Killington Peak, Aug. 28.

MASS.—Forest Hills, Oct. 5; Brookline, Aug. 31, and Auburndale, Sept. 13.

*P. flavigornis* Loew.

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Brookline, Auburndale and Chester. Aug. 13-Sept. 24.

*P. minorata* Banks, 15-214.

MASS.—Newton, Sept. 17-20, bred from *Agaricus campestris*; Framingham, Oct. 2 (*Frost*).

*P. infumata* Haliday.

N. H.—Mt. Washington, 2500 ft., and "Glen," July 15-28; Hampton, May 15 (*Shaw*).

MASS.—Chester; Waltham and Norwood, May 24-Aug. 6. R. I.—Buttonwoods, June 18.

*P. obscura* Loew.

N. H.—Franconia (*Mrs. Slosson*).

*P. taeniata* Snow.

ME.—9, 10. N. H.—13, 15. VT.—19. Aug. 25-Sept. 16.

MASS.—23, 26, 27, 32. CONN.—34. Aug. 6-Oct. 12.

*P. velutina* Loew.

ME.—7, 8. N. H.—11, 12, 13, 15. VT.—19, 20. July 6-Sept. 10.

MASS.—23, 27. CONN.—35. May 28-Sept. 18.

*P. pallipes* Loew, ♀ (*Calotarsa ornatipes* Townsend, ♂).

ME.—8, 10. N. H.—11, 15. VT.—17, 19. Aug. 25-Sept. 10.

MASS.—27. Sept. 1-Sept. 24.

Platypezoides Johnson.

*P. diversa* Johnson, 23-56.

ME.—Bar Harbor, Sept. 11. N. H.—Mt. Washington (*Mrs. Slosson*); Center Harbor, Sept. 11.

*Microsania* Zetterstedt.

**M. stigmatical**is Zetterstedt (see Melander, 22-46) (*Platycnema imperfecta* Loew).

ME.—Mt. Desert, July 31 (W. A. McAtee); Mt. Katahdin, July 31 (Blake). N. H.—Franconia (Mrs. Slosson).

MASS.—Boston, Apr. 23-Aug. 13, on windows; Manomet, July 17 (Cushman).

## PIPUNCULIDAE.

*Chalarus* Walker.

**C. spurius** (Fallen).

ME.—7, 8. N. H.—12. VT.—20. June 14-Aug. 16.

MASS.—23, 26, 27. CONN.—25. June 1-Sept. 24.

*Verrallia* Mik.

**V. pilosa** Zetterstedt.

ME.—8. N. H.—11, 14, 15. VT.—21. June 5-July 12.

MASS.—23, 24, 27. May 24-July 10.

*Nephrocerus* Zetterstedt.

**N. daeckei** Johnson.

N. H.—Franconia (Mrs. Slosson).

**N. slossonae** Johnson, 15-55.

N. H.—Mt. Washington (Mrs. Slosson); Base Station, July 4 (C. A. Frost); Bretton Woods, June 25-28; Mt. Monadnock, June 20.

*Pipunculus* Latreille.

**P. affinis** Cresson, 11-283.

VT.—Burlington, June; St. Johnsbury, June.

MASS.—Barnstable, July.

**P. dubius** Cresson, 11-284.

ME.—4, 7, 8. VT.—16. June 24-July 25.

R. I.—33. July 21-Aug. 2.

**P. nigripes** Loew.

N. H.—11, 15. July 1.

MASS.—23, 25, 27, 32. June 27-July 30.

**P. semifasciatus** Cresson, 11-288.

N. H.—Hanover, July 4; Hampton, June 15.

MASS.—Mt. Tom, July 14; Sharon, July 7.

**P. aequus** Cresson, 11-292.

N. H.—Hampton, July 25. VT.—Manchester, June 8.

MASS.—Hyannisport, July 4; Auburndale, June 17; North Adams, June 20.

**P. minor** Cresson, 11-293.

ME.—1, 2, 4, 8. N. H.—11, 14. June 27-Aug. 16.

MASS.—27, 32. CONN.—35. June 12-Aug. 6.

**P. atlanticus** Hough.

ME.—8. N. H.—12, 14, 15. June 7—July 5.

MASS.—23, 27, 39, 32. R. I.—33. CONN.—35. May 26—July 23.

**P. appendiculatus** Cresson, 11—296.VT.—*Manchester*, June 6; *Mt. Equinox*, June.MASS.—*Wellfleet*, Aug. 18.**P. mainensis** Cresson, 11—298.ME.—*Ft. Kent*, Aug. 17.**P. cingulatus** Loew.

ME.—8. N. H.—11, 12. VT.—17, 20. June 21—July 17.

MASS.—25, 27, 29. CONN.—35. June 13—Aug. 23.

**P. fuscus** Loew.N. H.—*Mt. Washington* (*Mrs. Slosson*).MASS.—*Auburndale*, Aug. 13; *North Adams*, June 18.**P. viduus** Cresson, 11—301.ME.—*Mt. Desert*, July 19; *Oquossoc*, July 3. VT.—*Burlington*, June 24.MASS.—*Washington*, Aug. 8.**P. houghi** Kertesz (*P. femoratus* Cresson, 11—302; 12—454).

VT.—16, 20, 21. June 24—July 11.

MASS.—23, 27, 29, 32. R. I.—33. June 11—July 25.

**P. brevis** Cresson, 11—303.VT.—*Norwich*, July 8.**P. nitidiventris** Loew.N. H.—*Mt. Washington* (*Mrs. Slosson*).**P. horvathi** Kertesz.

ME.—8. N. H.—12, 14. June 23—July 17.

MASS.—26, 27. May 22—Sept. 1.

**P. angus** Cresson var., 11—305.VT.—*St. Johnsbury*, June.**P. sororius** Cresson, 11—305.

ME.—3, 5. VT.—19, 20, 22. July 1—Aug. 15.

R. I.—33. July 7.

**P. alpinus** Cresson, 11—306.N. H.—*Glen House*, June 11; *Mt. Washington* (*Mrs. Slosson*).VT.—*Mt. Ascutney*, 2000 ft., July 11, 1908; *Mt. Equinox*, June 5, 1910.**P. luteicornis** Cresson, 11—307.ME.—*Machias*, July 20, 1907. N. H.—*Hampton*, June 24 (*Shaw*).

**P. pallipes** Johnson (*P. houghi* Cresson, not Kertesz, see Cresson, 12-455).

ME.—8. N. H.—11, 14. VT.—16. June 20—Sept. 11.

MASS.—23, 27. CONN.—35. June 11-28.

**P. albofasciatus** Hough.

ME.—6. N. H.—11. VT.—16. June 22—July 24.

MASS.—27. July 11.

**P. flavomaculatus** Hough.

N. H.—Hampton, May 30 (*Shaw*).

MASS.—*Horse Neck Beach*, Aug. 6 (*Hough*); Brookline, May 23; Berlin, Aug. 8 (*Frost*); Gloucester, June 17.

**P. subvirescens** Loew.

MASS.—New Bedford (*Hough*).

**P. scoparius** Cresson, 11-317.

ME.—*Eastport*, July 15, 1909; Mt. Desert, July 17. N. H.—Hampton, Aug. 4 (*Shaw*).

MASS.—*Edgartown*, June 29; Boston, Aug. 18. R. I.—Tiverton, July 31.

**P. appendipes** Cresson, 11-319.

VT.—*Manchester*, June 8.

**P. globosus** Cresson, 12-453.

R. I.—*Buttonwoods*, July 25, 1911.

**P. trichaetus** Malloch, 12-296.

N. H.—Mt. Washington (*Mrs. Slosson*).

**P. caudatus** Cresson, 12-289.

ME.—Mt. Desert, June 9-15.

MASS.—Chester, Aug. 4; Brookline, June 17.

**P. confraternus** Banks, 12-285.

MASS.—Auburndale, July 16.

**P. similis** Hough.

N. H.—Hampton, May 16 (*Shaw*).

R. I.—*Buttonwoods*, July 25. CONN.—Cheshire, July 8 (*Viereck*).

#### SYRPHIDAE.

**Microdon** Meigen.

**M. conflictus** Curran, 24-226.

ME.—*Bar Harbor*, July 30, 1919.

MASS.—*Washington*, Aug. 8, 1912. CONN.—Scotland, July 25 (*Walden*).

**M. globosus** Fabricius (*M. fuscipennis* of authors, not Macquart).

ME.—9. N. H.—11, 15. June 7-July 3.

MASS.—23, 24, 26, 27, 28. CONN.—35. June 8-June 14.

**M. manitobensis** Curran, 24-227.

ME.—*Capens*, July 15, 1907; *Southwest Harbor*, July 22, 1921; *Oquosoc*, July 2, 1922.

**M. megalogaster** Snow.

MASS.—Great Barrington, June 16. CONN.—Darien, June 12.

**M. ocellaris** Curran, 24-227.

ME.—Bar Harbor, June 9. N. H.—Jaffrey, June 20, 1923.

MASS.—*Newton*, May; *Framingham*, May 12, 1910 (*Frost*). CONN.—*Lyme*, from pupa, May 26, 1911 (*Champlain*); *Darien*, June 12, 1915.

**M. pseudoglobosus** Curran, 24-226.

VT.—Chittenden, Aug. 15, 1916 (*J. Bequaert*).

**M. tristis** Loew.

ME.—8. N. H.—11, 14. June 8-June 27.

MASS.—23, 27. CONN.—35. May 29-June 22.

**M. ruficrus** Williston (see Knab, 19-135).

N. H.—11, 14. June 16-21.

MASS.—23, 26, 27. CONN.—35. June 3-June 28.

**M. cothurnatus** Bigot.

ME.—Mt. Desert, June 20. N. H.—Mt. Washington, July 6.

MASS.—West Chop, July 4 (*Morse*).

#### Chrysotoxum Meigen.

**C. derivatum** Walker.

ME.—Penobscot Co. (Sec. 2, Range 7), Aug. 2, 1910 (*Cushman*).

MASS.—Sherborn, Aug. 24, 1912 (*Frost*).

**C. fasciolatum** De Geer.

ME.—2, 4, 5, 8. N. H.—11, 14. June 11-July 24.

MASS.—23. June 15.

**C. laterale** Loew.

ME.—CONN.—New Haven, June 11.

**C. pubescens** Loew (*C. luteopilosum* Curran, 24-36).

MASS.—*North Saugus*, Aug. 3, 1911 (*Tothill*); *Framingham*, Aug. 11, 16 (*Frost*); *Boston*; *Auburndale*, Aug. 28 and Sept. 20, 1906; *Glooucester*, July 8, 1918.

**C. perplexum** Johnson, 24-99.

ME.—8. N. H.—11, 14. VT.—17. Aug. 16-Sept. 12.

MASS.—23, 27. CONN.—34. Aug. 6-Sept. 8.

**C. plumeum** Johnson, 24-99.

MASS.—*Montgomery*, May 27, 1899 (*Dimmock*). CONN.—South Norwalk, Aug. 4, 1908.

#### Mixogaster Macquart.

**M. breviventris** Kahl.

CONN.—Wallingford, Sept. 1, 1923 (*S. W. Bromley*).

*Chrysogaster* Meigen.*C. nigripes* Loew.

ME.—6, 7, 8. N. H.—11, 14, 15. VT.—16, 21. June 5—July 21.

MASS.—23, 25, 26, 27, 29. R. I.—33. CONN.—34, 35. Apr. 29—July 4.

*C. nitida* Wiedemann.

MASS.—Fall River, July 26 (*Easton*); Woods Hole, July 24, 1905; Nantucket, Aug. 8. R. I.—Buttonwoods, July 24. CONN.—Winnipauk, Aug. 4.

*C. pictipennis* Loew.

VT.—6. June 24.

MASS.—23, 27, 29, 31, 32. R. I.—33. CONN.—35. May 4—Aug. 5.

*C. pulchella* Williston.

ME.—1, 8, 9. N. H.—11, 14, 15. VT.—17, 21. June 12—Aug. 19.

MASS.—23, 24, 25, 27, 28, 32. R. I.—33. CONN.—34, 35. May 24—Aug. 11.

*Pipiza* Fallen.*P. femoralis* Loew.

ME.—9. N. H.—11, 14, 15. VT.—21. May 17—June 18.

MASS.—23, 24. CONN.—35. May 7—June 14.

*P. femoralis* var. *albipilosa* Williston.

ME.—9. N. H.—14. June 1—Aug. 8.

MASS.—23, 25, 27. CONN.—34. May 26—July 25.

*P. quadrimaculata* (Panzer).

ME.—8. N. H.—11, 14. June 10—July 14.

MASS.—23 (*Mt. Greylock*), June 15, 1906.

*P. nigropilosa* Williston.

ME.—8. N. H.—11, 14. June 17—Aug. 1.

MASS.—23, 25. CONN.—35. May 14—June 14.

*P. nigrotibiata* Curran, 24—81.

N. H.—*Jaffrey*, June 17, 1917; *Alstead*, Aug. 8, 1914 (*A. P. Morse*).

MASS.—*Chester*, Aug. 6, 1914.

*P. puella* Williston.

N. H.—*White Mts.*, Aug. 1 (*Williston*).

*Pipizella* Rondani.*P. apisaon* (Walker) (*Pipiza modesta* Loew, ♀; *P. nigribarbis* Loew, ♂; and *P. pulchella* Williston; see Curran, 24—342).

ME.—6, 10. N. H.—11, 15. VT.—18. June 27—July 24.

MASS.—23, 27, 29, 30, 32. R. I.—33. CONN.—35. June 20—Oct. 19.

**P. pubescens** (Loew).

ME.—4, 6, 7, 8. N. H.—Vt.—18, 21. June 5—July 19.  
MASS.—23, 25, 26, 27, 28, 29. June 1—Sept. 1.

**P. recedens** (Walker) (*Pipiza fraudulenta* Loew).

ME.—Mt. Desert, June 15—July 15. N. H.—Glen House, June 14. Vt.—Mt. Equinox, June 5.  
MASS.—Waltham.

**Heringia Rondani.****H. salax** Loew (*P. radicum* Walsh and Riley; *P. pistica* Williston).

ME.—6, 8, 10. N. H.—11, 13, 14, 15. June 9—Sept. 10.

MASS.—23, 27, 28, 29, 31. R. I.—33. CONN.—35. May 23—  
Aug. 24.

**Cnemodon Egger.****C. calcarata** Loew.

ME.—9, 10. N. H.—15. June 25—July 27.

MASS.—23, 27, 28. CONN.—35. May 29—July 28.

**C. elongata** Curran, 21—362.

ME.—Bar Harbor, June 9, 17, 1921—22.

**C. pisticoides** Williston.

ME.—4, 8, 10. N. H.—11, 15. June 7—Aug. 1.

MASS.—27. July 4.

**C. squamulae** Curran, 21—361.

MASS.—Weston, July 23, 1911.

**C. trochanterata** Malloch, 18—127.

MASS.—Cohasset, May 29, 1904 (*Bryant*).

**Psilotia Meigen.****?P. buccata** Macquart.

MASS.—Woods Hole.

**Paragus Latreille.****P. angustifrons** Loew.

ME.—7, 8, 9. N. H.—14, 15. June—Aug. 18.

MASS.—27, 29, 30, 31, 32. R. I.—33. CONN.—34, 35. June  
27—Sept. 9.

**P. bicolor** Fabricius.

ME.—7. N. H.—11, 14, 15. Vt.—21. May 11.

MASS.—23, 25, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—34, 35.  
May 25—Sept. 21.

**P. tibialis** Fallen.

ME.—7, 8. N. H.—11, 15. June 6—July 22.

MASS.—23, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35.  
June 2—Aug. 9.

*Chilosia* Meigen.**C. hiawatha** Shannon, 22-138.MASS.—*Forest Hills*, Boston (*J. Bequaert*).**C. lasiophthalma** Williston.N. H.—Mt. Washington (*Mrs. Slosson*).**C. orilliaensis** Curran, 22-67 (*C. petulca* of *Mrs. Slosson's Mt. Washington* list).

ME.—Mt. Desert, June 21. N. H.—Mt. Washington, July 8-16; "Glen House," June 14-July 14; Jaffrey, June 18.

**C. pontiaca** Shannon, 22-142.ME.—Machias, July 17, 1909. N. H.—*Mt. Washington*, Halfway House, July 6, 1916.*Cartosyrphus* Bigot.Subgenus *Hiatomyia* Shannon.**C. cyanescens** Loew.

ME.—Oquossoc, July 3. N. H.—White Mts.; Franconia.

MASS.—Chester, July 25. CONN.—

Subgenus *Cartosyrphus* Bigot.**C. pallipes** Loew.

ME.—5, 7, 8, 9, 10. N. H.—11, 13, 14. VT.—21. June 21-July 30.

MASS.—23, 25, 27, 28, 29, 32. R. I.—33. CONN.—34. July 5-Sept. 21.

**C. tristis** Loew.

ME.—2, 5, 6, 7, 8, 9, 10. N. H.—11, 14, 15. June 13-Sept. 6.

MASS.—23, 27, 28, 29, 32. CONN.—34, 35. June 11-Sept. 21.

**C. sialia** Shannon, 22-132.

N. H.—"Glen House," July 7, 1914.

**C. similis** Shannon, 16-196.

MASS.—Near Ellis Station, Norwood, Sept. 4, 1908.

**C. slossonae** Shannon, 22-144.ME.—Mt. Desert, June 10, 1921. N. H.—Hampton, Apr. 18-May 9 (*Shaw*).MASS.—Sherborn, May 2, 1919 (*E. J. Smith*); Essex Co. (*F. H. Walker*).*Cynorhinella* Curran, 22-14.**C. longinasus** Shannon, 24-123.

N. H.—Jaffrey, June 6, 1920.

*Chalcomyia* Williston.**C. aerea** Loew.MASS.—Sherborn, May 18 (*E. J. Smith*); Auburndale, May 26, 1905.

**C. cyanea** H. E. Smith, 12-119 (*C. calcitrans* Curran).  
 N. H.—Franconia (*Mrs. Slosson*); Belmont, May 16, 1920 (*C. Hoessler*).

**Myiolepta** Newman.

**M. nigra** Loew (*Xylota tuberans* Williston).

N. H.—Jaffrey, June 18, 1917; Squam Lake, June 22 (Allen).

Vt.—Mt. Equinox, June 5.

R. I.—Buttonwoods, June 18, 1912. CONN.—Wallingford, June 22.

**M. varipes** Loew.

N. H.—Jaffrey, June 18, 1917.

**Ferdinandea** Rondani (*Chrysoclamys* Rondani).

**F. dives** Osten Sacken.

N. H.—Jaffrey, June 9-30.

MASS.—Amherst; Arlington, May 20. CONN.—New Haven, May 9, 1905.

Larva lives in fermented sap from maple and birch stumps.

**F. nigripes** Osten Sacken.

N. H.—Mt. Washington ("Alpine Garden"), Aug. 16, 1916;  
 Halfway House, July 16.

MASS.—.

**Baccha** Fabricius.

**B. cognata** Loew.

ME.—7, 8, 10. N. H.—11, 12, 14, 15. Vt.—19. June-Aug. 25.

MASS.—23, 27, 28. CONN.—34. June 19-Aug. 21.

**B. fascipennis** Wiedemann.

ME.—2 (Houlton). N. H.—11, 14. Vt.—20. June 28-Aug. 24.

MASS.—25, 27. CONN.—34, 35. July 1-Aug. 19.

**B. tarchetius** Walker.

CONN.—Litchfield, Sept. 12, 21, 1922 (*L. B. Woodruff*).

**Ocyptamus** Macquart.

**O. fuscipennis** (Say).

N. H.—15. Aug. 10.

MASS.—26, 27, 32. R. I.—33. CONN.—35. May 30-July 31.

**Pyrophaena** Schiner.

**P. granditarsus** (Forster).

ME.—1, 6, 8. N. H.—11, 15. Vt.—18, 19, 20. June 10-Sept. 6.

MASS.—23, 27. CONN.—34. May 29-Sept. 4.

**P. rosarum** (Fabricius).

ME.—8. N. H.—11, 15. July 15-29.

MASS.—26, 27, 32. July 3-Aug. 2.

*Platychirus* St. Fargeau et Serville.**P. albimanus** (Fabricius).N. H.—Mt. Washington (*Mrs. Slosson*).**P. chaetopodus** Williston.ME.—Mt. Desert, June 8; Ft. Kent, July 5; Van Buren,  
July 7. N. H.—Mt. Washington, July 8; Jaffrey, June 7.

MASS.—North Saugus, Aug. 11.

**P. hyperboreus** (Staeger).

ME.—9, 10. N. H.—11, 14, 15. VT.—20. June 1—July 24.

MASS.—27, 29, 32. CONN.—35. May 16—Aug. 20.

**P. peltatus** (Meigen).

ME.—6, 8. N. H.—11, 14. July 2—Aug. 21.

MASS.—23, 27. R. I.—33. CONN.—35. May 30—Aug. 13.

**P. quadratus** (Say).

ME.—6, 8, 10. N. H.—11, 15. VT.—20. May 28—Aug. 7.

MASS.—24, 25, 26, 27, 28, 29. R. I.—33. CONN.—35. June  
19—Sept. 2.**P. perpallidus** Verrall.

ME.—1, 2, 6, 8. N. H.—June 13—Aug. 3.

MASS.—26. Aug. 29.

**P. scutatus** Meigen.ME.—Orono, about Spiraea infested with *Aphis spercacola* (Metcalf, 17—163).**P. immarginatus** Zetterstedt.ME.—Bar Harbor, July 25 (*Metcalf*).**P. discimanus** Loew.

ME.—.

**P. angustatus** Zetterstedt.

ME.—.

**P. varipes** Curran, 23—65.

ME.—Ft. Kent, Aug. 17, 1910.

*Melanostoma* Schiner.**M. angustatum** Williston.ME.—Mt. Desert, June 14. N. H.—Mt. Washington. VT.—  
Mt. Equinox.**M. montivagum** Johnson, 16—78.N. H.—Mt. Washington, 3000 to 4000 ft., and near the Glen  
House, July 6, 1914.**M. mellinum** (Linné).ME.—4, 8, 10. N. H.—11, 13, 14, 15. VT.—20. May 21—  
Aug. 31.MASS.—23, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—35.  
Apr. 25—Sept. 7.

**M. obscurum** (Say).

ME.—8, 9. N. H.—11, 14, 15. VT.—17, 19. June 8—Aug. 7.  
MASS.—25, 26, 27. R. I.—33. CONN.—35. May 30—Oct. 19.

**M. confusum** Curran.

ME.—Mt. Katahdin, Aug. 11 (*I. H. Blake*); Southwest Harbor,  
June 16; Eastport, July 15. N. H.—Mt. Washington, 4000  
ft., July 16. VT.—Killington Peak, Aug. 28.

**Leucozona** Schiner.**L. lucorum** var. **americana** Curran, 23—38.

ME.—Mt. Desert, June 9, 1920; Bailey Isl., July 18 (*Allen*).  
N. H.—Mt. Washington, 4000 ft.; Mt. Kearsarge, 3270 ft.,  
July 2.

**Didea** Macquart.**D. fasciata** var. **fuscipes** Loew.

ME.—6, 8. N. H.—11, 14. June 12—19.  
MASS.—27, 29. CONN.—35. May 20—Sept. 25.

**Syrphus** Fabricius.**S. arcuatus** Fallen.

ME.—1, 6, 7, 8. N. H.—11, 12. VT.—17. June 21—Sept. 13.  
MASS.—27, 29. CONN.—34, 35. July 13—Oct. 16.

**S. perplexus** Osburn, 10—55.

ME.—8. N. H.—11, 12, 14, 15. VT.—21. May 20—July 12.  
MASS.—23, 25, 26, 28, 32. CONN.—35. May 5—Oct. 16.

**S. johnsoni** Curran, 24—79.

N. H.—Jaffrey, June 15—18, 1917.

**S. vinelandi** Curran.

MASS.—Winchester, Aug. 20, 1922. R. I.—Kingston, May 9,  
1908 (*Barlow*).

**S. disjectus** Williston.

ME.—8. N. H.—11, 15. July 22—Sept. 3.  
MASS.—23, 25, 27. R. I.—33. CONN.—34. May—Sept. 1.

**S. nitens** Zetterstedt.

ME.—Orono, July 23—July 11, larvae feeding on the "willow  
grove plant-louse," *Pterocomma flocculosa* Weed (Metcalf, 16—  
242); "Narrows," Mt. Desert, Aug. 13.

**S. wiedemanni** Johnson, 19—32 (*S. americanus* Wiedemann,  
1830, not Swederus, 1787).

ME.—3, 4, 8, 10. N. H.—11, 15. VT.—16, 19, 20, 21. June 9—  
Aug. 28.

MASS.—27, 29, 31, 32. R. I.—33. CONN.—35. June 24—  
Oct. 16.

**S. latifasciatus** Macquart (*S. abbreviatus* Williston).

N. H.—15. May 13.

MASS.—23, 24, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—35.  
Apr. 23—Sept. 20.

**S. knabi** Shannon, 16—200.

ME.—Orono.

**S. ribesii** Linné.

ME.—4, 6, 7, 8. N. H.—11, 13, 14, 15. VT.—19, 21. June 15—  
Sept. 19.

MASS.—23, 25, 26, 27, 29, 32. CONN.—34, 35. May 25—Sept.  
22.

**S. ribesii** var. *vittafrons* Shannon, 16—202.

ME.—4, 8. N. H.—14. June 8—July 16.

MASS.—27, 32. CONN.—34. July 14—Sept. 19.

**S. rectus** Osten Sacken.

ME.—6, 8. N. H.—11, 14. June 2—Aug. 25.

MASS.—23, 26, 27, 31. CONN.—34. June 13—Oct. 4.

**S. torvus** Osten Sacken.

ME.—3, 6, 8, 9, 10. N. H.—11, 13, 15. VT.—17. Apr. 10—  
Sept. 25.

MASS.—23, 24, 25, 26, 27, 28, 29, 32. CONN.—34, 35. May 19—  
Oct. 16.

**S. vitripennis** Meigen.

ME.—4, 7, 10. N. H.—11. VT.—17. June 18—July 25.

MASS.—23, 27, 31. CONN.—34. Apr. 22—Aug. 5.

**S. laxa** (Osten Sacken).

ME.—3, 4, 7, 8, 9. N. H.—11, 14. VT.—17. June 21—Sept. 13.

MASS.—27. June 12.

**S. amalopis** Osten Sacken.

ME.—8, 9. N. H.—11, 14, 15. VT.—21. May 20—July 12.

MASS.—23, 25, 28, 32. CONN.—35. May 5—Sept. 7.

**S. laticaudus** Curran.

ME.—Orono, June 4 (*Parshley*). N. H.—Mt. Washington, 4000  
ft., July 6; Glen House, July 7; Mt. Monadnock, July 12.

MASS.—Chester, May 28, 1912.

**S. limatus** Hine.

ME.—Bar Harbor, June 13, 1921.

**S. venustus** Meigen.

ME.—Mt. Desert, June 9. N. H.—Mt. Washington, 5000 ft.;  
Mt. Kearsarge, 3270 ft., July 2 (*Morse*); Jaffrey, June 4.

**S. emarginatus** (Say).

ME.—8. N. H.—11.

MASS.—23, 25, 27, 28. R. I.—33. CONN.—.

**S. divisa** (Williston).

ME.—Orono, Aug. 25. N. H.—White Mts., July 25.

**S. felix** (Osten Sacken).

ME.—8. July 17.

MASS.—23, 27, 31. CONN.—34. June 4—Aug. 25.

Epistrophe Walker, 1852 (*Stenosyrphus* Matsumura).

**E. grossulariae** Meigen.

ME.—4, 8, 9. N. H.—11, 13, 14, 15. VT.—17. June—Sept. 10.

MASS.—23, 25, 27. R. I.—33. CONN.—34. Aug. 3—Aug. 21.

**E. xanthostomus** Williston.

ME.—Bar Harbor, July 19. N. H.—Glen House, June 14; Jaffrey, June 18.

MASS.—Sharon, May 26, 1908. CONN.—South Meriden, May 25, 1914 (*H. L. Johnson*); Darien, May 24.

**E. contumax** Osten Sacken.

N. H.—Mt. Washington, 4000—5000 ft., June 30—July 4.

**E. diversipes** Macquart.

ME.—4, 7, 8. N. H.—11, 14. VT.—19, 21. June 4—July 25.

MASS.—27. Aug. 9.

**E. abruptus** Curran, 24—80.

N. H.—Mt. Washington, 2500 ft., June 13, 1916.

**E. umbellatorum** (Fabricius).

ME.—1, 4, 8. N. H.—11, 14, 15. VT.—16, 18. June 11—Sept. 25.

MASS.—23. CONN.—34. Aug. 13—Sept. 1.

**E. geniculatus** (Macquart).

ME.—Mt. Desert, June 11—July 13. N. H.—Mt. Washington, July 6—20.

**E. fisheri** (Walton).

ME.—8. N. H.—11, 14. June 25—Aug. 22.

MASS.—24, 25, 27, 28. CONN.—34. May 30—Sept. 18.

**E. mentalis** (Williston).

ME.—6, 8. N. H.—11, 13, 14, 15. VT.—16. May 5—July 7.

MASS.—25, 27. CONN.—34, 35. Apr. 13—Sept. 10.

**E. vitifacies** (Curran), 23—66.

N. H.—Hampton, Apr. 14, 1905 (*Shaw*).

**E. genualis** (Williston).

ME.—4, 6, 7, 8, 9. N. H.—11, 14. VT.—21. May 3—July 14.

MASS.—25. CONN.—35. May 10.

**E. articus** (Zetterstedt).

ME.—Bar Harbor, Sept. 11. N. H.—Mt. Washington, 4000 ft., July 8; Base Station, Aug. 15; Jaffrey, May 5.

**E. oronoensis** (Metcalf), 17—162.

ME.—Orono (Metcalf); Bar Harbor, July 19. N. H.—Hampton, Aug. 30 (*Shaw*). VT.—Burlington, June 24.

MASS.—Rutland, Sept. 20; Essex Co., Aug. 12 (*Morse*).

*E. xylotoides* Johnson, 16-80.

N. H.—Jaffrey, June 18.

MASS.—Great Barrington, June 16; Amherst; Dighton, June 28 (*Easton*); Tyngsboro, June 6 (*Fall*). CONN.—Washington, June 14 (*Chamberlain*).

**Xanthogramma** Schiner.

*X. flavipes* Loew.

N. H.—15. Aug. 23.

MASS.—24, 27, 28, 29. CONN.—35. June 12-Aug. 10.

**Doros** Meigen.

*D. aequalis* Loew.

N. H.—Franconia (*Mrs. Slosson*); Glen House, June 18; Jaffrey, June 14.

MASS.—Princeton, July (*L. W. Swett*). CONN.—Short Beach, May 30, 1896.

**Allograptia** Osten Sacken.

*A. obliqua* (Say).

ME.—8. N. H.—15. July 29-Aug. 8.

MASS.—24, 25, 27, 29, 31. R. I.—33. CONN.—35. June 20-Oct. 18.

*Toxomerus* Macquart (*Mesogramma* Loew).

*T. geminatus* (Say).

ME.—8, 10. N. H.—11, 12, 14, 15. VT.—16, 19. June 11-Oct. 3.

MASS.—23, 27, 31. R. I.—33. CONN.—35. May 30-Oct. 16.

*T. marginatus* (Say).

ME.—8, 9. N. H.—11, 14. VT.—19, 20. July 18-Oct. 15.

MASS.—23, 24, 25, 26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. May 16-Oct. 19.

*T. politus* (Say).

N. H.—11. VT.—20. Aug. 18.

MASS.—24, 27, 28, 31. R. I.—33. CONN.—35. Aug. 28-Oct. 16.

*T. boscii* Macquart.

MASS.—

**Sphaerophoria** St. Fargeau et Serville.

*S. cylindrica* (Say).

MASS.—23, 26, 27, 29, 30, 31, 32. R. I.—33. CONN.—35. May 9-Oct. 1.

*S. menthastrii* (Linné).

ME.—1, 2, 3, 4, 6, 7, 8, 10. N. H.—11, 14. VT.—16, 19, 20, 21. June 4-Aug. 16.

MASS.—23, 24, 25, 26, 27, 28, 30, 31. R. I.—33. May 14-Aug. 25.

**S. novaeangliae** Johnson, 16-76.

ME.—4, 5, 6, 7, 8. N. H.—11, 12. June 25-July 19.

MASS.—23, 27. May 26-July 24.

**S. strigata** Staeger.

N. H.—Mt. Washington, 2500 ft., June 15, 1916; Hampton, May 20, 1907 (*Shaw*).

**S. cleoae** Metcalf, 17-12.

ME.—Orono, Aug. 11-24, 1915.

MASS.—Forest Hills, Boston, May 16, 1920 (*L. H. Taylor*).

**Sphegina Meigen.**

**S. campanulata** Robertson.

ME.—Orono, June 8; Machias, July 17. N. H.—Hampton, June 25 (*Shaw*); Jaffrey, June 20.

CONN.—Branford, May 25 (*Winkley*).

**S. flavimana** Malloch, 22-143.

ME.—8. N. H.—11, 14. VT.—21. June 17-Aug. 10.

MASS.—23. June 18-Aug. 5.

**S. infuscata** Loew.

ME.—N. H.—11, 14, 15. VT.—21. May 24-July 6.

MASS.—23. June 18.

**S. keeniana** Williston.

ME.—N. H.—11, 14. VT.—21. June 6-28.

MASS.—23, 27. R. I.—33. CONN.—35. May 22-June 17.

**S. lobata** Loew.

ME.—Capens, July 17. N. H.—Mt. Washington and Glen House, June 11-July 20; Cornish, July 13; Jaffrey, June 14.

**S. monticola** Malloch, 22-142.

ME.—Sugar Isl., Moosehead Lake, July 17. N. H.—Mt. Washington; Glen House, June 11-July 20.

**S. petiolata** Coquillett, 10-125.

ME.—4, 7, 8. N. H.—11, 14. June 18-July 17.

MASS.—25, 27, 29. July 24-Aug. 4.

**S. rufiventris** Loew.

ME.—1, 4, 6, 7. N. H.—11, 14, 15. VT.—21. June 18-Aug. 17.

MASS.—24, 25, 26. R. I.—33. CONN.—35. May 29-July 5.

**Neoasia Williston.**

**N. distincta** Williston.

N. H.—Mt. Washington; Hampton, May 20.

MASS.—Beverly, May 8 (*E. Burgess*). CONN.—South Meriden, May 15 (*H. L. Johnson*).

**N. globosa** Walker.

ME.—6, 8. N. H.—11, 15. May 8-Aug. 11.

MASS.—24, 26, 27, 30, 31. CONN.—35. May 19-Aug. 8.

**N. globosa** var. **albipes** Bigot.

CONN.—New Haven, May 26; Darien, June 12; Cheshire, July 8.

**Rhingia** Scopoli.**R. nasica** Say.ME.—1, 4, 5, 6, 8, 9. N. H.—11, 13, 14, 15. VT.—16, 17, 19, 21.  
June 9—July 25.MASS.—23, 25; 27, 28. R. I.—33. CONN.—34, 35. May 22—  
Sept. 1.**Hammerschmidtia** Shummel.**H. ferruginea** Fallen.

ME.—5, 8. N. H.—11, 14. VT.—21. June 9—July 3.

MASS.—23 (Great Barrington).

**Brachyopa** Meigen.**B. perplexa** Curran, 22—249.

N. H.—11, 14. June 9—July 15.

MASS.—26, 27. May 14.

Common, and breeding in the fermenting sap oozing from  
stumps and trees.**B. notata** Osten Sacken.

ME.—5. N. H.—11, 14, 15. June 9—July 24.

MASS.—27 (Wellesley, A. P. Morse). May 13.

**B. flavescens** Shannon, 15—144.N. H.—Bretton Woods, June 24; Glen House, June 14; Jaffrey,  
June 23.

MASS.—Mt. Greylock (summit); June 15.

**B. vacua** Osten Sacken.MASS.—Cohasset, June 5, 1904 (*Bryant*); North Saugus.**B. diversa** Johnson, 17—361.

ME.—Bar Harbor, June 8, 1921. N. H.—Jaffrey, June 18, 1917.

**Volucella** Geoffroy.**V. bombylans** var. **lateralis** Johnson, 16—162.

ME.—5, 8, 9. N. H.—11. June 7—July 8.

**V. bombylans** var. **evecta** Walker.

N. H.—11.

MASS.—23, 26, 27. CONN.—34. June 14—July 25.

**V. bombylans** var. **americana** Johnson, 16—162.

ME.—9, 10. N. H.—12. June 29—July 24.

MASS.—23, 24, 25, 27. CONN.—34. June 15—July 14.

The larvae of this species of *Volucella* live, in both Europe  
and North America, in the nests of the various species of bumble-bees (*Bombus*). The American forms are not specifically  
distinct from the European *V. bombylans* Linné.

**V. vesiculosus** (Fabricius).

CONN.—.

**V. obesa** (Fabricius).MASS.—Melrose Highlands, Sept. 17, 1908 (*Townsend*).

## Condidea Coquillett.

**C. lata** Coquillett, 07-75.

ME.—Bar Harbor, June 21, 1922.

MASS.—North Saugus; Melrose Highlands, May 30; Wellesley, June 4 (*J. D. Tothill*).**C. sexfasciata** (Loew).ME.—Southwest Harbor, Mt. Desert, June 16, 1921. N. H.—Franconia (*Mrs. Slosson*).

## Sericomyia Meigen.

**S. bifasciata** Williston (*S. chalcopyga* Coquillett, not Loew, ♀).ME.—Mt. Desert, June 17—July 12. N. H.—Mt. Washington (*Dimmock*), July 15, 1919 (*L. W. Swett*); Glen House, June 11; Franconia (*Mrs. Slosson*).**S. chrysotoxoides** Macquart.

ME.—1, 4, 5, 6, 8, 9. N. H.—11, 14, 15. VT.—17, 19, 20, 21. June 5—Sept. 25.

MASS.—23, 25, 27, 31. CONN.—34, 35. May 30—Sept. 23.

**S. militaris** Walker.

ME.—2, 4, 5, 8, 9, 10. N. H.—11, 14, 15. VT.—17, 19, 20. June 5—Sept. 16.

MASS.—23, 25, 27. CONN.—34, 35 (New Haven). May 23—Sept. 27.

## Eristalis Latreille.

**E. tenax** (Linné).

ME.—1, 8, 9, 10. N. H.—11, 13, 14, 15. VT.—17, 18, 19, 20. June—Sept. 22.

MASS.—23, 24, 25, 26, 27, 28, 29, 32. R. I.—33. CONN.—34, 35. June 14—Sept. 26.

**E. nemorum** (Linné).

ME.—7, 8. VT.—16, 17.

CONN.—.

**E. inornatus** Loew.ME.—Saddleback Mt., 4000 ft., July 18 (*Metcalf*); Capens, July 11; Oquossoc, July 1.**E. arbustorum** (Linné).

ME.—1, 6, 7, 8, 9. N. H.—11, 13, 14, 15. VT.—17, 19. May 16—Sept. 28.

MASS.—23, 24, 25, 26, 27, 28, 30, 32. R. I.—33. CONN.—34, 35. June 15—Oct. 16.

**E. brousi** Williston (*E. meigenii* of authors, not Wiedemann).  
 ME.—7, 10. N. H.—11, 14. Vt.—20. June—July 25.  
 MASS.—27, 28, 30, 32. May 22—Aug. 21.

**E. compactus** Walker.  
 ME.—6, 8. N. H.—11, 14, 15. Vt.—19. May 20—Aug. 8.  
 MASS.—25. CONN.—34. June 29.

**E. dimidiatus** Wiedemann.  
 ME.—3, 4, 6, 8, 9, 10. N. H.—11, 14, 15. Vt.—19. June 12—  
 Sept. 25.  
 MASS.—23, 27, 28. R. I.—33. CONN.—34, 35. Apr. 25—  
 Oct. 4.

**E. saxorum** Wiedemann.  
 ME.—4, 8. N. H.—13, 14. June—July 11.  
 MASS.—24, 25, 26, 27, 31, 32. R. I.—33. CONN.—34, 35.  
 May 24—Aug. 16.

**E. transversus** Wiedemann.  
 ME.—4, 6, 8, 9, 10. N. H.—11, 13, 14, 15. Vt.—16, 17, 19, 21.  
 June 8—Sept. 28.  
 MASS.—23, 24, 25, 26, 27, 28, 29, 32. R. I.—33. CONN.—34,  
 35. June 27—Oct. 20.

**E. bastardi** Macquart.  
 ME.—1, 4, 6, 8, 9, 10. N. H.—11, 13, 14, 15. Vt.—19, 20.  
 June 12—Sept. 22.  
 MASS.—23, 24, 25, 26, 27, 28, 29, 31, 32. CONN.—34, 35. Apr.  
 15—Sept. 20.

**E. flavipes** Walker.  
 ME.—2, 4, 8, 9. N. H.—11, 14, 15. Vt.—19, 20. June 18—  
 Sept. 22.  
 MASS.—26, 27, 29, 31. R. I.—33. CONN.—34, 35. May 4—  
 Aug. 25.

**E. aeneus** (Scopoli).  
 N. H.—15. Aug. 14—26.  
 MASS.—27, 28, 29, 31, 32. R. I.—33. CONN.—35. June 23—  
 Oct. 19.

#### Tropidia Meigen.

**T. calcarata** Williston.  
 MASS.—Arnold Arboretum, Forest Hills, Boston, June 14, 1912  
 (Reiff).

**T. quadrata** Say.  
 ME.—1, 6, 7, 8, 9, 10. N. H.—11, 14, 15. Vt.—20, 21. June  
 28—Aug. 12.  
 MASS.—25, 26, 27, 28, 29, 30, 32. CONN.—34, 35. May 30—  
 Sept. 1.

*Helophilus* Meigen.*H. bilinearis* Williston.ME.—Orono, June 15 (*Parshley*).CONN.—Branford, May 9, 1905 (*Winkley*).*H. lunulatus* Meigen.

ME.—Mt. Desert, June 13.

MASS.—Melrose, June 4; Lexington, July 12; Billerica, Aug. 27.

*H. hamatus* Loew.

MASS.—25, 26, 27, 29, 31. CONN.—35. May 8—June 29.

*H. conostoma* Williston.

ME.—8. N. H.—11, 15. May 26—Aug. 12.

MASS.—27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. May 15—Sept. 1.

*H. chrysostomus* Wiedemann.

N. H.—11.

MASS.—26, 27, 28, 29. R. I.—33. CONN.—34, 35. May 14—Aug. 18.

*H. distinctus* Williston.CONN.—New Haven (*Williston*).*H. integer* Loew.

ME.—7. July 10.

MASS.—25, 26, 27, 29, 30, 31, 32. R. I.—33. CONN.—35. May 25—Aug. 19.

*H. laetus* Loew.

ME.—6, 8, 9. N. H.—11, 14. June 3—July 27.

MASS.—25, 27, 29, 32. R. I.—33. CONN.—35. June 4—Aug. 11.

*H. porcus* Walker.ME.—Orono, June 22; Oquossoc, July 1; Saddleback Mt. (*Metcalf*).*H. flavifacies* Bigot.ME.—Monmouth, June 21, 1909 (*C. A. Frost*).*H. obscurus* Loew.ME.—Saddleback Lake, 2500 ft., July 19, 1916 (*Metcalf*).*H. obsoletus* Loew.

ME.—Bar Harbor, June 13.

MASS.—Hopkinton, June 10 (*C. A. Frost*).*H. latifrons* Loew.

ME.—4, 6, 8. N. H.—11, 14, 15. VT.—19. July 19—Sept. 8.

MASS.—27, 28, 29, 32. CONN.—34. June 25—Oct. 20.

*H. similis* Macquart.

ME.—4, 6, 8, 9. N. H.—11, 14, 15. VT.—16, 19. May 24—Sept. 30.

MASS.—26, 27, 32. CONN.—34, 35. June 15—Oct. 4.

**H. borealis** Staeger (*H. glacialis* Loew; see Hine, 23-94).  
 ME.—Roque Bluff, Aug. 11, 1907 (*Cushman*); Mt. Desert, Aug. 13; Waterville (*Hitchings*); Isle of Springs, July 5, 1920 (*C. E. White, Jr.*). Vt.—(*Harris Coll.*).  
 MASS.—Dorchester, June 1.

**H. borealis** var. *dychei* Williston.  
 ME.—Capens, July 11-16, 1907.

**H. groenlandicus** (O. Fabricius).  
 N. H.—Kearsarge Mt., 3270 ft., July 2, 1891 (*A. P. Morse*).

**Mallota** Meigen.

**M. cimbiciformis** (Fallen).  
 ME.—4. N. H.—11, 14. Vt.—21. June 15-July 25.  
 MASS.—23, 27. CONN.—35. June 20-July 13.

**M. cimbiciformis** var. *bautias* Walker.  
 ME.—4. N. H.—14. Vt.—21. June 16-July 19.  
 MASS.—23, 27. CONN.—34. June 18-July 24.

**M. posticata** (Fabricius).  
 ME.—4, 8. N. H.—11, 14. June 21-July 21.  
 MASS.—25, 27, 31. CONN.—34, 35. May 30-July 14.

**Merodon** Meigen.

**M. equestris** (Fabricius). The Narcissus Fly.  
 ME.—Bar Harbor, July 25, 1916 (*Metcalf*), July 19, 1919  
 (*C. W. J.*)  
 MASS.—Great Barrington, June 16, 1915.

**M. equestris** var. *narcissi* (Fabricius).  
 MASS.—Blue Hill, June 5, 1910; Brookline, May 30; Sherborn, June 8.

**M. equestris** var. *transversalis* Meigen.  
 MASS.—Melrose Highlands, June 18; Salem, May 25.  
 The larva lives in the bulbs of narcissus.

**Polydontomyia** Williston (*Triodonta* Williston, 1885, not Bory, 1824).

**P. curvipes** (Wiedemann).  
 ME.—7, 8, 10. N. H.—15. June 3-Aug. 13.  
 MASS.—26, 27, 28, 29, 32. R. I.—33. CONN.—35. May 25-Aug. 5.  
 In New England this species is confined to the immediate sea-coast.

**Teuchocnemis** Osten Sacken.

**T. lituratus** (Loew).  
 N. H.—Hampton, May 21 (*Shaw*).  
 MASS.—Concord; Brookline; Tyngsboro, June 5 (*Fall*); Natick and Sherborn; Woods Hole. May 17-June 15.

## Pterallastes Loew.

**P. thoracicus** Loew.

CONN.—New Haven, June 8, 1911.

## Syritta St. Fargeau et Serville.

**S. pipiens** (Linné).ME.—1, 4, 6, 8, 9. N. H.—11, 12, 13, 14, 15. VT.—16, 18, 19,  
21. June 2—July 30.MASS.—25, 26, 27, 28, 29, 30. R. I.—33. CONN.—35. June  
8—Aug. 28.

## Eumerus Meigen.

**E. strigatus** Fallen. The Lunate Onion-fly.ME.—Bar Harbor, July 25, 1916 (*Metcalf*).MASS.—Brookline, June, 1909; Melrose Highlands, 1914 (*Webber*); Cambridge, Aug. 6, 1908. CONN.—From bulbs, 1906 (*Chittenden*); Colebrook, Aug. 18, 1922 (*W. M. Wheeler*).

The larva lives in onions, narcissus and other bulbs. For its appearance in America, see Metcalf, 19—170.

## Xylota Meigen.

**X. angustiventris** Loew.

N. H.—White Mts., Aug.

CONN.—Darien, June 10.

**X. anthreas** Walker.

N. H.—.

CONN.—.

**X. hesperia atlantica** Shannon (*X. obscura* of authors).

ME.—Capens, July 16; Mt. Desert, July 14—29. N. H.—Franconia.

**X. ejuncida** Say.ME.—4, 5, 6, 8, 9, 10. N. H.—11, 13, 14, 15. VT.—21. June  
21—July 20.MASS.—23, 24, 25, 26, 27, 28, 32. R. I.—33. CONN.—34, 35.  
May 10—Sept. 1.**X. ejuncida elongata** Williston.

ME.—Capens, July 16; Bar Harbor, June 7—July 24.

CONN.—Stafford, Aug. 24 (*Britton*).**X. fraudulosa** Loew.

N. H.—White Mts.

MASS.—Chester, Aug. 4. CONN.—.

**X. confusa** Shannon.

ME.—Princeton, July 12, 1909.

**X. fascialis** Coquillett, 10—126 (*X. nemorum* of authors).N. H.—Mt. Washington, Glen House, June 13; Halfway House,  
July 6.

**X. subfasciata** Loew.

ME.—Capens, July 14. N. H.—Bretton Woods, June 24; Glen House, July 15.

**X. lobo** Walker (*X. marginalis* Williston).

ME.—Princeton, July 12. N. H.—Mt. Washington, July 15; Halfway House, July 6; Glen House, June 14; Franconia.

**X. chalybea** Wiedemann.

ME.—9. N. H.—13, 14. June 19—July 4.

MASS.—23, 24, 25, 27, 29. CONN.—35. June 6—July 4.

**X. curvipes** Loew.

ME.—3, 4, 8, 9. N. H.—11. June 11—Aug. 1.

**X. vecors** Osten Sacken.

ME.—4, 9. N. H.—11, 14. VT.—17, 19. June 4—Aug. 1.

MASS.—27 (Brookline). June 18.

**X. bicolor** Loew.

MASS.—Concord (*Barber*); Melrose Highlands, June 18; Nantasket, June 17 (*C. E. White, Jr.*). CONN.—New Haven, June 9.

**X. pigra** Fabricius.

ME.—6, 7. N. H.—11. June 12—26.

MASS.—25, 26, 27. CONN.—34. May 1—18.

## Brachypalpus Macquart.

**B. frontosus** Loew.

ME.—8, 9. N. H.—11, 14. June 13—22.

MASS.—25, 27, 32. CONN.—Apr. 7—May 31.

**B. rileyi** Williston.

MASS.—Sherborn, May 1, 1919 (*E. J. Smith*); Newton, Apr. 30, 1920 (*C. E. White, Jr.*).

## Criorrhina Meigen.

**C. intermedia** Johnson, 17—153.

N. H.—Jaffrey, June 15—18, 1917; Mt. Monadnock (summit), June 10, 1920; Dublin.

MASS.—Dartmouth, Apr. 25, 1916 (*N. S. Easton*).

**C. verbosa** Walker.

ME.—9. N. H.—11, 14, 15. Apr. 17.

MASS.—24, 25, 26, 27, 32. CONN.—Mar. 13—Apr. 19.

Cynorrhina Williston (*Blera Billberg*).**C. analis** (Macquart).

ME.—5, 8, 9. N. H.—14, 15. VT.—21. June 8—20.

MASS.—23, 25, 26, 27, 28, 29, 31. CONN.—34. May 30—July 22.

**C. armillata** (Osten Sacken).

ME.—Enfield (*Hitchings*). N. H.—Mt. Washington (*Mrs. Slosson*); carriage road, 2000 ft., June 17 (*L. W. Swett*).

*C. nigra* Williston.

ME.—6. N. H.—11, 14. June 9—July 6.

MASS.—27. May 8.

*C. badia* Walker (*C. intersistens* Walker).

ME.—8. N. H.—11, 14, 15. VT.—21. May 17—June 26.

MASS.—23, 27. CONN.—35. June 10—June 28.

*C. confusa* Johnson, 13—294.

ME.—4, 5, 7, 8. N. H.—11, 14. June 7—July 19.

*C. umbratilis* Williston.N. H.—North Conway, Aug. 18 (*A. M. Wilcox*).MASS.—East Walpole, May 26; Oak Bluffs, June 13, 1917; Ellis,  
May 24. CONN.—New Haven, June.

## Somula Macquart.

*S. decora* Macquart.

ME.—8. N. H.—11, 14. June 11—28.

MASS.—24, 27, 28, 31. CONN.—35. May 22—June 13.

## Milesia Latreille.

*M. virginiensis* (Drury).

MASS.—24, 27, 32. CONN.—34. June 20—Sept. 19.

## Spilomyia Meigen.

*S. fusca* Loew.ME.—4, 6, 8. N. H.—11, 14, 15. VT.—17, 19, 20. July 14—  
Sept. 12.

MASS.—23, 25, 27, 28. CONN.—34. July 15—Sept. 6.

*S. hamifera* Loew.

N. H.—White Mts., July 3.

MASS.—Boston, June 29; Sudbury, June 22, 1919 (*C. A. Frost*);  
Sherborn, June 15, 1920. CONN.—Colebrook, July 22  
(*Wheeler*).*S. longicornis* Loew.

VT.—17. Sept. 10.

MASS.—23, 25, 27, 31. CONN.—34, 35. Aug. 6—Sept. 11.

*S. quadrifasciata* (Say).ME.—1, 3, 4, 9. N. H.—11, 14, 15. VT.—17, 19. Aug. 17—  
Sept. 17.

MASS.—26, 27. CONN.—34. Aug. 19—Sept. 13.

## Sphecomyia Latreille.

*S. vittata* Wiedemann.

N. H.—11, 14, 15. VT.—21. May 30—June 21.

MASS.—23, 25, 27, 32. CONN.—35. May 17—June 18.

## Temnostoma St. Fargeau et Serville.

*T. aequalis* Loew.

ME.—4, 5, 7, 8. N. H.—11. VT.—17. June 9—July 25.

**T. alternans** Loew.

ME.—4, 6, 7, 8. N. H.—11, 14. VT.—17, 21. June 15—July 25.  
MASS.—26, 27. CONN.—34, 35. May 30—July 17.

**T. excentricum** Harris.

ME.—7, 8, 9. N. H.—11, 14. VT.—17. June 9—July 20.  
MASS.—23 (Mt. Greylock). June 15.

**T. venustum** Williston.

ME.—Saddleback Mt., 4000 ft., July 18, 1916 (*Metcalf*); Bar Harbor and Salisbury Cove, June 9. N. H.—Mt. Washington (*Mrs. Slosson*).  
MASS.—

**T. bombylans** (Fabricius).

ME.—5, 8, 9. N. H.—11, 14, 15. VT.—18, 21. June 9—July 9.  
MASS.—26, 27, 32. R. I.—33. CONN.—34, 35. May 30—Aug. 7.

**T. obscurum** Loew.

ME.—9. N. H.—11, 14. VT.—18. June 16—July 7.  
MASS.—23, 24, 27. CONN.—34, 35. May 30—June 19.

*Ceriodes Rondani* (*Ceria Fabricius*, not *Scopoli*, 1763).

**C. abbreviata** (Loew).

CONN.—New Haven (*Williston*).

**C. proxima** Curran, 24—228.

ME.—Metagamon, July 4, 1901. VT.—Bennington, June 18—21, 1915.

**C. willistoni** (Kahl).

MASS.—Forest Hills, Boston, June 4, 1913 (*P. W. Whiting*).

## CONOPIDAE.

*Conops* Linné.

**C. brachyrhynchus** Macquart.

MASS.—Hadley, July 7, 1909. CONN.—New Haven, July 6, 1913 (*W. E. Britton*).

**C. sylvosus** Williston.

N. H.—11, 13, 15. June 26—Aug. 2.

MASS.—24, 27. CONN.—34, 35. July 3—Aug. 21.

**C. xanthopareus** Williston.

MASS.—. CONN.—New Haven, Aug. 9; Sachem Head, Aug. 1.

*Physocephala* Schiner.

**P. furcillata** (Williston).

ME.—3, 4, 6, 7, 8, 9. N. H.—11, 12, 13, 14. VT.—17, 19, 20. July 4—Aug. 30.

MASS.—23, 25. CONN.—34. July 5—Aug. 24.

**P. marginata** (Say).

N. H.—White Mts. (*Williston*).

**P. sagittaria** (Say).

ME.—6. VT.—22. July 14–16.

MASS.—24, 25, 27, 29. CONN.—34. June 27–Aug. 10.

**P. tibialis** (Say).

MASS.—24, 25, 26, 27, 28, 29, 32. R. I.—33. CONN.—34, 35. June 25–Sept. 20.

**Zodion** Latreille.

**Z. abdominalis** (Say) (*Z. bicolor* Adams, see Banks, 16–196).

MASS.—North Adams, Aug. 10 (*Bryant*); Melrose Highlands, June 13 and Mashpee, June 2 (*Webber*).

**Z. fulvifrons** Say (*Z. abditus* Adams, see Banks, 16–193).

ME.—6, 8. N. H.—14, 15. June 8–Aug. 25.

MASS.—27, 29, 30, 31, 32. R. I.—33. CONN.—34, 35. June 13–July 11.

**Z. intermedium** Banks, 16–193.

ME.—8. N. H.—11, 14, 15. VT.—20. May 15–Aug. 16.

MASS.—25, 26, 27, 28. R. I.—33. CONN.—34. June 19–Sept. 5.

**Z. nanellum** Loew.

ME.—1, 3, 4, 7. N. H.—11, 15. VT.—19. July 16–Sept. 13.

**Z. perlongum** Coquillett.

ME.—8. N. H.—11, 15. July 12–Sept. 9.

MASS.—24, 27, 28, 32. CONN.—34. July 25–Sept. 16.

**Stylogaster** Macquart.

**S. biannulata** Say.

MASS.—Southbridge (*Bromley*). R. I.—Kingston, July 5 (*Barlow*). CONN.—

**S. neglecta** Williston.

MASS.—Auburndale, July 16; South Hadley, June 26; Westfield, July 10 (*Bryant*). CONN.—

**Dalmannia** R.-Desvoidy.

**D. nigriceps** Loew.

N. H.—11, 15. VT.—21. June 9–16.

MASS.—26, 27. CONN.—35. May 30–June 7.

**Thecophora** Rondani.

(*Ocemya* R.-Desvoidy; *Oncomyia* Loew.)

**T. abbreviata** (Loew).

ME.—4, 9. N. H.—11, 15. July 15.

MASS.—23, 25, 26, 27, 32. CONN.—34, 35. July 4–Aug. 24.

**T. baroni** (Williston).

N. H.—11, 12. July 5.

MASS.—27. R. I.—33. CONN.—35. Aug. 1–27.

**T. modesta** var. **melanopoda** (Williston).

N. H.—11, 12, 13, 14, 15. VT.—20. July 2–Aug. 18.

MASS.—23, 24, 26, 27. CONN.—35. June 27–Aug. 22.

**T. loraria** (Loew).

ME.—8. N. H.—11, 15. July 17–Sept. 5.

MASS.—23, 25, 27, 29. CONN.—34, 35. May 26–Aug. 25.

Myopa Fabricius.

**M. clausa** Loew.

ME.—4, 5, 7, 9. N. H.—11, 14, 15. VT.—20. May 31–July 15.

MASS.—23, 24, 25, 27. CONN.—35. May 18–June 10.

**M. vesiculosa** Say.

ME.—9. N. H.—11, 14, 15. May 12–June 18.

MASS.—27, 32. R. I.—33. CONN.—35. May 3–29.

**M. vicaria** Walker.

ME.—6, 9. N. H.—15. Apr. 22–May 5.

MASS.—25, 27, 32. R. I.—33. CONN.—35. Apr. 18–June 1.

**M. virginica** Banks, 16–198.

ME.—9. N. H.—12. VT.—21. June 8–July 14.

MASS.—23. CONN.—34. June 14–July 15.

PYRGOTIDAE.

Pyrgota Wiedemann.

**P. chagnoni** Johnson.

MASS.—West Pittsfield, July 1, 1924 (*Carpenter*). CONN.—Lyme, May 27, 1918 (*A. B. Champlain*).

**P. undata** Wiedemann.

ME.—6, 9. N. H.—11, 14. VT.—16, 21. June 9–19.

MASS.—23, 24, 25, 27, 28. CONN.—35. June 3–July 12.

**P. valida** (Harris).

N. H.—11, 14, 15. May 27.

MASS.—24, 26, 27. R. I.—33. CONN.—35. May 2–June 20.

OESTRIDAE.

Oestrus Linné.

**Oe. ovis** Linné. The Sheep Bot-fly.

ME.—Hallowell, July (*Harris Coll.*). N. H.—Dublin (*Harris Coll.*).

MASS.—Cambridge, July 1, 1838 (*Harris*). CONN.—

*Hypoderma* Clark.

**H. bovis** Linné. The Ox Warble Fly.

ME.—Oxford Co. (*Bishopp*). N. H.—Grafton, Merrimack and Rockingham Counties (*Bishopp*). VT.—Manchester. Bred from larva obtained from a cow June 7, 1910, pupated June 11, imago June 30 (*Johnson*, 10-231). Recorded by *Bishopp* from Franklin, Washington, Rutland and Windham Counties, 15-361.

MASS.—West Newbury. CONN.—Saybrook.

**H. lineata** De Villiers.

ME.—“Maine” (*Harris Coll.*). N. H.—Carroll Co.; Franconia. VT.—

MASS.—Melrose Highlands. CONN.—Stonington, May, 1914.

*Bogeria* Austen (*Cuterebra* of authors in part).

**B. buccata** (Fabricius). The Rabbit Bot-fly.

N. H.—Jaffrey, June 25, 1919 (*Miss Spaulding*).

MASS.—Winchendon, July 5, 1892 (*Morse*); West Newbury (*Merritt*); Swampscott, June 17, 1919 (*Walker*); Amherst, Aug. 4, 1916; Attleboro, June 20, 1920 (*C. A. Frost*).

**B. fontinella** (Clark). The Squirrel Bot-fly.

MASS.—Freetown, Aug. 13, 1908 (*Easton*); East Wareham, Aug. 20, 1911 (*Franklin*); Martha’s Vineyard, Aug. (*F. M. Jones*); Paxton, July.

**B. emasculator** (Fitch).

MASS.—Amherst, Aug. 9, 1916 (*Mass. Agric. College Coll.*).

This species also infests squirrels.

Larvae of *Bogeria* sp. have been obtained from the meadow mouse, Provincetown, Mass. (*G. S. Miller*); a tame rabbit, West Newbury, Aug. 20, 1908 (*Merritt*); and a kitten, Vernon, Conn., Oct. 2, 1920 (*Britton*).

## PHASIIDAE.

*Cistogaster* Macquart (*Gymnoclytia* Brauer and Bergenstamm).

**C. immaculata** Macquart.

ME.—9, 10. N. H.—15. VT.—20, 21. June 19—Aug. 8.

MASS.—23, 27, 30. R. I.—33. CONN.—34, 35. June 6—Sept. 20.

**C. occidua** (Walker).

ME.—2, 8, 10. N. H.—11, 15. VT.—16, 17, 19. June 8—Aug. 16.

MASS.—24, 26, 27, 28, 29, 30. R. I.—33. CONN.—34, 35. June 6—Sept. 22.

*Gymnosoma* Meigen.**G. fuliginosa** R.-Desvoidy.ME.—1, 2, 4, 6, 8, 9, 10. N. H.—11, 14, 15. VT.—18, 19, 21.  
June 13—Sept. 25.MASS.—24, 25, 26, 27, 29, 30. R. I.—33. CONN.—34, 35.  
June 6—Sept. 21.**Phasia** Latreille (*Alophora* R.-Desvoidy, 1830; *Phorantha* Rondani, 1862).**P. aeneoventris** (Williston).

ME.—1, 3, 4, 6, 7, 8. N. H.—11, 15. July 25—Sept. 25.

MASS.—23, 24, 25, 27, 28, 31. CONN.—35. June 13—Oct. 19.

**P. calyprata** (Coquillett).

MASS.—Charles River Village, Aug. 7; North Saugus, July 2.

**P. fenestrata** (Bigot) (*P. phasiatrata* H. E. Smith, 15—98; *Paraphasia fenestrata* Townsend, 15—20).

MASS.—Melrose Highlands, May 18, 1911 (Smith); Cohasset, June 30, 1914 (Webber).

**P. fumosa** (Coquillett).

N. H.—Pelham, Aug. 11, 1905 (J. C. Bridwell).

MASS.—Melrose Highlands, June 9—July 14; Amherst, July; Agawam, Oct. 27 (Smith). CONN.—Colebrook, July 13 (Wheeler).

**P. magnipennis** (Johnson), 04—19.

N. H.—Hampton, Sept. 9 (Shaw).

MASS.—Great Barrington, May 31, 1917 (W. I. Beecroft).

**P. nitida** (Coquillett).

MASS.—.

**P. phasioides** (Coquillett) (*Alophoropsis phasioides* Townsend, 15—20).

ME.—3, 8. N. H.—11. June 15—Sept. 25.

MASS.—24, 27. CONN.—34. July 12—13.

**P. pulvrea** (Coquillett) (*Oedematopteryx pulvrea* Townsend, 16—633).

ME.—Orono, Oct. 5, 1913 (Parshley). N. H.—Franconia (Mrs. Slosson); Jackson, Sept. 25 (Bryant).

MASS.—Cohasset, July 15, 1905 (Bryant). CONN.—Yalesville, Oct. 9 (Viereck).

**P. splendida** (Coquillett) (*Phasiomyia splendida* Townsend, 15—20).

ME.—1, 3, 4, 5, 8. N. H.—11. July 13—Sept. 25.

MASS.—27, 28. CONN.—34. July 10—Sept. 11.

**P. subopaca** (Coquillett).

N. H.—15. Oct. 15.

MASS.—27, 29, 31. CONN.—35. May 30—Oct. 19.

## Phoranthella Townsend, 15-23.

**P. occidentis** (Walker).

MASS.—Ellis Station, Norwood, May 24; Needham, Sept. 3.

CONN.—New Haven, Oct. 21 (*Viereck*).Parasitic on *Miris dolabrata* (Leonard, 16-236), and on the False Chinch-bug (Milliken and Wadley, 23-28).

## Euphorantha Townsend, 15-20.

**E. divisa** (Coquillett).ME.—Orono, Oct. 5, 1913 (*Parshley*).MASS.—Milton, Sept. 20 (*Dr. Minot*); Forest Hills and Stony Brook Res., Sept. 15 (*G. C. Wheeler*); West Bedford, Sept. (*L. W. Swett*); Sherborn, Sept. 12 (*Frost*).

## Trichoclytia Townsend, 16-633.

**T. atrata** Coquillett (*Clytiomyia atrata* Coquillett).

ME.—6, 8. N. H.—11, 14. June 4-26.

MASS.—24, 26, 27. May 24-Oct. 3.

## Trichopoda Latreille.

Subgenus *Trichopodopsis* Townsend, 13-148.**T. cilipes** Wiedemann.

MASS.—West Roxbury.

**T. pennipes** (Fabricius).

N. H.—15.

MASS.—23, 24, 26, 27, 32. CONN.—35. June 23—Oct. 1.

Parasitic on the Squash-bug (*Anasa tristis*), Worthley, 24-7.

## Polistomyia Townsend, 08-132 and 15-121.

**P. plumipes** var. *trifasciata* (Loew).“CONN.” Parasitic on grasshoppers, *Dissosteira*.

## Gymnophania Brauer and Bergenstamm.

**G. montana** Coquillett.ME.—Mt. Desert, July 14-25; Houlton, Aug. 25 (*Alexander*).N. H.—Mt. Washington (*Mrs. Slosson*); Hampton, June 30-July 4 (*Shaw*).

## TACHINIDAE.

## Myiophasia Brauer and Bergenstamm.

**M. metallica** (Townsend) (*M. aenea* of authors; see Aldrich, 24-213).N. H.—15, Hampton (*Shaw*).

MASS.—26, 27, 28, 29, 32. R. I.—33. CONN.—35. June 28-Aug. 22.

Parasitic on various species of weevils: *Balanus*, *Conotrachelus*, etc.

*Ennyommopsis* Townsend, 15-109.**E. nigrifrons** (Townsend).

ME.—8. VT.—18. Aug. 22, 23.

MASS.—27, 28, 29. CONN.—34. July 25-Oct. 5.

*Ennyomma* Townsend.**E. ruficornis** (Townsend).

ME.—3. N. H.—11. VT.—19. Aug. 17-28.

MASS.—23, 27. Aug. 8-22.

*Mauromyia* Coquillett.**M. pulla** Coquillett.N. H.—White Mts. (*Morrison*). VT.—Bolton Mt., July 16, 1922  
(*Bryant*).*Emphanopteryx* Townsend.( *Cryptomeigenia* of authors, not Brauer and Bergenstamm.)**E. prisca** (Walker) (*C. theutis* of authors in part; *Eumyothryia illinoiensis* Townsend).

ME.—8. N. H.—11, 14, 15. Apr. 29-June 21.

MASS.—25, 26, 27, 32. May 2-5.

Parasitic on the various species of May Beetles, Davis, 19-107.

**E. menapis** (Walker).

ME.—9. N. H.—11, 14, 15. VT.— June 3-10.

MASS.—24, 26, 27, 28. R. I.—33. CONN.—35. May 19-July 22

*Eulasiona* Townsend.**E. comstockii** Townsend.

ME.—7. N. H.—11, 14. June 7-July 21.

MASS.—23, 25, 27. CONN.—35. May 24-June 5.

*Ocypterosoma* Townsend, 15-19.**O. polita** (Coquillett) (*Admontia polita* Coquillett).

ME.—Mt. Desert, July 16, 1918.

MASS.—Woburn, June 8, 1921.

*Euhyperechteina* Townsend, 15-19.**E. nasoni** Coquillett (*Admontia nasoni* Coquillett).

MASS.—Medford, June 24, 1922 (Barber).

*Iconomedina* Townsend, 16-626.**I. washingtonae** (Coquillett).

N. H.—Mt. Washington.

*Spathimeigenia* Townsend, 15-19.**S. nigriventris** H. E. Smith, 17-139.

MASS.—“Hatch Experiment Station” [Amherst].

**S. spiniger** Townsend, 12-19 (*Admontia demylus* Coquillett, not Walker).

CONN.—Easton, July 6, 1922, larva from saw-fly larva; emerged Aug. 25, 1922 (Zappe).

Parasitic on *Lophyrus abbotti* and *L. lecontei*.

**Schizotachina** Walker.

**S. convecta** Walker (*Clausicella usitata* Coquillett).

N. H.—White Mts. (Morrison); Canobie Lake (Dimmock).

MASS.—New Bedford (Hough); Fall River, June 11 (Cushman).

CONN.—East River.

**S. vitinervis** Thompson, 11-268.

N. H.—Hampton, May 5, 1908 (Shaw).

MASS.—Lowell, May 31, June 1 (Thompson); Mt. Tom, Sept. 22; Auburndale, July 16.

**Nephopteropsis** Townsend, 16-623.

**N. johnsoni** (Coquillett) (*Clausicella johnsoni* Coquillett).

MASS.—Lincoln, Aug. 31 (G. W. Barber); Brookline, Sept. 6; Nantucket, Aug. 9.

**Phylacteropoda** Townsend, 16-623.

**P. tarsalis** (Coquillett).

N. H.—White Mts. (Morrison); Mt. Washington (Mrs. Slosson).

Vt.—Killington Peak, Aug. 27, 1919.

**Plectops** Coquillett.

**P. melissopodis** Coquillett.

ME.—Machias, July 19. N. H.—Hampton, May 20 (Shaw).

MASS.—Boston, Aug. 16; Dedham, June 3; Franklin, May 29 (Barber); Plymouth, July 28. CONN.—New Haven, May 24 (Britton).

**Lispidea** Coquillett.

**L. palpiger** Coquillett.

ME.—Orr's Isl., July 24. Vt.—Amsden, July 10.

MASS.—Chester, Aug. 6; Framingham, Aug. 17 (Frost). CONN.—New Haven, July 20 (Walden).

**Thryptocera** Macquart.

**T. americana** Townsend (*Polychaetoneura elyii* Walton, 14-91).

ME.—Northeast Harbor, June 26-July 16 (Dr. Minot).

R. I.—Kingston, Aug. 13 (Barlow). CONN.—East River, Aug. 2, 1912 (*Ely*).

Bred from *Schizura concina*.

**T. atripes** Coquillett.

MASS.—New Bedford (Hough).

**T. flavipes** Coquillett.

N. H.—Mt. Washington (*Mrs. Slosson*); Bretton Woods, June 24–26.

**Euryceromyia** Townsend.**E. robertsoni** Townsend.

MASS.—Squantum, Oct. 17, 1904 (*A. P. Morse*). CONN.—New Haven, June 24, 1902 (*Moore*).

**Actia R.-Desvoidy.****A. palloris** Coquillett.

ME.—Little Black River Rapids, Sept. 13, 1907 (*Cushman*); Northeast Harbor, July 6, 1909 (*Dr. C. S. Minot*). N. H.—“New Hampshire” (*Coquillett*). VT.—Norwich, July 7; Mt. Ascutney, July 11.

**A. pilipennis** (Fallen).

ME.—4, 8. N. H.—11, 15. VT.—19. June 9–Sept. 9.

MASS.—24, 26, 27, 28, 29. R. I.—33. CONN.—35. July 4–Nov. 15.

**Dichaetoneura** Johnson, 07–9.**D. leucoptera** Johnson, 07–9.

ME.—6, 8, 9. N. H.—14, 15. VT.—21. July 5–Aug. 12.

MASS.—24, 25. CONN.—34. July 6–15.

Parasitic on *Archips cerasivorana* and *A. ferradana*.

**Chaetophleps** Coquillett.**C. setosa** Coquillett.

ME.—Orono (*Alexander*); Monmouth, July 19 (*Frost*); Mt. Desert, July 12. N. H.—Canobie Lake (*Dimmock*).

MASS.—. CONN.—Danbury, June 15.

**Celatoria** Coquillett.**C. diabrotica** (Shimer).

N. H.—Hampton, Sept. 16, 1905 (*Shaw*).

MASS.—Auburndale, July 12; Manomet, July 17 (*Brooks*); Barnstable, July 5.

Parasitic on Squash Beetles, *Diabrotica vittata* and *D. 12-punctata*.

**C. spinosa** Coquillett.

ME.—6, 8. N. H.—11, 14, 15. VT.—21. June 4–Sept. 6.

MASS.—27. R. I.—33. CONN.—35. May 26–Oct. 10.

Parasitic on the Dogwood Flea-beetle (*Altica corni*) and on the Elm Flea-beetle (*Altica ulmi*), see W. C. Woods, Bull. 273, Maine Agric. Exp. Sta., p. 173 and 193.

**Euadmontia** Townsend, 15–19.**E. pergandei** (Coquillett).

ME.—1. N. H.—11. VT.—21. July 11–Aug. 19.

MASS.—24, 26, 27, 28, 29. CONN.—35. July 4–Aug. 30.

**Hylotomomyia** Townsend, 16-31.**H. hylotomae** (Coquillett).

MASS.—Woods Hole; Melrose Highlands, June 16.

Parasitic on saw-fly, *Hylotoma humeralis* Beauvois.**Aubaeanaetia** Townsend, 19-569.**A. assimilis** Townsend, 19-561 (*Hypostena floridensis* of authors, not Townsend).

ME.—8. N. H.—11, 14. June 7-July 29.

MASS.—23, 25. June 14-Aug. 5.

**Xenadmontia** Townsend, 15-22.**X. degeerioides** (Coquillett).

ME.—7. N. H.—11, 14, 15. June 6-July 19.

MASS.—26, 27, 28, 29. May 15-Sept. 22.

**Neadmontia** Townsend, 12-164.**N. limata** (Coquillett).

MASS.—North Saugus, Aug. 21.

Parasitic on the larvae of Tipulidae.

**Parameigenia** Townsend, 19-576.**P. albifacies** (Townsend), 19-576 (*Paradexodes albifacies* Townsend, 08-102).

N. H.—White Mts. (Dimmock).

MASS.—North Adams, June 14, 1906; Melrose Highlands, Sept. 29.

**Lixophaga** Townsend, 08-86 (*Euzenillia* Townsend, 11-148).**L. variabilis** (Coquillett) (*E. aurea* Townsend, 11-148; 12-111; 15-121; 16-31).

ME.—8. N. H.—11, 15. June 12-Sept. 6.

MASS.—26, 27. CONN.—35. June 11-Aug. 15.

Parasitic on the Coddling Moth and on *Pyrausta penitalis*.**Hypostena** Meigen.**H. gilvipes** Coquillett.

MASS.—New Bedford (Hough).

**Methypostena** Townsend, 08-67.**M. barbata** (Coquillett).

ME.—6, 8. N. H.—11. July 18-19.

MASS.—26, 27, 32. CONN.—35. May 16-Aug. 4.

Parasitic on Leaf Beetles, *Disonycha xanthomelaena* and *Deloyala clavata*.**Pseudomyothria** Townsend.**P. indecisa** Townsend.

MASS.—Southbridge, July 23. CONN.—New Haven, Aug. 1.

*Oedematoecera* Townsend, 16-621.

**Oe. flaveola** (Coquillett).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Wellesley, Aug. 26 (*Morse*); Cohasset, July 15 (*Bryant*); Amherst. CONN.—Prospect.

*Paradexodes* Townsend, 08-101.

**P. aurifrons** Townsend, 08-101.

MASS.—*North Saugus*, July 14 (Gipsy Moth Laboratory).

*Pseudeuantha* Townsend, 15-416 (*Anaporia* Townsend, 19-560).

**P. coquilletti** Aldrich, 21-90.

N. H.—White Mts. (*Morrison*).

MASS.—May 5. CONN.—Lyme.

Bred from *Tortricidia flexuosa*.

**P. pristis** (Walker) (*Macquartia pristis* of authors in part; *Aporia limacodis* Townsend).

ME.—8. N. H.—11. VT.—20, 21. June 5-July 18.

MASS.—23, 27, 29, 31, 32. CONN.—35. June 20-July 25.

Parasitic on *Empretia stimulea*, *Euleia ceppus*, etc.

*Xanthocera* Townsend, 15-22.

**X. clistoides** Townsend (*Hyalurgus johnsoni* Coquillett, not Townsend, 15-22).

MASS.—Ipswich, June 10.

*Polidea* Macquart.

**P. areos** Walker.

ME.—1, 3, 4, 6, 8. N. H.—11, 12, 13, 14, 15. VT.—19, 20. June 18-Sept. 25.

MASS.—24, 27, 30, 32. R. I.—33. CONN.—35. May 28-Sept. 22.

*Chaetophlepsis* Townsend, 15-422.

**C. tarsalis** Townsend, 15-423 (see Aldrich, 23-161) (*Hypocheata longicornis* Coquillett, not Schiner; *H. endryae* H. E. Smith, 16-94).

ME.—Wales, June 18 (*Frost*). N. H.—White Mts. (*Morrison*).

MASS.—Brookline, June 3; Newton; Fall River, May 13 (*Easton*).

R. I.—Kingston, May 28 (*Barlow*).

Bred from a larva of *Eudryas grata*, Apr. 12, 1911 (Smith, 6-94).

*Pelatachina* Meade.

**P. pellucida** Coquillett.

MASS.—“Lynn Woods,” near Lynn.

Bred from *Euvanessa antiopa*.

*Apinops* Coquillett.**A. atra** Coquillett.

ME.—Southwest Harbor, Aug. 20. N. H.—Mt. Washington, Sept. 19.

*Genea Rondani*, 1850.

**G. analis** (Say), see Aldrich, 24–210.

MASS.—Bashbish Falls, June 26; Cohasset, Sept. 8, 1907 (*Bryant*).  
CONN.—

**G. texensis** Townsend (*Dejeaniopsis texensis* Townsend, 16–321).

ME.—Princeton, July 12. Vt.—Mt. Equinox, June 5.  
CONN.—Colebrook, July 13 (*Wheeler*).

*Leskiopsis* Townsend, 16–627.

**L. thecata** Coquillett.

MASS.—Mt. Tom, July 14. CONN.—

*Myobiopsis* Townsend, 16–628.

**M. similis** Townsend, 16–628.

N. H.—13, 14, 15. Aug. 20–Sept. 10.

MASS.—23, 27, 28, 29. R. I.—33. CONN.—34, 35. July 15–Sept. 8.

*Leskiomima* Brauer and Bergenstamm.

**L. tenera** (Wiedemann).

N. H.—Franconia (*Mrs. Slosson*); Jaffrey, June 14; Durham, July 27 (*Lovry*).

MASS.—Sharon, Aug. 25; Mt. Tom, Sept. 22. CONN.—New Haven.

*Paradionaea* Townsend, 16–631.

**P. atra** (Townsend) (*Leucostoma atra* Townsend, genotype).

ME.—1. N. H.—11. Vt.—21. June 18–Aug. 19.

MASS.—24, 26, 27, 28. R. I.—33. July 16–Sept. 8.

**P. senilis** (Townsend).

MASS.—Tisbury, July 21 (*Cushman*). CONN.—New Haven, June 20.

*Sciasma* Coquillett.

**S. frontalis** H. E. Smith, 17–56.

MASS.—West Springfield, Aug. 13, 1915 (*Smith*); Essex Co., May 2, 1921 (*Morse*).

**S. nebulosa** Coquillett.

N. H.—Hampton, June 17, 1910, and July 30, 1923 (*Shaw*).

MASS.—New Bedford (*Hough*).

*Hyalomyodes* Townsend.**H. triangulifera** (Loew).

ME.—4, 6, 7, 8, 9. N. H.—11, 12, 15. VT.—17, 19. June 21—Sept. 26.

MASS.—23, 27. R. I.—33. CONN.—34, 35. May 30—Oct. 16. Bred from *Haltica bimarginata* by W. C. Woods.*Psalidopteryx* Townsend, 16—21.**P. slossonae** Townsend, 16—22.N. H.—*Mt. Washington* (*Mrs. Slosson*).*Ormia* R.-Desvoidy (*Oestrophasia* Brauer and Bergenstamm).**O. clausa** (Brauer and Bergenstamm).

N. H.—15. July 5—Sept. 5.

MASS.—23, 26, 27, 28. R. I.—33. June 2—Aug. 7.

**O. signifera** Van der Wulp.

N. H.—Franconia.

R. I.—Buttonwoods, June 18, 1912. CONN.—South Meriden, July 2 (*H. L. Johnson*).*Eliozeta* Rondani, 1856 (*Clytiomyia* Rondani, 1861).**E. flava** Townsend.

ME.—1, 3, 8, 9. N. H.—11. July 13—Sept. 13.

MASS.—24, 29. CONN.—35. May 28—July 26.

*Eubrachymera* Townsend, 18—162.**E. debilis** Townsend, 18—162.

ME.—Southwest Harbor, July 15—20.

*Eutricha* Coquillett.**E. exile** (Coquillett) (*E. masuria* Coquillett, not Walker).

ME.—9. N. H.—11, 15. June 15—18.

MASS.—24, 27, 28. CONN.—35. May 15—July 31.

Parasitic on May Beetles (Davis, 19—112).

*Xanthomelanodes* Townsend, 08—129 (*Xanthomelana* Van der Wulp).**X. arcuata** (Say).N. H.—Holderness, Aug. 2, 1899 (*Morse*); Hampton, Aug. 10 (*Shaw*).MASS.—Beverly, Aug. 22; Springfield, July 13. CONN.—Westbrook, Aug. 30; Colebrook, Aug. 19 (*Wheeler*).**X. flavipes** (Coquillett).VT.—Mt. Ascutney, July 23, 1912 (*W. S. Brooks*).MASS.—Horse Neck Beach, Aug. 4, 1896 (*Hough*); Auburndale, Aug. 13, 1904.

**Hemyda R.-Desvoidy.****H. aurata** R.-Desvoidy.N. H.—Hampton, Aug. 25 (*Shaw*).Mass.—Groton, July 8; Brookline, Sept. 7; Framingham, Aug. 18 (*Frost*); Cambridge, Sept. 13. Conn.—Yalesville, Sept. 24.**Siphophyto Townsend.****S. floridensis** Townsend.

ME.—8. N. H.—11, 14. June 16—Aug. 25.

Mass.—23, 24, 26. July 16—Aug. 7.

**Epigramyia Townsend.****E. polita** Townsend.N. H.—White Mts.; Hampton, May 22 (*Shaw*).Mass.—Bridgewater, July 11, 1905 (*Cushman*). Conn.—Rowayton, June 12.**Siphoclytia Townsend.****S. robertsoni** Townsend.Conn.—New Haven, June 26, 1902 (*E. J. S. Moore*).**Pseudosiphona Townsend, 16–622.****P. brevirostris** (Coquillett).

N. H.—Cornish, July 13, 1908.

Conn.—Winnipauk, Aug. 4, 1908.

**Siphona Meigen.****S. geniculata** (DeGeer).

ME.—1, 4, 7, 8, 9. N. H.—11, 13, 15. VT.—19. June 9—Sept. 10.

Mass.—27, 29, 30, 32. R. I.—33. Conn.—35. May 26—Aug. 13.

**S. lutea** (Townsend) (*Crocuta lutea* Townsend, 19–583).N. H.—Franconia, July 20–21, 1915 (*Townsend*).**Metaplagia Coquillett.****M. occidentalis** Coquillett.Mass.—Melrose Highlands, June 15 (*H. E. Smith*).**Anthomyiopsis Townsend, 16–21.****A. cypseloides** Townsend, 16–21.N. H.—Franconia (*Mrs. Slosson*).**Blepharigena Rondani** (*Paraplagia* Brauer and Bergenstamm).**B. spinulosa** (Bigot).ME.—Eliot, Sept. 17, 1920 (*Morse*).Mass.—New Bedford (*Hough*); West Springfield, Aug. 24 (*Smith*).

Conn.—Strafford, Aug. 24.

*Cyrtophloeba* Rondani.**C. horrida** Coquillett.

ME.—8. N. H.—15. VT.—21. Apr. 25—Aug. 11.

MASS.—23, 24, 26, 27, 32. CONN.—35. May 4—June 20.

*Voria* R.-Desvoidy, 1830 (*Plagia* Meigen, 1838).**V. americana** Van der Wulp.

ME.—Mt. Desert, July 20—Sept. 12; Capens, July 16.

MASS.—Auburndale, Sept. 4—Oct. 20; Melrose Highlands, June 15; Nantucket, Aug. 8.

*Siphoplagia* Townsend.**S. rigidirostris** (Van der Wulp).MASS.—Melrose Highlands, June 24; Wellesley, Sept. 21 (*Morse*).CONN.—New Haven, June 24 (*Moore*); Colebrook, July 12 (*Wheeler*).*Pseudotractocera* Townsend.**P. lachnostenae** (Townsend), 08—106.MASS.—Cohasset, Aug. 20, 1905 (*Bryant*).*Distichona* Van der Wulp.**D. auriceps** Coquillett.MASS.—Melrose Highlands, Sept. 13 (*Tothill*); Andover, Sept. 25.*Siphosturmia* Coquillett.**S. rostrata** Coquillett.

MASS.—Melrose Highlands, July 3.

*Viviania* Rondani (*Biomia* of authors; *Eubiomyia* Townsend, 16—74).**V. georgiae** Brauer and Bergenstamm (*P. calosomae* Coquillett, MS.).MASS.—Amherst, Lyndfield, June 7, and Essex Co., Sept. 7 (*Morse*); Melrose Highlands, Gipsy Moth Laboratory, June 16. A parasite of the Calosoma Beetle.*Belvoscia* R.-Desvoidy (*Latreillimyia* Townsend, 08—105).**B. bifasciata** (Fabricius).

N. H.—15. Sept. 8.

MASS.—23, 24, 25, 27. R. I.—33. CONN.—34, 35. July 8—Sept. 4.

Parasitic on *Citheronia regalis*, *Dryocampa rubicunda*, etc.*Triachora* Townsend, 08—105.**T. unifasciata** (R.-Desvoidy).

MASS.—23, 24, 26, 27. CONN.—34, 35. June 15—Sept. 7.

Parasitic on the Army Worm (*Helophila unipunctata*).*Melanophrys* Williston.**M. insoleta** (Walker).

ME.—9. N. H.—11, 14, 15. VT.—21. June 18—21.

MASS.—24, 27. CONN.—35. May 24—June 23.

*Aphria* R.-Desvoidy.**A. ocypterata** Townsend.ME.—Orono (*Hitchings*). N. H.—Franconia.MASS.—Winchendon, July 5, and Dover, July 17 (*Morse*); Stony Brook Res., Aug. 1 (*Taylor*); Wollaston, Sept. 5; Indian Orchard, Aug. 15 (*Smith*).Parasitic on *Carneades messoria*.*Cylindromyia* Meigen, 1803 (*Ocyptera* Latreille, 1805).Subgenus *Cylindromyia* Meigen.**C. argentea** (Townsend) (not Coquillett).

ME.—9, 10. N. H.—11, 15. June 22—July 27.

MASS.—25, 27, 28, 29. R. I.—33. CONN.—34, 35. June 15—Sept. 23.

**C. sp.**

MASS.—Waltham.

Subgenus *Neocyptera* Townsend, 16—32.**C. dosiades** (Walker).

ME.—4, 6, 8, 9. N. H.—11, 15. VT.—19, 20, 21. June 19—Sept. 11.

MASS.—23, 24, 25, 27, 29. CONN.—34, 35. July 5—Aug. 16.

*Linnaemyia* R.-Desvoidy.(Bonellia R.-Desvoidy; *Bonellimyia* Townsend, 18—117.)**L. haemorrhoidalis** (Fallen) (*L. picta* Meigen).

ME.—8, 10. N. H.—11, 14. VT.—19. July 18—Sept. 11.

MASS.—23, 24, 26, 27, 32. R. I.—33. CONN.—35. July 10—Sept. 9.

*Bonnetia* R.-Desvoidy.**B. comta** (Fallen).

ME.—1, 4, 6, 8, 9. N. H.—11. VT.—19, 21. June 24—Sept. 21.

MASS.—23, 24, 26, 27, 28, 29, 30. R. I.—33. CONN.—34. June 2—Sept. 7.

Parasitic on *Agrotis ypsilon* and *Carneades messoria*.*Pyraustomyia* Townsend, 16—627.**P. penitalis** (Coquillett).

MASS.—Arlington, July 8, 1920 (Anderson).

This specimen may have been introduced from the West in connection with some work on the corn-borer parasites.

*Ernestia* R.-Desvoidy (see Curran, 24—214).*Mericia* R.-Desvoidy.**E. flavigornis** Brauer.

ME.—Capens, July 14. N. H.—Randolph, July 12; Bretton Woods, June 24—Aug. 15; Jaffrey, June 18.

**E. ampelus** (Walker) (*Panzeria radicum* of authors in part).  
 ME.—8, 10. N. H.—11, 14, 15. VT.—19. June 3—Aug. 21.  
 MASS.—24, 27, 29. CONN.—35. May 7—Aug. 19.  
 Parasitic on the Fall Web-worm, etc.

**E. arcuata** (Tothill), 21—248.  
 ME.—8. N. H.—11, 14. VT.—21. June 9—July 7.  
 MASS.—23, 24, 26, 27. May 10—June 16.

**E. johnsoni** Tothill, 21—229.  
 N. H.—Glen House, base of Mt. Washington, June 11, 1916.  
 MASS.—Wellesley (*Morse*); Melrose Highlands and North Saugus  
 (*Tothill*).

**E. nigropalpis** Tothill, 21—247.  
 ME.—Sugar Isl., Moosehead Lake, July 17; Mt. Desert, Aug. 21.  
 VT.—Killington Peak, Aug. 28.  
 MASS.—Beverly, Aug. 22; Cohasset, Sept. 10 (*Bryant*); Amherst.

**E. platycarina** Tothill, 21—270.  
 ME.—3, 4, 7, 8, 10. N. H.—11. VT.—19. July 7—Sept. 6.  
 MASS.—23, 24, 25. July 24—Aug. 28.

*Macromeigenia* Brauer and Bergenstamm.

**M. chrysoprocta** (Wiedemann).  
 N. H.—Farmington (*Fall*).  
 MASS.—Melrose Highlands and North Saugus, July 15—30;  
 Agawam, Aug. 14.

**Chrysotachina** Brauer and Bergenstamm (*Eugymnochaeta* Townsend, 12—314;  
 18—182).

**C. alcedo** (Loew).  
 N. H.—12, 15. VT.—21. June 21—July 3.  
 MASS.—24, 27. CONN.—35. June 10—23.

**C. ruficornis** (Williston).  
 ME.—Oquossoc, July 1. N. H.—Hampton, May 15 (*Shaw*).  
 MASS.—Mt. Wachusett, May 30. CONN.—Darien, June 12.

*Gymnochaeta* R.-Desvoidy (*Chlorometaphyto* Townsend, 18—180).

**C. vivida** Williston.  
 ME.—Bar Harbor, June 21, 1922.  
 MASS.—Amherst.

*Nemorilla* Rondani.

**N. insolens** Aldrich and Webber, 24—6.  
 MASS.—Melrose Highlands, May—June, 1918.

**N. maculosa** (Meigen) (*Exorista pyste* (Walker) Coquillett).  
 ME.—8, 10. N. H.—11, 14, 15. June 25—Sept. 7.  
 MASS.—26, 27, 28, 29. R. I.—33. CONN.—35. June 3—Oct. 2.  
 Bred from the Fire-worm (*Peronia minuta*), *Archips rosana*,  
 Corn-borer (*Pyrausta nubilalis*), etc.

**Zenillia** R.-Desvoidy.

Subgenus **Zenillia** R.-Desvoidy.

**Z. amplexa** (Coquillett) (*Exorista amplexa* Coquillett).

ME.—9. N. H.—11.

MASS.—24, 26, 27. R. I.—33. June 9—Oct. 8.

**Z. coerulea** Aldrich and Webber, 24—23.

MASS.—Auburn, June 29, July 12 (*Eels*).

Reared from *Cimbex americana*.

**Z. eudryae** (Townsend) (*Oxexorista thompsoni* Townsend, 15—21).

ME.—8. N. H.—11. July 13.

MASS.—24, 27, 32. R. I.—33. CONN.—35. June 22—Aug. 28.

Parasitic on *Eudryas grata* and *E. unio*, *Alypia*, *Automeris*.

**Z. formosa** Aldrich and Webber, 24—23.

MASS.—West Medford, May 31; Melrose Highlands (*Townsend*).

CONN.—North Haven, Aug. 3 (*Viereck*).

Reared from *Automeris io* and *Agrotis ypsilon*.

**Z. helvina** (Coquillett) (*Exorista helvina* Coquillett).

ME.—8. N. H.—11, 15. Aug. 22.

MASS.—23, 27. July 29—Aug. 28.

Reared from *Amphidiosia cognataria*.

**Z. protuberans** Aldrich and Webber, 24—15.

Vt.—*Rockingham*, July 23—25, 1915 (*Culver*).

Reared from *Malacosoma disstria*.

**Z. reclinata** Aldrich and Webber.

ME.—Liberty, July 20, 1912 (*Cushman*). Vt.—Mt. Ascutney,  
 2500 ft., July 11, 1908.

Subgenus **Phryxe** R.-Desvoidy.

**Z. caesar** (Aldrich), 16—20 (*Exorista nigripalpis* Townsend, 1896,  
 not of Macquart, 1848).

ME.—2, 4, 8, 9, 10. N. H.—11, 13, 15. Vt.—19. June 16—  
 Sept. 13.

MASS.—23, 26, 27, 28. June 4—Aug. 28.

Reared from *Cacoecia*, *Pyrausta*, *Crambus*, etc.

**Z. crassiseta** Aldrich and Webber, 24—29.

MASS.—Andover.

**Z. vulgaris** (Fallen) (*Exorista vulgaris* of authors).

ME.—4, 5, 7, 8, 10. N. H.—11, 13. July 3—Sept. 10.

MASS.—23, 24, 27, 29. May 20—Sept. 19.

Bred from the Cabbage Butterfly (*Pontia rapae*) and Spruce  
 Bud-moth (*Harmologa fumiferana*).

Subgenus *Parexorista* Brauer and Bergenstamm.

**Z. affinis** (Fallen) (*Exorista affinis* of authors).

ME.—4, 5, 8, 9. N. H.—11, 15. June 16—Sept. 22.

MASS.—24, 26, 27, 28. July 16—Aug. 1.

**Z. cheloniae** Rondani (*Exorista cheloniae* of authors).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Melrose Highlands, May 17—22; Coffin's Beach, May 30.

CONN.—Portland (*Zappe*).

Bred from the American Tent Caterpillar, etc.

**Z. confinis** (Fallen) (*Exorista confinis* of authors).

ME.—4, 6, 8. N. H.—11, 14, 15. VT.—21. June 18—Aug. 20.

MASS.—24, 26, 27, 28, 29, 32. R. I.—33. CONN.—35. June 9—Sept. 6.

**Z. fronto** Coquillett.

N. H.—Mt. Washington (*Mrs. Slosson*).

Subgenus *Eusisyropa* Townsend, 08—97.

**Z. blanda blanda** Osten Sacken (*Exorista boarmiae* Coquillett).

ME.—8. N. H.—11, 13, 14, 15. July 8—Aug. 16.

MASS.—25, 26, 27, 29. R. I.—33. June 14—Aug. 28.

Parasitic on *Vanassa cardui*, *Thanaos brizo*, etc.

**Z. blanda virilis** Aldrich and Webber, 24—40.

MASS.—Gipsy Moth Laboratory (Melrose Highlands).

**Z. blandita** (Coquillett) (*Exorista blandita* Coquillett).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—North Saugus, Aug. 1; Auburndale, Aug. 28. R. I.—Buttonwoods, June 22.

**Z. futilis** (Osten Sacken) (*Exorista futilis* Osten Sacken; *Euexorista futilis* Townsend, 12—166).

ME.—9. N. H.—14, 15. VT.—18. June 27—Sept. 10.

MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—35. June 5—Oct. 21.

Parasitic on *Vanassa atalanta*, etc.

*Phorocera* R.-Desvoidy.

Subgenus *Phorocera* R.-Desvoidy.

**P. slossonae** Townsend, 08—108 (*Euphorocera cinerea* Coquillett, 1897, not Van der Wulp, 1890).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Norwood, Apr. 3 (Reiff); Duxbury, Aug. 12 (Preston).

CONN.—Lyme, Apr. 3 (Champlain).

Subgenus *Parasetigena* Brauer and Bergenstamm.

**P. claripennis** (Macquart) (*Euphorocera claripennis* Coquillett; *Exorista petiolata* Coquillett; *Neophorocera edwardsii* Townsend, 12-163).

ME.—9. N. H.—11, 15. July 26—Sept. 11.

MASS.—26, 27, 29, 31. R. I.—33. CONN.—34, 35. June 20—Sept. 8.

Parasitic on the Tussock Moth, Fall Web-worm, Cutworms, etc.

**P. einaris** Smith, 12-119 (*Neopales einaris* Britton, 20-193).

MASS.—26, 27, 28, 29. CONN.—35. July 27—Sept. 20.

**P. hamata** Aldrich and Webber, 24-62.

MASS.—Nantucket, Aug. 8. CONN.—New Haven.

Reared from sawfly, *Diprion simile*, July 19, 1915 (Britton).

**P. imitator** Aldrich and Webber, 24-63.

CONN.—Lyme, Sept. 4, 1909 (Champlain).

Subgenus *Patelloa* Townsend.

**P. leucaniae** Coquillett.

MASS.—Arlington, July 3 (Barber). CONN.—.

Parasitic on the Army Worm, etc.

**P. pachypyga** Aldrich and Webber, 24-70.

N. H.—Glen House, June 11.

MASS.—Lunenburg, May, 1914 (Webber); Lynn ("Woods"), May 7, 1916 (Preston); Winchendon, May 7 (Russell); Concord, May 30 (Reiff).

**P. silvatica** Aldrich and Webber, 24-72.

MASS.—Melrose Highlands, June 25; Sunderland, May 29.

CONN.—New Haven, May 21 (Champlain).

Subgenus *Neopales* Coquillett.

**P. erecta** Coquillett.

ME.—Waterville.

MASS.—Malden; Watertown, Aug. 12, 1919 (H. E. Smith); West Medford (Vinal); Cambridge (Caffrey), reared from the Cornborer, *Pyrausta nubilalis*. CONN.—Wallingford, reared from *Desmia funeralis* by A. B. Porter.

**P. noctuiformis** (H. E. Smith), 15-101.

ME.—Sugar Isl., Moosehead Lake, July 17; Orr's Isl., July 25, 1907.

MASS.—Revere; North Andover.

**P. sternalis** Coquillett (*Phyllophorocera sternalis* Townsend, 16-621).

ME.—East Eddington (Hough). N. H.—Franconia (Mrs. Slosson).

**P. tortricis** Coquillett (*Tortriciophaga tortricis* Townsend).

Vt.—Bennington, July 6, 1915, reared from *Cacoecia cerasivora*.

Mass.—Melrose Highlands (Webber); Agawam, July 27; Amherst. CONN.—

Pseudotachinomyia H. E. Smith, 17-54.

**P. webberi** H. E. Smith, 17-54.

Mass.—Melrose Highlands, May 16; Malden, May 15; Cohasset, May 29 (Bryant); Amherst.

Madremya Townsend, 16-622.

**M. saundersii** (Williston) (*Phorocera saundersii* Williston).

Mass.—East Wareham, July 13-Aug. 18, reared from *Cacoecia parallela* (Franklin); Forest Hills, Boston.

Eupelecotheca Townsend, 18-169.

**E. celer** Townsend, 18-169 (*Phorocera rufilabris* Coquillett, not Van der Wulp).

Vt.—Mt. Ascutney, July 11.

Mass.—Springfield, July 13; Auburndale, June 11; Woods Hole, July 1; Medford, June 23 (Barber).

Exoristoides Coquillett.

**E. slossonae** Coquillett (*Exorista spinipennis* Coquillett).

ME.—3, 7. N. H.—11, 14. VT.—21. June 4-Aug. 1.

Mass.—24, 26, 27. May 31-Aug. 15.

Homalactia Townsend, 15-21.

**H. harringtoni** (Coquillett) (*Exoristoides harringtoni* Coquillett).

N. H.—Summit of Mt. Monadnock, June 10, 1920.

Doryphorophaga Townsend, 12-164.

**D. aberrans** Townsend, 16-217 (Smith, 17-124); (*Frontina aberrans* Britton, 20-193).

ME.—8. VT.—19, 20. July 11-Sept. 13.

Mass.—24, 26, 27. CONN.—35. June 8-Sept. 3.

Reared from the Potato Beetle.

**D. dorsalis** (Coquillett) (*Exorista dorsalis* Coquillett).

N. H.—Peterboro, July 20 (C. F. Batchelder).

Mass.—Boston, July 2; Melrose Highlands, June 24.

**D. doryphorae** (Riley).

ME.—8. N. H.—13, 15. Sept. 6-30.

Mass.—24, 27, 29. CONN.—35. Aug. 17-Oct. 14.

Parasitic on the Potato Beetle.

*Frontina* Meigen.

**F. aletiae** (Riley).

ME.—8. VT.—20. July 11-25.

Mass.—26, 27, 29. R. I.—33. CONN.—June 6-Sept. 16.

Parasitic on the Tussock Moth, etc.

**F. ancilla** (Walker).

CONN.—Eastboro.

**F. archippivora** (Williston).

ME.—6, 9. N. H.—15. Aug. 28.

MASS.—24, 27. R. I.—33. CONN.—July 12—Sept. 30.  
Parasitic on the Monarch Butterfly, Mourning-cloak, etc.**F. frenchi** (Williston).

ME.—4, 6, 8, 9. N. H.—15. VT.—19. June 22—Aug. 30.

MASS.—24, 26, 27. CONN.—35. Apr. 22—July 3.

Parasitic on *Papilio glauca*, *Telea polyphemus*, *Samia cecropia*,  
etc.**F. spectabilis** Aldrich, 16—20.MASS.—Medford, June 27, 1923 (*Barber*).**Myrsina** R.-Desvoidy.**M. tenthredinidarum** (Townsend) (*Masicera exilis* Coquillett).ME.—2, 7, 8. N. H.—11, 14. VT.—16, 19, 21. June 4—Sept. 6.  
MASS.—26, 27, 28, 29. June 1—Aug. 2.**Argyrophalax** Brauer and Bergenstamm.**A. schizurae** Townsend, 1891, not Coquillett, 1897.

MASS.—Lynn, Aug. 25.

Parasitic on *Schizura ipomaeae*.**Eumasicera** Townsend.**E. sternalis** Coquillett.VT.—Chittenden, Aug. 1 (*Bequaert*).

MASS.—Auburndale, June 16.

**Gymnocaleria** Townsend, 19—582.**G. ricinorum** Townsend, 19—582 (*Sturmia albifrons* Coquillett,  
not Walker).

MASS.—24, 25, 26, 27, 32. CONN.—35. June 23—Aug. 27.

**Phrynofrontina** Townsend, 19—579.**P. discalis** (Coquillett) (*P. convexa* Townsend, 19—580).

ME.—Mt. Desert, Aug. 20—Sept. 6. VT.—Bennington, June 21.

MASS.—Brookline, July 4; North Saugus, July 18 (*Smith*);  
Gloucester, Aug. 30.**Sturmia** R.-Desvoidy.**S. bakeri** Coquillett.MASS.—Melrose Highlands, June 24 (*H. E. Smith*).**S. fraudulenta** Van der Wulp.MASS.—Horse Neck Beach (*Coquillett*).**S. inquinata** Van der Wulp.N. H.—Canobie Lake (*Dimmock*).MASS.—Amherst, June 26; Sharon, June 15, 1906 (*Sampson*).

**S. phyciodes** Coquillett.

MASS.—*Cape Cod*; Melrose Highlands, June 18; North Saugus, July 30; Cambridge, Aug. 27. R. I.—Bristol, June 20. CONN.—Winnipauk, Aug. 4.

*Phrynoblydella* Townsend, 19–572.

**P. polita** Townsend, 19–572.

MASS.—Sandwich, June 19 (*Hitchings*).

**P. eufitchiae** Townsend.

N. H.—11. Vt.—21. June 21.

MASS.—24, 27. R. I.—33. May 27–Aug. 21.

*Paraphorocera* Brauer and Bergenstamm.

**P. myoidaea** (R.-Desvoidy) (*Andrina radicis* Townsend, 16–19).

ME.—Orono.

MASS.—Arlington, July 8; Gloucester, July 8; Melrose Highlands, June 6; Auburndale, Aug. 16.

Parasitic on *Papaipema nitela* and the European Corn-borer.

*Masicera* Meigen (*Ceromasia Rondani*).

**M. rutila** Meigen (*M. festinans* Meigen).

N. H.—Canobie Lake (*Dimmock*).

MASS.—Amherst, Sept.; North Saugus. CONN.—Thompson, July 11.

**M. polita** Coquillett.

MASS.—Peabody, July 25, 1920 (*L. H. Taylor*).

**M. luctuosa** Van der Wulp.

N. H.—White Mts. (*Mrs. Slosson*).

*Neothelaria* Townsend, 15–120.

**N. aurifrons** (Coquillett) (*N. dexina* Townsend, 12–109 and 16–29).

N. H.—*Mt. Washington* (*Mrs. Slosson*); Canobie Lake (*Dimmock*).

MASS.—*Swampscott*, Aug. 29, 1908; Lynn, Aug. 28, 1908; North Saugus.

**N. chaetoneura** (Coquillett).

ME.—3, 4, 8. N. H.—11, 14. Vt.—21. June 6–Sept. 7.

MASS.—23, 29. June 26–Aug. 5.

*Euceromasia* Townsend, 12–112.

**E. spinosa** Townsend, 12–112 and 16–20.

MASS.—*North Andover*, Aug. 21, 1908 (*Clemons*).

*Dichoceropsis* Townsend, 16–178.

**D. orientalis** (Coquillett).

MASS.—*Beverly*.

**Otomasicera** Townsend, 12-113.

**O. patella** Townsend, 12-113 (adult not described).  
MASS.—*Melrose Highlands*, June 8, 1909.

**Metatachina** Townsend, 19-588.

**M. mellifrons** Townsend, 19-588.

ME.—*Sebago Lake*, Sept. 8, 1914 (*Townsend*).

**Compsilura** Bouché, 1834.

**C. concinnata** Meigen.

ME.—5, 6, 7, 8, 9, 10. N. H.—11, 12, 13, 14, 15. VT.—16, 18, 19, 20, 21, 22. June 24—Sept. 28.

MASS.—23, 24, 25, 26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. May 10—Sept. 20.

Introduced and colonized by the U. S. Bureau of Entomology as a parasite of the Gipsy and Brown-tail Moths in 1906, it has increased and spread over a large part of New England. It also parasitizes at the present time (1923) upwards of one hundred of our native moths, butterflies, saw-flies, etc. See Howard and Fiske, 11-218; Burgess, 15-9; Culver, 1919.

**Zygobothria** Mik.

**Z. nidicola** Townsend, 08-99.

ME.—6, 9, 10. N. H.—13, 14, 15.

MASS.—24, 25, 26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. July—Aug.

An imported parasite of the Brown-tail Moth, introduced in 1906 and now widely distributed. Regarding its appearance in Connecticut Dr. W. E. Britton says: "Not introduced into the State, but taken at Canterbury and Waterford in 1917 and Stonington and Groton in 1918." See Meusebeck, 1922.

**Pelatea** Townsend, 16-178.

**P. ruficornis** Smith, 17-138.

N. H.—*Hampton*, July 25 (*Shaw*).

**P. unicolor** Smith, 17-137.

ME.—5, 8, 9. N. H.—11. VT.—17. July 1—Sept. 13.

MASS.—23, 26, 27, 29. CONN.—35. June 17—Aug. 30.

**Parachaeta** Coquillett.

**P. fusca** Townsend, 16-11 (*P. bicolor* Coquillett, not Macquart; *P. inermis* Coquillett, not Bigot).

MASS.—Forest Hills, July 19 (*Bequaert*).

**Blepharipeza** Macquart.

**B. adusta** Loew.

ME.—6. N. H.—11, 15. VT.—17, 19, 22. May 2—Aug. 28.

MASS.—23, 26, 27, 29. R. I.—33. CONN.—35. May 9—Sept. 4.

Parasitic on *Leucarcia acraea*, etc.

**B. leucophrys** Wiedemann.

ME.—6, 9. N. H.—15. May 12—Sept. 6.

MASS.—24, 25, 26, 27, 28. CONN.—34. May 4—Sept. 4.

**Winthemia** R.-Desvoidy.**W. fumiferanae** Tothill, 12-3.

N. H.—Glen House, June 18, 1916.

A parasite of the Spruce Budworm.

**W. quadripustulata** (Fabricius).ME.—3, 4, 6, 7, 8, 10. N. H.—11, 14, 15. VT.—19. June 6—  
Aug. 28.MASS.—23, 24, 26, 27, 28, 29, 32. R. I.—33. CONN.—35.  
June 3—Sept. 20.

Parasitic on the Army Worm, Tussock Moth, etc.

**W. vesiculata** (Townsend), 16-28 (*Trisisyropa vesiculata* Townsend, 16-28).

ME.—Lakehurst, Sebago Lake, Sept. 6, 1914.

**Muscopteryx** Townsend.**M. obscura** Coquillett.

N. H.—Mt. Washington, 2500 ft., July 8.

**Paradidyma** Brauer and Bergenstamm.**P. singularis** Townsend.

MASS.—24, 26, 27, 29, 31, 32. CONN.—35. May 21—Aug. 13.

**Metachaeta** Coquillett.**M. helymus** (Walker).

“Maine” (Walker).

**M. atra** Coquillett.

ME.—4. N. H.—11, 15. Apr. 14—Sept. 7.

MASS.—27, 29. CONN.—35. May 22—June 27.

**Blepharipa** Rondani.**B. scutellata** R.-Desvoidy.ME.—9, 10. N. H.—11, 12, 13, 14, 15. VT.—16, 19, 20, 21, 22.  
June 14—July 4.MASS.—23, 24, 25, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—  
35. June 3—Aug. 4.

Introduced from Europe and first colonized in 1907 (Howard and Fiske, 11-213 and 308). An important parasite of the Gipsy Moth.

**Acemyia** R.-Desvoidy.**A. dentata** Coquillett.N. H.—Hampton, Aug. 18, 1904 (*Shaw*).MASS.—Woburn, June 11 (*Barlow*); Barnstable, July 5; Beverly.**A. tibialis** Coquillett.

MASS.—Dedham, Sept. 14 (Aldrich det.).

*Euthera* Loew.***E. tentatrix*** Loew.

MASS.—Boston (*Jack*); Tyngsboro, Aug. 26, 1923 (*Fall*); Mt. Tom, Sept. 22.

*Obolocera* Townsend, 18–180.***O. rapae*** (H. E. Smith) (*Homoeonychia rapae* H. E. Smith, 17–139).

MASS.—Gipsy Moth Laboratory (*Melrose Highlands*), bred from the Cabbage Butterfly (*Pontia rapae*), Aug. 17, 1915.

*Exorista* Meigen (*Tachina* of authors).***E. larvarum*** (Linné) (*Tachina mella* Walker; *T. utilis* Townsend). ME.—6, 9. N. H.—11, 14. VT.—21. June 22–July 19.

MASS.—24, 25, 26, 27. R. I.—33. CONN.—35. May 23–Sept. 4.

Parasitic on the Gipsy Moth, Tussock Moth, Forest Tent Caterpillar, etc.

*Chaetotachina* Brauer and Bergenstamm.***C. simulans*** (Meigen) (*Tachina rustica* of authors).

ME.—1, 2, 4, 6, 8, 9, 10. N. H.—11, 13, 14. VT.—19, 20, 21. June 18–Sept. 21.

MASS.—23, 24, 25, 26, 27, 28, 32. CONN.—34, 35. May 24–Sept. 4.

*Tachinomyia* Townsend.***T. robusta*** Townsend.

ME.—6. N. H.—11, 13, 15. VT.—21. May 16–July 10.

MASS.—23, 24, 25, 26, 27, 29. R. I.—33. CONN.—35. Apr. 16–July 4.

Parasitic on the cutworm, *Agrotis ypsilon*, etc.

*Daeochaeta* Townsend.***D. harveyi*** Townsend.

ME.—*Orono*.

*Neofischeria* Townsend, 08–74.***N. flava*** Townsend, 08–75.

CONN.—New Haven, Aug. 18, 1910 (*Walden*); Lyme, Aug. 28.

*Phorichaeta* Rondani.***P. sequax*** (Williston).

ME.—7, 8. N. H.—11, 12, 14, 15. VT.—16, 21. June 9–Aug. 16.

MASS.—23, 24, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—35. Apr. 22–Aug. 22.

## Eutrichogena Townsend, 15-23.

**E. setipennis** (Coquillett) (*Tricogena setipennis* Coquillett; *Neophorichaeta johnsoni* H. E. Smith, 15-100).

ME.—Northeast Harbor, July 26 (*Dr. Minot*); Southwest Harbor, July 15; Machias, July 19. N. H.—Franconia (*Mrs. Slosson*).

Vt.—Bolton Mt., Aug. 30 (*Bryant*).

## Gonia Meigen.

**G. aldrichi** Tothill, 24-198.

MASS.—Essex, Apr. 8, 1920 (*Fuller*).

**G. brevipulvilli** Tothill, 24-211.

MASS.—Melrose Highlands (*Tothill*).

**G. frontosa** Say (*G. capitata* of authors, not De Geer).

ME.—6, 8, 9. N. H.—11, 14, 15. Vt.—16. Apr. 22-June 24.

MASS.—23, 24, 25, 26, 27, 28, 32. R. I.—33. CONN.—35. Mar. 31-June 15.

**G. sagax** Townsend.

CONN.—Hartford (*Tothill*).

**G. senilis** Williston.

CONN.—New Haven, June 27, 1902 (*E. J. S. Moore*).

**G. exul** Williston (*G. sequax* Williston).

ME.—6. N. H.—11, 15. Aug. 16-Sept. 18.

MASS.—26, 27, 30. R. I.—33. CONN.—35. Aug. 21-Sept. 23.

**G. setigera** Tothill, 24-199.

MASS.—Essex, May 20, 1920 (*A. B. Fuller*).

Subgenus *Cnephalogonia* Townsend, 16-178 and 16-306.

**G. distincta** H. E. Smith, 15-99.

ME.—Mt. Desert, July 15-21.

MASS.—Westport Factory, July 31; Provincetown, June 25; Petersham, Aug. 26. CONN.—Colebrook, July 15 (*Wheeler*).

## Spallanzania R.-Desvoidy.

**S. bucephala** (Meigen) (*S. hebes* Rondani, not Fallen).

MASS.—Melrose Highlands, May 21; Wellesley, June 18 and Sherborn, Sept. 27 (*Morse*). R. I.—Buttonwoods, June 15. CONN.—.

**S. hesperidarum** Williston.

ME.—4, 9, 10. N. H.—11, 14. Vt.—19, 20. July 11-Aug. 15.

MASS.—25, 26, 27, 29, 30. R. I.—33. CONN.—34, 35. June 15-Oct. 8.

## Eugaediopsis Townsend, 16-620.

**E. ocellaris** Coquillett.

N. H.—Durham.

MASS.—Auburndale, Sept. 4, 1904. CONN.—.

**E. serricolor** Townsend.

MASS.—Melrose Highlands, June 17.

**Chaetogaedia** Brauer and Bergenstamm.

**C. analis** Van der Wulp.

MASS.—Auburndale, Sept. 20; Amherst; Salem, July 9. R. I.—Kingston, July 20 (*Barlow*).

**Dichrocera** Williston.

**D. orientalis** Coquillett.

MASS.—Beverly (*E. Burgess*).

**Trichophora** Macquart.

**T. ruficauda** Van der Wulp.

MASS.—Forest Hills; Melrose Highlands, June 21; North Saugus, July 30; Amherst. CONN.—

**Cuphocera** Macquart (*Sphyricera* Lioy).

**C. furcata** (Van der Wulp).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Melrose Highlands, July 31; Amherst.

**Peleteria** R.-Desvoidy.

**P. iterans** (Walker) (*P. tessellata* of authors).

ME.—6, 8, 9, 10. N. H.—11, 15. VT.—16, 18, 19, 20. May 30—Sept. 22.

MASS.—24, 25, 26, 27, 28, 29, 30, 31, 32. CONN.—34. May 20—Oct. 23.

**P. anaxias** (Walker) (*P. robusta* of authors).

ME.—6, 8. N. H.—11, 15. VT.—17, 19, 22. July 12—Sept. 11.

MASS.—23, 24, 26, 27, 29. R. I.—33. CONN.—34, 35. June 8—Sept. 18.

**P. confusa** Curran.

ME.—8, 9. July 12—Sept. 11.

MASS.—23, 27. July 24—Oct. 12.

**Archytas** Jaennicke.

**A. analis** (Fabricius).

ME.—2, 6, 7, 8, 10. N. H.—11, 12, 14, 15. VT.—17, 19, 20, 21. June 24—Sept. 6.

MASS.—23, 24, 25, 26, 27, 29. CONN.—34, 35. June 29—Sept. 6.

**A. aterrima** (R.-Desvoidy).

ME.—2, 6, 7, 8. N. H.—11, 14, 15. July 19—Sept. 18.

MASS.—23, 24, 27, 28, 29, 32. R. I.—33. CONN.—34, 35. June 20—Oct. 4.

**A. hystrix** (Fabricius).

N. H.—15. July 30.

MASS.—24, 26, 27, 28, 32. R. I.—33. CONN.—July 31—Sept. 12.

**A. lateralis** (Macquart).

MASS.—CONN.—

Fabriciella Bezzii, 1906.

**F. algens** (Wiedemann) (*Echinomyia algens* of authors; *Rhachogaster kermodei* Townsend, 15—291 and 16—26).

ME.—1, 4, 6, 7, 8, 10. N. H.—11, 14. VT.—17, 19, 20, 21. June 10—Aug. 28.

MASS.—23, 25. CONN.—34. June 24—Sept. 19.

**F. hispida** Tothill, 24—265 (*Eularvaevora algens* Townsend, 16—27).

ME.—1, 3, 4, 7, 8. N. H.—11. VT.—20. June 24—Sept. 25.

**F. piceifrons** (Townsend) (*Echinomydes piceifrons* Townsend, 16—25).

ME.—1, 9. N. H.—11. Aug. 19—Sept. 20.

MASS.—23, 25, 26, 27. CONN.—34. Aug. 5—Sept. 14.

**F. montana** (Townsend) (*Fabriciodes montana* Townsend, 16—26).

ME.—Mt. Desert, July 10—15. N. H.—Mt. Washington, 4000 ft., July 11; Glen House, July 16.

**F. dakotensis** (Townsend).ME.—Sebago Lake (*Tothill*, 24—262).MASS.—Mt. Holyoke (*Tothill*, 24—262).**F. dakotensis** var. **orientalis** (Townsend) (*Echinomyia florum* of authors; *Larvaevoropsis orientalis* Townsend, 16—24).

ME.—6, 8, 10. N. H.—11, 13. VT.—20. June 20—Sept. 16.

MASS.—23, 24, 26, 27, 29, 30. R. I.—33. CONN.—35. May 30—Oct. 16.

**F. pilosa** Tothill, 24—263.N. H.—White Mts. (*Scudder*; U. S. Nat. Mus.; *Tothill*).

Epalpus Rondani.

**E. signiferus** (Walker).

ME.—5, 6, 8. N. H.—11, 13, 14, 15. VT.—21. May 19—July 19.

MASS.—23, 24, 26, 27, 28, 32. CONN.—35. Apr. 13—June 20.

Bombyliopsis Townsend, 15—23.

**B. abrupta** (Wiedemann) (*Bombyliomyia abrupta* of authors).

ME.—2, 6, 8, 9, 10. N. H.—11, 15. VT.—19, 20. July 10—Sept. 20.

MASS.—23, 27, 32. R. I.—33. CONN.—34, 35. Aug. 8—Sept. 19.

Juria R.-Desvoidy.

**J. metallica** R.-Desvoidy (*J. adusta* Van der Wulp).CONN.—New Haven; Lyme, Aug. 27, 1909 (*Champlain*).

**J. decisa** (Walker) (*Echinomyia decisa* of authors; *Pararchytas decisa* Brauer and Bergenstamm).

ME.—4, 7, 8, 9, 10. N. H.—11, 15. VT.—17, 19, 20, 21. July 15—Sept. 11.

MASS.—23, 24, 25, 27. CONN.—34. July 13—Sept. 1.

#### MEGAPROSOPIDAE.

**Microphtalma** Macquart.

**M. disjuncta** (Wiedemann).

ME.—8. N. H.—11, 15. VT.—17, 20. July 28—Sept. 11.

MASS.—24, 27, 29. CONN.—35. June 27—Sept. 23.

Bred from larvae of May Beetles, *Phyllophaga* (Davis, 19—78).

**M. pruinosa** Coquillett.

VT.—Chelsea, May 31, 1916 (*H. E. Smith*).

MASS.—Framingham.

Bred from May Beetles, *Phyllophaga* (Davis, 19—81).

#### DEXIIDAE.

**Rhynchodexia** Bigot.

**R. confusa** West, 24—185.

N. H.—Durham. VT.—Bolton Mt. (*Bryant*).

MASS.—Chester; Rutland; Woods Hole. R. I.—Tiverton.

CONN.—Storrs; Colebrook, July—Sept. (*Wheeler*).

**Paraprosena** Brauer and Bergenstamm.

**P. apicalis** R.-Desvoidy.

MASS.—Wellesley (*Morse*). CONN.—Colebrook, July 17, 1921 (*Wheeler*).

**Dexia** Meigen (*Zelia* R.-Desvoidy).

**D. vertebrata** Say.

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Fall River, July 21; Sherborn, Sept. 4, 1918; Ware, July 5 (*F. E. Zeissig*).

**Ateloglossa** Coquillett.

**A. cinerea** Coquillett.

ME.—Waldoboro (*J. H. Lovell*).

**A. wheeleri** West, 24—186.

CONN.—Colebrook (*Wheeler*).

**Ptilodexia** Brauer and Bergenstamm.

**P. harpasa** (Walker) (*Ptilodexia tibialis* of authors, not R.-Desvoidy).

ME.—2, 8, 10. N. H.—11, 15. VT.—17, 20. June 7—Sept. 25.

MASS.—24, 27, 28, 29, 30, 32. R. I.—33. CONN.—34, 35. June 10—Sept. 16.

Parasitic on white grubs, the larvae of the May Beetles (Davis, 1919).

**P. neotibialis** West, 24–184.

MASS.—Cohasset, Sept. 15, 1904 (*Bryant*). CONN.—Colebrook (*Wheeler*).

**P. rufipennis** Macquart.

N. H.—Mt. Washington (*Mrs. Slosson*).

Myiocera R.-Desvoidy.

**M. isolata** West, 24–188.

N. H.—Hanover, July 4, 1908.

**M. novaeangliae** West, 24–189.

CONN.—Colebrook (*Wheeler*); Darien, June 16, 1909.

**M. protrudens** West, 24–190.

MASS.—Sharon, Aug. 3, 1909.

Cholomyia Bigot.

**C. inaequipes** Bigot (*Thelairodes basalis* Giglio-Tos, ♀).

MASS.—Waltham.

A parasite of the Plum Curculio and other species of *Conotrachelus* (see Quaintance and Jenne, 12–150).

Sardiocera Brauer and Bergenstamm.

**S. valida** (Wiedemann) (*Theresia tandrec* of authors, see Townsend, 12–117).

ME.—9. N. H.—11, 15. June 28–July 17.

MASS.—24, 26, 27, 28, 32. CONN.—34. July 18–Sept. 25.

Thelaira R.-Desvoidy.

**T. nigripes** (Fabricius) (*T. leucozona* Panzer).

ME.—5, 8. N. H.—11, 12, 15. VT.—16, 21. June 18–Sept. 10.

MASS.—23, 24, 25, 27, 28, 29, 32. R. I.—33. CONN.—35. June 5–Oct. 4.

Ochrocera Townsend, 16–18.

**O. vaginalis** Townsend, 16–18.

ME.—Bar Harbor, Aug. 10, 1920. N. H.—Base Station, Mt. Washington, Aug. 27–31, on flowers of *Solidago* (Townsend).

Protodexia Townsend, 12–117.

**P. synthetica** Townsend, 12–117 and 16–19.

MASS.—Melrose Highlands, Aug. 14, 1908 (*Clemons*).

Eutheresia Townsend, 11–149.

**E. canescens** (Walker).

MASS.—Phillipston, Aug. 26, 1920 (*G. C. Wheeler*).

**E. montana** West, 24–188.

VT.—Mt. Mansfield, 4000 ft., July 21, 1891 (*Morse*).

*Opsodexia* Townsend, 15-20.

**O. bicolor** (Coquillett) (*Chaetona bicolor* Coquillett, 99-221).  
 ME.—8. N. H.—11. VT.—17, 21. June 5—Sept. 11.  
 MASS.—23, 25, 26, 27. June 15—Sept. 25.

*Phyllophila* Townsend, 15-21.

**P. nitens** (Coquillett).  
 N. H.—11, 15. Aug. 3.  
 MASS.—23, 27, 28. CONN.—35. May 27—Aug. 5.

*Arctophyto* Townsend, 15-22.

**A. johnsoni** West, 24-187.  
 MASS.—Concord, Aug. 7, 1920.

**A. regina** West, 24-187.  
 MASS.—Brookline, Sept. 6, 1904.

*Spathidexia* Townsend, 12-110.

**S. clemonsi** Townsend, 12-110.  
 ME.—6, 8, 9. N. H.—15. June 27—July 24.  
 MASS.—25, 27, 28. June 28—Aug. 17.

**S. dunningi** (Coquillett), Townsend, 15-366 (*Hypostena dunningi* Coquillett).  
 ME.—4, 10. N. H.—14, 15. VT.—21. May 20—July 25.  
 MASS.—24, 26. R. I.—33. CONN.—35. May 21—Aug. 24.

*Epidexipsis* Townsend, 16-308.

**E. orbitalis** Townsend.  
 MASS.—Wollaston, Sept. 5; West Springfield, Aug. 31.

*Estheria* R.-Desvoidy.

**E. tibialis** R.-Desvoidy.  
 ME.—Bowlin Pond, Aug. 31 (*Cushman*); Grand Lake Stream,  
 Aug. 16 (*Morse*); Mt. Desert, Sept. 6.  
 MASS.—Rutland, July 31.

*Dinera* R.-Desvoidy.

**D. futilis** West, 24-191.  
 ME.—6, 8. N. H.—11, 15. July 10—Sept. 25.  
 MASS.—24, 26, 27, 30. R. I.—33. CONN.—35. June 28—  
 Sept. 7.

*Melanophora* Meigen.

**M. roralis** (Linné).  
 N. H.—Hampton, June 29 (*Shaw*).  
 MASS.—26, 28, 29, 30, 31, 32. CONN.—34, 35. June 6—Oct. 29.  
 Parasitic on "sow-bugs," *Porcellio*, sp.

## SARCOPHAGIDAE.

## AMOBIINAE.

**A. aurata** Coquillett. (*Amobiopsis* Townsend, 15-20).

ME.—Capens, July 19. N. H.—Mt. Washington, 4000 ft., July 16; Jaffrey, June 18.

**A. confundens** Townsend, 15-20 (*A. distincta* Coquillett, 1897, not Townsend, 1892).

N. H.—Holderness.

MASS.—Bashbish Falls, June 27, 1912.

## Brachycoma Rondani.

(*Laccoprosopa* Townsend, 15-116; *Eubrachycoma* Townsend, 16-19.)

**B. apicalis** Coquillett.

MASS.—Great Barrington, June 15, 1915.

**B. sarcophagina** (Townsend).

ME.—Mt. Desert, June 21-July 18.

MASS.—Salem, July 7; Forest Hills, Boston, July 21, 1921.

Parasitic in the nest of bumble bee, *Bremus bimaculatus* (see O. E. Plath, Psyche, vol. 29, p. 194, 1922).

## Oppiosis Townsend, 15-20.

**O. sheldoni** (Coquillett) (*Harbeckia tessellata* Aldrich, 16-47; Townsend, 18-20).

MASS.—Melrose Highlands, June 1; North Andover, July (*H. E. Smith*); Amherst. CONN.—Danbury, June 15.

## MLITOGRAMMINAE.

## Metopia Meigen.

**M. leucocephala** Rossi (*M. luggeri* Townsend).

ME.—4, 7, 8. N. H.—11, 15. VT.—19, 20. July 16-Aug. 22.

MASS.—23, 24, 27, 28, 29, 32. R. I.—33. CONN.—35. May 23-Aug. 5.

**M. campestris** (Fallen).

ME.—5, 8. N. H.—11. VT.—21. June 8-Aug. 21.

MASS.—23, 25, 26, 27, 29. R. I.—33. CONN.—35. June 1-Aug. 30.

**M. lateralis** Macquart (*Parametopia morrisoni* Townsend, 16-619).

VT.—St. Albans, June 19, 1915.

## Euaraba Townsend, 15-20.

**E. grisea** R.-Desvoidy (*Araba tergata* Coquillett).

N. H.—11, 12, 15. VT.—21. June 19-Aug. 5.

MASS.—23, 24, 27, 29. R. I.—33. CONN.—35. June 20-Sept. 10.

*Opsidia* Coquillett.*O. gonioides* Coquillett.

N. H.—15.

MASS.—24, 27, 31, 32. R.I.—33. CONN.—35. June 28—Sept. 8.

*Prosinella* R.-Desvoidy (*Euhilarella* Townsend, 15–22).*P. fulvicornis* (Coquillett); see Allen, 24–92.

N. H.—11.

MASS.—24, 29, 30, 32. R.I.—33. CONN.—35. June 25—Sept. 10.

*Eumacronychia* Townsend.*E. polita* Townsend.

N. H.—15.

MASS.—27, 28, 29, 31. R.I.—33. CONN.—35. June 8–Aug. 1.

*Hilarella* Rondani.*H. dira* (R.-Desvoidy) (*H. hilarella* and *H. siphonina* Zetterstedt). MASS.—West Springfield, Aug. 31 (*H. E. Smith*); Provincetown, June 25; Manomet, July 17 (*Cushman*); Westport, July 31.*Pachyopthalmus* Brauer and Bergenstamm.*P. signatus* (Meigen).

ME.—4, 6, 7, 8. N. H.—11, 14. June 18–Aug. 17.

MASS.—24, 25, 26, 27, 28, 32. R. I.—33. May 18–July 16.

*Senotainia* Macquart.*S. trilineata* Van der Wulp.

ME.—1, 8. N. H.—11, 15. VT.—16, 19. June 21–Aug. 17.

MASS.—24, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. June 15–Sept. 4.

*S. rubriventris* Macquart.MASS.—Framingham, Sept. 4 (*Frost*); Cohasset, July 15 (*Bryant*); Wollaston, Sept. 5. R. I.—Buttonwoods, June 25.*S. litoralis* Allen, 24–90.MASS.—Manomet, July 17, 1904 (*Cushman*).*S. vigilans* Allen, 24–89.MASS.—West Springfield, July 26, 1915 (*H. E. Smith*).*Taxigramma* Perris, 1852.(*Heteropterina* Macquart; *Nasonimya* Townsend, 16–619).*T. nasoni* (Coquillett).MASS.—West Springfield, June 15 (*H. E. Smith*).

## SARCOPHAGINAE.

**Wohlfahrtia** Brauer and Bergenstamm (*Paraphyto* Coquillett).

**W. vigil** (Walker); see Aldrich, 16-29.

ME.—Presque Isle, July 20, 1921 (*Edith M. Patch*).

MASS.—Wellfleet, Aug. 14-18, 1919 (*C. W. J.*).

## Argia R.-Desvoidy.

**A. affinis** (Fallen).

ME.—Mt. Desert, July 12. N. H.—White Mts. (*Morrison*).

MASS.—North Saugus, May 18 (*H. E. Smith*); Wellesley, May 19 (*Morse*).

**Sarcopharia** Parker, 16-131 (*Thelodiscus* Aldrich, 16-63).

**S. ravinia** Parker, 16-133 (*T. indivisus* Aldrich, 16-64 and 302).

MASS.—24, 25, 26, 27, 28. CONN.—34, 35. May 20-Aug. 20.

**S. atlantica** Parker, 19-203.

CONN.—Hamden, May 22, 1911 (*Walden*).

## Metoposarcophaga Townsend, 17-46.

**M. pachyprocta** (Parker), 16-171 and 19-154 (*Sarcophaga larga* Aldrich, 16-147).

MASS.—25, 26, 27, 29, 30, 32. R. I.—33. June 9-Sept. 4.

## Chaetoravinia Townsend, 17-190 and 195.

**C. latisetosa** (Parker), 14-63.

ME.—10. VT.—17. July 24-Aug. 30.

MASS.—23, 27, 31, 32. CONN.—35. June 15-Sept. 6.

**C. quadrisetosa** (Coquillett).

CONN.—.

## Helicobia Coquillett.

**H. helicis** (Townsend).

ME.—6, 7, 8. N. H.—11, 12, 15. VT.—16, 19. June 26-Sept. 11.

MASS.—24, 27, 28, 31, 32. R. I.—33. CONN.—34, 35. May 15-Oct. 16.

## Sarcophaga Meigen.

Subgenus *Cistudinomyia* Townsend, 17-48.

**S. cistudinis** Aldrich, 16-278.

As this species has only been bred from Box Turtles, the larva recorded by Packard, taken from a Box Turtle at Middleboro, Mass. (Amer. Nat., vol. 16, p. 589, 1882) and by Wheeler from a Box Turtle taken at Windsor, Conn., undoubtedly represent this species. Dr. Babcock bred this species from a Box Turtle in Boston, but the turtle originally came from Virginia. Four specimens were in the Hough collection without label.

Subgenus *Oxysarcodexia* Townsend, 17-194.

**S. cingarus** Aldrich, 16-289.

MASS.—Cohasset, Sept. 10 (*Bryant*). CONN.—Danbury, June 15.

Subgenus *Acridiophaga* Townsend, 17-46 (*Amblycoryphenes* Townsend, 17-162).

**S. amblycoryphae** Coquillett, 04-187.

MASS.—Springfield, bred from *Amblycorypha oblongifolia* by Dr. G. Dimmock.

**S. reversa** Aldrich, 16-138.

MASS.—Melrose Highlands (*H. E. Smith*); New Bedford (*Hough*); Woods Hole (*Sturtevant*).

**S. setigera** Aldrich, 16-138.

MASS.—Melrose Highlands, June 23, 1909, and July 14, 1911 (*H. E. Smith*).

Subgenus *Blaesoxiphia* Loew (*Blaesoxiphotheca* Townsend, 17-159).

**S. coloradensis** Aldrich, 16-139 (*B. caudata* Townsend, 17-159, ♀).

MASS.—New Bedford (*Hough*).

Subgenus *Ravinia* R.-Desvoidy.

**S. communis** (Parker), 14-55.

ME.—4, 6, 8, 10. N. H.—11, 15. VT.—17, 19, 20. May 24-Sept. 28.

MASS.—23, 24, 25, 26, 27, 28, 31. R. I.—33. CONN.—34, 35. Apr. 29-Sept. 22.

**S. peniculata** (Parker).

ME.—8, 10. N. H.—11, 13, 15. VT.—19. May 30-Sept. 10.

MASS.—23, 24, 27, 32. R. I.—33. CONN.—35. May 25-Sept. 22.

Subgenus *Sarcophaga* Meigen.

**S. aldrichi** Parker, 16-438.

ME.—3, 6. N. H.—12. VT.—21. June 19-July 20.

MASS.—23, 24, 25, 26, 27, 29. June 7-July 9.

**S. atlantis** Aldrich, 16-100 (*Tephromiella frankliniana* Townsend, 17-164, ♀).

ME.—Salisbury Cove, Mt. Desert, July 18. N. H.—*Franklin*, July 5. From the Common Field Grasshopper.

**S. bisetosa** (Parker) (*Bottcheria bisetosa* Parker, 14-69).

ME.—6, 8. N. H.—13. VT.—19, 21. May 25-Sept. 10.

MASS.—24, 25, 26, 27. CONN.—34. May 6-Sept. 7.

**S. bullata** Parker, 16-359 (*S. bison* Aldrich, 16- plate 12).

ME.—4, 6, 10. July 18-Aug. 20.

MASS.—24, 26, 27, 28, 29, 31. CONN.—35. May 15-Aug. 30.

- S. cimbicis** Townsend (*Bottcheria fernaldi* Parker, 14-72).  
ME.—4, 8, 10. N. H.—11, 13. VT.—16, 21. June 8-Sept. 11.  
MASS.—24, 26, 27, 28, 31. CONN.—35. June 16-Oct. 20.
- S. dux sarracenoides** (Aldrich); Parker, 19-41 (*S. tuberosa* var. *sarracenoides* Aldrich, 16-227; *S. sarraceniae* Coquillett, not Riley, Mrs. Slosson's Mt. Washington list).  
ME.—10. N. H.—11, 15. July 24-Aug. 27.  
MASS.—26, 27, 28, 29. CONN.—35. June 25-Aug. 30.
- S. dux exuberans** Pandel; Parker, 19-42 (*S. tuberosa* var. *exuberans* Aldrich, 16-232).  
MASS.—New Bedford (*Hough*).
- S. dux harpax** Pandel.  
MASS.—Melrose Highlands, reared from pupae of Gipsy Moths, imported from Japan (Parker, 19-45).
- S. excisa** Aldrich, 16-127.  
MASS.—Woods Hole, June 25, 1913 (*Sturtevant*).
- S. fletcheri** Aldrich, 16-96.  
ME.—Salisbury Cove, Mt. Desert, July 18, 1923.
- S. falculata** Pandel.  
MASS.—Boston, Aug. 3; Sherborn (*Morse*); Cohasset, Aug. 1 (*Bryant*).
- S. fossoria** Pandel.  
ME.—Orr's Island, July 26, 1907.  
MASS.—Wellesley, June 4, 1915 (*Morse*); Forest Hills (*Brues*).
- S. haemorrhoidalis** Fallen (*S. georgina* Wiedemann).  
N. H.—13. Sept. 10.  
MASS.—26, 27, 28. CONN.—35. May 4-Oct. 4.
- S. houghi** Aldrich, 16-170.  
MASS.—New Bedford (*Hough*); Melrose Highlands (*H. E. Smith*).
- S. hunteri** Hough (*Protodexia synthetica* Townsend, 16-19).  
ME.—2. VT.—17. July 22-Aug. 16.  
MASS.—27, 29. CONN.—35. July 30-Sept. 8.  
Reared from grasshoppers.
- S. idonea** Aldrich, 16-90.  
MASS.—New Bedford, May 17, 1896, and July (*Hough*).
- S. johnsoni** Aldrich, 16-162 (*Wohlfahrtiopsis johnsoni* Townsend, 17-45).  
MASS.—26, 27, 29, 30, 32. R. I.—33. June 17-Aug. 16.
- S. latisterna** (Parker) (*Boettcheria latisterna* Parker, 14-67).  
ME.—4, 8. N. H.—11, 14. VT.—16, 20, 21. June 9-Aug. 23.  
MASS.—26, 27, 32. CONN.—35. May 19-Sept. 4.

**S. scoparia nearctica** Parker, 16-422 (*S. scoparia* Aldrich, 16-214 and 302).

ME.—5, 6, 7, 8, 9, 10. N. H.—15. VT.—17, 19. June 21—Sept. 8.

MASS.—23, 24, 26, 27, 28, 29, 32. CONN.—35. June 14—Sept. 23.

**S. securifera** Villeneuve.

MASS.—Worcester (*S. T. Oxton*).

**S. sinuata** Meigen (*Sarcotachinella intermedia* Townsend).

ME.—8. N. H.—11, 12. VT.—19. June 11—Sept. 17.

MASS.—26, 27, 28, 32. R. I.—33. CONN.—35. June 1—Sept. 23.

**S. uliginosa** Kramer, 08-152.

MASS.—Melrose Highlands Laboratory, May 13, 1908 (reared); North Saugus, Sept. 29, 1909, and Lunenburg, July 14, 1914 (see Aldrich, 16-165).

#### CALLIPHORIDAE.

##### PHORMINAE.

**Cochliomyia** Townsend, 15-646.

**C. macellaria** (Fabricius). The Screw-worm Fly.

ME.—10. N. H.—15. VT.—21. June 21—Sept. 3.

MASS.—25, 26, 27, 28, 29, 30. CONN.—34, 35. July 14—Oct. 9.

**Protocalliphora** Hough.

**P. splendida** form **splendida** Macquart (*P. metallica* Townsend, 19-379; *P. chrysorrhea* of authors, not Meigen). The Blood-sucking Larva Fly.

ME.—1, 8. N. H.—11, 14, 15. Aug. 29—Sept. 8.

MASS.—27, 29. R. I.—33. CONN.—34, 35. Apr. 19—Sept. 29.

**P. splendida** form **sialis** Shannon and Dobroscky, 24-251 (*P. azurea* of authors, not Fallen).

N. H.—White Mts. (*Morrison*); Peterboro, Aug. 29, 1924 (*C. F. Batchelder*).

MASS.—Wellesley, Aug. 10 (*E. F. Everett*); Blue Hill (*Banks*); Sherborn, May 4 (*E. J. Smith*). CONN.—Stafford, Aug. 24 (*Britton*).

**P. splendida** form **aenea** Shannon and Dobroscky, 24-251.

N. H.—Franconia (*Mrs. Slosson*).

The larvae of this species are parasitic on nestling bluebirds, robins, brown thrashers, etc.

**P. hirudo** var. **cuprea** Shannon and Dobroscky, 24-235.

MASS.—Near Middleboro (*J. S. Pfeil*). From maggots in the neck of a sparrow, pupa Aug. 3, imago Aug. 12, ♂ ♀.

**Phormia** R.-Desvoidy (*Euphormia* Townsend, 19-542).

**P. regina** (Meigen).

ME.—1, 5, 6, 7, 8, 9, 10. N. H.—12, 13, 14, 15. Apr. 19—Sept. 18.  
MASS.—23, 24, 25, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—  
35. Mar. 29—Aug. 27.

**Protophormia** Townsend, 08-123.

**P. terraenovae** (R.-Desvoidy).

ME.—4, 6, 8, 9. N. H.—11, 12, 14, 15. Apr. 23—Aug. 29.  
MASS.—23, 24, 25, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—  
35. Apr. 6—Aug. 9.

#### CALLIPHORINAE.

**Onesia** R.-Desvoidy.

**O. aculeata** Pandel.

MASS.—Melrose Highlands, Sept. 13 (*Townsend*), see Shannon,  
23-14; Forest Hills, Boston, July 29, 1919 (*Bequaert*).

**Cynomyia** R.-Desvoidy (*Cynomyopsis* Townsend, 15-118).

**C. cadaverina** R.-Desvoidy.

ME.—1, 4, 5, 6, 8, 9. N. H.—11, 13, 14, 15. VT.—Apr. 22—  
Sept. 8.

MASS.—25, 27. R. I.—33. CONN.—35. Apr. 30—Nov. 3.

**C. mortuorum** (Linné).

ME.—Oquossoc, July 1, 1912.

CONN.—Westville, May 20, 1905 (*Britton*).

**C. flavipalpis** Macquart.

N. H.—Mt. Washington (*Mrs. Slosson*).

**Calliphora** R.-Desvoidy. The Blue-bottle Flies.

**C. vomitoria** (Linné).

ME.—4, 6, 8, 9. N. H.—11, 13, 14, 15. VT.—17. June 10—  
Sept. 10.

MASS.—23, 25, 27, 29. R. I.—33. CONN.—34, 35. May 22—  
Oct. 5.

**C. vomitoria** var. **nigribarbis** Shannon, 23-116.

ME.—3, 7, 8, 10. N. H.—11. VT.—17, 21. June 5—Sept. 22.  
MASS.—26, 29, 32. R. I.—33. Apr. 27—Nov. 6.

**C. viridescens** R.-Desvoidy.

N. H.—Jaffrey, June 9, 1920. VT.—Chittenden, Aug. 1  
(*Bequaert*); Mt. Equinox, June 5.

**C. erythrocephala** (Meigen).

ME.—6, 8, 9, 10. N. H.—13, 15. VT.—17. June 15—Oct. 15.  
MASS.—23, 24, 25, 26, 27, 28, 31, 32. R. I.—33. CONN.—35.  
May 3—Oct. 5.

**Lucilia** R.-Desvoidy. "The Green-bottle Flies" (Shannon, 24-72).

**L. caesar** (Linné) (*L. infuscata* Townsend, 08-125; see Tothill, 13-124).

ME.—1, 5, 6, 7, 8, 9, 10. N. H.—11, 12, 14, 15. VT.—19, 20. July 1-Sept. 22.

MASS.—24, 25, 26, 27, 29, 32. R. I.—33. CONN.—34, 35. June 17-Sept. 6.

**L. sylvarum** Meigen (*Bufo lucilia sylvarum* Townsend, 19-542).

ME.—2, 7, 8. N. H.—14. VT.—16, 20, 21. June 22-Aug. 20.

MASS.—26, 27, 29, 32. CONN.—35. June 17-Sept. 1.

**L. sericata** Meigen.

ME.—6. N. H.—15. VT.—21. June 18-Aug. 1.

MASS.—25, 26, 27, 29, 30, 32. R. I.—33. CONN.—35. June 14-Oct. 13.

#### POLLENIINAE.

**Pollenia** R.-Desvoidy.

**P. rufidus** (Fabricius). The Cluster Fly.

ME.—1, 6, 7, 8, 10. N. H.—11, 13, 14, 15. VT.—20, 21. Apr. 15-Dec. 1.

MASS.—23, 24, 25, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—34, 35. Jan.-Dec.

#### MUSCIDAE.

##### STOMOXYIDINAE.

**Stomoxys** Geoffroy.

**S. calcitrans** (Linné). The Biting House-fly.

ME.—1, 6. N. H.—11, 13, 14, 15. VT.—19. Apr. 27-Sept. 25.

MASS.—23, 24, 25, 27, 28, 29, 30, 31. R. I.—33. CONN.—35. May 27-Oct. 31.

**Lyperosia** Rondani (*Haematobia* of authors).

**L. irritans** (Linné) (*H. serrata* R.-Desvoidy). The Horn Fly.

ME.—6, 8, 9. N. H.—14, 15. VT.—21. June 23-Sept. 7.

MASS.—24, 25, 26, 27, 29, 30, 31, 32. CONN.—34, 35. July 10-Aug. 9.

##### MUSCINAE.

**Musca** Linné.

**M. domestica** Linné. The House Fly.

ME.—1, 3, 5, 6, 7, 8, 9. N. H.—11, 13, 15. VT.—20, 22. July 7-Sept. 22.

MASS.—23, 24, 26, 27, 30, 32. R. I.—33. CONN.—35. Mar. 3-Oct. 10.

*Cryptolucilia* Brauer and Bergenstamm (*Pseudopyrellia* Girschner).

**C. caesarion** Meigen (*P. cornicina* authors, not Fabricius; see Bequaert, 22-90).

ME.—1, 6, 9, 10. N. H.—14, 15. VT.—17, 19, 20. Apr. 25—Sept. 28.

MASS.—23, 24, 25, 26, 27, 29, 31, 32. R. I.—33. CONN.—34, 35. Apr. 28-Oct. 10.

**Pyrellia** R.-Desvoidy.

**P. serena** (Meigen).

ME.—2, 6, 8. N. H.—11, 12, 13, 14, 15. VT.—16, 17, 19, 20, 21, 22. June 14—Sept. 10.

MASS.—23, 25, 26, 27, 32. R. I.—33. CONN.—35. Mar. 26—Oct. 30.

**Mesembrina** Meigen.

Subgenus *Eumesembrina* Townsend, 08-124.

**M. latreillei** R.-Desvoidy (*M. resplendens* of authors, not Wahlberg).

ME.—4, 5, 6. N. H.—11. VT.—17, 21. June 24-Aug. 30.

**Morellia** R.-Desvoidy.

**M. micans** (Macquart).

ME.—1, 2, 4, 5, 6, 7, 8, 10. N. H.—11, 13, 15. VT.—17, 19. May—Sept. 10.

MASS.—23, 24, 26, 27, 29, 32. R. I.—33. CONN.—34, 35. May 10—Sept. 5.

**Graphomyia** R.-Desvoidy.

**G. maculata** Scopoli.

ME.—1, 3, 4, 8, 10. N. H.—11, 14, 15. VT.—16, 17, 19, 20. June 9—Sept. 7.

MASS.—23, 26, 27, 29, 32. CONN.—34, 35. May 30—Sept. 6.

**Muscina** R.-Desvoidy.

**M. assimilis** (Fallen).

ME.—6, 8. N. H.—13, 15. July 13—Sept. 10.

MASS.—24, 25, 26, 27, 28, 32. R. I.—33. CONN.—35. Apr. 20—Oct. 31.

**M. stabulans** (Fallen). The Stable Fly.

ME.—6, 7, 8, 9. N. H.—11, 12, 14, 15. VT.—17, 20, 21. Apr. 22—Aug. 29.

MASS.—24, 26, 27, 28, 29, 32. R. I.—33. CONN.—35. May 30—Aug. 19.

**M. pascuorum** Meigen.

ME.—10. N. H.—11, 13. Aug.—May.

MASS.—24, 25, 26, 27, 32. CONN.—34, 35. Aug.—April.

A recently introduced species, appearing first in August, 1922 (see Johnson, 23-1 and 24-17).

*Myiospila* Rondani.**M. meditabunda** (Fabricius).ME.—1, 2, 7, 8. N. H.—11. VT.—21. June 10—Aug. 17.  
MASS.—24, 27, 29, 32. R. I.—33. CONN.—35. June 14—  
Aug. 5.

## GASTEROPHILINAE.

*Gasterophilus* Leach.**G. intestinalis** DeGeer (*Gastrophilus equi* of authors). The Horse  
Bot-fly.ME.—Orono; Waterville. N. H.—Dublin and Gilford (*Harris Coll.*). VT.—Mt. Mansfield, July 21 (*Morse*); Killington Peak, Aug. 23; Chelsea, Sept. 4.  
MASS.—Mt. Greylock, Aug. 17; Cheshire (*Beecroft*); Amherst, June; Readville, Sept. 4. CONN.—Suffield (*L. H. Sikes*); Cornwall, July 12 (*Chamberlain*).

## ANTHOMYIINAE.

In the "Faune de France" (1923), "Anthomyides," by E. Seguy, is presented for the first time a very comprehensive account of the flies of this subfamily. I have followed to a great extent the genera and their arrangement, although their order is reversed. If united the family Muscidae should be used instead of Anthomyiidae.

*Pseudophaonia* Malloch, 23—234.**P. orichalcea** (Stein).ME.—5. N. H.—14, 15. VT.—21. June 18—Aug.  
MASS.—23, 25, 27. May 12—June 16.*P. griseocaerulea* Malloch, 23—235.N. H.—"T. D. 4335" = "Townsend Dissection" (White Mts.),  
Aug. 27, 1912 (Solidago flowers).*Bigotomyia* Malloch, 23—236.**B. houghi** (Stein).ME.—4, 8, 10. N. H.—11. July 8—Aug. 17.  
MASS.—26, 27, 32. July 1—Aug. 16.*Dendrophaonia* Malloch, 23—237.**D. querctei** Bouchi.ME.—Ft. Kent, Aug. 17, 1910. N. H.—Durham (*W. & F.*).*Phaonia* R.-Desvoidy.**P. protuberans** Malloch, 23—247.N. H.—Mt. Washington, base to summit, June 11 to Aug. 16;  
Mt. Monadnock, June 22.

MASS.—Mt. Greylock, summit, June 15, 1906.

**P. serva** (Meigen).

ME.—4, 7, 8, 10. N. H.—11, 14, 15. VT.—17, 19, 21. June 4—Sept. 11.

MASS.—23, 27. June 13–26.

**P. fraterna** Malloch, 23–251.

MASS.—Lunenburg, May 19, 1916 (*S. M. Dohanian*).

**P. tipulivora** Malloch, 23–252.

N. H.—Halfway House, Mt. Washington, July 6, 1914.

MASS.—Winchendon; Lunenburg; Raynham; Melrose Highlands. Apr. 29–May 21.

**P. pallidula** Coquillett.

MASS.—Barnstable, July 5, 1904.

**P. rufibasis** Malloch, 19–207.

ME.—Ashland Junction, Aug. 16; Mt. Desert, Aug. 6. N. H.—Hanover, July 6.

MASS.—Chester, Aug. 3, 1911; Great Barrington, June 15.

**P. cayugae** Johannsen, 17–327 (*P. nigricans* Johannsen, 16–395, not Stein, 1897).

ME.—8, 10. N. H.—15. VT.—16. May 15–Sept. 11.

MASS.—23, 25, 26, 27. CONN.—35. May 7–Sept. 1.

**P. errans** Meigen.

ME.—4, 7. N. H.—11. VT.—19, 21. June 5–Aug. 1.

MASS.—23, 27. CONN.—35. July 16–Sept. 19.

**P. errans** var. *completa* Malloch, 23–258.

ME.—Mt. Desert, June 26 and Sept. 10. N. H.—Base Station and Mt. Washington, July 3 to Aug. 15.

MASS.—Sharon, Aug. 3.

**P. deleta** (Stein).

N. H.—11. VT.—21. June 24–July 28.

MASS.—23, 27. CONN.—35. June 8–Aug. 23.

**P. soccata** Walker.

VT.—Manchester, June 9, 1910.

MASS.—Chester, May 26, 1912.

**P. morrisoni** Malloch, 23–264.

N. H.—11. VT.—19, 29, 21, 22. June 5–Aug. 23.

MASS.—Petersham, Aug. 25, 1920 (*L. H. Taylor*).

**P. harti** Malloch, 23–266.

MASS.—Auburndale, May 26.

**P. brevispina** Malloch, 23–269.

N. H.—Glen House, June 11, and summit of Mt. Washington, June 30, 1913.

**P. flavibasis** Malloch, 19–208.

MASS.—Chester, May 28.

**P. curvinervis** Malloch, 23-275.

CONN.—New London, July 10, 1916 (*R. C. Osburn*).

**P. apicata** Johannsen, 16-3.

ME.—4, 7, 8. N. H.—11. VT.—20, 21. June 5-Aug. 21.

MASS.—23, 27. CONN.—34. May 10-Aug. 9.

**P. apicata** var. **solitaria** (Stein), 18 (20)-15.

N. H.—11, 14. VT.—21. June 5-11.

MASS.—23, 27. June 16-Sept. 6.

**P. apta** Stein, 18 (20)-4.

MASS.—Woods Hole, July 7, 1902.

**P. bysia** (Walker).

ME.—7, 8. N. H.—11, 12, 14. VT.—22. June 7-Aug. 4.

MASS.—23, 25, 27, 28, 32. R. I.—33. June 20-Aug. 25.

**P. laticornis** Malloch, 22-279.

VT.—Dummerston, July 14, 1908.

**P. fusca** (Stein).

ME.—Fort Kent, Aug. 19, 1910. N. H.—Hanover, July 6, 1908.

MASS.—Sharon, Aug. 25; Concord, Apr. 20; Woods Hole, July 25.

**P. vagans** Fallen.

N. H.—Mt. Washington (*Mrs. Slosson*).

*Phaonia abacta* Giglio-Tos and *Mydaea rufusa* Giglio-Tos, recorded from Mt. Washington by Mrs. Slosson, are undoubtedly wrong determinations.

#### Alloeostylus Schnabl.

**A. diaphanus** Wiedemann (*A. signia* Walker).

ME.—3, 5, 7, 8, 10. N. H.—11, 15. VT.—16, 17, 19. June 21-Aug. 30.

MASS.—23, 26, 27. CONN.—35. May 30-Sept. 23.

#### Dialyta Meigen.

**D. flavitibia** Johannsen, 16-395 (*D. rufitibia* Stein, 20-23).

ME.—5, 7, 8, 9. June 10-July 21.

MASS.—23, 25, 26, 27, 28. R. I.—33. CONN.—34, 35. June 15-Aug. 26.

#### Trichopticus Rondani.

**T. latipennis** Malloch, 20-158.

ME.—4. N. H.—11, 12. VT.—21, 22. June 24-July 17.

MASS.—23. June 16-18.

**T. johnsoni** Malloch, 20-160.

N. H.—Mt. Washington, 2500 ft., Aug. 16; Glen House, Aug. 3; Franconia.

MASS.—North Adams, June 18, 1906.

**T. conformis** Malloch, 20-157.

N. H.—Base Station, Mt. Washington, Aug. 15, 1916.

MASS.—Mt. Greylock, Aug. 8, 1908 (*Bryant*).

**T. spiniger** Stein, 04-428.

ME.—Mt. Katahdin, Aug. 11-17 (*Blake*). N. H.—Mt. Washington, 2000 to 5000 ft., July 6-Aug. 16. VT.—Chittenden (North Pond, 2500 ft.), Aug. 1 (*Bequaert*).

Stein is evidently wrong in uniting this with *T. septentrionalis* Stein, 18 (20)-20.

**T. innocuus** Zetterstedt.

ME.—Capens, July 11; Mt. Desert, July 15. N. H.—Mt. Washington, 4000 ft., July 15.

MASS.—Mt. Greylock (summit), June 15.

This was referred to *Lasiops cunctans* in Mrs. Slosson's list, according to a specimen received from her. *A. nigrifrons* Walker of the same list probably represents this species also (see Stein on Walker's types).

**T. curvipes** Stein, 18 (20)-19.

MASS.—Lynn, Aug. 23 (*Bezzi*).

**Rhynchotrichops** Schnabl.**R. subrostrata** Zetterstedt.

N. H.—Mt. Washington, 5000 ft. July 4-Aug. 16.

**Pogonomyia** Rondani.**P. flavinervis** Malloch, 15-35 and 21-120 (*Spilogaster nitens* Stein, 1897, not Macquart, 1846; *P. flavipennis* Stein, 18 (20)-21).

ME.—Mt. Desert, June 22. N. H.—Hampton, July 25 (*Shaw*); Durham, June 5 (*Bridwell*). VT.—Burlington, June 24.

The type locality "Mass." should read "Toronto," see Aldrich, 18-180.

**Hydrotaea** R.-Desvoidy.**H. militaris** Meigen (*H. implexa* Loew).

ME.—7, 8, 9. N. H.—11, 12, 14, 15. VT.—16, 18, 19, 20, 21. June 23-Sept. 9.

MASS.—23, 25, 27, 32. R. I.—33. CONN.—35. May 27-Aug. 9.

**H. houghi** Malloch, 16-111.

ME.—7, 8. N. H.—13, 14. VT.—19. June 9-Sept. 9.

MASS.—25, 26, 27. R. I.—33. May 26-Aug. 12.

**H. cristata** Malloch.

ME.—Eastport, July 14; Machias, July 19.

MASS.—New Bedford (*Hough*); Boston, Sept 12; Auburndale, May 22.

**H. occulta** Meigen.

N. H.—Mt. Washington.

**H. metatarsata** Stein.

MASS.—New Bedford (*Hough*).

**H. armipes** Fallen.

N. H.—12, 15. July 7–16.

MASS.—27, 32. CONN.—35. May 21–Aug. 9.

**H. meteorica** (Linné).

ME.—Machias, July 21. VT.—Mt. Ascutney, July 11.

CONN.—Oxford, May 21.

**Ophyra** R.-Desvoidy.

**O. leucostoma** (Wiedemann).

ME.—2, 6, 7, 8, 9. N. H.—11, 12, 14, 15. VT.—17, 18, 20.  
May 27–Aug. 16.

MASS.—25, 27, 28, 29. R. I.—33. CONN.—35. May 15–  
Aug. 22.

**Fannia** R.-Desvoidy (*Homalomyia* Bouché).

**F. abrupta** Malloch, 24–423.

N. H.—Mt. Washington, July 8, 1914.

**F. aethiops** Malloch, 13–628.

N. H.—“White Mountains” (Morrison).

**F. canicularis** (Linné).

ME.—3, 6, 8, 9. N. H.—11, 12, 15. VT.—21. Apr. 24–July 25.  
MASS.—26, 27, 32. R. I.—33. CONN.—35. Feb. 28–Oct. 29.

**F. carbonaria** (Meigen).

ME.—4, 7, 8. N. H.—11, 14. VT.—21. June 13–July 30.

**F. depressa** Stein.

ME.—Orr’s Island, July 25. N. H.—Franconia.

MASS.—New Bedford (Hough).

**F. flavibasis** Stein.

N. H.—Franconia.

**F. fuscula** Fallen.

ME.—3, 6, 7, 8, 10. N. H.—12, 15. June 17–Aug. 21.

MASS.—23, 27, 29, 32. R. I.—33. CONN.—35. June 9–Aug. 4.

**F. incisurata** Zetterstedt.

ME.—8. N. H.—11, 15. July 19–Aug. 10.

MASS.—25, 26, 27, 28, 29, 32. CONN.—35. May 22–Sept. 4.

**F. genualis** Stein, 95–126.

N. H.—“White Mountains” (Morrison); Malloch, 13–630.

**F. kowarzii** (Verrall); see Malloch, 13–609.

ME.—7, 8. N. H.—11, 15. June 10–July 19.

MASS.—23, 24. June 15–Sept. 20.

**F. laevis** Stein.

MASS.—New Bedford (Hough); Wellfleet, Aug. 15.

**F. manicata** Meigen.

N. H.—Franconia (*Mrs. Slosson*); Hampton, Sept. 10, Oct. 1  
(*Shaw*).

**F. minutipalpis** Stein.

ME.—7, 8. N. H.—11, 12. VT.—18, 19, 22. June 7—Aug. 26.  
MASS.—23, 27. May 24—Aug. 28.

**F. morrisoni** Malloch, 13—627.

N. H.—“White Mountains” (*Morrison*).

**F. pallidiventris** Malloch, 24—422.

VT.—Mt. Ascutney, July 11, 1908.  
MASS.—Mt. Greylock, July 25.

**F. polychaeta** Stein.

MASS.—New Bedford (*Hough*).

**F. postica** Stein.

N. H.—“White Mountains” (*Morrison*); Malloch, 13—627.

**F. pretiosa** Schiner (see Malloch, 13—630).

ME.—Machias, July 25, 1909. VT.—Mt. Ascutney, July 11,  
1908.

MASS.—Chester, July 25, 1913; Sharon, Aug. 3, 1904.

**F. pusio** (Wiedemann) (*Homalomyia femorata* Loew; see Malloch,  
13—623).

N. H.—.

CONN.—.

**F. scalaris** (Zetterstedt).

ME.—7, 8, 9, 10. N. H.—11, 15. May 5—July 25.  
MASS.—26, 27, 28, 29, 32. R. I.—33. CONN.—35. Apr. 17—  
Aug. 15.

**F. serena** Fallen.

ME.—1, 7, 8. N. H.—11, 12. June 15—Aug. 19.

MASS.—23, 24, 27. May 30—Aug. 13.

**F. sociella** (Zetterstedt) (see Malloch, 13—627).

ME.—8. N. H.—11, 15. VT.—18, 19. July 6—Aug. 27.

MASS.—23, 25, 27. July 8—Oct. 13.

*Coelomyia* Haliday.**C. subpellucens** (Zetterstedt) (*Homalomyia flavaria* Coquillett).

ME.—Eastport, July 15; Mt. Desert, June 27. N. H.—Mt.  
Washington (“Glen” to summit), June 11—July 8.

MASS.—Mt. Greylock (summit), June 15, 1906.

*Platycoenosia* Strobl.**P. miki** Strobl.

ME.—Bar Harbor, July 20.

*Azelia* R.-Desvoidy.**A. ciliipes** Zetterstedt.ME.—7. N. H.—11, 14. Vt.—17, 22. July 2—Aug. 30.  
MASS.—23, 24. R. I.—33. May 28—Aug. 7.**A. gibbera** Meigen.N. H.—Hampton (*Shaw*).  
MASS.—.**A. triquetra** Macquart.N. H.—11, 12. Vt.—19, 20, 21, 22. June 19—Aug. 27.  
MASS.—23, 27. Aug. 4—28.*Hebecnema* Schnabl.**H. affinis** Malloch, 21—214.

ME.—7, 8. N. H.—11. Vt.—18, 19. June 15—Aug. 15.

**H. pallipes** Malloch, 20—269.

MASS.—Chester, Aug. 7; Auburndale, June 22, Oct. 1.

**H. umbratica** (Meigen).ME.—7. N. H.—13, 15. Vt.—22. July 14—Sept. 10.  
MASS.—23, 32. R. I.—33. June 12—Aug. 9.**H. vespertina** (Fallen).ME.—6, 7. N. H.—11, 15. Vt.—19. June 3—Aug. 27.  
MASS.—27, 32. R. I.—33. May 30—Dec. 25.*Mydaea* R.-Desvoidy.**M. nubila** Stein (*Spilogaster obscura* Stein, 1897, not Van der Wulp).

MASS.—Auburndale, May 26, Aug. 23.

**M. rugia** Walker.

N. H.—Mt. Washington, 2500 to 5000 ft., June 13—July 16.

**M. flavigornis** Coquillett.

N. H.—12, 14. June 12—July 6.

MASS.—23, 27, 28. CONN.—35. May 22—Aug. 9.

**M. occidentalis** Malloch, 20—134.

ME.—7, 8. N. H.—11. Vt.—19. July 7—Aug. 15.

MASS.—23. R. I.—33. June 22—27.

**M. persimilis** Malloch, 20—134.

N. H.—14. Vt.—16, 21. June 3—July 11.

MASS.—25, 26, 27, 28. CONN.—35. June 16—Aug. 9.

**M. impedita** Stein, 18 (20)—33.

MASS.—Woods Hole, July, 1900.

**M. brevipilosa** Malloch, 20—135.Vt.—Manchester, June 4; St. Albans, June 21; Brattleboro,  
July 15.CONN.—Stonington (*Britton*).

**M. discimana** Malloch, 20-136.

ME.—5, 7, 8, 10. N. H.—11, 14. VT.—21. June 8-Aug. 6.  
MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—35. May 28—  
Aug. 14.

**M. neglecta** Malloch, 20-136.

VT.—20. July 11.  
MASS.—23, 27, 32. R. I.—33. CONN.—35. June 15-Sept. 6.

**M. hirtiventris** Malloch, 20-269.

ME.—Mt. Desert, June 17-Aug. 16.  
MASS.—Chester, Aug. 5.

**M. pagana** (Fabricius).

ME.—Machias, July 19; Bar Harbor, June 7. N. H.—Jaffrey,  
June 8.

**M. urbana** (Meigen).

ME.—8. N. H.—11, 14. June 8-July 18.  
MASS.—23, 26, 27, 28, 32. R. I.—33. CONN.—35. May 26—  
Sept. 4.

Helina R.-Desvoidy (*Spilogaster* Macquart).

**H. marmorata** Zetterstedt.

ME.—7, 8. N. H.—11, 14. VT.—20, 21. June 5-Aug. 17.  
MASS.—23, 27, 28. R. I.—33. June 14-July 27.

**H. lucorum** Fallen.

ME.—3, 4, 7, 8, 10. N. H.—11, 15. VT.—16, 18, 19, 21. June  
11-Aug. 27.  
MASS.—23, 25, 27. CONN.—35. May 30-July 7.

**H. multisetosa** Schnabl.

ME.—6, 8. N. H.—11, 14, 15. VT.—19. Aug. 15-Sept. 14.

**H. nigripennis** (Walker) (*Aricia nitida* Stein).

MASS.—Cohasset, June 1 (*Bryant*); Provincetown, June 25.

**H. nigricans** Stein.

ME.—1, 8. N. H.—15. VT.—16, 19, 22. June 22-Aug. 19.  
MASS.—23, 27. Aug. 4-Sept. 1.

**H. duplicata** Meigen.

ME.—3. N. H.—11. July 12-31.  
MASS.—23, 27, 28. June 10-July 12.

**H. rufitibia** Stein.

VT.—Mt. Ascutney, July 11, 1908.

**H. pectinata** Johannsen, 16-396.

ME.—Bar Harbor, July 22, 1919.

**H. brevis** Stein.

ME.—Eastport, July 14; Southwest Harbor, July 13.

**H. consimilata** Malloch, 20-144.

MASS.—New Bedford (*Hough*).

**H. mimetica** Malloch, 20-142.

ME.—Mt. Desert, June 7-17. N. H.—Glen House, June 13.  
Mass.—North Adams, June 18; Dover, June 27.

**H. neopoeciloptera** Malloch, 20-139 (*A. poeciloptera* Malloch, 18-271, not Stein).

N. H.—Mt. Washington, 4000 to 5000 ft., July 16-21.  
Mass.—Sharon, May 26, 1908.

**H. obscurinervis** Stein.

ME.—Waterville (*Hitchings*). N. H.—Hampton, Sept. 1-Oct. 9  
(*Shaw*); Durham, June 13.

**H. abiens** Stein.

Mass.—New Bedford (*Hough*); Woods Hole, Aug. 19; Nantucket,  
July 23 (*Cushman*).

**H. uniseta** Stein.

N. H.—15. VT.—16, 21. June 9-Aug. 15.

MASS.—23, 24, 27, 28, 32. R. I.—33. CONN.—35. June 10-  
Sept. 22.

**H. johnsoni** Malloch, 20-141.

ME.—8. N. H.—14. June 7-22.

MASS.—27, 29. CONN.—35. May 29-June 29.

**H. fulvisquama** Zetterstedt (*H. tuberculata* Malloch, 19-277).

N. H.—Base Station, Mt. Washington, July 7.

**H. lysinoe** Walker (*S. amoeba* Stein).

ME.—8, 9. N. H.—12, 13, 15. June 15-Sept. 10.

MASS.—23, 26, 27, 28, 29, 31, 32. R. I.—33. May 30-Oct. 29.

**H. uliginosa** (Fallen).

MASS.—Boston, Aug. 29.

**H. exilis** Stein, 18 (20)-30.

MASS.—.

**H. obscuripes** Zetterstedt.

N. H.—White Mts. (*Stein*), 04-449.

**H. humeralis** Zetterstedt.

N. H.—Franconia.

MASS.—New Bedford, from Hough Coll. (*Stein*).

**Lispoides** Malloch, 20-146.

**L. aequifrons** (*Stein*) (*L. aequalis* Malloch, 21-61, not Stein).

N. H.—Hampton, June 11, 1923 (*Shaw*); Peterboro, Sept. 6, 1924  
(*C. F. Batchelder*).

MASS.—Auburndale, Aug. 16-Sept. 12; Blue Hill, June 6.

**Limnophora** R.-Desvoidy.

**L. discreta** Stein (see Marchand, 23-58).

N. H.—Franconia.

**L. narona** Walker.

N. H.—Hampton, June 20 (*Shaw*).

MASS.—26, 28, 32. R. I.—33. CONN.—35. June 19—July 30.

**Spilogona** Schnabl and Dziedzicki (*Melanochelia* Rondani).

**S. aerea** (Fallen).

ME.—Machias, July 17; Southwest Harbor, June 21; Mt. Katahdin, July 30 (*Blake*).

MASS.—Wellesley, Oct. 13 (*Morse*).

**S. acuticornis** Malloch, 20—147.

ME.—Machias, July 17, 1909.

**S. alticola** Malloch, 20—153.

ME.—Princeton, July 12; Bar Harbor, June 7. N. H.—Mt. Washington, Glen House and Bretton Woods, June 28—Aug. 3; Mt. Monadnock, June 26.

**S. argenticeps** Malloch, 24—200.

N. H.—Mt. Washington, 4000 ft., Aug. 8.

**S. carbonella** (Zetterstedt).

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**S. caroli** Malloch, 20—154.

ME.—Mt. Desert, June 17—Aug. 17; Capens, July 14. N. H.—Jaffrey, June 8. VT.—Mt. Ascutney, July 11, 1908.

**S. clivicola** Malloch, 20—155.

ME.—Eastport, July 16; Mt. Desert, June 11—20. N. H.—Cornish, July 13. VT.—Dummerston, July 14.

MASS.—Chester, Aug. 5.

**S. litorea** (Fallen).

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**S. monticola** Malloch, 20—152.

N. H.—Mt. Washington, Tuckerman's Ravine, July 4; Carriage Road, 2500 ft., July 24.

**S. novaeangliae** Malloch, 20—151.

N. H.—Mt. Washington, 4000 ft., July 4; Bretton Woods, Base Station and Glen House, June 11—Aug. 15.

**S. suspecta** (Malloch), 20—154.

ME.—Capens, July 19, 1907.

**S. tetrachaeta** (Malloch), 20—153.

ME.—Bar Harbor, June 15—July 30; Mt. Katahdin, Aug. 17 (*Blake*).

**S. torreyae** (Johannsen), 16—391.

N. H.—Hanover, July 6. VT.—Dummerston, July 14.

MASS.—Chester, Aug. 3—9.

*Paralimnophora* Malloch.

*P. velutina* (Malloch), 20-147, also 21-62 (*Paralimnophora brunneisquama* Malloch, 13-605, not Zetterstedt).

ME.—7, 8. N. H.—11, 14. VT.—16, 17. June 14-July 19.  
MASS.—23. June 15-27.

*Limnospila* Schnabl.

*L. albifrons* Zetterstedt.

ME.—8. N. H.—15. June 14-Aug. 23.  
MASS.—26, 29, 30, 32. July 14-Aug. 2.

*Phylogaster* Stein.

*P. cordyluroides* Stein.

ME.—7, 8, 10. July 24-Aug. 31.  
MASS.—26, 27, 29, 30, 31, 32. R. I.—33. June 28-Sept. 5.

*P. robustus* Johnson, 17-148 (*P. maxima* Stein, 20-59).

MASS.—26, 29, 30, 31, 32. R. I.—33. June 17-Aug. 2.

*Tetramerinx* Berg, 1898.

(*Tetrachaeta* Stein, not Ehremberg; *Parasteinia* Cockerell, 05-361.)

*T. unica* Stein.

ME.—9. Aug. 10.

MASS.—26, 28, 29, 30, 31, 32. R. I.—33. June 5-Sept. 9.

*Lispocephala* Pokorny.

*L. alma* Meigen.

ME.—Mt. Desert, Sept. 6. N. H.—Passaconaway, Sept. 12, 1912 (Cushman).

*L. alma* var. *pallipalpis* Zetterstedt.

ME.—6, 8. N. H.—15. VT.—20. Mar. 3-Oct. 27.

MASS.—27. Nov. 18.

*L. erythrocerata* R.-Desvoidy (*Anthomyza lacteipennis* Zett., Dipt. Scand, vol. 4, 1722).

ME.—3, 7, 8. N. H.—11, 14, 15. Apr. 22-Aug. 30.

MASS.—23, 25, 26, 27, 29, 32. R. I.—33. CONN.—35. June 23-Nov. 30.

It was also taken in a greenhouse in Cambridge, Mass., Mar. 23, feeding on "white flies."

*L. verna* (Fabricius).

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

*Lispa* Latreille.

*L. albitarsis* Stein.

ME.—8. N. H.—11. June 13-Aug. 16.

MASS.—23, 26, 27, 29, 31, 32. CONN.—35. June 25-Oct. 18.

**L. johnsoni** Aldrich, 138.

ME.—Mt. Desert, Sept. 13, 1922. N. H.—Hampton, Aug. 20, 1914 (*Shaw*).

MASS.—Cohasset, Sept. 9 (*Bryant*).

**L. nasoni** Stein.

MASS.—Cohasset, Sept. 9 (*Bryant*).

**L. palposa** Walker.

MASS.—Plymouth, July 28; Gloucester, June 20.

**L. sociabilis** Loew.

ME.—7, 8. N. H.—11, 14. June 13—Aug. 5.

MASS.—27, 29. June 27—Aug. 3.

**L. tentaculata** DeGeer.

ME.—Princeton, July 12; Mt. Desert, July 15—Sept. 13.

MASS.—Dartmouth, Feb. 24 (*Easton*); Sharon, Aug. 3.

**L. uliginosa** Fallen.

ME.—Mt. Desert, June 13—Aug. 20. N. H.—Mt. Washington (*Mrs. Slosson*).

**Fucellia** R.-Desvoidy.

**F. maritima** Haliday (*Fucellia fucorum* of authors, not Fallen).  
The "Kelp Fly."

ME.—7, 8, 10. N. H.—15. Mar. 27—July 15.

MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35.  
Jan. 3—Nov. 30.

**Chirosia** Rondani.

**C. capito** Coquillett.

N. H.—Hampton, Sept. 1 (*Shaw*).

MASS.—Ipswich Beach, Aug. 12 (*Fuller*); Provincetown, Sept. 21 (*Bryant*).

**Anthomyia** Meigen.

**A. pluvialis** (Linné).

ME.—8. N. H.—11, 13, 14, 15. VT.—May 8—Sept. 10.

MASS.—24, 27, 32. R. I.—33. CONN.—35. May 25—Sept. 22.

**Calythea** Schnabl and Dziedzicki.

**C. separata** Malloch, 24—198.

N. H.—15.

MASS.—29, 30, 32. R. I.—33. CONN.—35. June 27—Aug. 24.

**C. albicincta** (Fallen).

MASS.—New Bedford (*Hough*). CONN.—Colebrook, July 21 (*Viereck*).

**Anthomyiella** Malloch.

**A. pratincola** (Panzer).

ME.—1. N. H.—12, 15. VT.—21. June 22—Aug. 19.

MASS.—27. R. I.—33. CONN.—35. May 24—Oct. 16.

*Pegomyia* R.-Desvoidy.**P. affinis** Stein (*P. vicina* Stein, not Lintner).ME.—8, 9. N. H.—11, 14, 15. VT.—16. APR. 26—SEPT. 24.  
MASS.—23, 24, 25, 26, 27, 32. R. I.—33. CONN.—35. MAY  
15—SEPT. 4.**P. bicolor** Wiedemann.ME.—Mt. Desert, June 21; Mt. Katahdin, Aug. 24 (*Blake*).  
MASS.—Wellesley, May 21 (*Morse*). CONN.—Windsor, larva in  
sorrel, emerged July 15 (*M. P. Zappe*).**P. calyprata** Zetterstedt.N. H.—11, 12, 14. JUNE 8—JULY 6.  
MASS.—26, 27, 29, 32. R. I.—33. CONN.—35. MAY 15—  
JULY 23.**P. connexa** Stein, 20—68 (*P. emmesia* Malloch, 20—179).ME.—7, 8. N. H.—11. VT.—16. JUNE 11—AUG. 21.  
MASS.—23, 28. CONN.—35. JUNE 16—JULY 2.**P. finitima** Stein.N. H.—Hampton, May (*Shaw*).  
MASS.—Wellesley, July 5, 1919 (*Morse*).**P. fuscofasciata** Malloch, 20—178.ME.—6, 7, 8. N. H.—14. VT.—21. JUNE 5—JULY 21.  
MASS.—23, 25, 27, 28, 29, 31. CONN.—35. MAY 28—AUG. 14.**P. geniculata** Bouché.ME.—4, 7, 8. N. H.—11. VT.—16, 18, 21. JUNE 5—JULY 14.  
MASS.—23, 27. CONN.—35. JUNE 6—28.**P. hyoscyami** Panzer (*P. vicina* Lintner).ME.—5, 6, 8, 9. N. H.—11, 14, 15. VT.—17. MAY 10—JULY 22.  
MASS.—25, 27, 28. CONN.—35. MAY 1—SEPT. 9.

The larva mines the leaves of beets.

**P. juvenilis** Stein.ME.—4, 5, 7, 8. N. H.—11, 12. VT.—16, 20. JUNE 21—JULY 30.  
MASS.—23, 32. R. I.—33. JUNE 9—AUG. 6.**P. lipsia** Walker.N. H.—11, 12, 14, 15. VT.—19, 21, 22. MAY 25—SEPT. 11.  
MASS.—23, 26, 27, 29. CONN.—35. JUNE 10—AUG. 28.**P. littoralis** Malloch, 20—127.

ME.—Mt. Desert, July 16—25; Princeton, July 12.

**P. luteola** Malloch, 20—175.ME.—Eastport, July 14; Machias, July 21; Mt. Desert, July  
12—24.

MASS.—Chester, Aug. 9, 1912.

**P. rubivora** Coquillett.

MASS.—Framingham, May 28, 1904. CONN.—Bristol.

**P. slossonae** Malloch, 20-127.

N. H.—Mt. Washington, 2500 ft., June 14, 1916.

**P. triseta** Malloch, 20-177.

MASS.—23, 27, 28, 29. R. I.—33. May 22-Sept. 21.

**P. unicolor** Stein.

Vt.—St. Albans, June 21; Mt. Ascutney, July 11.

MASS.—Chester, Aug. 3; Great Barrington, June 14.

**P. vittigera** Zetterstedt.

ME.—7, 8, 10. N. H.—13, 15. Vt.—18. June 21-Sept. 10.

MASS.—23, 25, 27. Aug. 8-23.

**P. winthemi** Meigen (*P. latitarsis* Zetterstedt).

ME.—8. N. H.—11, 14, 15. June 7-Sept. 8.

MASS.—27, 31, 32. Aug. 2-4.

*Eremomyoides* Malloch, 21-76.

**E. cylindrica** (Stein).

ME.—6. N. H.—15. Apr. 15-May 13.

MASS.—24, 26, 27, 28, 32. Apr. 3-June 1.

*Acroptena* Pokorny.

**A. ambigua** (Fallen).

ME.—3, 7, 8, 9. Vt.—20. June 13-Aug. 5.

MASS.—26, 27, 28, 29. R. I.—33. CONN.—35. May 30-Aug. 27.

*Hydrophoria* R.-Desvoidy.

**H. arctica** Malloch, 19-690.

N. H.—Mt. Washington, "Alpine Garden," 5000 ft., Aug. 16, 1916.

**H. proxima** Malloch, 20-171.

ME.—Machias, July 21; Princeton, July 12; Bar Harbor, June 13.

**H. uniformis** Malloch, 18-297.

CONN.—Yalesville, Oct. 19, 1903 (*Viereck*).

*Eustalomyia* Kowarz.

**E. vittipes** Zetterstedt.

ME.—4. N. H.—12, 14, 15. June 18-July 21.

MASS.—23, 27, 28, 29. CONN.—35. May 6-Sept. 18.

**E. brixia** Walker (*E. histrio* Zetterstedt?).

ME.—Northeast Harbor, July 16, 1909 (Dr. C. S. Minot). N. H.—Glen House, June 14, 1916.

MASS.—Southbridge (*Bromley*); Great Barrington, June 16; Medford and Blue Hill, July 3-16.

*Proboscimyia* Bigot (*Dolichoglossa* Stein).

**P. siphonina** Bigot.

MASS.—Nantucket, Sept. 8.

*Hylemyia* R.-Desvoidy.*H. alcathoe* (Walker).ME.—1, 6, 7, 8. N. H.—11, 14, 15. VT.—16, 17, 18, 19, 21.  
June 13—Aug. 19.

MASS.—23. June 8—Aug. 9.

*H. antiqua* (Meigen) (*H. ceparum* Meigen; *H. cepetorum* Meade).  
The Onion Maggot.

ME.—1, 6, 7, 8. N. H.—11, 14, 15. June 8—Aug. 21.

MASS.—24, 27, 28. CONN.—35. June 29—Aug. 20.

*H. brassicae* Bouché. The Cabbage Maggot.

ME.—8, 9. N. H.—11, 15. Apr. 20—July 13.

MASS.—27, 32. R. I.—33. CONN.—35. Apr. 30—July 16.

*H. coenosiaeformis* Stein, 04—477.

ME.—1, 7, 8. N. H.—11. VT.—19. June 23—Aug. 19.

*H. depressa* Stein.ME.—1, 6, 7, 9, 10. N. H.—11, 12, 13, 15. VT.—16, 20, 22.  
June 24—Sept. 11.

MASS.—23, 25, 26, 27, 28. CONN.—35. June 25—Aug. 9.

*H. innocua* Malloch, 20—186.

ME.—Mt. Desert, July 18—20; Oquossoc, July 1.

MASS.—New Bedford (*Hough*).*H. inornata* Stein.ME.—7, 8. N. H.—11, 12, 13, 15. VT.—21. June 4—Sept. 10.  
MASS.—23, 27, 32. R. I.—33. CONN.—35. May 26—June 19.*H. johnsoni* Stein.N. H.—Bretton Woods, June 26. VT.—Manchester, June 8;  
St. Albans, June 19.MASS.—Sharon, July 7. CONN.—Branford, June 13 (*Walden*).*H. latipennis* Zetterstedt.ME.—4, 7, 8, 10. N. H.—11, 15. VT.—19, 20. May 26—  
July 12.

MASS.—23, 26, 27. CONN.—June 4—Aug. 4.

*H. megacephala* Malloch, 20—188.

MASS.—Auburndale, May 22.

*H. pluvialis* Malloch, 18—130.ME.—*Penobscot Co.* (Section 2, Range 7), Aug. 2 (*J. A. Cushman*).*H. sinuata* Malloch, 24—196.MASS.—Newton, May 15, 1920 (*C. A. White*).*H. testacea* Stein.N. H.—White Mts. (*Morrison*), Stein, 04—479.*H. trivittata* Stein (*H. longicauda* Malloch, ♀).

ME.—1, 7. N. H.—12. July 4—Aug. 19.

MASS.—23, 27, 29, 32. June 23—Aug. 4.

**H. variata** (Fallen).

N. H.—Hampton, Apr. 16 (*Shaw*).  
 MASS.—New Bedford (*Hough*).

Subgenus *Pycnoglossa* Coquillett, 1901 (*Pogonomyza* Schnabl and Dziedzicki, 1911).

**H. flavigennis** (Fallen).

ME.—7, 8. N. H.—11, 15. VT.—20. June 13—July 21.  
 MASS.—25, 26. July 4—8.

**H. proboscidalis** Malloch, 21—79.

ME.—8. N. H.—11. VT.—16, 18. June 21—July 12.  
 MASS.—23, 25, 27. R. I.—33. CONN.—35. May 26—Aug. 9.

Subgenus *Pareglea* Schnabl and Dziedzicki.

**H. aestiva** (Meigen).

ME.—Mt. Desert, July 11.

**H. cinerella** (Fallen).

ME.—6, 8, 9. N. H.—11, 12. June 12—July 12.  
 MASS.—29, 32. R. I.—33. CONN.—35. June 6—July 25.

**H. radicum** (Linné).

ME.—1, 6, 7. N. H.—11, 12, 14. June 8—Aug. 17.  
 MASS.—23, 27, 28, 29. CONN.—35. May 16—Oct. 16.

Subgenus *Egle* R.-Desvoidy.

**H. muscaria** (Meigen).

N. H.—Hampton, Apr. 26 (*Shaw*); Durham, Mar. 23, 1924  
 (Lowry).

MASS.—Winchendon, Apr. 25, 1904 (*Russell*); Sherborn, Apr. 3,  
 1910 (*E. J. Smith*); Dartmouth, Apr. 25, 1916 (*N. S. Easton*).

Subgenus *Chortophila* Macquart (*Phorbia* of authors).

**H. cilicrura** Rondani (*Phorbia fusciceps* of authors, not Zetterstedt). The “Seed-corn Maggot” (Hawley, 23—944).

ME.—1, 4, 6, 7, 8, 9, 10. N. H.—11, 14, 15. VT.—16, 18, 19, 21.  
 May 10—Aug. 19.

MASS.—23, 24, 25, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—  
 34, 35. May 8—Oct. 29.

**H. trichodactyla** Rondani.

ME.—Bar Harbor, July 19.

MASS.—Wellesley, June 13 (*Morse*). R. I.—Providence, Sept. 1  
 (*Davis*).

**H. laevis** Stein.

MASS.—New Bedford (*Hough*).

**H. betarum** Lintner (*H. substriata* Stein, 20—92).

MASS.—New Bedford (*Hough*).

**H. bicaudatus** Malloch, 20–193.

N. H.—Hampton, Apr. 25, 1907 (*Shaw*).

**H. longipalpis** Malloch, 24–197.

ME.—Waterville, May 11 (*Hitchings*).

**H. fabricii** Holmgren.

N. H.—White Mts. (*Coquillett*).

**Prosalpia** Pokorny.

**P. angustitarsis** Malloch.

ME.—7, 8. N. H.—14. July 12–Sept. 1.

MASS.—25, 26, 27. June 10–Sept. 4.

**P. silvestris** (Fallen) (*Anthomyia grisea* Walker?).

ME.—1, 4, 7, 8. N. H.—11, 13, 15. VT.—16, 19, 20, 21. June 16–Sept. 10.

MASS.—27, 28. CONN.—34. June 16–Aug. 6.

**Hylephila** Rondani (*Hammomyia* of authors, not Rondani).

**H. marylandica** Malloch, 21–78.

N. H.—Mt. Washington, 3800 ft., Aug. 6 (*W. Reiff*).

**H. obtusa** Zetterstedt (*H. paludis* Johannsen, 17–323).

MASS.—Melrose Highlands, Apr. 2 (*Preston*); Essex, Apr. 19 (*Fuller*).

**H. setigera** Johannsen, 16–387.

MASS.—Mt. Greylock, June 15. CONN.—Darien, June 11.

**H. unilineata** Zetterstedt.

MASS.—New Bedford, Apr. 17 (*Hough*); Malden, Apr. 16.

CONN.—South Meriden, Mar. 15.

**Macrophorbia** Malloch.

**M. houghi** Malloch, 20–173.

N. H.—Hampton, Apr. 26.

MASS.—Sherborn, Apr. 30–May 26 (*E. J. Smith*); Melrose Highlands, May 3; Danvers, May 19; New Bedford, May 10 (*Hough*).

Neodexiopsis Malloch, 20–162.

**N. basalis** (Stein) (*Dexiopsis basalis* Stein).

MASS.—Ipswich Beach, Aug. 12 (*Fuller*); Eastham, June 27.

CONN.—New Haven, Oct. 16 (*Viereck*).

**Macrorchis** Rondani.

**M. ausoba** (Walker) (*Coenosia aurifrons* Stein).

ME.—1, 2, 6, 7, 8, 10. N. H.—11, 14, 15. VT.—16, 17, 21, 22. June 22–Sept. 18.

MASS.—23, 27, 28, 29, 32. R. I.—33. CONN.—35. May 26–Aug. 27.

*Xenocoenosia* Malloch.**X. calophaga** (Loew); Malloch, 20-162.N. H.—Mt. Washington (*Mrs. Slosson*).MASS.—New Bedford (*Hough*). CONN.—New Haven, Oct. 16  
(*Viereck*).*Coenosia* Meigen.**C. calopyga** Loew.N. H.—Mt. Washington (*Mrs. Slosson*).CONN.—New Haven, Oct. 15 (*Viereck*).**C. compressa** Stein, 04-489.

ME.—4, 7, 8. N. H.—12, 13. July 7—Sept. 10.

MASS.—23, 25, 32. June 28—Aug. 26.

**C. denticornis** Malloch, 20-164.

N. H.—Glen House, June 11, 1916.

**C. errans** Malloch, 21-204 (*C. flavipes* Stein, 1897, not Williston, 1896, = *C. steinii* Johnson, 1913, not Verrall, 1912). Although Stein (20-104) considers his *C. flavipes* the same as *C. hypopygialis*, I think he is in error.N. H.—Glen House, July 2; Mt. Monadnock, June 22; Pelham, Sept. 11 (*Bridwell*).MASS.—Woods Hole, July 23. R. I.—Kingston, July 17-25  
(*Barlow*).**C. flavicoxa** Stein.

ME.—3. N. H.—12, 13. VT.—17. June 25—Sept. 10.

MASS.—23, 27. R. I.—33. CONN.—35. May 14—July 12.

**C. fuscifrons** Malloch, 19-96.

ME.—1, 4, 8. N. H.—11, 13. VT.—22. June 11—Sept. 10.

MASS.—23. July 25.

**C. hypopygialis** Stein.

N. H.—Glen House, July 3.

MASS.—New Bedford (*Hough*); Cohasset, June 1 (*Bryant*).**C. humilis** Meigen (*C. nana* Zetterstedt).N. H.—Hampton, May 24 (*Shaw*).MASS.—Forest Hills, June 21, in greenhouse (*H. A. Preston*);Waban, Apr. 1 (*Reiff*); New Bedford (*Hough*); Woods Hole.CONN.—Suffield (*Dimmock*).**C. lata** Walker (*C. canescens* Stein).

ME.—6, 10. N. H.—11, 14, 15. VT.—20.

MASS.—23, 24, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—35.

Although Stein (20-103) questions the identity of the two species, I think there is little doubt but that they are the same.

**C. modesta** Loew.ME.—Ft. Kent, Aug. 19. N. H.—Claremont, May 20. VT.—  
Burlington, June 24.

**C. nivea** Loew.

N. H.—Manchester, June 6, 1910.  
MASS.—Cheshire, June 21, 1906.

**C. nigrescens** Stein.

ME.—Orono, Sept. 12; Mt. Desert, June 20—Sept. 7; Mt. Katahdin, Aug. 17 (*Blake*), Aug. 21 (*Alexander*). N. H.—Franconia (*Mrs. Slosson*).

**C. nudiseta** Stein.

MASS.—26, 28, 29, 30, 31, 32. R. I.—33. June 17—Aug. 28.

**C. solita** Walker.

N. H.—Mt. Washington (*Mrs. Slosson*).

**C. rufitibia** Stein, 17—161 and 20—105 (*C. tibialis* Stein, 1897, not Macquart, 1843).

CONN.—

## Caricea R.-Desvoidy.

**C. albicornis** Meigen.

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

CONN.—

## Macrocoenia Malloch, 20—162.

**M. trisetata** (Stein).

ME.—7, 8. N. H.—11, 15. VT.—18. June 17—July 24.

MASS.—23, 27, 32. May 30—June 15.

## Hoplogaster Rondani.

**H. nigritarsis** Stein.

ME.—1, 8, 10. N. H.—11, 12, 13. VT.—17, 21, 22. July 7—Sept. 10.

MASS.—23, 25, 27. CONN.—35. June 15—Sept. 4.

**H. morrisoni** Malloch, 24—172.

N. H.—White Mts. (*Morrison*), U. S. Nat. Mus.

## Bithoracochaeta Stein.

**B. leucoprocta** (Wiedemann) (*Caricea antica* Walker; *C. insignis* Stein, see Malloch, 21—107).

N. H.—Mt. Washington (*Mrs. Slosson*); White Mts. (*Morrison*), Stein, 04—452.

## Schoenomyza Haliday.

**S. chrysostoma** Loew.

ME.—3, 8, 9. N. H.—11, 15. VT.—20. May 14—Aug. 21.  
MASS.—24, 26, 27, 28, 29, 31, 32. R. I.—33. CONN.—35.  
May 29—Sept. 6.

**S. dorsalis** Loew.

ME.—3, 4, 8. N. H.—11, 14. VT.—18. June 27—Aug. 17.  
MASS.—24, 26, 27, 29, 32. CONN.—35. May 24—Aug. 30.

**S. litorella** (Fallen)

ME.—Kineo, Aug. 17; Mt. Desert, July 12.

MASS.—New Bedford, Aug. 8 (*Hough*); Provincetown, June 25.

## SCATOPHAGIDAE.

Cordilura Fallen.

**C. angustifrons** Loew.

ME.—Machias, July 25; Orono, June 21.

MASS.—Auburndale, June 15; Blue Hill, May 30.

**C. latifrons** Loew.

N. H.—14, 15. June 10–30.

MASS.—26, 28, 29, 31, 32. R. I.—33. CONN.—35. June 4–Aug. 28.

**C. carbonaria** Walker (*C. gagatina* Loew).

ME.—8. N. H.—11, 14. VT.—19. June 8–Aug. 17.

MASS.—27, 28. June 1–July 27.

**C. capillata** Loew.N. H.—White Mts. (*Osten Sacken*).**C. cincta** Loew.

ME.—Princeton, July 12, 1909.

**C. gracilipes** Loew.

ME.—7, 8, 9. N. H.—11, 15. VT.—21. May 30–Aug. 1.

MASS.—23, 27. R. I.—33. CONN.—35. May 22–Aug. 10.

**C. lutea** Loew.

N. H.—Mt. Washington (U. S. Nat. Mus.).

**C. nana** Loew.

ME.—7, 8, 9. N. H.—11, 15. June 26–Aug. 10.

MASS.—23. CONN.—35. June 11–Aug. 8.

**C. praeusta** Loew.

ME.—7, 9. N. H.—11, 14, 15. June 21–July 20.

MASS.—23, 27, 28. June 15–Aug. 9.

**C. setosa** Loew.

ME.—7, 8. N. H.—11, 14, 15. VT.—16, 21. June 1–July 28.

MASS.—23, 24, 25, 27, 28. R. I.—33. CONN.—35. May 29–July 27.

**C. tricincta** Loew.

ME.—8. N. H.—11. VT.—19. June 13–Aug. 23.

MASS.—23. June 27–Aug. 5.

**C. variabilis** Loew.

ME.—8. N. H.—11, 15. May 23–July 10.

MASS.—24, 27. R. I.—33. CONN.—35. May 20–Aug. 3.

*Parallelomma* Becker.

**P. dimidiata** (Cresson), 18–135.

ME.—Bar Harbor, June 7. VT.—Mt. Equinox, June 5; Norwich, July 8.

MASS.—Wellesley, July 19.

**P. emarginata** Malloch, 23–179.

N. H.—Hanover, July 6. VT.—Chittenden, Aug. 1 (*Bequaert*). MASS.—Auburndale, Aug. 2, June 26, May 22.

**P. munda** (Loew).

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Mt. Greylock, Aug. 8 (*Bryant*); Chester, July 25; Auburndale, Aug. 9. R. I.—Wickford, June 9.

**P. pleuritica** (Loew) (*Cordylura slossonae* Coquillett).

ME.—7, 8, 9. N. H.—11, 13, 14, 15. VT.—21. June 7–Sept. 4.

MASS.—23, 25, 26, 27, 28. R. I.—33. CONN.—35. May 26–Aug. 8.

**P. scapularis** (Loew).

N. H.—Glen House; Jaffrey, June 18.

MASS.—Cohasset (*Bryant*).

**P. similata** Malloch, 23–178.

N. H.—Bretton Woods, June 26; Mt. Washington, 2500 ft., July 28.

**P. glabra** (Loew).

N. H.—Mt. Washington, 2500 ft., July 28; Glen House, July 15.

VT.—Chittenden, Aug. 1 (*Bequaert*).

MASS.—Mt. Greylock, Aug. 8 (*Bryant*); Auburndale, Aug. 28.

*Hexamitocera* Becker.

**H. flavida** Coquillett.

ME.—Eastport, July 15–16. N. H.—Franconia (*Mrs. Slosson*).

*Micropselapha* Becker.

**M. albifacies** Johnson, 22–23.

ME.—Ft. Kent, Aug. 17, 1918.

*Amaurosoma* Becker.

**A. pallidipes** Malloch, 22–77.

N. H.—Mt. Washington, 2500 ft., July 13; Hampton, May 20–31 (*Shaw*).

MASS.—Dedham, June 3.

**A. nuda** Malloch, 22–78.

N. H.—Hampton, May 20–31 (*Shaw*).

MASS.—Tyngsboro, July 3, 1919 (*Fall*).

*Americina* Malloch, 23-139.**A. adusta** (Loew).

ME.—7, 8. N. H.—11, 12, 15. May 30-July 29.

**A. inermis** (Loew).

N. H.—11, 12, 14. June 7-July 4.

MASS.—23, 27, 28. July 25-Aug. 9.

*Achaetella* Malloch, 23-140 (*Parallelomma* of authors).**A. varipes** Walker.

ME.—7, 8, 9. N. H.—11, 15. VT.—16. June 16-July 27.

MASS.—23, 26, 27, 28. CONN.—35. May 30-Aug. 5.

*Cordylurella* Malloch, 19-78c.**C. nebulosa** (Coquillett).

MASS.—Provincetown, June 28, 1891 (Morse).

*Orthacheta* Becker.**O. dissimilis** Malloch, 24-194.

ME.—6. N. H.—15. May 29-June 5.

MASS.—23, 26. CONN.—34, 35. May 10-June 16.

*Pselaphephila* Becker.**P. similis** Coquillett.

N. H.—Hampton, Apr. 14 and June 26 (Shaw).

MASS.—Beverly, Apr. 20 (E. Burgess).

*Acanthocnema* Becker.**A. albibarba** (Loew).

N. H.—White Mts. (Osten Sacken).

**A. nigrimana** Zetterstedt.

N. H.—White Mts. (U. S. Nat. Mus.).

*Microprosopa* Becker.**M. flavinervis** Malloch, 24-193.

MASS.—Auburndale, May 22.

**M. volucricaput** (Walker).N. H.—Mt. Washington (Mrs. Slosson); Mt. Washington,  
"Alpine Garden," 5000 ft., July 4, 1914.**M. haemorrhoidalis** Meigen.

N. H.—"White Mts." (Osten Sacken).

*Trichopalpus* Rondani.**T. punctipes** (Meigen) (*Chaetosa punctipes* (Meigen) Coquillett).

ME.—Monmouth, July 19, 1904 (Frost).

**T. palpalis** (Coquillett) (*Opsiomyia palpalis* Coquillett).

ME.—Mt. Desert, July 29. N. H.—White Mts. VT.—Bennington, June 24.

*Plethochaeta* Coquillett.*P. atrifrons* Coquillett, 10-44.N. H.—*White Mts.**Scatophaga* Meigen.*S. stercoraria* (Linné).

ME.—4, 6, 7, 8, 10. N. H.—11, 15. VT.—11, 20, 21. May 27—July 19.

MASS.—23, 24, 25, 26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—34, 35. May 3—Oct. 19.

*S. merdaria* (Fabricius).

ME.—3, 6, 8. N. H.—11, 15. VT.—16, 17, 21. June 27—Aug. 2.

MASS.—23, 25, 26, 27, 29, 30, 32. R. I.—33. CONN.—35. Apr. 27—Oct. 11.

*S. litorea* (Fallen) (*S. intermedia* Walker).

ME.—7, 8. N. H.—15. June 5—Sept. 12.

MASS.—26, 28, 29, 31. May 21—June 29.

*S. furcata* Say (*S. bicolor* Walker).

ME.—3, 8. N. H.—11, 15. VT.—21. June 8—Aug. 24.

MASS.—25, 26, 27, 29, 32. R. I.—33. CONN.—35. May 21—June 29.

*S. canadensis* Walker.

N. H.—11, 14. June 7—July 4.

MASS.—23, 25, 26, 27, 32. Apr. 29—Oct. 30.

*S. monticola* Malloch, 24-195.N. H.—Mt. Washington (*Mrs. Slosson*); Hermit Lake, Mt. Washington, July 8 (*C. W. J.*).*S. suilla* (Fabricius).

ME.—1, 4, 8. N. H.—11, 14. VT.—18, 19, 21. June 5—Aug. 19.

MASS.—23, 25. June 5—15.

*S. nigrolimbata* Cresson, 18-134.

N. H.—Mt. Washington, July 8; Jaffrey, June 23. VT.—Mt. Equinox, June 5.

MASS.—Mt. Greylock, June 15.

*S. lutaria* (Fallen).

ME.—8. N. H.—15. VT.—21. June 5—July 25.

MASS.—23. June 15—Aug. 5.

*Ceratinostoma* Mead.*C. ostiorum* (Haliday) (*S. oceana* Macquart, see Johnson, 10-232).

ME.—7, 8, 10. N. H.—15. May 24—July 27.

MASS.—26, 28. May 30—Sept. 9.

## Eugenacephala Johnson, 22-22.

**E. salsa** Johnson, 22-22.ME.—“Narrows,” Mt. Desert, Aug. 13. N. H.—Hampton Beach, May 3, 1904 (*C. E. White, Jr.*).MASS.—Essex, May 7, 1920 (*Fuller*); Cohasset, May 16, 1904 (*Bryant*).

## Gimnomera Rondani.

**G. tarsea** Fallen.

N. H.—White Mts. (U. S. Nat. Mus.).

## Hydromyza Fallen.

**H. confluens** Loew.ME.—Monmouth, June 21 (*Frost*); Mt. Desert, July 27, on lily pads.CONN.—Goshen, July 4 (*Zappe*).

## HELOMYZIDAE.

## Porsenus Darlington, 08-69.

**P. johnsoni** Darlington, 08-71.

MASS.—Boston, Oct. 19.

## Tephrochlamys Loew.

**T. canescens** Meigen (*T. rufiventris* Meigen).

ME.—6, 8, 9. N. H.—11, 14, 15. VT.—Mar. 11-Aug. 20.

MASS.—24, 27, 30, 32. R. I.—33. CONN.—35. Mar. 25-Oct. 14.

**T. flavitarsis** Darlington, 08-71.N. H.—“White Mts.” (*Morrison*), U. S. Nat. Mus.Suillia R.-Desvoidy (*Holomyza* Fallen 1820, not 1810.)**S. apicalis** Loew.

ME.—4, 7, 8. N. H.—11. July 15-25.

MASS.—23. Aug. 8.

**S. longipennis** Loew.

ME.—1, 4, 6, 7, 8, 9. N. H.—11, 12, 13, 15. VT.—16, 18. June 24-Sept. 10.

MASS.—23, 26. R. I.—33. June 15-22.

**S. plumata** Loew.

ME.—4, 8. N. H.—12, 15. VT.—16, 18, 22. June 27-July 20.

MASS.—23, 27. CONN.—35. June 17-Aug. 23.

**S. quinquepunctata** Say (*H. latericia* Loew).ME.—Ft. Kent, Aug. 7. N. H.—Mt. Washington (*Mrs. Slosson*); Hampton, Oct. 13 (*Shaw*). VT.—Burlington, June 23.

CONN.—Rowayton, June 16.

**S. zetterstedti** Loew.

N. H.—Mt. Washington.

*Allophyla* Loew.*A. laevis* Loew.

ME.—1, 4, 7, 8, 10. N. H.—11, 13. Vt.—16, 17, 18, 19. June 11—Sept. 19.

MASS.—23. June 15—Aug. 25.

*Oecothea* Haliday.*O. fenestralis* Fallen.MASS.—New Bedford, Apr. 13, 1896 (*Hough*). CONN.—New Haven, June 23, 1916 (*Zappe*).*Anorostoma* Loew.*A. marginata* Loew.N. H.—Hampton, June 12—July 4 (*Shaw*).

MASS.—26, 28, 29, 30, 32. May 30—June 20.

*Scoliocentra* Loew.*S. fraterna* Loew.N. H.—Mt. Washington (*Mrs. Slosson*).*S. helvola* Loew.

ME.—7, 8. N. H.—11. Vt.—16, 17, 20. June 14—Aug. 30.

MASS.—23, 27. May 27—Aug. 5.

*S. tincta* Walker (*Leria pubescens* Loew; *Achaetomus pilosus* Coquillett).

ME.—Orono, June 19, 1905. N. H.—Glen House, Aug. 17.

MASS.—Winchendon, Apr. 29; Brookline, Apr. 22.

*Chaetomus* Czerny, 1924.*C. flavotestaceus* (Zetterstedt) (*Leria biseta* Loew).N. H.—Mt. Washington (*Mrs. Slosson*). Vt.—St. Johnsbury, June 26.*Neoleria* Malloch, 1919.*N. discolor* Loew.ME.—Ft. Kent, Aug. 17. N. H.—Mt. Washington (*Mrs. Slosson*); Bretton Woods, June 22. Vt.—Bolton Mt., Aug. 30.*N. leucostoma* Loew.

ME.—1, 8. N. H.—11, 13, 15. Vt.—17, 21. June 5—Sept. 11. MASS.—23. May 27, 1912.

*Helomyza* Fallen, 1810 (*Leria* of authors, in part).*H. serrata* (Linné).

N. H.—Mt. Washington.

MASS.—Cambridge, Apr. 21.

*Morpholeria* Garrett, 21—27.*M. tristis* (Loew).ME.—Waterville, May 11, 1906 (*Hitchings*).CONN.—South Meriden, Feb. 20, 1915 (*H. L. Johnson*).

*Pseudoleria* Garrett, 21-128.**P. pectinata** Loew.

ME.—Bridgton, June 15. N. H.—Hampton, July 3 (*Shaw*).  
 MASS.—Boston, May 27—Sept. 27; Cohasset, June 5. R. I.—  
 Providence, June 21.

## CLUSIIDAE.

*Acartophthalmus* Czerny.**A. nigrinus** Czerny.MASS.—Petersham (*Melander*, 24-5).**A. bicolor** Olderberg.

MASS.—Woods Hole, July 23, 1903.

*Clusia* Haliday.**C. czernyi** Johnson, 13-100.

ME.—7, 8. N. H.—11, 14, 15. Vt.—21. June 5-Aug. 15.  
 MASS.—Chester, May 21, 1912.

**C. lateralis** Walker.

ME.—7, 8, 9. N. H.—11, 12, 15. Vt.—16, 17, 18. June 20—  
 July 15.  
 MASS.—23, 26, 27, 29. R. I.—33. CONN.—35. June 19—  
 Aug. 23.

*Clusiodes* Coquillett, 04-93 (*Heteroneura* Fallen, 1823, not 1810).Subgenus *Clusiodes* Coquillett.**C. albimana** Meigen.

Vt.—St. Johnsbury, June 28, 1906.

**C. americana** Malloch, 22-48.

ME.—Mt. Desert, July 25, 1919; Bayville, July 25, 1916 (*G. M. Allen*). N. H.—Intervale, Aug. 23 (*Allen*). Vt.—Mt. Ascutney, July 11.

Subgenus *Clusiaria* Malloch, 22-47.**C. atra** Melander and Argo, 24-18.MASS.—Greenfield, June 1, 1914 (*Melander*).**C. geomyzina** (Fallen).

ME.—Machias, July 17, 1909. N. H.—Bretton Woods, June 28, 1913.

**C. melanostoma** (Loew).

ME.—7, 8. N. H.—11, 12. Vt.—20. June 19-July 25.  
 MASS.—23, 25, 27. May 22-June 15.

**C. orbitalis** Malloch, 22-50.ME.—*Bar Harbor*, June 13, 1921.**C. pictipes** (Zetterstedt).N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

**C. terminalis** Melander and Argo, 24–20 (*C. apicalis* Malloch, 18–06, and 22–48, not Zetterstedt, 1848).

N. H.—“White Mts.” (*Morrison*); Bretton Woods, June 25, 1913.

Subgenus *Columbiella* Malloch, 22–47.

**C. apiculata** Malloch, 22–49.

N. H.—*Milford*, June 23, 1914. Vt.—Manchester, June 4, 1910.

**C. johnsoni** Malloch, 22–49.

ME.—*Mt. Desert*, July 12, 1918; Capens, July 14. Vt.—Burlington, June 23, 1906.

MASS.—Washington, Aug. 8, 1912.

**C. nigripalpis** Malloch, 22–49.

ME.—4. N. H.—11, 14. Vt.—16. June 10–July 26.

MASS.—23. June 27–Aug. 8.

Heteromeringia Czerny, 03–72.

**H. nitida** Johnson, 13–99.

MASS.—Boston, Aug. 2, 1922.

Sobarocephala Czerny, 03–85.

**S. convergens** (Malloch), 22–50.

N. H.—White Mts.; Hampton, June 4 (*Shaw*).

**S. flaviseta** (Johnson), 13–99.

MASS.—Boston, July 30, 1917.

**S. latifrons** (Loew).

MASS.—Chester, Aug. 7; Weston, July 23; Auburndale, Aug. 9; Brookline, July 4.

#### BORBORIDAE.

*Sphaerocera* Latreille.

**S. annulicornis** Malloch, 13–363.

MASS.—Brookline, Mar. 20, 1874; Woods Hole, Aug.–Sept. (*Sturtevant*).

**S. pusilla** Fallen.

ME.—9. N. H.—11, 15. Apr. 6–June 17.

MASS.—23, 26, 27. May 2–27.

**S. subsultans** (Fabricius).

ME.—10. N. H.—11, 14, 15. Vt.—21. May 16–June 20.

MASS.—23, 29, 32. R. I.—33. CONN.—35. Mar. 26–Sept. 9.

*Leptocera* Olivier.

Subgenus *Collinella* Duda.

**L. atra** Adams (*L. setifer* Adams).

MASS.—Beverly (*Burgess*); Horse Neck Beach (*Hough*); Woods Hole (*Melander*).

**L. frosti** Johnson, 15-21.

MASS.—Framingham, Oct. 19, 1913 (*Frost*); Tyngsboro, Sept. 29 (*Fall*); Beverly; Lexington.

**L. limosa** Fallen.

N. H.—.

MASS.—Danvers, Sept. 23; Brookline, Sept. 29. CONN.—.

**L. lutosa** Sténhammer.

ME.—1, 8. N. H.—11, 15. VT.—16. Apr. 3-Aug. 17.

MASS.—26, 27, 32. May 5-Sept. 22.

Subgenus *Leptocera* Latreille.

**L. fontinalis** (Fallen).

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Forest Hills, Boston, Sept. 27; Tyngsboro, July 3 (*Fall*).

CONN.—New Haven, June 22.

**L. hoplites** Spuler, 24-115.

VT.—Lyndon (*Melander*).

Subgenus *Scotophilella* Duda.

**L. carinata** Spuler.

ME.—8. N. H.—15. Jan. 2-Aug. 15.

MASS.—26, 27. CONN.—35. May 23-Oct. 16.

**L. crassimana** Haliday.

VT.—Manchester, June 7, 1910; Dummerston, July 14.

MASS.—Boston, June 5; Edgartown, June 28; Brookline, Aug. 23.

**L. palliceps** Johnson, 15-22.

MASS.—Sherborn, Apr. 10, 1921, and Oct. 21, 1923 (*Frost*).

Subgenus *Coprophila* Duda.

**L. ferruginata** Stenhammar.

ME.—Wales, July 5 (*Frost*).

MASS.—Auburndale, June 22, 1905; Brookline, Sept. 29. CONN.—

Yalesville, Oct. 19 (*Viereck*).

*Borborus* Meigen.

Subgenus *Borborus* Meighen.

**B. equinus** (Fallen).

ME.—6, 8. N. H.—11, 12, 15. VT.—18, 20, 21. Apr. 11—Sept. 27.

MASS.—23, 24, 26, 27, 29, 31, 32. R. I.—33. CONN.—35. Apr. 7-Oct. 19.

**B. neglectus** Malloch, 13-364.

N. H.—Hampton, Apr. 5, 1910 (*Shaw*).

MASS.—Beverly, Apr. 4, 1867 (*Burgess*); Cohasset, Nov. 29 (*Bryant*).

Subgenus *Borborillus* Duda, 23-54.

**B. marmoratus** Becker, 08-133 (*B. brevisetus* Malloch, 13-365; *B. minutus* Johnson, 13-449).

MASS.—Horse Neck Beach, Aug. 8, 1896 (*Hough*); Gloucester.

May 20; Woods Hole, June (*Sturtevant*). CONN.—Stamford, May 18, 1919 (*Sturtevant*).

Subgenus *Cruomyia* Macquart.

**B. immensa** Spuler.

N. H.—Hampton, Mar. 3, 1904 (*Shaw*).

MASS.—Arlington, Jan. 19 and Apr. 5 (*P. J. Darlington*).

Scatophora R.-Desvoidy.

**S. carolinensis** R.-Desvoidy (*Olina geniculata* Macquart, see Spuler, 23-378).

ME.— N. H.—11, 15. VT.—16, 18, 19, 21. June 13-Aug. 15.

MASS.—23, 24, 26, 27, 29, 31, 32. May 1-June 10.

#### PHYCODROMIDAE.

Coelopa Meigen.

**C. frigida** Fallen. The Flat Kelp Fly.

ME.—10. N. H.—15. Apr. 8-July 24.

MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—33. Apr. 6-Nov. 22.

**C. parvula** Haliday.

ME.—10. N. H.—15. June 5-July 25.

MASS.—26, 27, 28, 31, 32. R. I.—33. May 15-Oct. 13.

#### SCIOMYZIDAE.

Neuroctena Rondani.

**N. anilis** (Fallen).

ME.—5, 7, 8, 9. N. H.—11, 14, 15. VT.—16, 17, 18, 20, 21, 22. June 18-July 15.

MASS.—23, 27, 28. R. I.—33. CONN.—35. June 19-Sept. 4.

**N. simplex** (Loew).

ME.—8. N. H.—11, 14. VT.—20, 22. June 26-July 30.

MASS.—23, 25. May 28-Aug. 25.

Dryomyza Fallen.

**D. dayi** Cresson, 20-34.

ME.—5, 8. N. H.—11, 12. VT.—20. June 24-July 28.

MASS.—23, 27. June 15-Aug. 5.

**D. ferruginea** Melander, 20-311.

ME.—Bar Harbor, June 13. N. H.—Bretton Woods, June 24.

VT.—Lyndon, Aug. 22, 1900 (Melander).

*Oidematops* Cresson.**O. ferruginea** Cresson, 20-36.VT.—*Manchester*, June 5-8, 1910.MASS.—*Sunderland*, May 30, 1923.*Sciomyza* Fallen.**S. aristalis** (Coquillett).

ME.—8. N. H.—11. VT.—20, 21. June 19-July 22.

MASS.—23, 24, 27. May 30-June 15.

*Pteromicra* Lioy (*Dichrochira* Hendel).**P. albicalceata** (Cresson), 20-39.

ME.—7. N. H.—15. July 12-Aug. 1.

MASS.—26, 27. CONN.—35. May 30-Sept. 4.

**P. apicata** (Loew).MASS.—*Beverly*, June 20 (*E. Burgess*).*Atrichomelina* Cresson.**A. pubera** (Loew).

ME.—8, 9. N. H.—11, 12, 15. VT.—16. May 16-July 7.

MASS.—23, 27. CONN.—35. Aug. 4-Sept. 30.

*Pherbellia* R.-Desvoidy (*Melina* R.-Desvoidy, 1830, not Retzius, 1788).**P. albocostata** (Fallen).

ME.—2, 3, 4. N. H.—11, 12. VT.—. June 17-Aug. 16.

**P. fuscipes** (Macquart) (*Melina spadix* and *M. fusca* Cresson, 20-43).N. H.—*Hampton*, May 24 (*Shaw*).MASS.—*Auburndale*, June 23; *Boston*, Aug. 28; *Chester*, Aug. 7; *Dedham*, May 20.**P. obtusa** (Fallen).MASS.—*New Bedford* (*Hough*); *Brookline*, Aug. 26, 1924 (*C. W. J.*).**P. tenuipes** (Loew).ME.—*Machias*, July 20; *Mt. Desert*, June 10-20. VT.—*Bolton Mt.*, July 16 (*Bryant*).MASS.—*New Bedford* (*Hough*).**P. vitalis** (Cresson), 20-43 (*M. annulipes* var. *vitalis* (Cresson); *Melander*, 20-315).ME.—*Capens*, July 11; *Mt. Desert*, July 11. N. H.—*Hampton*, May 1 (*Shaw*).MASS.—*Woods Hole*, July 25, 1903; *Edgartown*, June 29, 1912.**P. albovaria** (Coquillett), 01-616.ME.—*Mt. Desert*, Aug. 18. N. H.—*Mt. Washington* (*Mrs. Stlosion*); *Glen House*, July 20; *Hanover*, July 6. VT.—*Stratton*, July 8.

**P. nana** (Fallen).

ME.—4, 8. N. H.—11, 15. May 7—July.

MASS.—27, 30, 32. R. I.—33. CONN.—35. June 15—Nov. 4.

**P. schoenherri** (Fallen) (*Melina (Graphomyzina) maculata* Cresson, 20—48).ME.—Bowlin Pond, Penobscot Co., July 31 (*Cushman*). N. H.—Hampton, Apr. 11 (*Shaw*). VT.—Rutland, Aug. 28.**P. grisescens** (Meigen).

ME.—Bar Harbor, Aug. 10; Narrows, Mt. Desert, Sept. 12.

**Hemitelopteryx** Cresson.**H. johnsoni** Cresson, 02—51.N. H.—Franconia (*Mrs. Slosson*).

MASS.—Briggsville; North Adams, June 18, 1906.

**Antichaeta** Haliday.**A. analis** Meigen.MASS.—(*Melander*).**Renocera** Hendel.**R. longipes** (Loew).

ME.—Capens, July 11; Princeton, July 12. N. H.—White Mts.

**R. johnsoni** Cresson, 20—53.ME.—*Fort Kent*, Aug. 17, 1910.**R. amanda** Cresson, 20—53.

ME.—Machias, July 28; Bridgton, June 25. N. H.—Bretton Woods, June 24; Jaffrey, June 4.

MASS.—North Adams, June 18; Great Barrington, June 16.

**Poecilographa** Melander, 13—205.**P. decora** (Loew).ME.—N. H.—Hampton, July 15 (*Shaw*). VT.—Newport, July 12.

MASS.—Cheshire, June 30; Washington, Aug. 8. R. I.—Buttonwoods, June 22.

**Dictyomyia** Cresson, 20—82.**D. ambigua** (Loew).

ME.—1, 2, 4, 6. N. H.—13, 15. Aug. 13—Sept. 6.

MASS.—23, 27. CONN.—34. June 8—Sept. 9.

**Euthycera** Latreille.**E. arcuata** (Loew).ME.—Ashland Junction, Aug. 16; Capens, July 17. N. H.—Dublin, May (*Harris Coll.*).

MASS.—Chester, Aug. 5. CONN.—Rowayton, June 16.

**E. arcuata** var. **uniformis** Cresson, 20-74 (*Tetanocera flavescens* Loew, 1847, not R.-Desvoidy, 1830).

N. H.—Franconia; Bretton Woods, June 24.

MASS.—Mt. Greylock, Aug. 8; Bashbish Falls, June 27; Lexington, July 5.

**E. borealis** Cresson, 20-74.

ME.—*Capens*, July 21; Mt. Katahdin, Aug. 28, 2400 ft. (*Blake*); Oquossoc, July 1. N. H.—Bretton Woods, June 25; Mt. Washington, 2000 to 4000 ft., July 6-24.

MASS.—North Adams, June 18.

Trypetoptera Hendel.

**T. canadensis** (Macquart) (*T. pallida* Loew).

ME.—8, 9. N. H.—11, 12, 15. VT.—20, 22. June 27-July 18.

MASS.—23, 27. R. I.—33. CONN.—35. June 21-Aug. 14.

Hoplodictya Cresson, 20-67.

**H. setosa** (Coquillett).

ME.—7, 8. N. H.—15. July 27-Aug. 13.

MASS.—26, 27, 28, 31, 32. CONN.—35. June 28-Sept. 8.

Dictya Meigen (*Monochaetophora* Hendel).

**D. umbrarum** (Linné).

ME.—4, 6, 7, 8, 9. N. H.—11, 14, 15. VT.—16, 17, 19. June 8-Aug. 28.

MASS.—23, 24, 26, 28, 29, 30, 32. CONN.—35. Apr. 24-Oct. 21.

Limnia R.-Desvoidy.

**L. boscii** R.-Desvoidy (*T. combinata* Loew).

ME.—4, 6, 7, 8, 9. N. H.—13, 15. VT.—16, 18. June 21-Sept. 8.

MASS.—25, 29, 32. CONN.—34, 35. June 6-July 30.

**L. boscii** var. **sparsa** (Loew).

ME.—4, 7, 8. N. H.—11, 15. VT.—16, 20. June 19-Sept. 3.

MASS.—23. R. I.—33. June 19-Aug. 8.

**L. costalis** (Loew).

ME.—Mt. Desert, July 18. N. H.—Mt. Washington (*Mrs. Slosson*).

**L. saratogensis** (Fitch).

ME.—1, 4, 6, 7, 8, 9. N. H.—11, 12, 14, 15. VT.—19, 20. June 27-Aug. 28.

MASS.—23, 25, 26, 27, 28, 29, 31, 32. CONN.—34, 35. May 27-Aug. 30.

**L. saratogensis** var. **ottawensis** Melander, 20-324.

ME.—Mt. Desert, July 18, 1919.

**Tetanocera** Dumeril (*Chaetomacera* Cresson, 20-54).

**T. clara** Loew.

ME.—7, 8. N. H.—11, 15. VT.—22. June 25—Aug. 10.  
MASS.—23, 24, 25, 27, 28, 29. CONN.—June 28—Aug. 5.

**T. valida** Loew.

ME.—1, 3, 4, 5, 7, 8, 9. N. H.—11, 12, 14. VT.—18, 22. June 28—Aug. 19.  
MASS.—23, 24, 25, 26, 27, 29, 31. R. I.—33. CONN.—35. June 17—Aug. 27.

**T. vicina** Macquart (*T. plumosa* Loew).

ME.—1, 3, 4, 6, 7, 8. N. H.—11, 13, 14. VT.—16, 18, 19, 21. June 22—Aug. 28.  
MASS.—23, 24, 25, 26, 27, 28. R. I.—33. CONN.—35. June 8—Sept. 10.

**T. triangularis** Loew.

ME.—8, 9. N. H.—11. VT.—16, 19. June 22—Aug. 28.  
MASS.—27. CONN.—35. June 17—Sept. 4.

**T. plebeia** Loew.

ME.—4, 5, 6, 7, 8, 9. N. H.—11, 12, 14, 15. VT.—16, 18, 20, 21, 22. June 7—July 19.  
MASS.—23, 25, 26, 27, 28, 29. R. I.—33. CONN.—34, 35. May 28—Aug. 4.

**T. elata** (Fabricius).

ME.—4, 7, 8. N. H.—11. VT.—16, 20. June 22—July 27.  
MASS.—23, 27. R. I.—33. CONN.—June 8—23.

**T. rotundicornis** Loew.

ME.—. N. H.—Mt. Washington (*Mrs. Slosson*); Glen House, July 8. VT.—Jay Peak, 4018 ft., July 14, 1891 (*Morse*).

**T. unicolor** Loew.

ME.—Ft. Kent, Aug. 17; Machias, July 20; Mt. Desert, July 15—Aug. 10.

*Hedroneura* Hendel.

**H. rufa** (Panzer) (*T. lineata* Day, not Fallen).

MASS.—Mt. Greylock, June 8; Brookline, Aug. 23. CONN.—Cornwall, Aug. 10; New Haven, Oct. 21.

*Elgiva* Meigen.

**E. lineata** (Fallen).

ME.—Katahdin Ironworks, Aug. 20, 1905 (*F. M. Jones*); Salisbury Cove, Mt. Desert, July 8, 1920 (*Sanford*).  
MASS.—Essex Co., Sept. 29 (*Morse*).

*Sepedon* Latreille.

**S. armipes** Loew.

ME.—1. N. H.—11, 15. VT.—16, 21. June 5—Aug. 19.  
MASS.—24, 26, 27, 28. CONN.—35. May 30—Sept. 23.

**S. pusillus** Loew.

ME.—1, 3, 4, 6, 8. N. H.—11, 13, 15. VT.—21. June 5—Sept. 8.

MASS.—23, 24, 25, 27, 28, 32. R. I.—33. CONN.—34, 35. May 13—Sept. 16.

**S. fuscipennis** Loew.

ME.—6. N. H.—13, 15. VT.—19. July 14—Sept. 5.

MASS.—25, 26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. June 6—Sept. 20.

## SAPROMYZIDAE.

## Lauxania Latreille.

**L. cylindricornis** (Fabricius).

ME.—3, 5, 7, 8, 9. N. H.—11, 12, 14, 15. VT.—17, 20, 21. May 21—July 24.

MASS.—23, 25, 26, 27, 32. R. I.—33. CONN.—35. May 18—June 28.

## Camptoprosopella Hendel.

**C. vulgaris** (Fitch).

N. H.—12, 15. VT.—22. July 6—Aug. 1.

MASS.—23, 27, 28, 29. R. I.—33. CONN.—35. June 26—Aug. 9.

## Deceia Malloch, 23—49.

Subgenus *Melanomyza* Malloch, 23—50.**D. gracilipes** (Loew).

N. H.—11, 12. VT.—16, 22. July 8—14.

MASS.—23, 24, 26, 27, 29, 32. R. I.—33. CONN.—35. July 4—Sept. 4.

**D. intermedia** Malloch, 23—50 and 24—13.

MASS.—Blue Hill, Milton, July 16, 1905.

## Caliope Haliday.

**C. flaviceps** (Loew).

MASS.—Fall River, Apr. 13; Melrose Highlands, from a bird nest collected Feb. 25, 1911; flies issued in March (*Smith and Shepherd*).

## Minettia R.-Desvoidy.

**M. valida** (Walker) (*M. macula* Loew).

MASS.—Scituate, May 15; Barnstable, July 5; Edgartown, June 27; Woods Hole, Aug. R. I.—Buttonwoods, June 15. CONN.—Danbury, June 15.

**M. puncticeps** (Coquillett).

N. H.—Mt. Washington.

**M. cena** Melander, 13—72.

MASS.—New Bedford (*Hough*); Mt. Everett, June 28; Mt. Wachusett, May 30; Rutland, June 5.

*M. lupulina* (Fabricius).

ME.—1, 2, 4, 5, 6, 7, 8, 9, 10. N. H.—11, 12, 14, 15. VT.—16, 19, 21. June 5—Aug. 19.

MASS.—23, 26, 27, 28, 29, 32. R. I.—33. CONN.—35. May 27—Aug. 2.

*M. americana* Malloch (*M. longipennis* of authors, not Fabricius).

ME.—8. N. H.—11, 12, 14. VT.—20, 21. June 5—July 8.

MASS.—23, 25, 26, 27, 29. CONN.—35. May 17—July 10.

*M. obscura* (Loew).

ME.—7, 8. N. H.—11, 12, 14. VT.—16, 18, 21, 22. June 5—July 13.

MASS.—23, 25, 26, 27, 29, 32. R. I.—33. CONN.—35. May 17—July 13.

*Sapromyza* Fallen.*S. annulata* (Melander), 13—72.

ME.—1, 4, 7, 8. N. H.—11, 12, 14. VT.—16, 17, 20, 21. June 5—Aug. 19.

MASS.—23, 26, 27, 28. CONN.—35. June 10—Aug. 23.

*S. quadrilineata* Loew.

ME.—3, 8. N. H.—11, 12, 14, 15. VT.—20, 21. June 6—Aug. 24.

MASS.—23, 27, 28, 29. R. I.—33. CONN.—35. June 5—Aug. 10.

*S. obtusilamellata* Malloch, 23—52.

ME.—4, 8. N. H.—11, 14. VT.—20, 21. June 18—July 19.

MASS.—23, 25, 28. June 5—July 16.

*S. serrata* Malloch, 23—52.

ME.—Bar Harbor, June 11. N. H.—Mt. Washington, July 4.

VT.—Norwich, July 7; Manchester, June 5.

MASS.—North Adams, July 7.

*S. brachysoma* Coquillett.

ME.—4, 8. N. H.—11, 14. VT.—17, 20, 21. June 5—July 28.

MASS.—23, 26, 27, 28. CONN.—35. May 19—Aug. 23.

*S. rotundicornis* Loew.

ME.—4, 5, 7, 8. N. H.—11, 14, 15. VT.—21. June 5—July 22.

MASS.—23. June 15—Aug. 5.

*S. umbrosa* Loew.

MASS.—27, 29, 32. R. I.—33. CONN.—35. June 19—July 29.

*Sapromyzosoma* Malloch, 23—51.*S. fraterna* (Loew).

ME.—1, 7, 8. N. H.—11, 13. VT.—16, 20. June 24—Sept. 10.

MASS.—23, 27. R. I.—33. CONN.—35. July 4—Aug. 5.

- S. deceptor** Malloch, 24-24.  
ME.—Mt. Desert, July 12-16. N. H.—White Mts. (*Morrison*);  
Bretton Woods, June 27.  
MASS.—North Adams, June 15-19.
- S. philadelphica** (Macquart).  
ME.—7, 8. N. H.—11, 12, 13, 15. VT.—19, 20, 22. June 5—  
Sept. 13.  
MASS.—23, 27, 28. CONN.—35. June 19-Oct. 16.
- S. disjuncta** (Johnson), 14-22.  
ME.—8. N. H.—11. June 3-17.  
MASS.—24, 25, 27, 29. R. I.—33. CONN.—35. May 27-Sept. 22.
- S. conjuncta** (Johnson), 14-22.  
VT.—Amsden, July 10.  
MASS.—Auburndale, Aug. 2; Blue Hill, May 30; Manomet, July  
27. R. I.—Buttonwoods, June 18.
- S. compedita** (Loew).  
ME.—6, 8, 10. N. H.—11, 13, 14. VT.—20. June 17-Sept. 10.  
MASS.—23, 24, 25, 26, 27, 29, 32. R. I.—33. CONN.—35.  
May 30-July 23.
- S. ornatipes** (Johnson), 14-20.  
MASS.—Mt. Everett and Bashbish Falls, June 28, 1912.
- S. melanderi** (Johnson), 14-21.  
MASS.—Provincetown, June 24; Eastham, June 27; Barnstable,  
July, 1904; Nantucket, July 5 (*Cushman*), Aug. 15 (*Fernald*).
- S. sheldoni** (Coquillett).  
ME.—Ft. Kent, Aug. 19; Mt. Katahdin, Aug. 30 (*Blake*); Orono,  
Aug. 5 (*Alexander*); Mt. Desert, July 30.  
MASS.—Wellesley, July 11 (*Van Duzee*).
- S. houghii** (Coquillett).  
MASS.—27, 29, 30, 31, 32. R. I.—33. CONN.—35. June 12—  
Aug. 3.
- S. incerta** (Malloch), 14-36.  
MASS.—Manomet, July 27, 1905.
- S. citreifrons** (Malloch), 20-127.  
ME.—Bar Harbor, June 13. N. H.—Bretton Woods, June 28;  
Glen House, June 15.  
MASS.—Mt. Everett, June 28; Auburndale, June 17.
- S. bispina** (Loew).  
ME.—1. Aug. 17.  
MASS.—29. R. I.—33. CONN.—35. June 2-28.
- S. tenuispina** (Loew).  
N. H.—Hampton, July 1 (*Shaw*).  
MASS.—Eastham, June 27; Horse Neck Beach, July 30. R. I.—  
Buttonwoods, June 18.

**S. imitatrix** (Malloch), 20–128.

CONN.—Darien, May 27.

**S. littoralis** (Malloch), 15–47.

VT.—Winooski River, Burlington (*Dr. Perkins*).

**S. aequalis** (Malloch), 14–26.

VT.—Norwich, July 7, 1908.

*Sphyroperiscelis* Sturtevant, 23–1.

**S. wheeleri** Sturtevant, 23–2.

MASS.—*Naushon Island*, July 10 and 16 (*Sturtevant*).

#### LONCHAEIDAE.

*Lonchaea* Fallen.

**L. polita** Say.

ME.—8, 10. N. H.—11, 15. VT.—16. Apr. 30–Aug. 20.

MASS.—23, 26, 27, 29. R. I.—33. CONN.—35. May 26–Oct. 16.

**L. affinis** Malloch, 20–130.

ME.—1, 6, 8. N. H.—*Mt. Washington*, 5000 ft., July 4, 1914.  
June 10–Aug. 17.

MASS.—23, 26. June 15–Aug. 16.

**L. albiceps** Meigen.

ME.—1, 8. N. H.—12, 15. June 27–Aug. 17.

MASS.—23. June 28–July 25.

**L. angustitarsis** Malloch, 20–131.

ME.—*Echo Lake, Mt. Desert*, July 12.

**L. aterrima** Malloch, 20–129.

ME.—*Orono*, May 19, 1918 (*Parshley*). N. H.—*Mt. Washington*, “Alpine Garden,” July 4; 2500 ft., July 6, 1914.

**L. hirta** Malloch, 20–129.

N. H.—Bretton Woods, June 26.

MASS.—*North Adams (Briggsville)*, July 18.

**L. nigrociliata** Malloch, 20–131.

ME.—*Southwest Harbor*, July 11.

**L. laticornis** Meigen.

ME.—*Bar Harbor*, Aug. 10.

MASS.—*Melrose Highlands*, July 1; *Southbridge*, July 16.

**L. vaginalis** Fallen.

ME.—*Bar Harbor*, June 11.

MASS.—*Chester*, Aug. 5.

**L. marylandica** Malloch, 23–46.

N. H.—*White Mts. (Morrison)*.

## PALLOPTERIDAE.

## Palloptera Fallen.

**P. superba** Loew.

ME.—8. N. H.—11, 12. VT.—19, 22. June 26—Aug. 28.

MASS.—23. Aug. 21.

**P. similis** Johnson, 10—233 and 21—23.

ME.—Fort Kent, Aug. 17. N. H.—Bretton Woods, June 28; Mt. Washington, 2500 ft., July 24.

**P. subarcuata** Johnson, 21—21.ME.—Northeast Harbor, July 1 (*Dr. C. S. Minot*); Bar Harbor, Aug. 10. N. H.—Base Station, Aug. 15; Mt. Washington, as *P. arcuata* (*Mrs. Slosson*).

## ORTALIDAE.

## Amphicnephes Loew.

**A. pertusus** Loew.

MASS.—24, 27, 29, 32. R. I.—33. CONN.—35. June 10—July 23.

## Rivellia R.-Desvoidy.

**R. conjuncta** Loew.

MASS.—Manomet, July 27; Barnstable, July 5; Woods Hole, July 25. R. I.—Wickford, June 9. CONN.—New Haven, June 24.

**R. brevifasciata** Johnson.MASS.—Nantucket, Aug. 8; Tuckernuck Island, July 21 (*Allen*).**R. cognata** Cresson, 19—191.

N. H.—Cornish, July 13.

MASS.—Tyngsboro, June 22 (*Fall*); Brookline, July 4. CONN.—Winnipauk, June 12.**R. metallica** Van der Wulp.MASS.—Groton, July 8; Fall River, May 23 (*Easton*). CONN.—New Haven, June 8 (*Britton*).**R. flavimana** Loew.ME.—Kittery, June 5. N. H.—Hanover, July 8. VT.—St. Albans, June 21; Amsden, July 10; Hartland, July 22 (*Whiting*).CONN.—Ridgefield, July 18 (*Lutz*).**R. boscii** R.-Desvoidy.MASS.—Plymouth, July 28; Manomet, July 26; Fall River, Aug. 17 (*Easton*). CONN.—Middletown, June 19; South Meriden, July 10 (*H. L. Johnson*).**R. viridulans** R.-Desvoidy.

ME.—6, 10. N. H.—11, 15. VT.—21. June 18—22.

MASS.—24, 26, 27, 29, 32. R. I.—33. CONN.—35. June 6—Aug. 23.

**R. quadrifasciata** Macquart.

MASS.—Springfield, July 13. R. I.—Buttonwoods, July 25.  
CONN.—New Haven, Aug. 1; Branford, July 5 (*Winkley*).

**R. pallida** Loew.

N. H.—15. Vt.—22. July 14.

MASS.—23, 24, 25, 27. R. I.—33. CONN.—35. June 16—  
Aug. 8

*Myrmecothea* Hendel, 10–310 (*Mymecomys* of authors, not R.-Desvoidy).

**M. myrmecoides** (Loew).

CONN.—.

**Tritoxa** Loew.**T. flexa** Wiedemann.

CONN.—.

**T. incurva** Loew.

CONN.—East Hartford, Aug. 9; South Meriden, July 10 (*H. L. Johnson*).

**Camptoneura** Macquart.**C. picta** (Fabricius).

ME.—9.

MASS.—24, 26, 27, 29. CONN.—35. June 5–Sept. 16.

**Idana** Loew.**I. marginata** Say.

CONN.—.

**Tephronota** Loew.**T. narytia** Walker (*T. ruficeps* Van der Wulp).

ME.—6, 9. N. H.—11. Vt.—16, 21, 22. June 24–July 15.

MASS.—23, 27, 28. CONN.—34, 35. June 11–Aug. 8.

**T. canadensis** Johnson.

ME.—Eastport, July 16. N. H.—. Vt.—St. Albans, June 20;  
Bennington, June 22.

MASS.—Cheshire, June 30.

**Melieria** R.-Desvoidy.**M. similis** Loew.

ME.—3, 9. N. H.—11, 12, 13, 14. July 3–Aug. 28.

MASS.—23, 26, 27, 29, 32. CONN.—34. May 30–Aug. 29.

**Tetanops** Fallen.**T. luridipennis** Loew.

MASS.—West Springfield, Aug. 31. CONN.—New Haven, June  
26–Aug. 6 (*Viereck*); Milford, July 1; South Meriden, June 21  
(*H. L. Johnson*).

**Callopistromyia** Hendel.**C. annulipes** (Macquart).

ME.—6. N. H.—15. Vt.—21. June 19–Sept. 8.

MASS.—26, 27, 28, 29. R. I.—33. CONN.—35. Apr. 15–  
Sept. 18.

*Pseudotephritis* Johnson.**P. corticalis** (Loew).CONN.—Branford, May 3 (*Winkley*).**P. vau** (Say).

ME.—5, 9. N. H.—11, 14, 15. June 16—July 3.

MASS.—24, 25, 27, 28. CONN.—35. May 12—Sept. 7.

**P. vau** var. *approximata* (Banks), 14—138 (*P. metzi* Johnson, 15—49).MASS.—Brookline, Sept. 6, 1920 (*C. E. White, Jr.*).**P. vau** var. *con juncta* Johnson, 21—15.

ME.—Bar Harbor, Aug. 10, 1920.

*Chrysomyza* Fallen.**C. demandata** (Fabricius).MASS.—Melrose Highlands (*Webber*); Peabody, Sept. 12; Wellesley, Oct. 12, 1922 (*Morse*); Medford, July 2 (*Barber*). CONN.—*Psairoptera* Wahlberg.**P. nubecula** (Johnson) (*Chiliza nubecula* Johnson, 21—14).ME.—Northeast Harbor, July 6 (*Dr. C. S. Minot*). VT.—Mt. Ascutney, July 11.*Euxesta* Loew.**E. notata** (Wiedemann).

VT.—16. June 20.

MASS.—27, 29. R. I.—33. CONN.—35. June 1—Oct. 12.

**E. scoriacea** Loew.MASS.—Bourne, June 17; Provincetown, July 8 (*Barber*); Pocasset (Barrett Isl.), Aug. 9, 1912 (*Cushman*).*Chaetopsis* Loew.**C. aenea** (Wiedemann); see Cresson, 13—318.

ME.—7, 8, 10. N. H.—15. June 26—Sept. 8.

MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. June 15—Sept. 4.

**C. apicalis** Johnson.

N. H.—15. May 25.

MASS.—26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35. May 27—Sept. 7

**C. apicalis** var. *duplicata* Johnson, 21—16.ME.—*Machias*, July 17; *Mt. Desert*, June 9—Aug. 13.**C. fulvifrons** (Macquart).

ME.—6, 7, 8. N. H.—11, 12. VT.—21. June 19—Aug. 16.

MASS.—23, 24, 25, 26, 27, 28, 30. R. I.—33. CONN.—35. May 28—July 20.

**C. massyla** (Walker).

ME.—4, 6, 7, 8, 9. VT.—20, 21. June 21—Aug. 15.  
MASS.—29, 30, 32. R. I.—33. May 30—Aug. 8.

**Seioptera** Kirby.**S. vibrans** (Linné).

ME.—2, 4, 6, 7, 8, 9. N. H.—11, 12, 15. VT.—16. June 7—  
July 19.  
MASS.—23, 24, 27. CONN.—35. June 6—Aug. 8.

**S. dubiosa** Johnson, 21—15.

ME.—Northeast Harbor, July 16, 1909 (Dr. C. S. Minot).

**Stenomyia** Loew.**S. nasoni** Cresson, 13—320.

MASS.—Barnstable, July 5, 1904; Tuckernuck Isl., Aug. 6, 1909  
(Cushman). CONN.—Westport, June 24 (Britton); Hamden,  
July 10.

**S. tenuis** Loew.

MASS.—Lexington, June 28; Nantucket, July 4 (Cushman);  
Woburn, July 11. CONN.—West Haven, June 27; North  
Haven, Aug. 3.

*Eumetopiella* Hendel, 07—98 (*Eumetopia* of authors, not Westwood).

**E. rufipes** (Macquart).

MASS.—27, 32. R. I.—33. CONN.—35. June 23—Aug. 29.

## TRYPETIDAE.

**Straussia** R.-Desvoidy.**S. longipennis** (Wiedemann).

ME.—9. N. H.—11, 15. June 25.

MASS.—23, 24, 27, 31. R. I.—33. CONN.—35. May 24—  
July 7.

**S. longipennis** form. **trimaculata** Macquart (*typica* Loew).

MASS.—24, 27, 31. CONN.—35. May 31—July 15.

**S. longipennis** form. **cornigera** Walker (*longitudinalis* Loew).

MASS.—23, 24, 27. CONN.—35. May 21—Aug. 5.

**S. longipennis** form. **confluens** Loew.

CONN.—(Loew).

The larvae of the above species infest the stalks of sunflowers  
and "Jerusalem Artichokes."

**Zonosema** Loew.**Z. electa** (Say).

CONN.—.

**Z. flavonotata** Macquart (*Z. basiolum* Osten Sacken).

ME.—8. N. H.—15. Aug. 16.

MASS.—27, 28, 29. July 14—Aug. 20.

**Trypeta** Meigen, 1803.

(*Forellia* R.-Desvoidy, 1830; *Spilographa* Loew, 1862; *Phorellia* Rondani, 1870).

**P. tortilis** (Coquillett).

N. H.—Bretton Woods, June 28, 1913; "Glen House," July 26, 1915.

**Acidia** R.-Desvoidy.

**A. fratria** (Loew).

N. H.—Vt.—21. June 19.

MASS.—23, 27, 29. CONN.—35. June 2—Aug. 8.

The larvae mine the leaves of parsnips.

**Epochra** Loew.

**E. canadensis** Loew. Currant Fruit-fly.

ME.—Orono; Norway; Waterville; Westbrook, May 29—June 2.

MASS.—

The larvae infest currants and gooseberries.

**Aciura** R.-Desvoidy.

Subgenus *Eucosmoptera* Phillips, 23—131.

**A. nigricornis** Doane.

ME.—8. N. H.—11, 14, 15. Vt.—20. May 24—July 19.

**A. limata** Coquillett.

MASS.—New Bedford (Hough). CONN.—Brookfield, July 27 (Dickerson).

**Stenopa** Loew.

**S. vulnerata** Loew.

N. H.—Franconia (*Mrs. Slosson*); Crawford's, Sept. 28, 1916 (*Parshley*). Vt.—Woodstock, Aug. 13, 1910 (*Morse*).

MASS.—Cohasset, Aug. 19 (*Bryant*). CONN.—South Kent, Aug. 21, 1894 (*Morse*).

**Rhagoletis** Loew.

**R. cingulata** Loew. The Cherry Maggot.

N. H.—Tyngsboro, Aug. 5, 1923 (*Fall*).

MASS.—Boston, June 24—July 2, 1903 (*Parshley*). CONN.—New Haven, Aug. 2 (*Walden*); South Meriden, July 12.

**R. pomonella** Walsh. The Apple Maggot.

ME.—6, 9. N. H.—11, 14. Vt.—July 16—Sept. 7.

MASS.—23, 24, 27, 29, 32. CONN.—35. June 13—Aug. 21.

The larva, popularly known as "Railroad Worm," is injurious to early apples, also infests blueberries and cranberries.

**R. tabellaria** Fitch.

ME.—Orono, July 11, 1907; Houlton, June 28.

**R. fausta** Osten Sacken.

ME.—Orono, June 25. N. H.—Mt. Washington, summit, July 10; Bretton Woods, June 28.

MASS.—Truro.

The larvae infest cherries.

**R. suavis** (Loew).

MASS.—Amherst (*Babb*). CONN.—

The larva lives in the husk of the Black Walnut (*Juglans nigra*).

*Procecidochares* Hendel, 14–91 (*Oedaspis* Loew, in part).

**P. atra** (Loew).

ME.—Machias, July 21. N. H.—Hampton (*Shaw*).

MASS.—Magnolia, Oct. 7, 1911 (*Cora H. Clarke*); Sherborn, July 26 (*C. A. Frost*). CONN.—

**P. polita** (Loew).

MASS.—Southbridge, Aug. 27. R. I.—Kingston, June 17 (*Barlow*). CONN.—New Haven, May 31 (*Britton*).

The larvae form leafy rosette galls on *Solidago altissima*.

**P. setigera** (Coquillett).

MASS.—Avon, June 14. R. I.—Kingston, June 17 (*Barlow*); Bristol.

**P. penelope** (Osten Sacken).

MASS.—Chester, Aug. 4, and Westfield, Aug. 7, 1911.

*Terellia* R.-Desvoidy (*Trypetia* of authors, not Meigen).

**T. palposa** (Loew).

ME.—3, 5. July 8–Aug. 1.

MASS.—26, 29, 30, 31. R. I.—33. June 15–July 8.

The larva lives in the flower buds of the Pasture Thistle (*Cirsium pumilum*).

**T. florescentiae** (Linné).

ME.—2, 3, 4, 8, 10. VT.—16, 17, 18. July 8–Aug. 16.

MASS.—23, 26, 27. July 11–Aug. 8.

The larvae live in the flower buds of the Canada Thistle (*Cirsium arvense*).

**T. vernoniae** (Loew).

MASS.—Westport Factory, July 31, 1913, on the flower buds of the Ironweed (*Vernonia noveboracensis*).

*Neaspilota* Osten Sacken.

**N. alba** (Loew).

MASS.—Westport Factory, July 31. R. I.—Buttonwoods, June 15.

The larvae live in the flower buds of Ironweed.

**N. albipennis** (Loew).MASS.—Westport Factory, July 31; Swansea, Aug. 19 (*Easton*).CONN.—New Haven, Aug. 15 (*B. H. Walden*).

The larvae live in the flower buds of Ironweed.

**N. achilleae** Johnson.MASS.—Manomet, July 27; Edgartown, Aug. 22; Tisbury, July 31 (*Cushman*); Waquoit, Sept. 21 (*Bryant*).Frequenting the flowers of Yarrow or Milfoil (*Achillea millefolium*).**Xanthomyia** Phillips, 23-140.**X. platyptera** (Loew).VT.—Woodstock (*A. P. Morse*).CONN.—Kent, Aug. 31 (*A. P. Morse*); South Meriden, June 8 (*H. L. Johnson*); East Hartford, Aug. 9 (*P. L. Butrick*).**Eutreta** Loew.**E. sparsa** (Wiedemann).

ME.—3, 6, 7, 8, 9, 10. N. H.—11, 12, 13, 14, 15. VT.—17, 20, 22. July 7—Sept. 6.

MASS.—23, 24, 27, 32. R. I.—33. CONN.—34, 35. July 6—Sept. 22.

The larvae form root galls on Goldenrod.

**Eurosta** Loew.**E. solidaginis** (Fitch).

ME.—6, 7, 8, 9. N. H.—11, 12, 13, 14, 15. June 9—28.

MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—35. May 4—June 5.

The larvae form round galls on the stalks of Goldenrod.

**E. reticulata** Snow.

N. H.—11, 15. June 1.

MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—35. May 18—Aug. 27.

**E. conspurcata** Doane.N. H.—Hampton, May 30 (*Shaw*).MASS.—Springfield (*Dimmock*).**E. latifrons** Loew.

ME.—6, 8. N. H.—11, 12. VT.—16, 20. June 20—Sept. 1.

MASS.—24, 27, 28. CONN.—24, 25. Aug. 21—Sept. 5.

**E. comma** (Wiedemann).

ME.—8, 9. N. H.—11, 13, 14. Aug. 25—Sept. 7.

MASS.—25, 27. CONN.—34, 35. Aug. 30—Sept. 28.

The larvae form root galls on Goldenrod, *Solidago juncea*.

**E. elsa** Daecke, 10-324.

ME.—9, 10. N. H.—11, 13, 14, 15. VT.—19. July 25—Sept. 18.

MASS.—24, 26, 27. CONN.—34. July 9—Sept. 28.

The larvae form root galls on Goldenrod, *Solidago rugosa*.

**Acidogona** Loew.

**A. melanura** Loew.

MASS.—“Cambridge,” two specimens in the Society’s collection.

**Icterica** Loew.

**I. seriata** (Loew).

ME.—6. N. H.—15. July 21—Sept. 4.

MASS.—24, 25, 26, 27, 28, 32. CONN.—35. July 15—Sept. 14.

**Euaresta** Loew.

**E. bella** (Loew).

ME.—6. N. H.—11, 13, 15. VT.—16, 20. July 10—Sept. 10.

MASS.—23, 24, 25, 26, 27, 28, 29, 32. R. I.—33. CONN.—34, 35. July 4—Sept. 4.

**E. festiva** (Loew).

CONN.—East Hartford, Aug. 9; Winnipauk, Aug. 4, 1908.

**E. aequalis** (Loew).

MASS.—Plymouth, July 28, 1905. On the Cocklebur (*Xanthium*).

**E. pura** Loew.

ME.—8, 9. N. H.—11, 15. July 13—18.

MASS.—26, 27, 28, 29, 30. CONN.—35. Apr. 26—Aug. 16.

**E. angustipennis** (Loew).

ME.—Bar Harbor, June 7, 1921. N. H.—“Glen House,” June 3, 1914.

**Tephritis** Latreille.

**T. albiceps** (Loew).

ME.—6, 7, 8, 10. N. H.—11, 14, 15. VT.—20. June 27—Aug. 15.

MASS.—23, 26, 28, 29. June 8—Aug. 29.

**T. geminata** (Loew).

N. H.—Franconia (*Mrs. Slosson*).

**Trypaneaa** Schrank (*Urelia* R.-Desvoidy).

**T. abstersa** (Loew).

MASS.—Woods Hole, July 25, 1903. CONN.—Short Beach, Sept. 5.

**T. mevarna** (Walker) (*U. solaris* Loew).

MASS.—Waquoit, Sept. 12, 1910 (*O. Bryant*).

**T. dacetoptera** (Phillips), 23-148.

ME.—9. N. H.—11, 15. Sept. 16.

MASS.—23, 29, 32. R. I.—33. CONN.—35. July 25-Oct. 8.

#### MICROPEZIDAE.

**Calobata** Meigen.

**C. albiceps** Van der Wulp.

N. H.—Franconia.

**C. pallipes** Say.

ME.—6, 7, 8. N. H.—11, 12, 25. June 27-July 22.

MASS.—26, 27. CONN.—35. May 13-June 24.

**C. univitta** Walker.

ME.—8. N. H.—11, 12, 15. VT.—16, 18, 22. June 22-Aug. 17.

MASS.—23, 26, 27. R. I.—33. CONN.—35. May 26-June 22.

#### TAENIAPTERA Macquart.

**T. antennaepeps** Say.

N. H.—11, 12, 14, 15. VT.—16, 17, 20, 21. June 19-July 18.

MASS.—23, 26, 27. R. I.—33. CONN.—35. June 14-Aug. 6.

**T. divaricata** Cresson, 14-459.

CONN.—Branford, Aug., 1905 (*W. H. Winkley*).

#### TANYPEZA Fallen.

**T. luteipennis** Knab and Shannon, 16-34.

ME.—5, 8. N. H.—11, 12. VT.—19. June 11-Aug. 28.

Referred to *T. longimana* Fallen by the writer, Psyche, vol. 17, p. 234, 1910.

#### SEPSIDAE.

**Sepsis** Fallen.

**S. violacea** Meigen.

ME.—1, 2, 6, 8, 10. N. H.—11, 14, 15. VT.—18, 19, 20. June 14-Aug. 23.

MASS.—25, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—34, 35. Apr. 10-Nov. 4.

**S. violacea** var. **similis** Macquart.

N. H.—Hanover, July 3.

MASS.—New Bedford; Woods Hole; Greenfield (*Melander*); Auburndale, May 26.

**S. violacea** var. **hecate** Melander and Spuler, 17-22.

MASS.—Greenfield (*Melander*).

**S. pectoralis** Macquart (Melander and Spuler, 17-23).

N. H.—15. VT.—18. Apr. 25.

MASS.—24, 27, 29, 31, 32. Apr. 25-June 28.

**S. vicaria** Walker.MASS.—Greenfield; Woods Hole (*Melander*).**S. signifera** Melander and Spuler, 17–26.

ME.—Bar Harbor, July 30. N. H.—Hanover, July 4.

MASS.—New Bedford (*Hough*); Woods Hole (*Melander*); Auburndale, July 12.**S. signifera** var. *curvitibia* Melander and Spuler, 17–28.

ME.—7, 8. N. H.—12, 15. VT.—18. July 7–Oct. 22.

MASS.—24, 26, 27, 32. CONN.—35. June 20–Oct. 19.

**S. neocynipea** Melander and Spuler, 17–28.

ME.—7. N. H.—11. VT.—18. July 7.

MASS.—24, 27, 28, 29, 32. R. I.—33. CONN.—35. May 20–Nov. 4.

**Meroplus** Rondani.**M. stercorarius** (R.-Desvoidy) (*Nemopoda minuta* Meigen).

ME.—8, 10. N. H.—11, 12, 14, 15. VT.—16. May 19–Aug. 25.

MASS.—24, 25, 27, 28, 29, 32. R. I.—33. CONN.—35. May 25–Sept. 8.

**Nemopoda** R.-Desvoidy.**N. cylindrica** (Fabricius).

ME.—1, 2, 4, 7, 8, 9, 10. N. H.—11, 14, 15. VT.—16, 22. May 31–Aug. 17.

MASS.—23, 27, 29, 32. R. I.—33. CONN.—35. May 14–July 24.

**Enicita** Westwood.**E. annulipes** (Meigen).

ME.—Ft. Kent, Aug. 17.

**Themira** R.-Desvoidy.**T. putris** (Linné).

ME.—1, 8, 9. N. H.—11, 15. VT.—18. May 16–Aug. 17.

MASS.—23, 26, 27, 29, 32. CONN.—May 28–Aug. 1.

**T. incisurata** var. *latitarsata* Melander and Spuler, 17–45.VT.—Lyndon (*Melander*); summit of Jay Peak (*Morse*).**T. flavicoxa** Melander and Spuler, 17–46.CONN.—Yalesville, Oct. 19 (*Viereck*).**T. minor** Haliday.

ME.—8. VT.—18. June 18–Aug. 20.

MASS.—24, 26, 28. May 15.

**Saltella** R.-Desvoidy.**S. scutellaris** (Fallen).

ME.—7, 8. N. H.—14. VT.—18. June 9–Aug. 13.

MASS.—24, 26, 27. R. I.—33. CONN.—35. May 10–July 31.

**S. scutellaris** var. *ruficoxa* Macquart.

MASS.—Salem, June 16 (*Morse*). R. I.—Tiverton, July 31.

**S. scutellaris** var. *nigerrima* Rondani.

MASS.—Danvers, May 16. R. I.—Buttonwoods, June 17.  
CONN.—Guilford, May 10 (*Foote*).

**S. scutellaris** var. *parmensis* Rondani.

N. H.—Jaffrey, June 27. MASS.—Framingham, July 4 (*C. A. Frost*).

#### PIOPHILIDAE.

**Prochyliza** Walker.

**P. xanthostoma** Walker.

N. H.—11. Vt.—17. July 16.

MASS.—27, 32. R. I.—33. CONN.—35. Apr. 7—Sept. 14.

**Piophila** Fallen.

**P. affinis** Meigen.

MASS.—Boston; Greenfield (*Melander*); New Bedford (*Hough*); Woods Hole, June—Sept. (*Sturtevant*).

**P. casei** (Linné). Cheese-maggot Fly.

ME.—1, 6, 7, 8. N. H.—11, 15. Vt.—21. June 7—Sept. 8.

MASS.—23, 27, 28, 29, 31. R. I.—33. CONN.—35. May 7—Oct. 16.

**P. nigriceps** Meigen.

ME.—7, 8. N. H.—15. June 8—July 25.

MASS.—27, 28, 29, 30, 32. R. I.—33. May 8—Sept. 14.

**P. oriens** Melander and Spuler, 17—63.

ME.—Ft. Kent, Aug. 17; Eastport, July 14; Bar Harbor, June 22.

MASS.—Greenfield, June (*Melander*); Auburndale, May 27.

**P. privigna** Melander, 24—87 (*P. pusilla* of authors, not Meigen).

N. H.—Glen House, July 20, 1915.

MASS.—Woods Hole and New Bedford (*Hough*); Provincetown, June 24; Melrose Highlands, May 25 (*Webber*); Edgartown, June 27.

**Mycetaulus** Loew.

**M. longipennis** Loew.

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Pegan Hill, Dover, Oct. 7, 1923 (*A. P. Morse*).

**M. pulchellus** Banks, 15—145.

ME.—Bar Harbor, Sept. 11, 1922. N. H.—Wolfeboro, Sept. 11.

#### PSILIDAE.

**Loxocera** Meigen.

**L. cylindrica** Say.

N. H.—11, 14. Vt.—22. July 14—Aug. 8.

MASS.—23, 27, 29, 32. CONN.—35. June 7—Aug. 15.

**L. cylindrica** var. *pleuritica* Loew.

ME.—7, 8. N. H.—11, 12, 14, 15. VT.—20. June 20—Aug. 8.  
MASS.—23, 26, 27, 28. CONN.—35. June 1—Aug. 9.

**L. cylindrica** var. *pectoralis* Loew.

N. H.—White Mts. VT.—Mt. Ascutney, July 11.  
MASS.—Auburndale, May 29. CONN.—

**L. cylindrica** var. *obsoleta* Johnson, 20—15.

VT.—Burlington, June 22; Winooski, Aug. 2.

MASS.—Plymouth, July 28. R. I.—Buttonwoods, June 22.  
CONN.—Cornwall, June 23 (*Chamberlain*).

**L. collaris** Loew.

ME.—Liberty, Sept. 11, 1913 (*Cushman*). N. H.—Hampton,  
July 14 (*Shaw*).

MASS.—Medford, Aug. 26 (*G. W. Barber*); Salem, June 28  
(*Morse*).

*Pseudopsila* Johnson, 20—17.

**P. angustata** (Cresson), 19—193.

VT.—Woodstock, Aug. 20 (*A. P. Morse*).

**P. fallax** (Loew).

ME.—8. N. H.—11, 15. July 23—Sept. 3.

MASS.—25, 27, 28, 32. Aug. 16—Sept. 13.

**P. bivittata** (Loew).

ME.—6, 9. N. H.—15. VT.—16. June 14—25.

MASS.—23, 26, 27. R. I.—33. CONN.—35. May 28—June 28.

**P. collaris** (Loew).

ME.—6, 8. N. H.—11, 12, 15. VT.—16, 21. June 10—July 10.

MASS.—23, 26, 27, 29. CONN.—35. May 27—July 4.

**P. perpolita** Johnson, 20—18.

ME.—Liberty, Sept. 9, 1913 (*Cushman*). N. H.—Center Harbor, Sept. 10, 1914.

*Psila* Meigen.

**P. bicolor** Meigen.

ME.—7, 8. N. H.—11. VT.—19, 20. July 8—21.

**P. bicolor** var. *dimidiata* Loew.

ME.—Capens, July 14, 1907.

**P. frontalis** Coquillett.

ME.—6. N. H.—11. VT.—12, 20, 22. July 7—23.

MASS.—23, 24. July 14—Aug. 5.

**P. lateralis** Loew.

MASS.—Auburndale, June 4—July 12; Ipswich, June 10. CONN.—Winnipauk, June 12.

**P. levis** Loew.

ME.—Mt. Desert, June 15—July 24; Ft. Kent, Aug. 17. N. H.—Mt. Washington, 3000 ft., July 28; Jaffrey, June 8.

**P. longula** Johnson, 21-14.

ME.—1, 8. N. H.—11, 12. VT.—22. July 7-Aug. 28.

MASS.—23. Aug. 6.

**P. rosae** (Fabricius).

ME.—Pittsfield. N. H.—Franconia (*Mrs. Slosson*). VT.—Bennington, June 8; St. Albans, June 19.

MASS.—Haggetts, Sept. 6 (*Morse*).

**P. sternalis** Loew.

VT.—Burlington and St. Albans. June 21-23.

MASS.—North Adams, June 14. CONN.—Darien, May 27.

*Chyliza* Fallen.

**C. annulipes** Macquart.

MASS.—New Bedford (*Hough*).

**C. apicalis** Loew.

VT.—Dummerston, July 14.

MASS.—Auburndale and Winchester, July 2, 1912. R. I.—Buttonwoods, June 20. CONN.—Winnipauk, June 16.

**C. erudita** Melander, 20-99.

VT.—Norwich, July 7; Bolton Mt., July 15 (*Bryant*).

MASS.—Boston, May (*Melander*); New Bedford, May 24 (*Hough*); Essex Co., May 2 (*A. P. Morse*).

**C. notata** Loew.

N. H.—Mt. Washington, 2500 ft., July 16; Bretton Woods, June 24; Hampton, May 30 (*Shaw*).

CONN.—Danbury, June 15.

### DIOPSIDAE.

*Sphyracephala* Say.

**S. brevicornis** Say. The Hammer-head Fly.

N. H.—Franconia (*Mrs. Slosson*); Dublin (*Harris Coll.*).

MASS.—23, 24, 27, 42. R. I.—33. CONN.—35. May 3-Oct. 18.

### NOTIPHILIDAE.

*Gymnopa* Fall (*Mosillus* of authors, not Latreille).

**G. tibialis** (Cresson), 16-149 and 22-329.

MASS.—28, 29, 30, 31, 32. R. I.—33. CONN.—March 3-Sept. 21.

*Athyroglossa* Loew.

**A. ordinata** Becker, 06-135.

N. H.—Cornish, July 13, 1908. VT.—Lyndon, June 13 (*Melander*).

*Ochtheroidea* Williston.

**O. granulosa** Cresson, 22-314.

VT.—Dummerston, July 14.

MASS.—New Bedford (*Hough*).

*Clanoneurum* Becker, 03-165.**C. cimiciformis** (Haliday), 55-124.

ME.—“Narrows,” Mt. Desert, Aug. 15, 1920.

MASS.—North Falmouth, July 22 (*Sturtevant*).*Psilopa* Fallen.**P. atrimana** Loew.

ME.—8. N. H.—12. July 24-Sept. 6.

MASS.—24, 26, 27, 29, 30, 31, 32. CONN.—35. May 10-Oct. 24.

**P. flava** Coquillett.MASS.—New Bedford (*Hough*); Woods Hole, Aug.-Sept. (*Sturtevant*). CONN.—New Haven, May 11 (*Champlain*).**P. fulvipennis** Hine, 04-63.N. H.—Hampton, May 5, 1907 (*Shaw*).MASS.—Essex, Aug. 10 (*Fuller*); Horse Neck Beach, July 30; Woods Hole, July-Sept., and Naushon Isl., July 24 (*Sturtevant*).**P. leucostoma** Meigen.

ME.—“Narrows,” Mt. Desert, June 29, 1920.

MASS.—Gloucester, June 17, 1924.

**P. pulchripes** Loew.MASS.—Cuttyhunk Island (*Cockerell*).*Trimerina* Macquart.**T. madizans** (Fallen).ME.—Bar Harbor, Aug. 16. N. H.—Mt. Washington (*Mrs. Slosson* as *Psilopa similis*); Milford, June 23.MASS.—Plymouth, July 28; Brookline, Aug. 23; Wellesley, May 5-20 (*Morse*); Gloucester, June 17.*Rhysophora* Cresson, 24-159.**R. robusta** Cresson, 24-159.

ME.—Bar Harbor, July 30.

MASS.—Norfolk, Aug. 2; Sharon, Aug. 23; Nantucket, July 30, Aug. 19.

*Ditrichophora* Cresson, 24-159.**D. exigua** Cresson, 24-159.

ME.—Bar Harbor, July 22, 1919.

**D. parilis** Cresson, 24-160.

ME.—Bar Harbor, Aug. 18. VT.—Mt. Ascutney, July 11, 3000 ft.

**D. tacoma** Cresson, 24-160.ME.—Fort Kent, Aug. 17, 1910. VT.—Bolton Mt., Aug. 30 (*Bryant*).**D. xanthocera** (Loew) (*D. lacteipennis* Loew).

MASS.—Plymouth, July 28, 1905.

## Discocerina Macquart.

**D. leucoprocta** Loew.

ME.—7, 8. June 9—July 17.

MASS.—27, 28, 29. R. I.—33. May 15—July 25.

**D. parva** Loew.

ME.—4. N. H.—11. Aug. 18.

MASS.—23, 25, 27. CONN.—35. May 31—Oct. 19.

## Polytrichophora Cresson, 24—161.

**P. conciliata** Cresson, 24—161.

ME.—Machias, July 17, 1909.

MASS.—Muskeget, July 14 (*Brooks*).

## Allotrichoma Becker.

**A. simplex** (Loew).

MASS.—Auburndale, May 7, 1905; Boston, Sept. 22.

**A. trispinum** Becker.CONN.—New Haven, May 4; Branford, June 27 (*Viereck*).

## Axysta Haliday.

**A. cesta** Haliday.

MASS.—Woods Hole.

## Glenanthe Haliday.

**G. litorea** Cresson.

MASS.—Gloucester, June 20, 1924.

## Hydrellia R.-Desvoidy.

**H. coniformis** Loew.R. I.—*Newport* (*Osten Sacken*); Providence, Sept. 16.**H. formosa** Loew.

ME.—Bar Harbor, Aug. 12.

R. I.—Kingston, July 25, 1905 (*Barlow*). CONN.—New Haven, May 14, 1904 (*Viereck*).**H. hypoleuca** Loew.

ME.—Moosehead Lake, July 14, 1907; Princeton, July 12. VT.—St. Albans, June 20.

MASS.—Nantucket, July 20, 1910 (*G. M. Allen*); North Reading, June 10.**H. ischiaca** Loew.

N. H.—Mt. Washington (U. S. Nat. Mus.).

**H. morrisoni** Cresson, 24—162.

N. H.—“White Mts.” (U. S. Nat. Mus.).

**H. notiphilooides** Cresson, 24—162.MASS.—Nantucket, July 20, 1910 (*Allen*).

**H. obscuripes** Loew (Mon. Dipt. N. Amer., pt. 1, p. 150, 1862); (*H. obscuriceps* Loew, Mon. Dipt. N. Amer., pt. 1, p. 152, 1862). N. H.—Mt. Washington (*Mrs. Slosson*). Vt.—Norwich, July 7. MASS.—Beverly; Forest Hills, Boston; Woods Hole.

**H. scapularis** Loew.

ME.—5, 7, 8. N. H.—11. Vt.—16. June 21—July 27. MASS.—26. CONN.—35. July 27—Aug. 4.

**H. tibialis** Cresson.

ME.—Bar Harbor, Aug. 10. N. H.—Mt. Washington (*Mrs. Slosson* as *H. hypoleuca*).

**H. valida** Loew.

ME.—7, 8, 10. July 17—Aug. 13.

MASS.—28, 29, 32. R. I.—33. CONN.—35. June 21—Sept. 8.

*Ilythea* Haliday.

**I. pilota** Curtis.

ME.—1, 6, 7, 8, 9, 10. N. H.—11, 15. Vt.—22. June 11—Aug. 9.

MASS.—23, 27, 32. R. I.—33. CONN.—35. June 18—Oct. 21.

*Notiphila* Fallen.

Subgenus *Notiphila* Fallen.

**N. loewi** Cresson, 17—44 (*N. unicolor* Loew, 1852, not Walker, 1860).

ME.—Bar Harbor, June 22.

MASS.—Eastham, June 27; Nantucket, July 20 (*Allen*).

**N. riparia** Meigen.

MASS.—Nantucket and Tuckernuck, July 20—21 (*Allen*). CONN.—New Haven, July 8.

**N. vittata** Loew.

ME.—Bar Harbor, July 20.

MASS.—Auburndale, Aug. 2; Nantucket, July 20 (*Allen*). CONN.—New Haven, July 27.

Subgenus *Agrolimna* Cresson, 17—48.

**N. atripes** Cresson, 17—50.

ME.—Machias, July 17; "Narrows," Mt. Desert, Aug. 13.

MASS.—Beverly, June 15, 1875 (*Burgess*).

**N. bispinosa** Cresson, 17—58.

ME.—7, 8. July 17—Aug. 13.

MASS.—29, 32. R. I.—33. CONN.—35. June 27—July 25.

**N. olivacea** Cresson, 17—52.

ME.—8. Vt.—21. June 24—July 26.

MASS.—29, 30. CONN.—35. June 25—Aug. 1.

**N. scalaris** Loew.

N. H.—11, 15. Aug. 24.

MASS.—27, 29. R. I.—33. CONN.—35. June 26—Aug. 24.

Dichaeta Meigen.

**D. caudata** (Fallen) (*D. brevicauda* Loew).

ME.—7, 8. N. H.—11, 12, 14, 15. April 25—Sept. 1.

MASS.—26, 27, 29, 32. R. I.—33. CONN.—35. May 20—  
Aug. 23.

Typopsilopa Cresson, 16—147.

**T. atra** Loew.

CONN.—New Haven, Oct. 21, 1903 (*Viereck*).

Philygria Stenhammer.

**P. debilis** Loew (*P. fuscicornis* Loew).

ME.—Mt. Desert, July 25—Sept. 7. N. H.—Mt. Washington (*Mrs. Slosson*). VT.—Lyndon (*Melandier*).

MASS.—Beverly (*Burgess*); Forest Hills, Boston.

**P. fuscicornis** Loew.

ME.—Mt. Katahdin, 4750 ft., Aug. 21, 1913 (*Alexander*). N. H.—  
Mt. Washington (*Mrs. Slosson*).

MASS.—Essex Co., June 20 (*Morse*). CONN.—New Haven, May  
12, 1904 (*Viereck*).

**P. opposita** Loew.

N. H.—11, 12, 13. VT.—20. June 30—Sept. 11.

MASS.—27. R. I.—33. July 31—Sept. 6.

**P. picta** Fallen.

N. H.—Mt. Washington (*Mrs. Slosson*).

Gastrops Williston.

**G. nebulosus** Coquillett.

MASS.—Woods Hole, Sept. (*Sturtevant*). CONN.—New Haven,  
Oct. 18 (*G. M. Allen*).

#### EPHYDRIDAE.

Pelina Haliday.

**P. truncatula** Loew.

MASS.—Barnstable, July 5; Provincetown, July 10 (*Morse*).  
R. I.—Providence, Aug. 10 (*Davis*).

Lytogaster Becker.

**L. gravida** (Loew) (*L. willistoni* Cresson, 16—150).

MASS.—Scituate, May 15, 1915; Rockport, July 15, 1904.

**L. extera** Cresson, 24—162.

MASS.—Danvers, Sept. 23.

*Napaea* R.-Desvoidy.*N. abbreviata* (Loew).

MASS.—Springfield, May 7; Mt. Tom, July 14; Brookline, July 4; Dedham, Sept. 4; Woods Hole, Sept. 5 (*Sturtevant*).

*N. alpina* Cresson, 24–163.

ME.—Fort Kent, Aug. 19, 1910; Mt. Desert, July 16–Aug. 11.

*N. breviceps* Loew.

N. H.—Hanover, July 6.

MASS.—Scituate, May 15; Auburndale, Aug. 2–Sept. 1; Chester, Aug. 7. CONN.—Winnipauk, June 16–Aug. 4.

*N. imitans* (Loew).

ME.—“Narrows,” Mt. Desert, Sept. 12; Roque Bluff, Aug. 13 (*Morse*); Kittery (*Thaxter*).

MASS.—New Bedford (*Hough*). CONN.—Short Beach, July 5 (*Butrick*).

*N. varia* Loew.

ME.—Bar Harbor, Aug. 18. N. H.—Franconia (*Mrs. Slosson*); Glen House, June 11, 1916.

*Paradra* Stenhammer.*P. bituberculata* Loew.

ME.—1, 4, 8, 9. N. H.—11, 12, 15. Apr. 11–Aug. 19.

MASS.—26, 27. R. I.—33. CONN.—35. May 15–Oct. 31.

*P. quadrituberculata* Loew.

ME.—Eastport, July 14; Mt. Desert, July 20.

MASS.—Scituate, May 15. R. I.—Buttonwoods, June 18.

*Ochthera* Latreille.*O. mantis* (De Geer).

ME.—3, 4, 8. N. H.—11. July 18–Aug. 16.

MASS.—27, 28, 29, 32. CONN.—35. May 15–Sept. 30.

*Brachydeutera* Loew.*B. argentata* (Walker).

ME.—Southwest Harbor, June 24.

MASS.—Gloucester, Aug. 30; Danvers, Sept. 25; Wellesley, Oct. 26 (*Morse*); Woods Hole, Sept. (*Sturtevant*).

*Ephydria* Fallen.*E. atrovirens* Loew.

N. H.—Hampton, Aug. 28 (*Shaw*).

MASS.—Rockport, Aug. 28. CONN.—Branford, June 21; Woodmont, July 9.

*E. subopaca* Loew (*E. halophila* Packard, 1869, not V. Heyd, 1844).

ME.—8. N. H.—15. May 21–Aug. 13.

MASS.—26, 27, 29, 32. R. I.—33. CONN.—35. May 20–Aug. 28.

*Cirrula* Cresson, 15-70.

**C. gigantea** Cresson, 15-71.

ME.—7, 8, 9. N. H.—15. Apr. 22—Sept. 22.

MASS.—26, 27, 28, 29, 31. CONN.—35. June 21—Oct. 13.

*Coenia* R.-Desvoidy.

**C. bisetosa** Coquillett.

N. H.—Hampton, Jan. 2, 1906 (*Shaw*).

MASS.—Eastham, June 27, 1904.

**C. palustris** (Fallen).

N. H.—Hampton, March 28 and April 30, 1910 (*Shaw*).

*Dimecoenia* Cresson, 16-152.

**D. spinosa** (Loew).

ME.—8. N. H.—15. July 27—Sept. 12.

MASS.—26, 27, 28, 29, 32. R. I.—33. CONN.—35. June 27—Sept. 8.

*Scatella* R.-Desvoidy.

**S. callosicosta** Bezzi.

MASS.—Tuckernuck, July 21, 1910 (*G. M. Allen*); Martha's Vineyard, June 13, 1917.

**S. dichaeta** Loew.

N. H.—Hampton, Jan. 2, 1916 (*Shaw*).

MASS.—Eastham, June 27; Nantucket, July 20, 1910 (*G. M. Allen*); Muskeget, July 14 (*Brooks*); Gloucester, June 20.

**S. flavillacea** Loew.

MASS.—Chester, Aug. 7, 1912.

**S. lugens** Loew.

ME.—3, 8. N. H.—15. July 16—Aug. 18.

MASS.—26, 27, 28, 29, 30. R. I.—33. CONN.—35. May 26—Oct. 1.

**S. obsoleta** Loew.

MASS.—Eastham, Chatham and Hyannisport, June 27—July 4; Nantucket, July 20 (*G. M. Allen*).

R. I.—Buttonwoods, June 17.

**S. stagnalis** (Fallen).

ME.—7. N. H.—11, 15. May 4—July 17.

MASS.—27, 28, 29. CONN.—35. May 15—Oct. 31.

**S. stenhammeri** Zetterstedt.

ME.—Mt. Katahdin, 5000 ft., Aug. 2, 1913 (*Alexander*); Mt. Desert, June 17—July 11.

MASS.—Brookline, June 11, 1905; Sherborn, Oct. 14, 1922 (*C. A. Frost*).

*Scatophila* Becker.**S. mesogramma** Loew.MASS.—Nantucket and Tuckernuck, July 20, 1921 (*Allen*); Martha's Vineyard, June 13, 1917.R. I.—Newport (*Osten Sacken*).**S. variabilis** Cresson, 17–341 (?*S. despecta* Haliday).

ME.—Southwest Harbor, Aug. 20, 1920.

MASS.—Forest Hills, Boston (*Bromberger*); Springfield, May 7 (*Russell*).*Canacea* Malloch, 24–52.**C. macatee** Malloch, 24–52.

MASS.—Good Harbor Beach, East Gloucester, June 20, 1924.

R. I.—Buttonwoods, July 25, 1911.

## CHLOROPIDAE.

*Meromyza* Meigen.**M. americana** Fitch.

ME.—6, 8. N. H.—11, 15. July 4–Aug. 12.

MASS.—26, 27, 28, 29, 32. R. I.—33. CONN.—35. June 21–Sept. 8.

**M. flavipalpis** Malloch, 14–117.

ME.—Mt. Desert, Sept. 8.

MASS.—23, 26, 27, 29, 30. CONN.—35. May 23–Aug. 20.

Cetema Hendel, 07–98 (*Center* Loew, 1872, not Schön., 1847).**C. procera** (Loew).N. H.—Mt. Washington (*Mrs. Slosson*).

CONN.—.

**C. subvittata** (Loew) (*C. hypocera* Becker, 12–27). See Malloch, 23–33.

ME.—1, 8. July 30–Aug. 19.

MASS.—23, 27, 32. R. I.—33. July 22–Sept. 4.

*Epichlorops* Becker, 1912 (*Eurina* Coquillett, not Meigen).**E. exilis** (Coquillett).

ME.—7, 8, 9. N. H.—11. June 13–July 15.

MASS.—Beverly, June 3, 1876 (*E. Burgess*).*Chloropisca* Loew (*Pseudochlorops* Malloch, 14–119 and 15–162).**C. glabra** (Meigen) (*C. assimilis* Macquart).

ME.—1, 3, 4, 6, 8. N. H.—11, 12, 13, 15. VT.—19, 20. June 7–Aug. 19.

MASS.—24, 26, 27, 30, 32. R. I.—33. CONN.—35. May 14–Sept.

**C. grata** Loew.

ME.—3, 4, 6, 7, 8. N. H.—11, 12. VT.—16, 18, 21, 22. June 18-Aug. 19.

MASS.—24, 27, 28, 32. R. I.—33. CONN.—35. June 12-July 31.

**C. variceps** Loew.

ME.—1, 6, 8. N. H.—11, 12, 14, 15. VT.—20. Mar. 28-Aug. 17.

MASS.—24, 25, 27. CONN.—35. May 5-Oct. 17.

**C. rufescens** Coquillett, 10-45.

ME.—8. N. H.—15. July 1-Aug. 1.

MASS.—26, 27, 28. R. I.—33. CONN.—35. June 25-Aug. 6.

**C. integra** Becker, 12-66.

MASS.—24, 27, 29, 30, 31. June 25-July 11.

## Diplotoxa Loew.

**D. versicolor** Loew.

ME.—3, 7, 8, 9. N. H.—11, 15. July 17-Aug. 30.

MASS.—27, 28, 29, 31, 32. R. I.—33. CONN.—35. June 16-Aug. 9.

**D. microcera** Loew.

MASS.—Chester, May 28, 1912.

**D. nigripes** Coquillett, 10-44.

MASS.—Brookline, Aug. 23; Manomet, July 26; Avon, June 14; Saxonville, Aug. 1 (*Morse*). R. I.—Tiverton, July 31.

## Anthracophaga Loew.

**A. sanguinolenta** Loew.

ME.—7, 8. N. H.—11, 14, 15. June 8-July 14.

MASS.—23, 27, 28, 30, 32. R. I.—35. May 23-July 4.

## Chlorops Meigen.

**C. crocata** Loew.

ME.—1, 7, 8. N. H.—15. July 17-Aug. 19.

MASS.—23, 26, 27, 29, 30, 32. CONN.—35. May 27-Aug. 9.

**C. brunnipennis** Becker, 12-58.

MASS.—Fall River, Aug. 17 (*Cushman*). R. I.—Tiverton, July 31. CONN.—Hamden, June 3 (*Zappe*).

**C. obscuricornis** Loew.

ME.—8. N. H.—11, 14, 15. June 8-Aug. 13.

MASS.—27, 31, 32. June 16-Aug. 9.

**C. melanocera** Loew.

ME.—Southwest Harbor, July 13.

MASS.—29, 32. CONN.—34, 35. June 9-Aug. 2.

**C. albifacies** Adams.

MASS.—Woods Hole (*Melandier*).

**C. certima** Adams, 04-304.

N. H.—Durham. Vt.—Winooski, Aug. 20 (*Davis*).

MASS.—Boston, July 12; Woodburn, July 11. CONN.—New Haven, June 16 (*Welden*).

**C. proxima** Say.

ME.—8. N. H.—11. Vt.—17. July 11-21.

MASS.—27, 29, 31. CONN.—35. June 15-Aug. 1.

**C. scabra** Coquillett.

ME.—Ft. Kent, Aug. 19; Mt. Desert, Aug. 23.

MASS.—Groton, July 8.

**C. subnigra** Coquillett.

ME.—Bar Harbor, Aug. 12, 1920.

Parectecephala Becker, 1910.

**P. aristalis** (Coquillett).

MASS.—New Bedford, July 20.

**P. eucera** (Loew).

ME.—6, 7, 8. N. H.—11, 12, 14, 15. Vt.—17, 22. June 9—Aug. 21.

MASS.—26, 27, 32. CONN.—35. May 23-July 21.

Ectocephala Macquart.

**E. similis** Becker, 12-72.

ME.—Bar Harbor, July 21.

MASS.—Weston, July 23; Manomet, July 27. CONN.—Darien, Aug. 4.

Pseudogaurax Malloch, 15-159.

**P. anchora** (Loew).

MASS.—Forest Hills, Boston, May 4 (*Whiting*); Essex, Aug. 8 (*Fuller*); Brookline, Aug. 31; Weston, July 23.

Gaurax Loew (*Neogaurax* Malloch, 14-119).

**G. apicalis** Malloch, 15-160.

Vt.—Norwich, July 8, 1908; Dummerston, July 14, 1908.

**G. interruptus** Malloch, 15-363.

ME.—Mt. Desert, July 16.

MASS.—Woods Hole, July 23.

**G. dorsalis** Loew.

N. H.—Mt. Washington (*Mrs. Slosson*).

CONN.—Winnipauk, Aug. 4, 1908.

**G. dorri** Johnson, 1924(-1925).

ME.—Mt. Desert, June 27.

**G. ephippium** Zetterstedt.

ME.—7, 8. N. H.—11, 12. Vt.—21. June 19-Aug. 10.

MASS.—Eastham, June 27.

**G. festivus** Loew.

MASS.—Beverly, July 20 (U. S. Nat. Mus.).

**G. fumipennis** (Malloch), 15–108.

VT.—Norwich, July 8, 1908.

**G. montanus** Coquillett.N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Woods Hole, July 23. CONN.—Darien, May 27.

**G. obscuripennis** Johnson, 13–35.

N. H.—

MASS.—Chester, Aug. 7, 1912.

Crassiseta Von Roser (*Elachiptera* of authors, not Macquart).**C. aliena** Becker, 12–81.MASS.—Woods Hole, July (*Melander*).**C. costata** Loew.MASS.—Auburndale, Sept. 12; Wellesley, May 4 (*Morse*). R. I.—Kingston (*Barlow*). CONN.—New Haven, Oct. 16 (*Viereck*).**C. formosa** Loew.N. H.—Mt. Washington (*Mrs. Slosson*).**C. nigriceps** Loew.

ME.—4, 8. N. H.—11, 14, 15. June 7–Aug. 4.

MASS.—26, 29, 31, 32. R. I.—33. CONN.—35. May 13–July 24.

Melanochaeta Bezzi, 1906.

**M. decipiens** (Loew) (*Oscinis decipiens* Loew).

ME.—Mt. Desert, June 9–Aug. 10. N. H.—Mt. Washington and Glen House, June 14–July 4; Durham.

MASS.—Wellesley, May 4 (*Morse*).**M. planicollis** Becker.

ME.—Bar Harbor, Aug. 18.

MASS.—Essex Co., Sept. 29 (*Morse*).**M. eunota** (Loew).ME.—Mt. Desert, July 30 (*McAtee*). N. H.—Hanover, July 3 (*Shaw*).CONN.—Branford, June 21 (*Viereck*).**M. longula** (Loew).

ME.—6, 8. N. H.—11, 15. May 12–Aug. 14.

MASS.—24, 26, 27, 28, 29, 30, 32. R. I.—33. CONN.—35. May 28–Oct. 11.

**M. nigricornis** (Loew).N. H.—Mt. Washington (*Mrs. Slosson*).

*Hippelates* Loew.***H. flavipes*** Loew.

ME.—8. N. H.—11, 12. July 7–14.

MASS.—23, 26, 27, 28, 29, 30, 31, 32. R. I.—33. CONN.—35.  
June 15–Sept. 20.***H. pusio*** Loew.N. H.—Mt. Washington (*Mrs. Slosson*); Durham, June 30.MASS.—Eastham, June 27; Freetown, June 5 (*Easton*); New Bedford (*Hough*). CONN.—New Haven, June 26–Aug. 3, and Cheshire, July 3 (*Viereck*).***H. nobilis*** Loew.

N. H.—14. VT.—16, 20. June 22–July 19.

MASS.—24, 26, 27, 29, 32. R. I.—33. CONN.—35. June 17–Aug. 7.

***H. plebius*** Loew.MASS.—Essex Co., May 16 (*Morse*). R. I.—Buttonwoods, June 17.***H. nitifrons*** Malloch.MASS.—Woods Hole, July–Sept. (*Sturtevant*).***H. subvittatus*** Malloch.N. H.—Hanover, Aug. 31 (*Sturtevant*).MASS.—Woods Hole and Oak Bluff, Aug. (*Sturtevant*).***Madiza*** Fallen (*Siphonella* Macquart).***M. aequa*** Becker, 12–102.MASS.—Woods Hole, July (*Melander*).***M. cinerea*** Loew (*S. parva* Adams).

ME.—8. N. H.—13, 15. VT.—16. June 27–Sept. 10.

MASS.—26, 27, 28, 29, 31, 32. CONN.—35. May 16–Oct. 19.

***M. latifrons*** Loew.N. H.—Mt. Washington (*Mrs. Slosson*).***M. neglecta*** Becker, 12–100.ME.—Mt. Desert, July 30 (*McAtee*).

MASS.—26, 27, 28, 29, 31. R. I.—33. June 17–Aug. 5.

***M. nigripalpis*** Malloch, 13–282.

ME.—Mt. Desert, Aug. 20–Sept. 6; Orr's Isl., July 24.

MASS.—Chester, Aug. 7; Blue Hill, May 30; Auburndale, Aug. 2.

***M. oscinina*** Fallen (*S. laevigata* of authors).

ME.—2, 8, 9, 10. N. H.—11, 13, 15. June 4–Sept. 10.

MASS.—26, 27, 28, 32. R. I.—33. CONN.—35. May 7–Sept. 8.

***M. setulosa*** Malloch, 18–110.ME.—Mt. Desert, July 31 (*McAtee*).

**M. provocans** Becker, 12-98.

MASS.—Horse Neck Beach, June (*Melander*). CONN.—East Hartford, Aug. 9 (*Walden*).

**Notonaulax** Becker, 1903.

**N. cincta** (Meigen).

N. H.—Mt. Monadnock, June 22, 1917.

MASS.—Dedham, Sept. 4; Auburndale, June 28.

**Chaetochlorops** Malloch.

**C. inquilina** Coquillett.

MASS.—Arlington, Nov. 27, 1920.

**Dicraeus** Loew.

**D. ruficeps** (Meigen).

MASS.—Essex, Apr. 17 (*Fuller*), from gall on cherry.

**Botanobia** Lioy (*Oscinis* of authors; *Oscinella* Becker).

**B. anthracina** (Meigen) (*O. atriceps* Loew).

MASS.—New Bedford (*Hough*).

**B. coxendix** (Fitch).

ME.—1, 6, 8. N. H.—11, 12, 13, 14, 15. VT.—16, 20, 21, 22.  
June 15—Sept. 11.

MASS.—26, 27, 28, 29, 32. R. I.—33. CONN.—34, 35. Apr.  
30—Oct. 19.

**B. dorsata** (Loew) (*O. dorsalis* Loew, 1869, not 1863).

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—26, 28, 29, 30. R. I.—33. CONN.—35. June 17—  
Aug. 8.

**B. frit** (Linné).

ME.—3, 4, 8. N. H.—11, 14, 15. May 5—Aug. 28.  
MASS.—24, 26, 27, 29, 30, 32. R. I.—33. CONN.—35. May  
14—Sept. 20.

**B. frit** var. **pusilla** Meigen (*O. carbonaria* Loew).

ME.—Mt. Desert, July 14. N. H.—Mt. Washington.

MASS.—Scituate, May 15. CONN.—West Haven, June 21 (*Vie-  
reck*).

**B. infesta** (Becker), 12-109.

ME.—8. N. H.—15. July 27—Sept. 12.

MASS.—26, 28, 29, 31, 32. R. I.—33. CONN.—35. June 17—  
Sept. 8.

**B. minor** (Adams), 05-110.

ME.—Mt. Katahdin, Aug. 21 (*Alexander*).

MASS.—Arnold Arboretum, Boston, July 25, 1921 (*H. Morrison*).

R. I.—Providence, June 22 (*Davis*).

**B. melancholica** (Becker), 12–109.

ME.—Orono, Sept. 12 (*Parshley*).

MASS.—Brookline, Aug. 5, 1918. CONN.—New Haven, Oct. 16 (*Viereck*).

**B. nitidissima** (Meigen) (*O. variabilis* Loew).

ME.—Mt. Desert, July 13.

MASS.—27, 32. CONN.—34, 35. June 27–July 21.

**B. nudiusculus** Loew.

ME.—Mt. Desert, July 21 (*McAtee*).

**B. pallipes** (Loew).

N. H.—Mt. Washington (*Mrs. Slosson*).

**B. pectoralis** (Coquillett).

N. H.—Franconia (*Mrs. Slosson*).

**B. umbrosa** (Loew).

CONN.—West Haven, June 27 (*Viereck*). R. I.—Kingston, June 17 (*Barlow*).

**B. trigramma** (Loew).

ME.—Mt. Desert, Aug. 13.

#### DROSOPHILIDAE.

**Amiota** Loew (*Phortica* Schiner).

**A. alboguttata** Wahlberg.

ME.—7. N. H.—12, 14. VT.—20. June 16–July 17.

MASS.—23, 24, 27, 32. R. I.—33. June 14–Sept. 18.

**A. humeralis** Loew.

ME.—4, 8. N. H.—11, 14. June 14–Aug. 15.

MASS.—23, 27, 32. Aug. 7–23.

**A. leucostoma** Loew.

ME.—4, 7, 8. N. H.—11, 14. VT.—16, 18, 20. June 10–July 26.

MASS.—23, 24, 27, 32. R. I.—33. June 22–Aug. 25.

**A. minor** Malloch, 21–312.

ME.—4, 5, 8. N. H.—11, 14. VT.—16. June 16–Aug. 18.

MASS.—23, 24, 27. R. I.—33. June 26–Sept. 22.

**Stegana** Meigen.

**S. coleoptrata** Scopoli.

ME.—Mt. Desert, July 10–26. N. H.—Bretton Woods, June 24; Jaffrey, June 20. VT.—Norwich, July 8.

**S. curvipennis** (Fallen) (*S. vittata* Coquillett).

VT.—22. July 15.

MASS.—27, 32. R. I.—33. CONN.—35. June 10–21.

*Clastopteromyia* Malloch, 24-31.

**C. inversa** (Walker) (*Drosophila inversa* Walker).

N. H.—11, 12. July 7.

MASS.—26, 27. CONN.—35. July 23-Oct. 18.

The larva of this species lives in the "spittle" of leaf-hoppers.

*Mycodrosophila* Oldenberg.

**M. dimidiata** (Loew).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—Woods Hole (*Sturtevant*).

*Chymomyza* Czerny.

**C. amoena** (Loew).

ME.—6, 8, 10. N. H.—11, 12, 15. VT.—16, 22. June 23-July 18.

MASS.—23, 25, 27, 29, 32. R. I.—33. CONN.—35. May 28-Oct. 16.

**C. procnemis** Williston.

N. H.—Franconia and Mt. Washington (*Mrs. Slosson*).

*Leucopheenga* Mik.

**L. maculosa** Coquillett.

MASS.—Woods Hole, Sept. 16 (*Sturtevant*).

**L. varia** Walker.

MASS.—Woods Hole (*Sturtevant*). R. I.—Buttonwoods, July 25.

*Drosophila* Fallen.

**D. affinis** Sturtevant, 16-334.

N. H.—Mt. Washington (*Mrs. Slosson*); Hanover.

MASS.—Beverly (*E. Burgess*); Woods Hole (*Sturtevant*). CONN.—.

**D. busckii** Coquillett.

ME.—6. N. H.—14, 15. Sept. 17-Nov. 9.

MASS.—27, 29, 32. CONN.—35. Mar. 1-Oct. 15.

**D. colorata** Walker (*D. sulcata* Sturtevant, 16-330).

N. H.—11, 12, 14. VT.—22. June 24-July 14.

MASS.—23. May 26-Aug. 9.

**D. funebris** (Fabricius).

ME.—6, 8, 9. N. H.—11, 12, 15. VT.—19, 20. Apr. 17-Nov. 14.

MASS.—23, 24, 25, 26, 29, 32. CONN.—35. Mar. 28-Oct. 21.

**D. hydei** Sturtevant, 21-101.

MASS.—Boston, Oct. 11-27, 1913; Woods Hole, Sept. 10, 1913 (*Sturtevant*). R. I.—Providence, Sept. 14, 1904 (*Davis*).

**D. immigrans** Sturtevant, 21-83 (*D. tripunctata* Sturtevant, not Loew).

MASS.—Woods Hole, June 7, 1913 (*Sturtevant*); New Bedford; Attleboro.

**D. melanica** Sturtevant, 16-332.

ME.—7. N. H.—11. July 22.

MASS.—23, 27, 28, 29. R. I.—33. July 28-Oct. 21.

**D. melanogaster** Meigen (*D. ampelophila* Loew).

ME.—6, 10. N. H.—12, 14, 15. VT.—21, 22. July 15-Oct. 3.

MASS.—23, 24, 25, 26, 27, 28, 29, 32. R. I.—33. CONN.—35.

June 17-Oct. 16.

**D. ordinaria** Coquillett.

N. H.—White Mts. (*Morrison*).

MASS.—Chester, Aug. 5.

**D. putrida** Sturtevant, 16-339.

MASS.—Woods Hole, Sept. 2, 1914 (*Sturtevant*); Auburndale, Oct. 1.

**D. quinaria** Loew.

ME.—4. N. H.—11, 12, 15. VT.—16, 22. June 23-Aug. 5.

MASS.—23, 27, 28, 29, 30, 32. R. I.—33. CONN.—35. May 22-Oct. 21.

**D. repleta** Wollaston (*D. punctulata* Loew).

MASS.—Boston, Sept. 10, Oct. 11; Fall River, Nov. 4 (*Easton*); Woods Hole (*Sturtevant*).

**D. robusta** Sturtevant, 16-331.

N. H.—Hanover.

MASS.—Woods Hole, Sept. 17, 1915 (*Sturtevant*).

**D. simulans** Sturtevant, 19-153.

N. H.—Randolph (*Miss H. Daniels*).

**D. transversus** Fallen.

ME.—2, 4, 7, 8. N. H.—11, 12, 13, 14. VT.—16, 22. June 20—Nov. 4.

MASS.—23, 27, 29, 32. R. I.—33. CONN.—35. May 23—Nov. 15.

*Scaptomyza* Hardy.

**S. adusta** (Loew).

ME.— N. H.— VT.—.

MASS.—29, 30, 32. CONN.—35. Aug. 4—Nov. 9.

**S. graminum** (Fallen).

ME.—7, 8, 10. N. H.—11, 12, 15. VT.—20. July 7-Oct. 29.

MASS.—23, 27, 28, 29. R. I.—33. CONN.—35. Apr. 16—Oct. 18.

**S. terminalis** (Loew) (*Drosophila apicata* Thomson).

N. H.—Mt. Washington (*Mrs. Slosson*); Glen House, June 11, 1916.

## Curtonotum Macquart.

**C. helvum** (Loew).

Vt.—22. July 15.

MASS.—26, 27, 28, 29, 31. R. I.—33. CONN.—34. July 25—  
Aug. 22.

## Leiomysa Macquart.

**L. slossonae** Aldrich, 19–140.N. H.—Franconia (*Mrs. Slosson*).

## Periscelis Loew.

**P. annulata** (Fallen).MASS.—Woods Hole, June, on sap of an oak (*Sturtevant*).

## Aulacigaster Macquart.

**A. leucopeza** (Meigen) (*A. rufitarsis* Macquart).

N. H.—Hanover; Jaffrey, June 18, 1923.

MASS.—Norwood, Apr. 20 (*Reiff*); Bedford, June 23 (*Barber*);  
Woods Hole (*Sturtevant*).

## ASTEIIDAE.

**Asteia** Meigen.**A. beata** Aldrich.

ME.—Southwest Harbor, Mt. Desert, July 13, 1910.

MASS.—Chester, Aug. 6, 1914.

## Sigaloëssa Coquillett.

**S. flaveola** Coquillett.

N. H.—Franconia.

MASS.—Boston, Sept. 23.

## GEOMYZIDAE.

**Geomysa** Fallen (*Balioptera* Loew).**G. subdola** Johnson, 22–15.

VT.—Dummerston, July 14, 1908.

MASS.—Manomet, July 27, 1905; Auburndale, Aug. 16; Rutland,  
July 9.

## Diastata Meigen.

**D. nebulosa** (Fallen).N. H.—Franconia; Hampton, June 3 (*Shaw*).MASS.—Wellesley, Mar. 27 (*Morse*); Medford, Sept. 14 (*Barber*).  
CONN.—New Haven, Oct. 31.**D. repleta** (Walker) (*D. pulchra* Loew). See Sturtevant, 23–4.  
ME.—Orono, June 5; Mt. Desert, July 8. N. H.—Hampton,  
May 17 (*Shaw*); Durham.MASS.—Woods Hole, June–Sept. (*Sturtevant*).**D. vagans** Loew.

ME.—1, 2, 4, 8, 9. N. H.—11. VT.—20. June 20–Sept. 9.

MASS.—23, 25. June 15–Sept. 20.

**D. modesta** Melander, 13-290.

N. H.—Summit of Mt. Washington, June 30, 1913.

Cyamops Melander, 13-291.

**C. nebulosa** Melander, 13-292.

ME.—Salisbury Cove, Mt. Desert, July 13, 1923.

MASS.—Woods Hole, July 7, 1902 (*Melander*); Middleboro, July 28 (*Sturtevant*); Woburn, July 11 (*Barlow*).

Ischnomyia Loew.

**I. spinosa** Hendel, 11-45.

Vt.—Norwich, July 7, 1908.

MASS.—Chester, Aug. 5; Brookline, July 4. R. I.—Buttonwoods, June 22.

Anthomyza Fallen.

**A. gracilis** Fallen.

ME.—6, 8. N. H.—14. Vt.—16, 21. June 19-Aug. 21.

**A. tenuis** (Loew).

ME.—4, 8. N. H.—11, 12, 14. Vt.—16, 18. June 15-Aug. 12.  
MASS.—

**A. variegata** (Loew).

ME.—Capens, July 20; Mt. Desert, Aug. 12. N. H.—Hanover,  
Aug. 3 (*Sturtevant*).

MASS.—Manomet, July 27; Woods Hole, July (*Sturtevant*).

Mumetopia Melander, 13-293.

**M. occipitalis** Melander, 13-294.

MASS.—Woods Hole, July—Sept. (*Sturtevant*).

**M. terminalis** Loew (*M. nitens* Melander, 13-294, ♂).

ME.—Mt. Desert, July 17. N. H.—White Mts.

MASS.—Woods Hole, July 16, 1902 (*Melander*); Bashbush Falls,  
June 27.

Trixoscelis Rondani (*Parodinia* Coquillett).

**T. cinerea** Coquillett (*T. prima* Hendel, 11-43).

N. H.—Claremont, type locality for *T. prima*.

Tethina Haliday.

**T. albula** (Loew).

MASS.—Chatham, July 1; Edgartown, June 29; Wollaston, Sept.  
5; New Bedford (*Hough*); Muskeget Isl., July 12 (*Brooks*).

**T. parvula** (Loew) (*Rhicnoëssa whitmani* Melander, 13-289).

ME.—10, Orr's Isl., July 24, 1907.

MASS.—26, 27, 28, 29, 30. July 8—Sept. 5.

*Pelomyia* Williston.

**P. mallochi** Sturtevant, 23-7 (*T ethina parvula* of authors, not Loew.)

ME.—“Narrows,” Mt. Desert, June 9. N. H.—Hampton, May 18 (*Shaw*).

MASS.—North Falmouth, July 22; Woods Hole; Naushon Isl. (*Sturtevant*); Ipswich, Aug. 2 (*Fuller*); Barnstable, July 5.

CONN.—Rowayton, Aug. 9.

*Chiromyia* R.-Desvoidy (*Scyphella* R.-Desvoidy).**C. flava** (Linné).

ME.—6, 7, 8. N. H.—11, 12. July 4-27.

MASS.—26, 27, 29. June 5-Aug. 3.

## MILICHIIDAE.

*Pholeomyia* Bilimek.**P. indecora** (Loew).

ME.—4, 6, 7, 8, 10. N. H.—11, 12, 15. VT.—21. June 18-Aug. 16.

MASS.—26, 29, 32. R. I.—33. CONN.—35. June 16-Aug. 4.

*Milichiella* Giglio-Tos.**M. arcuata** (Loew).

ME.—8. N. H.—11, 15. VT.—21. June 18-July 13.

MASS.—29. June 8-Aug. 6.

**M. lacteipennis** Loew.

MASS.—26, 27, 29, 32. R. I.—33. June 17-Aug. 20.

*Eusiphona* Coquillett.**E. mira** Coquillett.

ME.—Salisbury Cove, July 15. N. H.—Hanover, July 4 and 6, 1908; Peterboro, Sept. 1 (*C. F. Batchelder*).

R. I.—Buttonwoods, June 21.

*Paramyia* Williston.**P. nitens** (Loew).

ME.—Mt. Desert, July 30 (*McAtee*). N. H.—White Mts., July.

MASS.—Woods Hole, Aug. (*Sturtevant*).

*Phyllomyza* Fallen.**P. securicornis** Fallen.

ME.—Orr’s Island, July 25, 1907. N. H.—Hanover, July 4.

MASS.—Beverly, Oct. 9; Auburndale, Aug. 2; Woods Hole, July 23.

*Desmometopa* Loew.**D. latipes** (Meigen).

ME.—6, 8, 10. N. H.—11, 12, 13, 14, 15. June 4-Sept. 10.

MASS.—27, 29, 32. R. I.—33. CONN.—35. May 24-Oct. 16.

**D. m-nigrum** (Zetterstedt).

ME.—1. N. H.—12, 13, 15. July 4—Sept. 10.

MASS.—26, 27, 32. R. I.—33. CONN.—34, 35. May 7—Oct. 16.

**D. sordidum** (Fallen).

ME.—4, 6, 8, 10. N. H.—12, 14. June 4—Aug. 1.

MASS.—25, 27. R. I.—33. CONN.—35. May 30—Aug. 4.

**D. tarsalis** Loew.

MASS.—Boston, June 22.

Mallochiella Melander, 13—169 (*Madiza* of authors).

**M. glabra** (Fallen).

ME.—4, 6, 8, 9, 10. N. H.—12, 15. VT.—21. July 6—Aug. 14.

MASS.—23, 24, 26, 27, 29, 32. R. I.—33. CONN.—34, 35. Apr. 26—Sept. 26.

**M. halteralis** (Coquillett).

MASS.—26, 27, 28, 29, 30, 31. R. I.—33. May 30—Aug. 8.

Meoneura Rondani.

**M. vagans** (Fallen).

ME.—Orr's Isl., July 26, 1907.

MASS.—Boston, July 4 and Aug. 7; Cambridge; Woods Hole, July 30 (*Sturtevant*).

#### OCHTHOPHILIDAE.

Ochthiphila Fallen.

**O. aridella** Fallen.

ME.—Mt. Desert, June 9—Aug. 21.

MASS.—Gloucester, May 22; Groton, July 8; Wellesley, May 12 (Morse); Framingham, May 28.

**O. geniculata** Zetterstedt.

N. H.—Glen House, June 14. VT.—Bennington, June 19.

MASS.—Gloucester, May 22; Danvers, May 16.

**O. juncorum** Fallen.

ME.—7, 8. N. H.—11. June 10—Aug. 11.

MASS.—23, 27. May 10—June 8.

**O. maritima** Zetterstedt.

CONN.—Rockville, Aug. 23, 1905 (*Viereck*).

**O. polystigma** Meigen.

ME.—8. N. H.—11, 14, 15. June 14—Aug. 22.

MASS.—23, 24, 25, 26, 27, 29, 30, 32. R. I.—33. CONN.—34, 35. May 22—July 24.

## Chamaemyia Panzer.

**C. elegans** Panzer.

ME.—Sugar Isl., Moosehead Lake, July 14; Salisbury Cove, July 15, 1922.

MASS.—Wellesley, May 31, 1922 (*Morse*); North Reading, June 10. CONN.—Westville, May 16 (*Britton*).

## Leucopis Meigen.

**L. maculata** Thompson.

ME.—Machias, July 17, 1909.

**L. nigricornis** Egger.

ME.—4, 7, 8. N. H.—13. June 10—Aug. 21.

MASS.—23, 27, 29, 30. R. I.—33. CONN.—35. June 11—Aug. 16.

**L. simplex** Loew.

ME.—7. N. H.—11. July 10.

MASS.—23, 24, 27, 32. Apr. 22—Aug. 10.

## AGROMYZIDAE.

## Odinia R.-Desvoidy.

**O. maculata** (Meigen).

MASS.—Cambridge, June 11, 1908.

**O. picta** Loew.

CONN.—Branford, June 23.

## Traganops Coquillett.

**T. irrorata** Coquillett.

MASS.—Fall River, July 11, 1916, on fermenting sap of red oak; Woods Hole and Naushon Isl., July (*Sturtevant*).

Agromyza Fallen.<sup>1</sup>**A. aeneiventris** Fallen.

ME.—8. N. H.—11, 12, 14, 15. VT.—16. June 4—Sept. 25.

MASS.—23, 26, 27. R. I.—33. CONN.—35. May 22—Sept. 4.

**A. aceris** Greene, 17—313.

R. I.—Buttonwoods, June 18, 1912.

A cambium miner in maple.

**A. ambigua** Fallen (*A. neptis* Loew).

N. H.—Franconia (*Mrs. Slosson*).

MASS.—New Bedford (*Hough*).

<sup>1</sup>Until the American species have been more thoroughly studied it seems inadvisable to separate the species into the several genera proposed by Hendel in 1920. The synonymy, in part, is that given by Hendel.

**A. amelanchieris** Greene, 17-316.

N. H.—Hampton, May 21, 1921 (*Shaw*).

R. I.—Kingston, June 16, 1909 (*Barlow*).

A cambium miner of the Shadbush (*Amelanchier canadensis*).

**A. artemisiae** Kaltenbach (*A. jucunda* Van der Wulp; *A. platyptera* Thompson; *A. malvae* Burgess).

ME.—6, 8. N. H.—11, 12, 15. June 27-July 11.

MASS.—23, 25, 26, 27, 29, 32. R. I.—33. CONN.—June 30-Sept. 4.

**A. atra** Meigen (*A. angulata* Loew).

ME.—6, 8. VT.—16. June 23-July 11.

MASS.—26, 27, 29. CONN.—35. June 10-July 23.

**A. bellidis** Kaltenbach.

N. H.—Base Station, Mt. Washington, June 27.

MASS.—Mt. Greylock, July 25; Walpole, May 26.

**A. burgessi** Malloch, 13-323.

MASS.—*Beverly*, June 2, 1876 (*E. Burgess*).

**A. canadensis** Malloch, 13-299.

VT.—St. Albans, June 21, 1913.

**A. citreifrons**, Malloch, 13-290.

ME.—*Princeton*, July 12, 1909. VT.—Norwich, July 7, 1908.

**A. curvipalpis** Zetterstedt.

MASS.—Sharon, May 26; Woods Hole (*Melander*, 13-267 and 251).

**A. diversa** Johnson, 22-26.

VT.—*Dummerston*, July 14, 1908.

MASS.—*Chester*, Aug. 7, 1912.

**A. dubitata** Malloch, 13-311.

MASS.—*Beverly*, July 19, 1869 (*E. Burgess*).

**A. genualis** Melander, 13-261 (*A. coloradensis* Malloch, 13-297).

ME.—Eastport, July 14; Machias, July 14; Mt. Desert, July 15.

MASS.—Gloucester, July 8.

**A. lateralis** Macquart (*A. coquilletti*, Malloch, 13-295).

ME.—8. N. H.—12. VT.—20. July 3-18.

MASS.—26, 27, 30. May 28-July 8.

**A. longipennis** Loew.

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Chester, Aug. 9, 1912.

**A. marginata** Loew.

MASS.—Horse Neck Beach, Aug. 5 (*Hough*); Beverly, May 28 and Aug. 28 (*Burgess*); Auburndale, May 7; Eastham, June 27.

**A. melampyga** Loew (*A. flaviventris* Johnson).

ME.—7, 8. N. H.—11, 14. VT.—16, 20, 21. June 5—July 15.  
MASS.—23, 26, 27, 28, 29. CONN.—35. June 19—Aug. 16.

**A. morosa** Meigen (*A. luctuosa* Meigen; *A. lateralla* Zetterstedt;  
*A. magnicornis* Loew).

ME.—8. N. H.—11, 12, 14. VT.—20. June 7—Aug. 8.  
MASS.—23, 25, 26, 27. CONN.—35. May 16—Aug. 7.

The larvae form galls on the leaves of Iris; see Thompson, 13—17, and Claasen 18—9.

**A. nasuta** Melander, 13—260 (*A. madizina* Hendel, see Malloch,  
24—192).

ME.—Mt. Desert, July 30, on flowers (*McAtee*).

**A. pacifica** Melander, 13—264 (*A. longipennis* Malloch, 13—276).

MASS.—Auburndale, Aug. 16; Brookline, Aug. 23. CONN.—  
Middletown, June 17.

**A. parvicornis** Loew.

ME.—7, 8. N. H.—12, 15. VT.—20. June 23—29.

MASS.—24, 27, 29. CONN.—35. June 15—Aug. 2.

**A. perpusilla** Meigen (*Odinia immaculata* Coquillett).

N. H.—Mt. Washington (*Mrs. Slosson*).

**A. posticata** Meigen (*A. terminalis* Coquillett).

ME.—7, 8, 10. N. H.—11, 12, 15. VT.—20, 21, 22. June 22—  
Aug. 4.

MASS.—23, 26, 27, 29, 32. R. I.—33. CONN.—35. June 15—  
Sept. 29.

**A. pruinosa** Coquillett.

MASS.—Dedham, May 20.

A cambium miner in birch, see Greene, 14—471.

**A. pusilla** Meigen (*A. trifolii* Burgess).

ME.—3, 8. N. H.—11, 12, 14. June 15—Sept. 8.

MASS.—26, 27, 29. CONN.—. June 13—Oct. 23.

**A. salicis** Malloch, 13—314.

MASS.—Reading, May 16, 1908, from willow (*Felt*).

**A. schineri** Giraud.

MASS.—Framingham, May 5, 1908, from galls on poplar (*Frost*).

**A. setosa** Loew.

N. H.—Franconia.

MASS.—.

**A. simplex** Loew.

ME.—. N. H.—11. VT.—16. June 23—July 15.

MASS.—26, 27, 28, 29. R. I.—33. CONN.—35. May 30—  
July 8.

**A. subnigripes** Malloch, 13-334 (*A. nigripes* Schiner, not Meigen; see Malloch, 13-286).  
N. H.—Hampton (*Shaw*).

**A. variata** Malloch, 13-277.

ME.—Calais, July 10, 1909; Mt. Desert, July 27, 1919.  
MASS.—East Walpole, May 26; Cohasset, Aug. 19.

**A. virens** Loew.

MASS.—Cambridge.

**A. viridula** Coquillett.

ME.—Mt. Desert, Aug. 17, 1920.

MASS.—Mt. Tom, Sept. 22; Beverly, June 29, 1876 (*Burgess*).

*Cerodontha Rondani*, 1861.

(*Cerodonta* as amended, see Melander, 13-249; Aldrich, 18-63.)

**C. dorsalis** (Loew).

ME.—4. N. H.—11. June 30.

MASS.—24, 26, 27, 32. R. I.—33. CONN.—35. Apr. 19—Nov. 4.

*Napomyza Haliday.*

**N. lateralis** (Fallen).

ME.—Echo Lake, Mt. Desert, July 12, 1918. N. H.—Mt. Washington.

MASS.—Mt. Greylock, June 15.

*Phytomyza Fallen.*

**P. affinis** Fallen.

MASS.—Framingham, May 28.

**P. albiceps** Meigen (*P. bipunctata* Loew).

ME.—Mt. Desert, July 30 (*McAtee*).

MASS.—CONN.—Middletown, June 17.

**P. aquilegiae** Hardy. The Columbine Leaf-miner.

ME.—Mt. Desert, June 20.

MASS.—Boston, June. CONN.—New Haven.

**P. atricornis** Meigen (*P. chrysanthemi* Kowarz, see Hendel, 18 (20)-162). The Margarite Fly.

ME.—2, 4, 8. N. H.—15. June 27-Aug. 4.

MASS.—23, 24, 25, 27, 31. CONN.—35. June 15-July 10.

The larvae mine the leaves of chrysanthemum and margarite (Smulyan, 1914).

**P. bicolor** Coquillett (= *P. abdominalis* Zetterstedt?).

N. H.—Glen House, July 26.

CONN.—Stamford, May 18 (*Sturtevant*).

**P. flavigornis** Zetterstedt.

MASS.—Brookline, July 4.

**P. ilicicola** Loew. The Holly Leaf-miner.

MASS.—.

**P. obscurella** Fallen.

MASS.—Boston, Aug. 7.

### PUPIPARA

#### HIPPOBOSCIDAE.

**Lipoptena** Nitsch.

**L. subulata** Coquillett, 07-290. See Ferris and Cole, 22-187.

N. H.—Woodstock, on deer, Nov., 1905 (*J. P. Long*); Corbin Park, from elk, Sept. 17, and from deer, Sept. 19, 1923 (*T. Barbour and W. S. Brooks*).

MASS.—Naushon Isl., Oct. 25, 1924 (*Bequaert*).

**Ornithoica** Rondani.

**O. confluenta** (Say) (*O. confluens* as emended; Ferris, 24-234).

ME.—Wilson's Mills, Oxford Co., Nov. 4, 1921, from the Canada Jay (*W. S. Brooks*). N. H.—Peterboro, Aug. 11 and 16, 1924, from Song Sparrow (*C. L. Whittle*).

MASS.—Braintree, Sept. 4, 1922, from Crow (*J. D. Smith*).

**Ornithomyia** Latreille.

**O. anchineura** Speiser, 05-348 (*O. pallida* Say, not Latreille; *O. avicularia* (Linné); see Ferris and Cole, 22-199).

ME.—Bar Harbor, July (*Moore*). N. H.—Peterboro, Aug. 11, from Song Sparrow (*C. L. Whittle*). VT.—Woodstock, Aug., 1911, from a young Junco (*A. P. Morse*); Chittenden, Aug. 1 and Aug. 16, from Chipping Sparrow (*Bequaert*).

MASS.—Southbridge, Aug. 18, from Robin (*S. W. Bromley*); Essex, Aug. 29, from Savanna Sparrow (*A. B. Fuller*); Worthington, from Catbird; Chilmark, July 16, from Song Sparrow (*S. Harris*).

**Ornithoctona** Speiser.

**O. erythrocephala** (Leach).

ME.—Two specimens without locality in the collection of the Maine Agricultural Experiment Station. This species has been taken near Montreal and in Quebec on the American Bittern and Pigeon Hawk (see Johnson, 22-84).

**Ornithoponus** Aldrich, 23-77.

**O. americanus** (Leach) (*Olfersia americana* of authors).

ME.—10. N. H.—15. VT.—19. Mar. 29—Apr. 9.

MASS.—26, 27, 28, 29, 32. CONN.—35. Aug. 14—Nov. 1.

Frequents the Barred, Great Horned and Long-eared Owls, Red-shouldered Hawk and Ruffed Grouse (see Johnson, 22-83).

**O. albipennis** (Say) (*Olfersia albipennis* of authors).

MASS.—Boston (Allston), Aug. 1, 1912, from a young Black-crowned Night Heron.

**O. angustifrons** Van der Wulp.

N. H.—Hampton, May 31, 1917 (*Shaw*).

*Olfersia* Wiedemann (*Pseudolfersia* Coquillett).

**O. fumipennis** Sahlberg (*P. maculata* Coquillett).

N. H.—Hampton, May 17, 1905, from Bald Eagle (*S. A. Shaw*).

**Malophagus** Latreille.

**M. ovinus** (Linné). The "Sheep Tick."

ME.—Orono; Mt. Desert. N. H.—Durham.

MASS.—West Newbury; Amherst; Chester. CONN.—Ashford.

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