With the Compliments of
WILLIAM PROCTOR
BIOLOGICAL SURVEY
OF THE
MOUNT DESERT REGION
INCORPORATED

Founded and directed by
WILLIAM PROCTER

PART VII
Being a revision of Parts I and VI
with the addition of 1100 species.

THE INSECT FAUNA
with references to methods of capture, food plants,
the flora and other biological features.

WILLIAM PROCTER, D.Sc.

From the Laboratory of
THE BIOLOGICAL SURVEY OF THE
MOUNT DESERT REGION, INC.
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"Every kingdom, every province, should have its own monographer."

— Gilbert White, Natural History of Selborne, 1879
DEDICATION

This volume is dedicated with gratitude to those who have helped me in its preparation.
ACKNOWLEDGMENTS

I have listed alphabetically the many persons who have shown their interest and kindness in giving me help of many kinds. To them I am profoundly grateful and as mentioned elsewhere I dedicate this volume to them as a mark of my appreciation.

Mrs. J. B. Adams, Dr. C. P. Alexander, Dr. N. Banks, Mr. H. G. Barber, Mr. H. S. Barber, Dr. C. Betten, Dr. M. W. Blackman, Dr. R. E. Blackwelder, Dr. D. J. Borror, Dr. J. C. Bradley, Dr. S. W. Bromley, Mr. L. L. Buchanan, Dr. J. S. Caldwell, Dr. F. M. Carpenter, Dr. O. L. Cartwright, Dr. M. Cazier, Mr. K. F. Chamberlain, Dr. E. A. Chapin, Miss M. B. Cobb, Mr. J. C. Crawford, Dr. E. T. Cresson, Jr., Dr. C. H. Curran, Mr. R. A. Cushman, Dr. P. J. Darlington, Jr., Mr. H. O. Deay, Dr. V. G. Dethier, Dr. H. Dietrich, Dr. R. P. Dow, Dr. H. E. Ewing, Mr. W. S. Fisher, Mr. F. C. Fletcher, Dr. W. T. M. Forbes, Mr. C. A. Frost, Mr. A. B. Gahan, Dr. W. J. Gertsch, Mr. C. T. Greene, Dr. A. P. Gurney, Mr. D. G. Hall, Dr. J. F. Hanson, Dr. H. M. Harris, Dr. H. B. Hungerford, Dr. M. T. James, Dr. C. H. Kennedy, Dr. A. B. Klots, Dr. R. Matheson, Dr. H. Morrison, Dr. H. H. Knight, Dr. P. W. Mason, Dr. J. McDunnough, Dr. C. L. Metcalf, Dr. L. J. Milne, Dr. B. E. Montgomery, Dr. C. F. W. Muesebeck, Dr. P. N. Musgrave, Mr. C. E. Olsen, Mr. P. W. Oman, Mr. V. S. L. Pate, Dr. E. M. Patch, Mr. J. A. G. Rhen, Dr. S. A. Rohwer, Dr. H. Ruckes, Mr. L. M. Russell, Dr. R. I. Sailer, Mr. V. J. Schaffner, Jr., Mr. H. E. Schwarz, Dr. F. R. Shaw, Mr. M. R. Smith, Dr. H. T. Spieth, Dr. A. Stone, Dr. W. R. Sweader, Dr. H. K. Townes, Jr., Dr. J. M. Valentine, Dr. E. M. Walker, Dr. J. R. Watson, Dr. N. Weber, Mr. L. H. Weld, Mr. F. E. Winters. And to the memory of Miss Grace Sandhouse and Miss Edith W. Mank.
Situated on the southern edge of the Boreal region, and the northern line of what is known as the Transitional Zone of the Austral, where the species of the so-called Canadian life-zone meet those from the South, the Island of Mt. Desert furnishes a most fascinating place for the naturalist to study the insect life. A central range of mountains rising from 1000 to 1500 feet forms the backbone of the Island from east to west, with steep cliffs toward the east, more moderate ones toward the west, and to the north and south, gentle slopes which leave a section of a third of the island with an altitude of about 200 feet above sea level in each direction.

This mountain range was cut by the rivers and the ice of the glacial period, which gouged out the great U-shaped valleys of today, and also formed the basins which are now the lakes and the fjord called Somes Sound. The mountains toward the east are polished off and have a vegetation of scrub on the bare granite, while the western mountains are heavily wooded.

In a few words, by studying the geology we find that the lowlands are developed on the rocks of the early Paleozoic and the mountains are the hard Devonian granites, while the great valleys and the lakes result from the glacial action. The other features are due to the earth movement, wind, frost, and the ever eroding action of the beating waves.

Now all of this has no direct bearing upon the insects of today, for the altitude of the mountains is practically eliminated as a factor by the sea, winds, and fogs, but it has a direct bearing upon the flora, and the flora and insect life are merged and interdependent.

I can best give an idea of the flora of the Island by quoting from Part I of the Survey.
Jordan Pond

A Glacial Boulder
One of the most marked characteristics of the island flora is its not only strongly northern, but arctic character. On its coast, enveloped in cold fogs and washed by waters chilled by the arctic currents, it is no wonder that arctic plants like Montia fontana and Stellaria humifusa should find a congenial home. Moreover this character of the flora is shown by the fact that with one exception, Lycopodium selago, the mountain plants descend to the sea level. Neither on the one hand is the altitude of the mountain summits sufficient to develop an alpine flora nor on the other hand is the warmth and general character of the lowlands sufficient to bring many of the plants of the middle temperate region thus far up the coast of Maine. The flora then may be said to be essentially Canadian, having close relations with the very similar flora of New Brunswick. It also shows, apart from its maritime character, many points of resemblance to the general flora of

the White Mountain region. It is in its special problems however, that plant distribution becomes of great interest at Mount Desert."

Prof. M. L. Fernald,² in referring to the diversity of the island flora, says: "The flora of the Mount Desert region is not by any means entirely arctic or subarctic. There we find essentially all of the common plants of the Canadian zone and mingling with them in sheltered nooks and meadows or on warm slopes, many scores of plants which reach their extreme northern or northeastern limit on Mount Desert or the immediate coast — such plants as the Pitch Pine, *Pinus rigida*; the Bear Oak, *Quercus ilicifolia*; the Sweet Pepperbush, *Clethra alnifolia*; the Swamp Loosestrife, *Decodon verticillatus*; the Meadow Beauty, *Rhexia virginica*, and the maple-leaved Viburnum, *Viburnum acerifolium*. This extraordinary accumulation within one small area of the typical plants of the arctic realm, of the Canadian Zone and in many cases of the southern coastal plain, cannot be duplicated at any point known to the writer."

This diversity and the temperature of the Island are aptly pointed out by Mr. Barrington Moore,³ editor of Ecology, who says: "From the forestry point of view I can state that on no area of this size have I seen growing together forests representing such different conditions and consequently with such different requirements. The vegetation in general appears to be even more remarkable than the forests. Rand has found on the Island 230 species of plants common to the arctic. The crowberry (*Empetrum nigrum*) grows here at sea level, while inland at this latitude and even further north it is found only on the summits of the high mountains above timber line under truly arctic alpine conditions, and still the southern sweet fern (*Myrica asplenifolia*) grows here in actual contact with these boreal plants.

An indication of the comparative mildness of the Mt. Desert climate in spite of its arctic flora, is to be found in a group of Japanese pines growing at one of the gateways north of the village of Bar Harbor, a tree so sensitive to cold that it is killed at the latitude of New York, which yet has lived on this island for twenty years without protection in winter."

In the remarks by Rand and Redfield on the plant distribution you will notice that an exception is made of the maritime flora, otherwise there is a "resemblance to the general flora of the White Mountain region." This is, to a large degree, equally true of the insects. The same trees and plants of the two places have the same insect enemies, and these insects in turn serve as hosts for the same parasites. The elevations of the island are not sufficient for the arctic-alpine forms of Mount Washington and the boreal species are more commonly found near the shores and in the vicinity of the lakes, cold spring runs, and bogs, the more sheltered and southern exposures probably harboring the greater number of austral species.

In regard to the distribution of aquatic insects, as pointed out by Dr. R. H. Howe, Jr., cold bogs and ponds that are spring fed have less extremes in temperature than ponds that are not thus supplied with water. Thus he found boreal and austral dragon flies living together in the same pond far beyond their normal limits of distribution. The pond in question had a bottom temperature of 51°F. in summer and 36°F. in winter — a range of only 15°F.

The distribution of most of the maritime insects is governed comparatively little by the corresponding vegetation, although the two frequently show a similar distribution. Temperature and a suitable environment are the principal factors. A low muddy shore with considerable marsh and pools of brackish water has an insect fauna of its own, and it is these species that often show a very wide distribution. To

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the proximity of the ocean with its modifying effect on the climate is apparently due this extension of southern species far beyond their normal habitat. On the other hand, cold currents produce conditions favorable to boreal species. The effect of the ocean on temperature is perhaps best shown at Sable Island. A study of the temperature will show that there are no extremes of heat or cold on the island; that the highest temperature during the past four years was 78° and the lowest point reached by the thermometer during the same period was 5° above zero.

I am prompted to quote the paragraph above for the reason that the island has a great number of wet depressions found where glacial action has been the dominating formative agent. These range from the cedar swamps where the principal tree is arbor vitae to the ones locally called "sunken heath," "bottomless heath," etc., which are spring fed, and larch, spruce and the like dominate, with some maples. Brush such as Myrica gale and rank grasses begin in these.

The Great Heath

The Toad Hole
Approaching sea level; swamps and "heaths" are formed where the water is fresh from the land drainage above or salt from the sea's penetration. Such a place is the bog back of Sea Wall and Great Heath in the northwestern part of the island, which is over 2 miles long and is a mile wide in one place. In these the vegetation is brush such as Myrica gale, Kalmia, and the like, while the floor of all of them is Spagnum. These places yield insects and at the same time, test one's endurance.

Although the Island had attracted the attention of botanists for years, and they had published the results, no one did so in the case of insects before the Survey, with the exception of an interesting page and a half on the tiger beetles. A number of butterflies obtained by various collectors visiting Mount Desert are mentioned in Scudder's great work.

The late Prof. H. C. Fernald and his son, Dr. H. T. Fernald, collected many insects on the Island, which are now in the

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collection of the Massachusetts State College, Amherst, Mass.

In connection with their work on the New England fauna, the New England Society of Natural History, in 1918, selected the Island of Mt. Desert as a place for part of its summer work, this location presenting favorable conditions for a study of insects in relation to life zones, and Mr. Charles W. Johnson, Curator, spent from 10 days to 2 weeks on the Island each summer until 1926. We met and joined forces, which resulted in the publication of Part I of the Survey in 1927. Our intention was to continue the work together as soon as I was through with the first part of the marine work. His passing put an end to that happy association, but left me with the remembrance of one of the best informed and most attractive of naturalists.

LABORATORY

The main laboratory of the Survey is situated at Corfield on Frenchman’s Bay. There, and at Penikese, 5 miles to the westward, light and other traps have been run for several years, from the beginning of May until the end of October. These are not the small traps, but rooms painted white, with glass louvres in the windows, and lights both outside and inside. These lights were changed both as to color and intensity and thus a great number of individuals were taken which, sorted out, yielded many species. Bait traps of different kinds were run constantly at both of these stations as well as at other parts of the Island.

CLASSIFICATION

This volume is a revision of the previous one to which has been added over 1100 additional species together with revi-

*Biological Survey of the Mt. Desert Region Parts II, III, IV, V — The Marine Fauna, etc.
Penikese. The first work ever done on the fauna of the Island was done here.

The Laboratory
sions and the records that the past 8 years of field work and study have produced. It supersedes Part VI in every way.

From experience I believe that a faunal list should avoid any tendency toward being a catalogue and should confine itself to listing the species found with notes as to their habits, host plants, methods of capture and above all to give the proper identifications.

It is the responsibility of the author, and it is a real one, to be sure that the insects are rightly determined, and with that in mind every specimen listed has been passed upon by a specialist whenever there has been any doubt as to its identity. Moreover, all records have been rejected except a few which are known to be authentic and the material may be checked. Practically all of the material has been collected in the past 20 years and is either in the author’s cabinets, in Washington, American Museum of Natural History, or in the collections of well known specialists. All species, with the exception of four from adjacent islands, have been taken on the main Island of Mt. Desert.

An exception is made in the Mallophaga and three species of bird flies (Hippoboscidae). To acquire actual records of these would necessitate shooting a large number of birds, the loss of which would not compensate for the little knowledge gained. As over 80% of the birds are infested by these parasites, a list of the species frequenting the more common birds of the Island can be depended upon to represent the approximate number of species. Through bird banding, considerable progress has been made in acquiring the various species of Mallophaga and some of the entries are already represented by collected material.

The users of Surveys might well be warned that the publication of one or more species as occurring in a region is obviously no proof that those are the only species in that particular group which do occur.

Keeping in mind that a recent date is not of as much importance as the scientific qualifications of the author, I have
thought it best to follow comprehensive works, because it provides uniformity, and to stick to one system until there is a revision of a family available to which students may be referred with confidence.

The Coleoptera follow the Catalogue of the Coleoptera of America, etc. by Charles W. Leng, and many of the specimens have been checked by Mr. C. A. Frost, Mr. K. F. Chamberlain, Mr. H. S. Barber and Mr. W. S. Fisher.

The Diptera are listed according to the Diptera of X. A. by Dr. C. H. Curran, who has determined the greater part of the material and reviewed the manuscript.

Exceptions are made in the Tipulidae, which have all been determined and the manuscript written by my friend, Dr. C. P. Alexander, the mosquitoes, which follow the works of Dr. Robert Matheson, who has kindly advised me, and the Tenebrioidea, which conforms to the recent revision by Dr. Henry R. Townes, Jr., who has revised the manuscript.

The classification of the Arachnida, Acarina, etc. has been brought up to date through the kindness of Dr. W. J. Gertsch, who has determined all of the forms and read the manuscript.

For the Odonata I have used An Annotated List of the Odonata of Maine by Dr. D. J. Borror, Can. Ent., vol. LXXVI, July, 1944.

The catalogue of the Hemiptera of X. A., etc. by E. P. Van Duzee, 1917, has been used for that Order, and the manuscript edited by Dr. R. I. Sailer, of the Bureau of Entomology, etc., Washington, with the exception of the Aphididae, which follows Dr. Edith M. Patch in the Hemiptera of Connecticut State Geological and National History Survey Bulletin 34, 1923. All of the aphid determinations are due to the kindness of Mrs. J. B. Adams of the Laboratory of Plant Pathology, Fredericton, N. B.

Dr. J. B. Watson of the College of Agriculture, University of Florida, has been most kind in determining the thrips, thus making it possible to include them.
The Macrolepidoptera follow the Check List of the Macrolepidoptera of Canada and the U. S. 1938 by Dr. J. McDunnough.

The Microlepidoptera follow the Check List of the Microlepidoptera of Canada and the U. S. 1939 by Dr. J. McDunnough, with the manuscript checked by Dr. A. E. Brower (Br.).

In the Hymenoptera, Dr. C. F. W. Muesebeck has been most kind and interested in getting this Order into proper shape. He has checked the Braconidae, and some of the other families, and arranged for the rest to be done.

The recent publication of the Catalogue of the Neartic Ichneumonidae by Dr. H. K. Townes, Jr. was a happy event, for it permitted a proper listing of that large and important family. Dr. Townes very kindly helped with the synonymy and read the manuscript. He also helped with the sawflies. Dr. V. S. L. Pate helped revise these Families and also revised the Psammocharidae, Sphecidae and Chrysididae.

The abundance of the parasite wasps and the parasitic flies indicates a normal or balanced condition, these insects keeping in check the injurious species. The lady-beetles, lace wings, and syrphid flies, the great enemies of the plant-lice, are also abundant and largely instrumental in keeping these prolific and destructive insects within bounds. The rich insect fauna of Mt. Desert shows that we are still dealing in places with an almost undisturbed ecological condition. That this will not continue is apparent, for the gypsy moth is here and will be a major problem as well as the spruce sawfly, while the "parking" of the woods by removing trees, stumps, etc., will upset the balance still further. Introduced without their parasites and other natural enemies, the only immediate recourse is in spraying with the result that many of our native species disappear, the balance of nature is disturbed and the diversity and beauty of our insect fauna are gone. I shudder when I think of the result from indiscriminate use of D.D.T.

My purpose in making this list is to add to the general knowledge on the insect fauna of a part of the Northeastern section of this country.
## SUMMARY OF INSECTS AND SPIDERS ON MOUNT DESERT ISLAND

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**Totals** | **349** | **2660** | **6578**

### FIELD STATIONS

1. May 20–28 Corfield.
2. June 13–28 Road to Lakewood, old log.
5. June 15–28 Laboratory.
8. June 18–28 Field on Breakneck Road, trap with molasses.
9. June 18–28 Breakneck Road, meat trap.
13. Aug. 27 Traps of cantaloupe at Corfield.
15 Sept. 27 Traps of meat at Penikese.
16 Sept. 24-29 Penikese spruce grove, meat trap 3 feet high, 2 nights after 2 frosts.
17 June 13-27 Meadow on Breakneck Road, sweeping grass, sunny morning.
18 Oct. 8-28 Field east of Town Hill.
19 Oct. 2-28 Field east of Town Hill.
20 June 2-29 Penikese, apple blossoms just past.
21 Oct. 6-28 Patterson porch under cover. Spider webs under roof.
22 June 17-30 Cornfield at light. Locust in bloom, quite warm.
24 July 15-31 Small road off Norway Drive. Warm, beating alder bushes.
27 Aug. 1-31 Road from Long Pd. to Beoch Hill. Raspberry and fern, warm and fair, sweeping.
28 Aug. 15-31 Cor. Middle Rd. and one to Town Hill. Goldenrod, flame flower, asters; heavy growth, cut over; warm.
29 Aug. 22-31 Road Somesville to Indian Point. Cut-over clearing; warm; sweeping.
30 Sept. 8-31 Abel's. Aster and goldenrod in bloom; sweeping.
31 Sept. 8-31 R. of Somesville-Indian Pt. Rd. Goldenrod, aster, cut-over clearing; sweeping.
33 Sept. 18-31 S. W. Harbor ice pond. Under stones at edge of pond.
36 Sept. 10-31 Green Mt. Road. Traps, meat and fish.
38 Aug. 12-31 Bay Shore Drive. Goldenrod, aster; sweeping.
39 Oct. 6-31 Paradise Hill Road top. Ferns, weeds, etc. Dry; sweeping.
40 June 15-32 Road Shea's Cor. to Norway Dr. The beetles were feeding and breeding on bushes. Very warm.
42 June 9-32 Penikese. Beating; the flies were on oak.
44 July 16-32 Road near Witch Hole. Clover, raspberry, bracken, bright and clear; sweeping.
45 Aug. 6-32 Cornfield light. Room at garage from Aug. 4th.
46 Aug. 6-32 Witch Hole. From pads and flowers yellow water lilies.
48 Sept. 30-32 Center trail, Western Mt. Vegetation about dead. Clear and cool.
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50 Sept. 25-29 Fields in Eden. Aster, sweet fern, and the like. Frosted, warm day.
51 July 18-33 Hollow on road to Witch Hole. Spiraea, fern, lupin, alder.
52 July 20-33 Green Mt. summit. Kalmia and bushes. Sweeping warm, sunny A.M.
53 July 19-33 Mt. Road at trail to Bubble Cliffs. Mould in dense woods.
      Meat trap.
54 Sept. 16-29 Somesville. Aster, solidago, fern, sweeping.
55 Sept. 16-29 Field E. side Breakneck Road. Solidago, sweeping.
56 Sept. 27-29 Field Beech Hill opp. Peabody. Potato field under stones.
57 Sept. 27-29 Field Beech Hill opp. Peabody. Potato field under stones.
58 Sept. 27-29 Blueberry field near Bridge. Blueberry after frost. Sweeping.
60 Sept. 16-29 Penikese spruce grove. Meat trap.
61 Sept. 16-29 Side of road Somes Sd. Inlet. Solidago, aster, etc. last stages, sweeping.
62 Sept. 0-29 Gilpatrick Cove. Solidago, aster, raspberry, warm.
66 Aug. 21-29 Sal. Cove back of McFarland's. Milkweed, aster, etc. Light at night.
67 Aug. 16-29 Emery District Heath N. of road. Solidago and aster; warm and clear; sweeping edges.
68 Aug. 20-29 Sal. Cove back of McFarland's Sec. 28. Solidago, aster, etc.
      Sweeping, clear warm A.M.
72 July 27-29 Penikese. Sweeping grass and bushes around edge of field.
73 July 20-29 Road S. W. H. X. McKinley, left side. Sweeping.
74 July 25-38 Witch Hole Br. Rank vegetation in woods. Sweeping for crane
      flies with Alexander and Harrison.
76 May 30-28 Breakneck Rd. before bridge. Grass around pine and spruce logs.
77 May 30-28 Fawn Pond. Dead leaves on bottom.
78 June 1-28 Penikese. Apple blossoms in bloom. Warm and sunny.
79 June 4-28 Breakneck Rd. near pond. Warm, sunny A.M.
80 June 4-28 Lower Breakneck Road. Warm, sunny A.M.
82 June 11-28 Road to Witch Hole. Meat traps.
83 June 11-28 Road to Lake Wood. Sweeping blueberry and low bushes.
84 June 11-28 Field on road to Lake Wood. Sweeping raspberry and grass.
Aug. 20–28  X. E. Branch near mouth. Intertidal, Anarida maritima; not very common, C. H. B.
Sept. 0–28  Sand Beach; sweeping grass, raspberry.
July 16–28  The Hop. Stones and rank grass and gull's nests.
June 23–28  Witch Hole. In grass near meadow.
June 23–28  Near Eagle Lake.
July 7–28  Bay Shore Drive. Warm and sunny; sweeping weeds.
June 12–29  Penikese. Full leaf after apple bloom, beating mostly oak.
July 28–38  Lower Breakneck Pond. Dark A.M., sweeping the bog with Alexander and Harrison.
Aug. 15–38  Hunters Beach Brook, both sides from road to shore.
Sept. 10–28  Fields near Breakneck Dr. Sunny; sweeping.
July 3–28  In jar where Malacosoma were raised.
June 0–28  Town Hill collected June 1st, one-half grown; stopped eating June 30th. Cocoons July 2nd; hatched July 20th.
July 30–28  Corfield in grass.
July 20–28  Corfield around porch.
Sept. 10–28  Morell Park. Solidago, asters, etc.
Sept. 19–28  Abandoned house on Norway Drive, beetle and hymen nest under board.
Sept. 19–28  Morell Park. Solidago, asters, etc.
Sept. 19–28  Near Rhodora Meadow, skating on puddle in road.
Sept. 22–28  Field back of Eden Fair Grounds. Solidago, etc.
Aug. 25–28  Corfield in grass.
June 24–29  Abandoned house Norway Drive, 3 p.m., dark and foggy, sweeping.
July 27–29  Eden at curve; S. side of road, sweeping grass and weeds.
July 4–29  Field S. end Norway Dr. White daisy, paint brush, etc. Cool and windy, bright.
June 26–29  Long Porcupine, breaking up rotten logs, mostly birch.
Aug. 10–28  Long Porcupine under stones when cutting path.
Sept. 25–28  Saw mill ground beyond Indian Point Sec. 15, sweeping various bushes, etc.
June 13–27  Penikese, sweeping meadow, p.m.
125 July 19-33 Hollow on road to Witch Hole. Spirea, lupin, roses, etc. Sunny and warm.
126 July 27-33 Ireson Hill, top where excavated under stones and wood.
128 Sept. 27-32 Paradise Hill road at top, breaking up yellow toadstools.
129 Oct. 5-32 Pond Ireson Hill, spring fed, sweeping with sieve.
130 Oct. 7-32 Edge Gt. Heath beside road, sweeping, warm afternoon.
131 July 14-33 New Mill Pond. Moths on lily pads; beetles in yellow, but not white lilies.
132 July 24-33 Penikese. Lupin, grass, etc. on blossoms.
133 Sept. 24-33 Middle Rd. before branch to Town Hill, on swamp carrot blossoms.
134 Sept. 26-33 Field E. of Middle X Town Hill Rds. sweeping. Warm, sunny.
135 Sept. 29-33 New Mill Meadow, sweeping. Warm, sunny.
137 Sept. 30-33 Pond Ireson Hill, scraping.
138 Aug. 5-33 Green Mt. road, blossoms of spirea mostly.
139 Aug. 5-33 Green Mt. road. Meat trap set for a week.
140 July 15-33 Penikese, sweeping.
141 Aug. 7-33 Filter-beds. Solidago.
142 July 25-33 Green Mt. road. Meat trap set for a week.
143 Aug. 12-33 Road New Mill Meadow X Half Moon Pond, sweeping at side of road.
144 Aug. 15-33 Road Eagle Lake X N. E. H. near drained pond, sweeping, warm P.M.
145 Aug. 15-33 Somesville X Town Hill Rd. N. of brook, sweeping beside road, warm P.M.
146 Aug. 16-33 Path Breakneck Rd. X Fawn Pond. Goldenrod, spirea, etc. Warm, sunny A.M.
147 Aug. 17-33 Witch Hole. Still and warm, boat, white water lilies.
148 Aug. 19-33 New Mill Meadow X Half Moon Pond Rd., Dark, damp day.
150 Aug. 21-33 Sand pit on Sargent Drive — sand, some solidago, netting and digging.
151 Aug. 28-33 Saw Mill ground near Indian Pt. Sec. 15 — sweeping, warm and cloudy.
152 Sept. 6-33 Norway Drive, hollow along brook, beating bushes, overcast, warm P.M.
153 Aug. 31-33 Sand pit on Sargent Drive — meat trap.
154 Sept. 13-33 Western Mt. lower half of Center Trail — aster, alder, fern, beating and sweeping all day.
156 Sept. 14-33 Entrance to Abel’s. Meat trap on burnt-over land.
158 Sept. 23-33 Abandoned farm near Mt. D. X Tremont line. Grove young poplars; beetles swarming.
159 Sept. 23-33 Shore W. of Sea Wall, warm clear A.M. Solidago, aster.
160 Oct. 2-33 Wood road at Marshwood, warm, damp a.m.
161 Oct. 3-33 Pretty Marsh — field of *Hercium*, flying fast and feeding.
162 Oct. 8-33 Lab. at light.
163 Oct. 4-34 Saw mill land Sec. 15 — under bark of old logs.
164 Oct. 2-34 Green Mt. Dike’s Peak — ants flying along side of plantation *Pinus banksiana* (Br.).
165 Apr. 25-36 North end Eagle Lake — first catkins 50% after snow and freezing previous day.
166 Apr. 25-36 Near head Otter Creek, first catkins 50% after snow and freezing previous day.
167 June 4-36 Section 39 — sweeping bushes, etc. Warm a.m.
168 June 6-34 Ireson Hill, top where excavated. Very hot.
169 June 25-34 Abandoned farm Shea’s Cor. X Norway Drive. Grape vines, spirea, warm and sunny.
170 July 3-34 Abandoned farm Shea’s Cor. X. Norway Drive. Spirea. Warm and clear.
171 May-Jun. 37 Ireson Hill. An excavated spot which is stony and wet in the spring.
172 July 31-34 Corfield. Melon bait.
173 Aug. 2-34 Morris Camp. Sec. 31. Spirea, marsh grass, bones, etc., warm sunny a.m.
175 Sept. 1-34 Sec. 28. Sweeping. Clear, cool, solidago, etc.
177 Sept. 3-34 Beginning of Indian Pt. Rd. Solidago, aster. Warm a.m.
178 Aug. 15-34 Brook flowing into Eagle Lake S. W. end. Under stones, brook nearly dry.
179 Aug. 24-34 Robinson Mt. path from W. side, beating bushes, clear and windy.
180 Aug. 12-34 Narrows. Brackish pool, swimming on bottom.
181 Sept. 3-34 Sec. 18, under wet log in brackish swamp.
182 Sept. 3-34 Edge of Gt. Heath. Sec. 11. Weeds and swamp grass.
183 Sept. 3-34 Sec. 15, yellow birch log.
184 Sept. 15-34 Sec. 19. Meadow, sweeping, warm p.m.
185 Sept. 20-34 Middle Rd. beyond Lake Wood Rd. Meat trap.
186 Sept. 1-34 Pool L. side of road before N. E. Branch, scraping bottom and reeds.
187 Aug. 7-34 New Mill Pond, skimming top of water.
188 Aug. 25-27 McKinley swamp near bridge, swamp rushes.
189 Sept. 8-33 Laboratory, swarming on grape, virginia creeper, and actinidae.
190 June 2-35 Eagle Lake to Bubble Br., swamp, cedars, violets, ferns just in leaf, bright, clear.
191 June 6-35 Road Breakneck to Witch Hole and around latter. Trees and ferns just in full leaf. Warm sultry a.m.
192 June 6-35 Same as 191.
193 June 12-35 New Mill Pond, spatterdock just out, wading, hot p.m. Females laying.
<table>
<thead>
<tr>
<th>Date</th>
<th>Observation</th>
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<tbody>
<tr>
<td>194 June 12-35</td>
<td>Witches Hole X Breakneck, sweeping and netting. Warm A.M. after rain.</td>
</tr>
<tr>
<td>196 June 16-35</td>
<td>Breakneck Brook from road to top. Full spring. C. P. C. and Harrison.</td>
</tr>
<tr>
<td>197 June 17-35</td>
<td>Canada Brook. Brook ruined by C. C. C. boys. C. P. A. and Harrison.</td>
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<tr>
<td>198 June 18-35</td>
<td>New Mill Meadow and Witches Hole, flying along road. C. P. A. and Harrison.</td>
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<tr>
<td>199 June 22-35</td>
<td>Somes Sound Inlet; full spring, C. P. A. and Harrison, warm A.M.</td>
</tr>
<tr>
<td>200 June 24-35</td>
<td>Duck Brook, warm, <em>Chauliodes serricornis</em> swarming. C. P. A. and Harrison.</td>
</tr>
<tr>
<td>201 June 28-35</td>
<td>Breakneck Rd. to Witches Hole, full June, damp and warm.</td>
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<tr>
<td>202 June 29-35</td>
<td>Pond beside Indian Pt. X Somesville Rd. Rushes, netting. Very warm P.M.</td>
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<tr>
<td>203 July 2-35</td>
<td>Witches Hole, flying over pond A.M.</td>
</tr>
<tr>
<td>204 July 2-35</td>
<td>New Mill Pond, flying over marsh, A.M.</td>
</tr>
<tr>
<td>205 July 12-35</td>
<td>New Mill Pond, white lilies just out. Collecting Grinidae, also rocks at dam for Dryops.</td>
</tr>
<tr>
<td>206 July 12-35</td>
<td>Witches Hole Creek, heavy and dark, turning stones for Dryops.</td>
</tr>
<tr>
<td>207 July 18-35</td>
<td>Brook from Eagle Lake dam to road.</td>
</tr>
<tr>
<td>208 July 23-35</td>
<td>Section 20. Fern, spirea, grass; very hot and sultry.</td>
</tr>
<tr>
<td>210 July 29-35</td>
<td>Marshwood, sweeping fern, kalmia, bayberry. Warm and clear.</td>
</tr>
<tr>
<td>211 July 30-35</td>
<td>Carriage road Bubble Br. to Chasm Br. Sweeping all day, warm and bright.</td>
</tr>
<tr>
<td>212 July 31-35</td>
<td>Dugout peat swamp on S. W. H. X Seal Cove road. After <em>Dytiscus</em> larvae that were eating trout. Beetles just hatched. With Br.</td>
</tr>
<tr>
<td>213 Aug. 3-35</td>
<td>Path E. from foot of Breakneck Rd. Ferns, grass, swamp wooded.</td>
</tr>
<tr>
<td>214 Aug. 7-35</td>
<td>Seal Cove B. Wild carrot and ferns.</td>
</tr>
<tr>
<td>216 Aug. 24-35</td>
<td>Abel's. Rank and green weeds. Warm and clear.</td>
</tr>
<tr>
<td>218 Sept. 3-35</td>
<td>Deer Br. from Jordan Pond to top. Rock brook with low water, very steep, dense dark woods.</td>
</tr>
<tr>
<td>219 Sept. 11-35</td>
<td>Bay Shore Drive. Solidago, white aster, etc. Clear, sunny.</td>
</tr>
<tr>
<td>220 Sept. 15-35</td>
<td>Cuon Brook from top to bottom. Very dry after drought, moss dead. All specimens taken between 1000 and 800 alt.</td>
</tr>
<tr>
<td>221 Sept. 19-35</td>
<td>Bay Shore Drive. Warm after rain. Sweeping misc.</td>
</tr>
<tr>
<td>222 Sept. 23-35</td>
<td>Brook and cedar swamp at Mt. D. X B. H. line W. side. Ferns, spagnum, etc., clear, temp. 50.</td>
</tr>
<tr>
<td>223 Sept. 24-35</td>
<td>Woods N. S. de M. Spring. Ferns, moss, etc., for crane flies.</td>
</tr>
<tr>
<td>224 Sept. 23-35</td>
<td>Corfield cellar, in fire wood.</td>
</tr>
</tbody>
</table>
225 Oct. 4-35 Inlet of Bubble Pond. Swamp, clear and warm.
229 Oct. 6-35 Breakneck Br. at top. Overcast, sweeping sides; ferns almost gone.
231 Oct. 8-35 Sand Pit Sargent Dr. Sweeping; clear after heavy frost.
232 Oct. 10-35 Duck Brook. Warm day, after frost.
234 Oct. 17-35 Marshwood, sweeping open places after frost.
237 May 25-35 Rhodora Meadow. Warm and bright; Rhodora not yet in bloom; flying.
238 Oct. 1-35 Bubble Brook. Ferns nearly dead; warm and sunny.
239 Oct. 2-35 Woods around Sunken Heath Norway Drive. Ferns drying up. Warm.
241 Apr. 21-34 Old Beaver Dam, Br. From willow catkins.
242 Apr. 21-34 Camp Grounds, Br. From willow catkins.
244 June 18-36 Half Moon Pond. Sweeping shore of pond.
245 June 19-36 Hunters Beach Brook. Sweeping ferns, etc.
246 June 21-36 Corfield. Cantaloupe bait, very rotten.
247 July 2-36 Mouth Bubble Brook. Ferns, blackberry, etc. Warm, sweeping.
248 July 3-36 Small brook near Camp grounds. Ferns, etc. Sweeping for crane flies.
249 July 3-36 Eagle Lake Carry. Ferns and grasses, sweeping along brook.
250 July 16-36 Stanley's at Sea Wall, sweeping mixed. Noon.
251 July 18-36 Mouth Bubble Brook, ferns, sweeping P.M.
253 July 18-36 Tremont X Mt. Desert Line. Woods, stream, A.M.
254 July 15-36 Camp Grounds, sweeping.
256 July 20-36 New Mill Meadow. Spirea, lupin and mixed. Sweeping, warm A.M.
257 July 22-36 Jordan Pond Trail, breaking up rotten white birch logs.
258 July 22-36 New Mill Meadow, mixed, sweeping. Hot A.M.
260 July 28-36 Road near Indian Point on flowers of wild fennel. Warm A.M.
261 July 30-36 Mouth Bubble Brook. Thistle, warm A.M.
262 July 30-36 Hunters Beach. Grass and weeds. P.M.
263 Aug. 4-36 See. 23 beside road. Spirea, warm.
THE MOUNT DESERT REGION

264 Aug. 10-36 Road Witches Hole and Half Moon Pd. Goldenrod. Very hot A.M.

265 Aug. 18-36 Wood road E. of Fenn's entrance. Cut-over and group-up land. Warm and clear.

266 Aug. 21-36 Breakneck Dr., top. Meat traps.

267 Sept. 5-36 Sand Pit, Sargent Dr. Noon to 2 P.M., insect hovering over burrows.

268 Sept. 5-36 Highbrook Road opp. McIntosh. Sweet fern, solidago, aster, A.M., sweeping.

269 Oct. 5-37 McKinley Swamp, with A. E. B., sweeping marsh grass at dusk.

270 Oct. 5-37 Bernard opp. Abel's, sweeping blueberry and scrub. Flat bugs in pine stump.

271 June 6-38 Bald Mt. West side of Island, sweeping blueberry flowers and wild cherry blossoms. P.M.


274 Sept. 10-38 Richardson Brook.

275 Sept. 10-38 Brook at Somesville.

276 Sept. 10-38 Seal Cove Brook.

277 June 23-37 Section 23, fresh cut logs various kinds. Warm A.M.

278 June 23-37 Section 23, beating mixed trees and bushes.

279 July 12-37 Head of Somes Sound, on flowers of Bidens?

280 July 18-37 Lower Breakneck Pond, sweeping bog in P.M.

281 July 28-37 The Tarn, on Nymphaea advena.

282 July 28-37 The Tarn, on Pontederia cordata.

283 July 29-37 Bass Harbor Head, feeding on Spirea sp.

284 Aug. 14-37 Witches Hole Brook, small heavily shaded under stones in roots and moss.


287 Aug. 28-37 Witches Hole Brook, same as 284, but more grass roots.

288 Sept. 19-37 Section 11, sweeping goldenrod and other fall herbage.

289 Sept. 22-37 Newport Meadow, sweeping goldenrod, grass, etc. Clear A.M.


300 Apr. 25-36 Around Breakneck, beating catkins; cold and windy.

301 Apr. 25-36 Lower Breakneck, catkins, cold and windy.

302 May 16-39 Brook from Upper to Lower Breakneck for Gyrinidae. Freezing previous night. Buds just showing.

303 May 17-39 Somes Brook, same conditions as above.

304 May 19-39 Rhodora Meadow. Buds but no leaves.


306 May 24-39 Somes Pond, north shore.

307 May 24-39 Swamp opp. Long Pond, northeast end.

308 May 23-39 Along Middle Road beating catkins. First warm day.

309 May 29-39 Ireson Hill. Wet spot turning stones.
May 30-39 Inlet Lower Breakneck Pond.
May 31-39 Upper Breakneck Pond.
May 31-39 Lower Breakneck Pond. Warm.
May 31-39 Brook between Breakneck Ponds.
June 3-39 Pool at Nurseries. Warm and sunny.
June 3-39 Outlet of Hogdens Pond. Sunny.
June 8-39 Manset ice ponds. Warm.
July 3-39 Small swamp southeast end Jordan Pond.
July 3-39 Upper Breakneck, south end.
July 5-39 Pool at Town Hill. Spring fed 100 yds. square surrounded by Typha.
July 6-39 Northeast end of Long Pond.
July 6-39 Toad Hole Outlet.
July 6-39 Swamp across from northeast end of Long Pond. Flooded and full of brush.
July 12-39 Witches' Hole, north end.
July 12-39 Road Duck Brook to Witches' Hole, sweeping daisies, etc. Warm and clear.
July 13-39 The Tarn, north and east sides.
July 13-39 Seal Harbor Pond.
July 18-39 The Nurseries. Sweeping. Warm a.m.
July 18-39 Newport Meadow. Sweeping.
July 22-39 Newport Meadow. Sweeping.
July 26-39 Northeast end of Long Pond, where road turns to Toad Hole. Ferns in shade.
July 26-39 Toad Hole around edges.
Aug. 3-39 Wood road to Sunken Heath.
Aug. 3-39 Toad Hole.
Aug. 6-39 Road beside Witch Hole Brook.
Aug. 7-39 Witch Hole Brook. Rank grass and ferns.
Aug. 16-39 Round Pond for Gyrinids. Clear a.m.
Aug. 18-39 Little Round Pond for Gyrinids.
Aug. 28-39 Long Pond in boat, northeast end. All beetles in vegetation. Warm a.m.
Aug. 28-39 Long Pond in boat, northwest end. Same as above.


Sept. 1-39 Indian Point. Small pool near road.

Sept. 4-39 The Tarn. South end. Warm P.M.

Sept. 4-39 Hadlock Pond. Small stream with vegetation. Warm P.M.


Sept. 13-39 Long Pond, small shallow bay. Same September clear day.


Sept. 21-39 Toad Hole. Several patches north side.

Sept. 21-39 Reeve Pond. Large numbers Gyrinidae.

June 6-40 Brook between Breaknecks. Clear after many dark days.

Aug. 14-40 The Bowl. All on north side under bushes.


Aug. 16-40 Same as above.

Aug. 21-40 Brook, south of road Section 11 with Alexander, Harrison and Brower. Clear.

Aug. 22-40 Sea Wall Bag with Alexander and Harrison. Clear A.M.

May 29-41 Along Eagle Lake Road. Beating shad bush. Bright afternoon.

June 12-41 Penikese. Sweeping buttercups and daisies just in bloom.

June 13-41 Marsh edge of road Long Pond.

June 13-41 Pools in gravel pit Pretty Marsh Road.

June 13-41 Marsh near Sunken Heath Brook.

June 23-41 Seal Harbor Brook. Cool afternoon.

July 5-41 Brook east of Section 20 with Brower. Brook dry. Beetles in mud.

July 6-41 Great Heath, southeast part. Very dry.

July 7-41 Where Great Heath touches Middle Road. Trees and always shaded.

July 29-41 Same as 383. Very dry. Few beetles.

July 31-41 Great Heath. Many black duck feeding.


Aug. 26-41 Toad Hole Brook. Turning stones for Helmids. Bright A.M.

Sept. 6-41 West road near Mt. Desert line. Cut over land 2 years. Bright after storm.
Sept. 13-41 West road near Tremont line. Spruce stumps 3 years. Bright after 40°.
392
393 July 24-42 Pool at Nurseries. Full of Typha.
394 Aug. 8-42 Great Heath same as 383.
395 Sept. 1-42 Rowed the estuary to bluff at end. Six hours. Over 300 black duck.
396
397 Sept. 1-42 Great Heath in main estuary. Collecting along edges.
399 June 14-43 Hill near Shea’s Corners. Sweeping hillside. Beautiful A.M.
400 June 23-43 Penikese. Beating. Perfect A.M.
401 June 24-43 Gravel pits Salisbury Cove. Poplar sprouts 3 feet high. Warm and clear.
402 Aug. 1-43 Norway Dr., north end in A.M., south end in P.M. with Brower.
403 Oct. 3-43 Opposite Hare Forest. Bright and warm. Asters and fall vegetation.
405 June 14-44 Along Witch Hole Brook. Perfect June morning.
406 June 27-44 Outlet of Bubble Brook. Very warm clear A.M. Blackberry in bloom.
408 July 19-44 Middle Road. Very clear. Bugs in seed heads of rushes.
409 July 31-44 Hill behind Building of Arts. Warm and clear A.M. Beating conifers.
411 Aug. 8-44 Middle Road at Great Heath. Beating dead branches. Beautiful day.
412 Aug. 9-44 Beaver Pond on Norway Drive. Rank herbage.
413 Aug. 29-44 Town Hill cow dung for beetles.
414 Sept. 18-44 Foot of Newport Mountain. Damp spot with rank vegetation.
415 Sept. 23-44 Norway Drive. Sweeping mixed herbage.
416 June 9-45 Bubble Brook. Clear after weeks of dark weather.
417 June 12-45 Breakneck. Sweeping ferns along wood road at foot of hill.
418 June 13-45 The Tarn along brook.
419 June 15-45 Brook at Section 11.
420 June 22-45 Breakneck. Same as 417.

SECTIONS

In order to more clearly define collecting places, I have numbered different sections on the Island, and these are shown by number on map.

1 Corfield
2 North shore of Witch Hole Pond
3 Between main road and Witch Hole Pond
4 Pond at top of Ireson Hill
5 Summit of Green Mountain
6 Northeast Branch creek east of road to bridge
7 Section around 500 ft. level west side Western Mountain
8 Marsh near New Mill Meadow
9 Pretty Marsh Road north of turn
10 Section around Ship Harbor
11 Edge of Great Heath where it touches the Middle road
12 Green Mountain road east of White Cap
13 Sand pit between Sargent Drive and the main road to Northeast Harbor
14 West of West Road opposite Hodgdon Cove
15 Road Town Hill to Indian Point
16 South of Eagle Lake Road west of Eagle Lake
17 Marsh south of road between Southwest Harbor and McKinley
18 Small marsh back of shore near Rumill Island
19 Between Robbins Hill, Moose Island Bar and Reed point
20 Edge of swamp back of Salisbury Cove
21 Breakneck Road at the top
22 Seal Cove — S. W. Harbor road, west of Clark Ridge
23 Somes Sound — Bar Harbor road, N. E. of Somes Sound
24 New Mill Meadow to Half Moon Pond
25 Brook running into Somes Sound north of Bar Harbor X Mt. Desert town line
26 Abandoned farm on road to Norway Drive, south of Shea’s corner
27 Road Indian Pt. to Great Pond opposite Oak Hill
28 Section opposite Penikese
29 Indian Pt. Road to opp. Little Round Pond
30 Norway Drive where altitude is about 200 ft.
31 Morris Camp near Negro Point
32 Section between New Mill Meadow and Breakneck Road
33 Along the Western Road opposite High Head
34 Back of the North end of Eagle Lake
35 Pine Hill on western slope of Western Mt.
36 North of Jordan Pond
37 Area just south of Long Pond
38 Between Sea Wall and The Hio
39 Along road east of Clark Ridge
40 West of Salisbury Cove cross road.
Class INSECTA

Order THYSANURA

Lepismidae

Thermobia Bergroth

T. domestica Pek. Bar Harbor, May 18 (Br.).

Campodeidae

Campodea Westwood

C. fragilis Mein. Various places in damp wood. Bar Harbor, Sept. 26 (Br.).

Order COLLEMBOLA

Poduridae

A. maritima Guer. On sheltered seashore between tide marks. From the extended observations of R. W. Dexter it would appear that this insect is fully as important as a scavenger as any of the larger animals, especially in protected inlets and bays. See Jour. Econ. Ent. 36:(5):797 1943.

Order ORTHOPTERA

In the upland pastures
The 'tettix are calling.
Clicking in the sunlight
As they wing their circling flight.

Blattidae. Cockroaches

Blatta Linnaeus

B. orientalis Linn. In grocery store Bar Harbor.
Blattella Caudell

B. germanica (Linn.). The German Cockroach or Croton Bug is present in very large numbers owing to unsanitary conditions in some places.

Parcoblatta Hebard

P. sp. Found near Forest Service Lab. (Br.) and determined by Rehm. Sept. 17, ’38.

Nyctibora Burmeister

N. laevigata Burm.? Market, S. W. Harbor (Mrs. Palmer). A West Indian species, probably introduced on bananas.

Tettigoniidae. The Long-horned Grasshoppers

Scudderia Stål

S. furcata furcata Brun. Fork-tailed Katydid. Occur generally in small numbers from the tops of the mountains to the low grounds from August to frost. General sweeping of bushes best method.

S. pistillata Brun. Broad-winged or Pistillate Bush Katydid. Distributed like the above with the earliest record June 13.

S. curvicauda borealis R. & H. Northern Curve-tailed or Bush Katydid. Mt. Desert, Aug. 28 (Br.). Scarce.


Neoconocephalus Karney

N. ensiger Harris. The Sword Bearer Conehead. Section 26 (Br.). Scarce.

Orchelimium Servile

O. vulgare Harris. The Meadow Grasshopper. Found in dense vegetation where there is moisture. Sec. 20, Aug. 30 (Dethier).

**Conocephalus Thunberg**


C. brevipennis (Scud.). Short-winged Meadow Grasshopper. Although the juveniles are found in June, the adults were not taken until about August first and from then until frost they are found sparingly.

**Acrididae. The Short-horned Grasshoppers**

**Chloëaltis Harris**


**Orphulella Giglio-Tos**

O. speciosa (Scud.). Pasture Locust. Eden, Aug. 11; Penikese, July 31.

**Chorthippus Fieber**


**Mecostethus Fieber**

M. lineatus (Scud.). Striped Sedge-locust. Meadow near Salisbury Cove; Breakneck Pond, Aug. 9–Sept. 8. Sections 17 and 20. It keeps to wet sedgy meadows where water stands on the ground.

M. gracilis Scud. Northern Sedge-locust. Great Heath; S. W. Harbor; Meadow Brook; Section 16; Shea’s Corner, Aug. 6–Sept. 13.

**Chorthophaga Saussure**

Camnula Stål

C. pellucida (Scud.). Clear-winged Locust. Common in dry upland pastures where there are tufts of grass in August.

Dissosteira Scudder

D. carolina (Linn.). Carolina Locust. Have taken juveniles from under stones and wood July 26 and the adults continue into Sept. Common on bare, sandy ground. Gray to cinnamon color variation.

Circotettix Scudder

C. verruculatus (Kby.). Snapping Locust. Abundant on the top of Green Mt. and so on down, especially on rocky pastures from July to frost.

Podisma Latreille

P. glacialis (Scud.). Wingless Locust. An inhabitant of the moist zone of the mountains and the colder and damper part of the N.E. part of boreal New England. Damp bushy sphagnum bogs are the home of this most interesting animal. Near Witches' Hole (Br.), Sept. 30, '36.

Melanoplus Stål

M. fasciatus (Walk.). Huckleberry or Banded Locust. Bar Harbor, Great Clearing; S. W. Harbor, June 10–Aug. 20.
M. femur-rubrum (DeG.). Red-legged Locust. Aug. and Sept. are the months for these. Sections 16, 17 and 20; Station F173 and F184.
M. bivittatus (Say). Two-striped Locust. Bar Harbor; Narrows; S. W. Harbor, Aug. 13–20; Section 20; Station F38.

M. mancus (Smith). Smith’s Locust. Common on the top of Green Mt., Aug. 17; Bar Harbor, Aug. 18; Sept. 12 (Br.).

Acrydidae. The Grouse or Pygmy Locusts

Nomotettix Morse


Acrydium Geoffroy


A. subulatum (Linn.). Bay Shore Drive, Aug. Not common.

A. subulatum granulatum (Linn.). Bar Harbor, (Br.) May 15–June 27.


Tettigidea

Tettigidae Walker

T. parvipennis (Harr.). Sedge Pygmy Locust. Lives in wet sedgy meadows and must be searched for on one’s hands and knees to be successful. At Station F286, Aug. 21.

Ceutophilus Scudder

C. maculatus Harr. Spotted Cave-cricket. Found in damp places particularly in rotten stumps and under wood in the latter part of year. My records are mostly in Sept. and range from the mountain tops down.
C. neglectus Scud. Yellow Cave-cricket. Mt. Desert, Aug. 8–Sept. 12 (Br.).
C. terrestis Scud. Woodland Cave-cricket. Probably fairly common but hard to find as its habitat is in dense woods. Long Pond, June 20.
C. brevipes Scud. Short-legged Cave-cricket. Bar Harbor (Br.), May 11; Corfield, June 6–Sept. 9 under boards.

**Gryllidae. The Crickets**

**Gryllus Linnaeus**

G. assimilis (Fab.). Common Field-cricket. Common in the fields under stones and around buildings under boards. Earliest record for young is under bark Little Round Pond, July 21.

**Nemobius Serville**

N. fasciatus socius Scud. Found in damp fields where it occurs in numbers at times. Sec. 20, Aug. 30 (Dethier).

**Oecanthus Serville**

O. nigricornis Wlk. Dusky Tree-cricket. Section 15 sweeping goldenrod, etc., Sept. 6 and Sept. 16.
O. quadripunctatus Beut. Four-spotted Tree Cricket. Found in bushy pastures and thickets. Sweeping Solidago opposite Penikese, Aug. 30 (Dethier).
Order NEUROPTERA

Sialidae

Sialis Latreille

S. infumata Newm. Duck Brook; Echo Lake; Long Pond, June 13-20. Critical study by Dr. H. H. Ross has already shown sixteen species grouped previously under this name. See Illinois Natl. Hist. Survey, Vol. 21, Article 23.


Chauliodes Latreille


C. rastricornis Rham. Corfield at light, June 20-Aug. 10. Scarce.

C. serricornis Say. Bar Harbor; Jordan Pond; Echo Lake; Witch Hole (Br.) June 8-July 1.

Note: There is always a large hatch of these on Duck Brook. One occurred when I was there with Dr. Alexander and Mr. Harrison on June 23, 1935. I went up the brook the afternoon before to see if the hatch was on and there was not a single individual in sight. In 1934 it was on July 1 and on June 16 in 1937.

C. pectinicornis Linn. Various places in Aug.

Sisyridae

Sisyrna Burmeister


S. vicaria var. umbrata Needh. S. W. Harbor, Sept. 3 (Alexander).

Climacia McLachlan

C. areolaris Hagen. Robinson Mt., Sept. 2 (Br.).

Symphериobiidae

Symphероbius Banks

S. amiculus Fitch. N. E. Harbor, July 1-Aug. 10 (Minot).
Hemerobidae
Hemerobius Linnaeus

H. conjunctus var. pinidumus Fitch. Laboratory Sept. 13.
H. humuli Linn. N. E. Harbor, July 17 (Minot).
H. marginatus Steph. Echo Lake; Long Pond; Bar Harbor, June 27–Aug. 10.
H. simplex Banks. N. E. Harbor, Sept. 23 (Minot).
H. venustus Banks. N. E. Harbor, July 1–Aug. 29 (Minot).

Borionyia Banks


Micromus Rambur

M. angulatus Steph. S. W. Harbor, June 24.
M. posticus Walk. S. W. Harbor, Aug. 29 (Alexander).

Polystoechotidae
Polystoechotes Burmeister

P. punctatus Fab. One from a collection in Bangor labelled Bar Harbor Aug. 23. A very rare form as far north as this.

Chrysopidae

Chrysopidae

C. nigricornis Burm. Bar Harbor; Eden, July 10–Aug. 11.
C. oculata Say. S. W. Harbor; Eden, June 27–Aug. 22.
BIOLOGICAL SURVEY OF

MELEOMA Fitch

M. signoretti Fitch. Duck Brook; Long Pond; N. E. Harbor (Minot), June 13–Aug. 11.

EREMOCHRYSA Banks

E. hageni Banks. N. E. Harbor, July 13 (Minot).

CONIOPTERYGIDAE

CONIOPTERYX Curtis

C. gidae. Somes Sound Inlet, June 23 (Alexander). Rare.
C. vicina Hagen. Echo Lake, July 12; Bar Harbor, Aug. 11–16 (Br.).

CONWENTZIA Enderlein


Order EPHEMERIDA

EPHEMERIDAE. The May Flies

The proper way to collect this order is to wade up brooks gently sweeping the vegetation on either side, just at dusk, or to work around the edges of ponds at the same time. Whenever there is a strong wind blowing across a pond and a hatch is on, the flies will be carried to the leeward side and often to a considerable distance, and sweeping and examining trunks of trees along the edge of the pond will produce results. Dr. H. T. Spieth tells me that the tendency of the flies when leaving the brook is to go toward the dark, and that the males will go up the side of cliffs to a considerable height.

EPHEMERA LINNAEUS


THE MOUNT DESERT REGION

LEPTOPHLEBIDAE

HABROPHLEBIA Eaton

H. vibrans Needh.  Duck Brook; Bar Harbor, June 18; Duck Brook, July 3 (Spieth).

HABROPHLEBIODES Ulmer

H. americana Banks.  Duck Brook; Bar Harbor, June 13–Aug. 18.

LEPTOLEBIA Westwood

L. cupidus Say.  Bald Mt. evidently blown from Seal Cove Pond, June 6.
L. nebulosus Wlk.  Record of capture lost.
L. sp.

PARALEPTOPHLEBIA Destage

P. debilis Wlk.  Great Heath, Oct. 5 (Br.).
P. mollis Eaton.  Duck Pond, July 3 (Spieth).
P. volitans McD.  Duck Brook, Echo Lake and Ripple Pond outlet, July 3–4 (Spieth).

CHOROTERPES Eaton

C. basalis Banks.  S. W. Harbor (Br.) May.

EPHEMERELLIDAE

EPHEMERELLA Walsh

E. deficiens Morgan.  Duck Brook and Ripple Pond outlet, July 3–4 (Spieth).
E. dorothea Ndm.  June 12 (Br.).
E. funeralis McD.  Witches Hole, June 22.
E. temporalis McD.  Duck Brook, Hulls Cove and Echo Lake, July 3–4 (Spieth).
E. sp.  Bar Harbor, June 7–July 1 (Br.).
CAENIDAE

Caenis Stephens

C. sp. Duck Brook, July 3 (Spieth).

BAETIDAE

Baetis Leach

B. pluto McD. Duck Brook, July 3 (Spieth).
B. pygæmus Hagen. Duck Brook, July 3 (Spieth).
B. sp. Bar Harbor, Aug. 2 (Br.). Duck Brook, July 3 (Spieth).

Callibaetis Eaton

C. americana Banks. The Tarn, May 23–June 4; Bar Harbor, July 8; Great Heath, Aug. 22 (Br.).
C. fluctuans Walsh. Aug. 17 (Br.).

Cloeon Leach

C. rubropictum McD. Echo Lake, July 4 (Spieth).
C. sp. Echo Lake.

Siphlonuridae

Ameletus Eaton

A. ludens Ndm.? Bar Harbor, May 25 (Br.).

Siphlonurus Eaton

S. typicus Eaton (berenice McD.). Bar Harbor, July 6 (Br.).
S. mirus Eaton. Green Mt., June 10 (Br.).
S. quebecensis Prov. June 18 (Br.).
S. sp.
Heptageniidae

Heptagenia Walsh

H. hebe McD. Duck Brook, July 3 (Spieth).

Iron Eaton

I. pleuralis Banks. Bar Harbor, May 17 (Br.).
I. fragilis Morgan. Hulls Cove Brook, July 3 (Spieth).
I. vitrea Wlk. (humeralis Morgan). Duck Brook, July 3 (Spieth).

Stenonema Travel

S. canadense Wlk. Eagle Lake, Sept. 2 (Br.).
S. fuscum Clemens. Bar Harbor, June 15 (Br.).
S. mediopunctatum McD. Bar Harbor, June 13; Duck Brook, July 3 (Spieth).
S. rubromaculatum Clemens. Duck Brook, July 3 (Spieth).
S. rubrum McD. Duck Brook, July 3 (Spieth).
S. tripunctatum Banks. Sept. 5 (Br.).
S. interpunctata. One specimen showing the complex but unidentifiable, Echo Lake, July 4 (Spieth).
S. sp. Duck Brook, July 31.

Order Odonata

Zygoptera

Agrilidae

Agrion Fabricius

A. maculatum Beauvais. Long Pond; Eagle Lake; swamp at Eden; Seal Cove Brook, mating Aug. 7. June 30–Aug. 10.

Lestidae

Lestes Leach

L. congener Hagen. This whole genus prefers marshes and secluded streams to the open ponds. Brook and cedar swamp West Side at Bar Harbor by Mt. Desert line, Sept. 22. Rare.
L. dryas Kirby.  Mt. Desert, 1927 (Johnson).
L. rectangularis Say.  Mt. Desert, 1941 (Ahrens).

**COENAGRIIDAE**

**Argia Rambur**

A. moesta (Hagen).  Long Pond, June 20; Outlet Eagle Lake; Bubble Brook, July 18–20.  Along rocky shores and streams.

**Nehalennia Selys**

N. irene (Hagen).  Flies in secluded places and stays close to home.  Bar Harbor; Witch Hole Pond; S. W. Harbor, Pond beside Indian Point-Somesville Road, June 11–Aug. 10.

**Chromagrion Needham**


**Enallagma Charpentier**

E. aspersum (Hagen).  Somes Pond, Aug. 2.  Ripple Pond and Toad Hole, Aug. 5–21.
E. civile (Hagen).  Another common all summer species.
E. cyathigerum (Charp.). A common widely distributed form.

E. ebrium Hagen. This species travels far from the ponds. Common.


E. hageni (Walsh). A very common form which occurs at times in great abundance from the first of June to the last of August.

E. minusculum Morse. Echo Lake, July 12. Scarce here and no females taken.

E. vesperum Calvert. Mt. Desert, 1941 (Ahrens).

Ischnura Charpentier

I. verticalis (Say). Common from the first of June to September.

Anisoptera

Gomphidae

Hagenius Selys

H. brevistylus Selys. A form that is on brooks. Brook from Toad Hole.

Ophiogomphus Selys

O. rupinsulensis (Walsh). Eagle Lake, 1918 (Howe).

Gomphus Leach


G. (gomphus) spicatus Hagen. Witch Hole Pond; Bar Harbor, June 11–July 30. Same habitat as above.

Dromogomphus Selys

Lanthus Needham

L. albistylus (Hagen). Mt. Desert, 1941 Ahrens.
L. parvulus (Selys). Mt. Desert, 1941 Ahrens.

Aeshnidae

Gomphaeschna Selys

G. furcillata (Say). Prefers to "hawk" along roads adjacent to ponds. Breakneck to Witch Hole road, June 7.
Common.

Basiaeschna Selys

R. janata (Say). Common at New Mill Meadow, Witch Hole and other ponds and streams in early summer.

Boyeria McLachlan

B. vinosa (Say). They fly up and down woodland brooks. Seal Cove Brook, Sept. 8.

Anax Leach


Epiaeschna Hagen

E. heros (Fab.). Mt. Desert, 1941 (Ahrens).

Aeschna Fabricius

A. canadensis Walk. Its habitat is the marsh from June 15. Bar Harbor, Aug. 16.
A. clepsydra Say. Mt. Desert, 1921 (Howe).
A. sichensis Hagen. Sea Wall, 1941 (Ahrens).
Cordulegasteridae

Cordulegaster Leach

C. diastatops (Selys). On all the streams during the warm weather. S. W. Harbor, June 20.

C. maculatus Selys. Another form that patrols streams. Outlet Eagle Lake; Bubble Brook, June 16, July 20.

Cordulidae

Macromia Rambur

N. illinoiensis Walsh. Mt. Desert, 1941 (Ahrens).

Didymops Selys

D. transversa (Say). A wide ranging form that is common on all parts of the island from the middle of June to August.

Tetragonuria Hagen

T. cynosura (Say). Echo Lake, July 12. A strong flying form over ponds.


Helocordulia Needham

H. uhleri (Selys). A bog loving species and flying from June to the end of July.

Somatochlora Selys

S. elongata (Scudder). One specimen taken, Breakneck Rd., June 16, ’35 (Alexander). Rare.

S. forcipata (Scudder). Echo Lake, 1941 (Ahrens).

S. kennedyi Walker. Echo Lake, 1941 (Ahrens).

S. minor (Calvert). Mt. Desert, 1941 (Ahrens).

S. tenebrosa (Say). Mt. Desert, 1941 (Ahrens).

S. walshii (Scudder). Mt. Desert, 1941 (Ahrens).

Cordulia Leach

C. shurtleffi Scudder. These fly around the boggy edges of ponds. Bar Harbor; Witch Hole; June 6–July 29.

Dorocordulia Needham

D. lepida (Hagen). Found around the boggy borders of ponds from the first of June to August.

D. libera (Selys). Same as that above.

Williamsonia Davis


Libellulidae. The Skimmers

Nannothemis Brauer


Celithemis Hagen

C. elisa Hagen. Flies around the edges of ponds. Witch Hole; Hulls Cove, June 15–Aug. 18.

C. martha Will. Taken at Gt. Heath and the Breakneck Ponds, Aug. 15–21.

Libellula Linnaeus

L. (eolibellula) semifasciata Burm. An early from that frequents the brooks.


L. (ladona) julia Uhler. Sea Wall Bog, Aug. 15.

L. (libellula) quadrivittata Linn. June the first to August on ponds as well as brooks.


THE MOUNT DESERT REGION

SYMPETRUM Newman

S. costiferum (Hagen). Bar Harbor, Aug. 18. Not as common as the above.
S. danae (Sulzer). Great Duck Island, 1941 (Ahrens).
S. internum Montgomery (decisum Hagen). A common mid-summer form on ponds with good vegetation. Found on the wet meadows.
S. semicinctum (Say). New Mill Meadow, Aug. 20; Witch Hole, Aug. 15–Sept. 5.

LEUCORRHINIA Brittinger

L. glacialis Hagen. Echo Lake; Beaver Dam; Witch Hole; New Mill Meadow, June 18–July 24.
L. hudsonica (Selys). Canada Brook, June 17; New Mill Meadow, June 18; Witch Hole, July 2; New Mill Pond, July 2.
L. intacta (Hagen). Common from the first of June to August 1.
L. proxima Calvert. Witch Hole Pond; Bar Harbor; New Mill Pond; Indian Point, June 11–July 24.

PANTALA Hagen

P. flavescens (Fab.). A widely distributed species in small numbers all summer.

Order PLECOPTERA

This family is of course collected along brooks. The same brook should be visited at least every ten days during the season so that the hatches of the different genera may be collected.
PERLIDAE. The Stone-flies

PERLA Geoffroy

P. immarginata Say. Duck Brook, Aug. 18.
P. sp. Long Pond, June 15.

ALLOPERLA Banks

A. imbecilla Say. Breakneck Br., Duck Br. Sea Wall Bog, June 16 (Alex.).
A. marginata (Banks). Breakneck Br., June 16 (Alex.).
A. mediana Banks. Bar Harbor, June 14. Echo Lake, June 22. Breakneck Brook, June 16 and Canyon Brook, June 23 (Alex.).
A. pallidula (Banks). Same as above.

CHLOROPERLA Newman


ISOPERLA Banks

I. bilineata Say. Duck Brook; Breakneck Brook, June 16 (Alexander).

PERLINELLA Banks

P. n.sp. Valley Cove, June 19 (Alexander).

ACRONEURIA Pietet

A. pennsylvanica (Rambur). Record of capture lost.
THE MOUNT DESERT REGION

Nemouridae

Nemoura Latreille

N. completa Wlk. Record lost Apr. 13. (Br.).

N. prolongata Clssn. Canyon Br.; Valley Cove, June 19–23 (Alex.).

N. punctipennis Clssn. Canyon Brook, June 23 and Valley Cove, June 19 (Alexander).


N. sinuata Wu. Breakneck Brook, June 16; Canyon Brook, June 23 (Alexander).


N. n.sp. Valley Cove, June 19 and Canyon Brook, June 23 (Alexander).

Leuctra Stephens


L. grandis Bks. Breakneck Brook and Duck Brook, June 16 (Alexander). Reported previously from North Carolina.

L. tenuis Pictet. Duck Brook, Aug. 22.

L. truncata Clssn. Duck Brook, Aug. 22.

L. sp. S. W. Harbor, June 20; Bar Harbor, June 23.

Strophopteryx Fresen

S. (taeniopteryx) fasciata (Burm.). Record of capture lost.

Order CORRODENTIA

Psocidae

Psocus Latreille

P. confraternus Banks. S. W. Harbor; Duck Brook, Aug. 20–Sept. 11.
P. leidyi Aaron. Beach Mt., Sept. 12 (Alexander).
P. quietus Walsh. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).
P. pollutus Walsh. S. W. Harbor; Beach Mt., Aug. 26–Sept. 12 (Alexander).
P. slossonae Banks. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).
P. sp. near slossonae Bks. May be n.sp. In U.S.N.M. Station F340.

Graphopsocus Kolbe


Mesopsocidae

Elipsocus Hagen

E. canadensis Prov. Long Pond; Seal Cove; Bar Harbor, Sept. 7–10.
E. unpunctatus Müll. Station F407.

Philotarsus Kolbe

P. n. sp. (Chapman). S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).
P. sp. Beaten from spruce Station F409. In U.S.N.M.

Perientomidae

Echmepteryx Aaron

E. hageni Pack. Station F287, Aug. 28.
THE MOUNT DESERT REGION

TROCHIDAE

LIPOCELIS Motschulsky

T. divinatorius Müll. On old white birch leaves.

LEPTINOTUS Heyden

L. inquilinus Heyd. Reared from old white birch leaves (Br.) Dec.

CAECILIIDAE

CAECILIUS Curtis


LACIESILLA Westwood

L. sp. Bar Harbor (Br.), Aug. 7.

POLYPSOCUS Hagen


PERIPSOCS Hagen


MYOPSOCIDAE

LICHENOMIMA Enderlein (Myopsocus Hagen)

BIOLOGICAL SURVEY OF

Order MALLOPHAGA

Menoponidae

Menopon Nitzsch

M. abnorme Piaget. Occurs on gallinules.
M. biseratum Piaget. On many gallinaceous birds.
M. cardelis Denny. On the goldfinch.
M. colaptis Durrant. On the flicker.
M. crocatum Nitz. On American woodcock and others.
M. expansum. Osb. Occurs on bobolink.
M. gallinæ Linn. Common chicken louse.
M. hirsutum. Carr. & Shull. Carried by downy woodpecker.
M. interruptus Osb. Infests the crow.
M. leucoxanthum Nietz. On black duck.
M. longicephalum Kell. Carried by pigeon.
M. pachypus Piaget. Described from tern (Sterna hirundo).
M. pallidum Nitz. The hen louse of domestic fowls.
M. pustulatum Nitz. On the gannet.
M. ridibundum Denny. On many gulls.
M. stramineum Nitz. Infests domestic fowls.
M. tridens Nitz. On coots and others.
M. sp. On dickyissel, chiaadee and others.

Colpocephalum Nitzsch

C. dolium. Rudow. Described from grebe.
C. flavescens Nitz. Found on many hawks.
C. fuscipes Piaget. Infests various gulls.
C. hallaetii Denny. Found on the osprey.
C. lari Pack. Described from great black-backed gull.
C. laticeps Kell. Found on herons and bittern.
C. nyctarde Denny. Same as above.
C. ochraceum Nitz. On pectoral and other sandpipers.
C. ocularis Carr & Shull. On ruddy turnstone.
C. piceum Denny. Found on great black-backed gull.
C. pustulosum Piaget. Infests belted kingfisher.
C. quadrimaculatum Carr. Infests red crossbill.
C. subaequale Nitz. Infests crows.
C. subpachygaster Piaget. Occurs on great horned owl.
C. subpustulatum Carr. & Shull. Described from kingfisher.
C. turbinatum Denny. Occurs on pigeons.

Myrsidea Waterston

M. americana Kell. On common crow.
M. crassipes Piaget. Occurs on Baltimore oriole.
M. cucullaris Nitz. On the starling.
M. dissimilis Kell. On tree and barn swallows.
M. gonophaea Nitz. Occurs on the raven.
M. incerta Kell. Occurs on various passerines.
M. interrupta Osb. Found on common crow.
M. melanorum Kell. Described from towhee.
M. major Piaget. Described from snowflake.
M. subaequalis Lyonet. Infests crows and hawks.

Tetrophthalmus Grosse

T. incompositus Kell & Chap. On double crested cormorant.

Dennys Neumann

D. dubius Kell. Described from chimney swift.
D. truncatus Olfers. Also from chimney swift.

Trinoton Nitzsch

T. lituratum Nitz. On merganser and other waterfowl.
T. minus Osb. Described from scooter.
T. querquedulae Linn. On domestic duck and also wild.

Pseudomenopon Mjöberg

P. pacificum Kell. Found on grebes and coot.
P. tridens. Record of capture lost.
LAEMOBOTHRIIDAE

LAEMOBOTHRION Nitzsch

L. nigrum Burm. Occurs on coots.
L. tinunculi Linn. Occurs on many hawks.
L. titan Piaget. Found on eagles.

RICINIDAE

RICINIS DeGeer

R. angulatus Kell. Described from kingbird.
R. arcuatus Kell. & Mann. Also from above.
R. frenatus Nitz. Described from golden crowned kinglet.
R. hastatus Osb. A collection from junco.
R. leptosomus Carr. Occurs on kingbird.
R. lineatus Osb. On ruby throated hummingbird.
R. merulae Durrant. A collection from robin.
R. picturatus Carr. Occurs on warblers.
R. titoracicus Pack. Described from snowflake.

TRICHODECTIDAE

TRICHODECTES Nitzsch

T. bovis Linn. Occurs on cattle.
T. canis DeGeer. Occurs on dogs.
T. castoris Osb. Occurs on beaver.
T. equi Linn. Occurs on horses.
T. mephitidis Pack. Described from skunk.
T. ovis Linn. Occurs on sheep.
T. parallelus Osb. Occurs on deer. Large lots from some deer.
T. quadraticeps Chap. Described from raccoon.
T. subrostratus Nitz. Numerous on cats.
T. vulpis Denny. Occurs on the fox.

PHILOPTERIDAE

GONIODES Nitzsch

G. damicornis Nitz. Occurs on pigeon.
G. tetraonis Linn. Occurs on grouse. Two lots from Bar Harbor (Br.).
Goniocotes Burmeister

G. bidentatus Scop. Infests pigeons.
G. gigas Tasch. Occurs on hen and guinea fowl.
G. hologaster Nitz. Called the Lesser Chicken Louse.

Lipeurus Nitzsch

L. caponis Linn. The Variable Chicken Louse.
L. heterographus Nitz. Chicken Head Louse.

Philopterus Nitzsch

P. agelaii Osb. Described from red wing blackbird.
P. alienus Kell. Occurs on flicker.
P. auritus Scop. On the hairy woodpecker.
P. bisetosus Piaget. On red-breasted merganser.
P. bubonis Osb. On the great horned owl.
P. buteonis Pack. On the red-shouldered hawk.
P. calvus Kell. On murrens. A lot from Brunnich’s murre (Br.).
P. cebrebrachys Nitz. On the snowy owl.
P. colymbinus Denny. On common loon.
P. corvi Osb. On the crow.
P. cursor Nitz. Occurs on many owls.
P. dentatus Scop. On many kinds of ducks.
P. distinctus Kell. On the American raven.
P. evagans Kell. On the downy woodpecker.
P. fuscoventralis Osb. Described from woodpeckers.
P. fusiformis Drury. Infests knot and sandpipers.
P. gonothorax Giebel. On herring gull, loon and grebes.
P. graviceps Kell. Occurs on coot.
P. halieti Osb. On bald eagle, Bar Harbor (Br.).
P. incisus Kell. On bluebird and cedar waxwing.
P. jugens Kell. Occurs on the flicker.
P. major Waterston. Occurs on Wilson’s snipe.
P. melanocephalus Nitz. Infests terns.
P. merguli Denny. Infests dovkie. Two lots from lower end of Island (Br.).
P. migratorii Peters. On the robin.
P. mirinotatus Kell. & Chap. On the junco.
P. monachus Kell. & Paine. Described from rail.
P. naevius Giebel. On the golden eagle.
P. nudipes Piaget. On the barn owl.
P. platysomus Nitz. Found on sharp-shinned and other hawks.
P. procax Kell. & Chap. Occurs on guillemot.
P. pustulosus Nitz. Occurs on parasitic jaeger.
P. quadraticeps Kell. Occurs on coot.
P. quiscali Osb. On the crows.
P. reguli Denny. On kinglets.
P. rostratus Nitz. Described from bluebird.
P. sialis Osb. Infests bluebirds as name indicates.
P. subflavescens Geof. On many perching birds. From a purple finch and white-throated sparrow (Br.).
P. superciliosus Nitz. Recorded from downy and other woodpeckers.
P. symii Pack. On the barred owl.
P. temporalus Giebel. On many shore birds.
P. transpositus Kell. Occurs on the cowbird.
P. sp. From the ruffed grouse.

Degeeriella Neumann

D. actophila Kell. & Chap. Described from sanderling.
D. alcaea Denny. Occurs on the dovkie.
D. amblyx Kell. Described from bald eagle.
D. americana Kell. & Chap. Found on grebes.
D. bicolor Piaget. Found on cedar waxwing.
D. brachythorax Giebel. Same as above.
D. cedorum Piaget. Same as above.
D. complexiva Kell. & Chap. Found on sanderling.
D. cyclothorax Nitz. Infests English sparrow.
D. discocephala Nitz. Occurs on bald eagle.
D. domestica Kell. & Chap. Described from barn swallow.
D. _eustigma_ Kell. Found on various warblers.
D. _furvus_ Nitz. Found on yellow legs and others.
D. _fusca_ Nitz. On hawks and eagles.
D. _gulosa_ Nitz. Found on the brown creeper.
D. _illustris_ Kell. Occurs on red-winged blackbird.
D. _latirostris_ Burm. Occurs on black-billed cuckoo.
D. _limbata_ Nitz. Found on the crossbills.
D. _longa_ Kell. Described from eave and other swallows.
D. _magnocephala_ Carr. Described from woodcock.
D. _marginatula_ Harr. Described from piliated woodpecker.
D. _nebulosa_ Burm. Infests starlings and robins.
D. _oculata_ Rudow. On great horned owl.
D. _opaca_ Kell. & Chap. Described from semipalmated plover.
D. _ornata_ Grube. Infests various gulls.
D. _ornatissima_ Giebel. Found on red-winged blackbird.
D. _orphaea_ Osb. Described from catbird.
D. _pallidula_ Harr. Described from rose-breasted grosbeak.
D. _praestans_ Kell. Occurs on terns.
D. _punctata_ Nitz. On various gulls.
D. _rava_ Kell. Described from spotted sandpiper.
D. _rotundata_ Osb. Described from crow.
D. _secondaria_ Osb. Same as above.
D. _simplex_ Kell. Described from robin.
D. _straminea_ Denny. On flicker and hairy woodpecker.
D. _tyrannae_ Osb. On the kingbird.
D. _vulgata_ Kell. Same as above.

_Rallus_ Johnston and Harrison

R. _advena_ Kell. Occurs on coot.
R. _cuspidata_ Scop. Same as above.

_Ornithobius_ Denny

O. _goxiopleurus_ Denny. From Canada goose.
O. _mathisii_ Neumann. Occurs on domestic ducks.
E. anseris Linn. Occurs on geese.
E. ardea Linn. Occurs on herons and bitterns.
E. botauri Osb. On the American bittern.
E. columbiae Linn. On the pigeons.
E. crassicorne Scop. Occurs on many ducks.
E. infuscatum Nitz. Occurs on woodcock.
E. longicorne Piaget. On double-crested cormorant.
E. luridum Nitz. On coots.
E. macrocephalum Kell. Occurs on night hawk.
E. mergi-serrati DeGeer. Occurs on mergansers.
E. sp. near pelagicum Denny. Two collections from Leach’s petrel.
E. thoracicum Piaget. On bufflehead duck.

Giebelia Kellogg

G. mirabilis Kell. Occurs on many petrels.

Order THYSANOPTERA. Thrips

Aeolothripae

Aeolothrips Uzel

A. fasciatus Linn. On “Butter and eggs” August.

Thripidae

Frankliniella Karny

F. tritici (Fitch). The northern flower thrips is very common here.

Thrips Lindmus

T. tabaci Lindm. On “Five o’clock,” July 10; on Rubus odorata Aug. 5.
THE MOUNT DESERT REGION

Heliothrips Haliday

H. haemorrhoidalis (Bouché). The Greenhouse thrips is common here.

Taeniothrips Amyot and Serville

T. simplex Morison. The Gladiolus thrips is constantly being brought in on bulbs and is very common.
T. sp. A single specimen from double phlox, Salisbury Cove, June.

Phloeothripidae

Haplothrips Serville

H. leucanthema (Schrank). On Saponaria sp. Salisbury Cove, Aug. 5.

Anthothrips Uzel

A. verbaschi Osb. Duck Brook, June 13.

Order ANOPLURA. The Sucking Lice

The arrangement follows, Ewing, 1929, A Manual of External Parasites.

Haematopinidae

Polyplax Enderlein

P. spinulosa Burm. Bar Harbor, Nov. 12, on rat (Br.).

Linognathus Enderlein

L. piliferus Burm. Bar Harbor, on a dog (Br.).

Haemodipsus Enderlein

H. ventricosus Denney. Occurs on rabbits.

Haematopinus Leach

H. sciuropteri? Bar Harbor, Sept. 7, on Glaucomys sabrinus, flying squirrel (Br.).
BIOLOGICAL SURVEY OF

Pediculidae

Pediculus Linnaeus

P. humanis humanis Linnaeus. Bar Harbor, on man (Br.).

Phthiridae

Phthirus Leach

P. pubis Linnaeus. Bar Harbor, on man.

Order HEMIPTERA

Sub Order HETEROPTERA

Scutelleridae

Homoemus Dallas

H. aeneifrons (Say). Common June 20–Sept. 15. Best taken by sweeping Solidago.

H. bilugis Uhler. Station F414.

Eurygaster Laporte

E. alternatus (Say). Sweeping in swampy places. Found on (Carex). S. W. Harbor; Eden; Stations F72 and F218, June 11–Sept. 3.

Stygnocoris Douglas & Scott

S. pedestris (Fall.). Bay Shore Drive; Station F182; Station F218. A new record for Maine.

Cydnidae

Some of the species in this family live under stones, leaves, etc., and some are myrmecophilus. They are of black or brown color.

Corimelaena White

C. pulicaria (Germar). Bar Harbor; Salisbury Cove (Sanford), Aug. 10. Frequents the fruits and flowers of raspberry, blackberry, etc.

Galgutha Amyot and Serville

G. atra A. & S. Occurs in small numbers in many places and best taken by general sweeping.
Amestus Dallas


Searus Amyot and Serville

S. cinctus (Palisot de Beauvois). Common June until frost. Under a stone in a potato field on Beech Hill, Sept. 27, 1929, I found large numbers in all stages from the bright red bodied nymph to adult. Wild raspberry is the favorite plant.

Pentatomidae

A family of many species which are best collected by paying particular attention to their food plants which are listed with them.

Scicoris Fallén

S. microphthalmus Flor. A rare Paleartic species taken but once. S. W. Harbor, Aug. 1, 1887 (Fernald).

Peribalus Mulsant and Rey


Chlorochroa Stähl


Mormidea Amyot and Serville

M. lugens (Fab.). Witch Hole, Sept. 20, sweeping Solidago. Also feeds on Verbascum. Not common.

Euschistus Dallas


E. variolarius (P.deB.). A common species which occurs generally.

**Coenurus Dallas**

C. delius (Say). Bar Harbor (Parshley); Eden sweeping. Also found on mullein (*Verbascum*).

**Neottiglossa Kirby**


**Cosmopepla Stål**

C. bimaculata (Thomas). Bar Harbor; S. W. Harbor; Eden, June 7–Aug. 1. Feeds on buttercup, etc.

**Acrosternum Fieber**

A. hilare (Say). Hatched from nymphs on blackberry, Oct. 1. Is found on underbrush in woods.

**Banas Stål**

B. dimidiata (Say). Bar Harbor; Seal Harbor; S. W. Harbor, June 7–Aug. 18. Found on pine, cedar, birch, mountain ash, also mullein.

B. calva (Say). Swamp on Norway Drive; Seal Cove Brook; Stations F220 and F238, Sept. 15–Oct. 1. Rare in New England. Frequents the borders of brooks.

**Meadorus Mulsant and Rey**

M. lateralis (Say). Bar Harbor; N. E. Harbor; S. W. Harbor; Corfield; Section 15; Stations F128, F212 and F231, July 20–Oct. 8.
Elasmostethus Fieber


Perillus Stäl


Apateticus Dallas

A. cynicus (Say). Eden, July 25–Aug. 10.

Podisus Herrich-Schaeffer

P. fretus Olsen. Station F382. First record from Maine.
P. maculiventris (Say). Station F216. Sarce.
P. modestus (Dallas). Bar Harbor; S. W. Harbor; Eden; Seal Cove Brook, June 11–Oct. 1. Taken by sweeping. Variation in size.
P. serieventris Uhler. Duck Brook, Oct. 10. Scarce. Beating tree foliage is the best way to take these.

Corizidae

Corizus Fallen

C. crassicornis (Linn.). Common all season.

Coreidae

Sweeping around squash, cucumber and other juicy vines is a good method for this genus.

Meroconis Perty


Protenor Haglund

P. belfragel Haglund. Brook, Newport Meadow, Sept. 13; Eden, Aug. 7. Newport Meadow; Section 21; Stations F173, F286 and F288. Often found on knot-weed (Polygonium).
Alydidae

Alydus Fabricius

A. conspersus Mont. S. W. Harbor, June 21; Section 15 on wild cherry, Sept. 15.

Ariyssus Stål

A. bohemanni (Sign.). Salisbury Cove, July (Olsen).

Stictopleurus Stål

S. punctiventris (Dallas). S. W. Harbor; Section 16; Station F173; June 30–Sept. 23.

Aradidae. The Flat-bugs

Under bark particularly around the base of stumps is where these will be found.

Aradus Fabricius

A. basalis Parsh. Mt. Desert, Sept. 30 (Br.).
A. niger Stål. S. W. Harbor under bark of dead pine, July 11; Boyd Road under spruce bark, Oct. 4.
A. similis Say. Jordan Pond, June 9; The Beehive, Aug. 13 (Sanford).

Neuroctenus Fieber

N. simplex (Uhler). Beating dead spruce branches Penikese, July 31.

Aneurus Curtis


Neididae

Neides Latreille

N. muticus (Say). Bar Harbor, Sept. 3 (Br.); Stations F130 and F239, Oct. 3–7. General sweeping for these.
THE MOUNT DESERT REGION

LYGAEIDAE

LYGAEUS Fabricius

L. KALMHI Stål. Salisbury Cove, July 17 (Sanford); mating pair on Solidago. Station F150, Aug. 22. Not common.

L. TRIPUNCTATUS Dall. Green Mt. Aug. 30–Sept. 2 (Br.). The smallest and probably the rarest member of the genus in the N. E. States.

ORTHOLOMUS Stål

O. SCOLAPAX (Say) (longiceps Stål.). Tremont, Aug. 23. Not common.

NYSIUS Dallas

N. THYMI (Wolff.) A more northern species and occurs with that above. Narrows, June 17–Aug. 13.


ISCHNORHYNCHUS Fieber

I. RESEDAE (Panz.). On catkins of poplar and of Corylus in Apr. (Br.). On various catkins along Middle Road, May 24, F308. Variable as to size.

CYLUS HAHN

C. ANGUSTATUS Stål. Found on sedges and grasses around swampy areas. Narrows; Eden, June 9–July 15.

C. DISCORS Horvath. Echo Lake; S. W. Harbor; Eden, July 12–15. Station F414.

C. LURIDUS Stål. S. W. Harbor; Tremont, July 11–Aug. 30.

ISCHNODEMUS Fieber

I. FALICUS (Say). Taken but once at Station F173, Aug. 2, ’34.

BLISSUS Burmeister

B. HIRTS Mont. Chinch bug. Eden, July 13. It is about the Island in small numbers. Nymphs, probably of this species, were found at Station F181.
BIOLOGICAL SURVEY OF

Geocoris Fallén


G. uliginosus (Say). S. W. Harbor, Sept. 6.

G. uliginosus lateralis (Fieb.). There have been but two species of this genus described from New England but each has several color varieties which have been named and described. Sunken Heath, which is a sphagnum bog, F345.

Phlegyas Stål


Crophius Stål


Sphaerobius Uhler

S. insignis (Uhler). Tremont, Sept. 4. From the number of records extant this appears to be a scarce form.

Ligyrocoris Stål

L. diffusus (Uhler). To be looked for under boards, etc. Salisbury Cove; S. W. Harbor, July 13–Sept. 6.

L. depictus Barber. Found on high ground and sea beach. Particularly on Atriplex patula.

L. sylvestris (Linn.) (contractus Say). S. W. Harbor; Paradise Hill; Stations F173 and F208, June 18–Sept. 6.

Stignocoris Douglas and Scott

S. pedestris (Fall.). Bay Shore Drive; Station F182, Station F218. A new record for Maine.

S. rusticus (Fall.). Found near bogs and water, Sept. 30.

Trapezonotus Fieber

T. arenarius (Linn.). Sifting at Penikese, July 28.
THE MOUNT DESERT REGION

Drymus Fieber

D. unius (Say). Usually found under stones and boards. N. E. Harbor, Sept. 27; Station F38, Aug. 12.

Eremocoris Fieber


Nestocoris Van Duzee

X. nitens Van D. Sifting at Penikese, July 28.

Scoloposthetus Fieber

S. thomsoni Reut. Mt. Desert, Sept. (Br.). This species is found among dead leaves.

Paromius Fieber

P. longulus (Dall). Salisbury Cove (Olsen) July 23.

Pachybrachius Hahn

P. basalis (Dallas). Salisbury Cove (Olsen). This is a late form and is found under logs and stones in the autumn.
P. sp. Salisbury Cove (Olsen) in July.
P. sp. Salisbury Cove (Olsen). Different from the above two.

Carpilis Stål

C. ferruginea Stål. Green Mt. (Br.) Sept. 9. I am told that this is the first record from Maine.

Plinthinus Fieber

P. compactus (Uhler). Sifting leaves at Penikese, foot of Newport Mt. and Section 40, July 18–Aug. 1.
Tingitidae. The Lace-bugs

Dictyonota Curtis

D. tricornis (Schrank). var. americana Parsh. Mt. Desert, Aug. 29. There are many varieties of this species and as far as I can make out this form has been found in Maine only.

Corythucha Stål

C. juglandis (Fitch). Common, June 7–Sept. 2.
C. marmorata (Uhler). Narrows; Sea Cove Brook, July 14–Sept. 8. Frequent Solidago and ragweed.
C. contracta Osborn & Drake. Seal Harbor (Br.), Aug. 28 on Sorbus americana. Said to feed also on Amelanchier in this State.
C. heidemannii Drake. July–Aug. On alder which is its food plant.
C. mollicula O. & D. Swept from willow, which is the food plant, in Sept. (Br.).

Galeatus Curtis

G. peckhami Ashm. Salisbury Cove, July 15 (Olsen). This is the only species of this genus that is found in North America.

Stephanitis Stål

S. rhododendri Horvath. Rhododendron Lace-bug. Witch Hole Pond; Bar Harbor; S. W. Harbor, July 30–Sept. 3. Feeds on Kalmia and rhododendron as the name indicates.

Leptostyla Stål

L. clitorae Heid. July–Aug. (Br.). On alder, which is its food plant.
Physatocheila Fieber

P. variegata Parsh. From Apr. 27 on catkins to Sept. 25 on Great Heath (Br.). This was formerly considered a variety of *plexa* but now has a species status.

P. *plexa* (Say). Great Heath, Sept. 27 (Br.).

Melanorhopala Stål

M. *clavata* Stål. Bar Harbor; Beehive (Sanford); Eden, July 24–Aug. 15. Taken by general sweeping.

Reduviidae

Metapterus Costa


M. sp. Mt. Desert, Sept. 17 (Br.).

Reduvius Fabricius

R. *personatus* (Linn.). The Kissing Bug or Masked Bedbug Hunter, which as a nymph covers itself with lint and dust in houses and thus disguised destroys its unsavory fellow. One specimen taken at Corfield, July 6, ’31.

Zelus Fabricius

Z. *exanguis* (Stål). A common species on hard woods. Lower Breakneck beating in June.

Z. *socius* Uhler. N. E. Harbor, July 21 (Minot). Beating hardwood trees will get them if anywhere about.

Sinea Amyot and Serville

S. *diadema* (Fab.). Assassin Bog. All summer it is found from clover to *Solidago* where it goes to the flowers to catch insects.
BIOLOGICAL SURVEY OF

MESOVELIIDAE
MESOVELIA Mulsant and Rey


NABIDAE
PAGASA STÅL

P. FUSCA (Stein). Bar Harbor (Moore). Found under stones.

NABIS Latreille

N. FERUS (Linn.). Taken sweeping almost anywhere, common. S. W. Harbor, Sept. 6.
N. (DOLICHONABIS) LIMBATUS Dahl. Salisbury Cove, Aug. 7 (Sanford). This northern form is scarce.
N. (DOLICHONABIS) PROPINXUS Reut. Inhabits very damp locations. Mouth of Northeast Creek, July 25.
N. (NABIS) ROSEIPENNIS Reut. Both the long and the short winged forms are commonly taken in sweeping.
N. (NABIS) RUFUSCULUS Reut. Echo Lake; S. W. Harbor, July 12–15. All short winged individuals.
N. (Nabicula) SUBCOLEOPTRATUS Kby. S. W. Harbor; Eden, July 15–Aug. 20. Sweeping general vegetation.

CIMIIDIDAE
CIMEX LINNAEUS

C. LECTULARIUS Linn. The common bed-bug thrives here.

OEICACUS STÅL

O. VICARIUS Horvath. Infests the chimney swift.

ANTHOCORIDAE. The Flower Bugs

ANTHOCORIS Fallén

A. confusus Reut. One specimen taken May 5, '38. Only one species (borealis) is said to occur in New England. This specimen, which is in the U.S.N.M., was determined by H. G. Barber and confirmed by Dr. H. M. Harris.


**Tetranychidae**

*T. uniformis* Parsh. Taken on larch (Br.), Aug. 31. A scarce form.

**Orius** Hahn

*O. insidiosus* (Say). Section 15 sweeping low herbage, Sept. Truck farm Eden sweeping harvested land, Aug. 27. Swept from various plants where it feeds on thrips and aphids.

**Miridae**. Leaf-bugs

Sweeping and beating is the method with all of this family. Pay particular attention to the food plant.

**Orectoderus** Uhler

*O. obliquus* Uhler. S. W. Harbor; Salisbury Cove, June 16–July 13. Food plant is *Chenopodium album*.

**Dicyphus** Uhler

*D. agilis* (Uhler). Long Pond, July 16. On *Rubus* and the like is the proper place to look for these.


**Macrotylus** Fieber


L. decolor (Fall.). Breeds in sedges. Eden; Bar Harbor, July 15–Aug. 15.

P. morrisoni Knight. Sweeping Solidago, Myrica, etc.,
F. fuscatus Knight. Bar Harbor; S. W. Harbor, Eden, July 20–Aug. 10.

R. vanduzeei (Uhler). Food plant wild red raspberry Rubus idaeus and they may be taken generally from July 20–Sept. 1.

P. albonotatus var. compar Knigt. Eden, Aug. 10.
P. brevirorostis Knigt. Penikese, Sept. 15.
P. obscurus fraternus Uhler. Foot of Newport Mt. sifting, Aug. 15.
P. politus (Uhler). Sweeping around Witch Hole F342.
  Food plants are various weeds including ragweed.

M. separatus (Uhler). Green Mt., July 25.

H. vitripennis (Say). Feeds on plant lice.
H. harti Knight. Record of capture lost. In Knight coll.
Monalcoris Dahlbom


Deraeocoris Kirchbaum

D. fasciolus Knight. Record of capture lost.

Stongylocoris Blanchard

S. stygicus (Say). Eden; Bar Harbor, July 15–17. Species of Solidago are the food plants.
S. sp. Mt. Desert, Aug.
S. brevius Knight. S. W. side of Island sweeping rank weeds, Aug. 12–24. One specimen autotype. Have been told that Solidago is the food plant.

Phytocoris Fallén

P. mundus Reut. Bar Harbor, Sept. 28 (Br.).
P. pallidicornis Reut. Bar Harbor, Sept. 19 (Br.).

Pithanus Fieber


Lopidea Uhler


Mecomma Fieber

M. gilvipes (Stål). Eden; Bar Harbor; S. W. Harbor, July 15–Sept. 13.

Melanotrichus Reuter

CERATOCAPSIUS Reuter

C. pumilus (Uhler). S. W. Harbor, Sept. 3 (Alexander). Found on grape vines.

Pilophorus Westwood

P. strobicola Knight. Record of capture lost.

Orthocephalus Fieber

O. mutabilis (Fall.). Bar Harbor; S. W. Harbor; Salisbury Cove, June 11—July 15. Food plant is Chrysanthemum leucanthemum.

Illicora Reuter


Bolteria Uhler

B. luteifrons Knight. Beaten from Juniperus July 8 (Br.) near Bldg. of Arts. Described from one specimen from No. Carolina by Knight. One specimen in cabinets and two in U.S.N.M. Most closely allied to Dichrooscytus.

Gerridae. The Water-striders

Gerris Fabricius

G. buenoi Kirk. Salisbury Cove; Bar Harbor, Aug. 10, 11.
G. dissoritis Drake & Harris. Bar Harbor; Salisbury Cove, June 14—July 18.
Trepobates Uhler

*T. pictus* (H.-Sch.). Ice pond, Manset, June 18. It is a pond dweller and is generally taken wingless.

Microvelia Westwood

*M. near borealis* Bueno. One specimen of this small beautiful form was taken from under bark of spruce log near Long Heath, Aug. 13, '41.

Veliidae

Rhagovelia Mayr

*R. obesa* Uhler. Duck Brook; Outlet of Ripple Pond, Aug. 18. Lives on the swift water of brooks.

Saldidae. The Shore-bugs

Salda Fabricius

*S. coriacea* Uhler. S. W. Harbor; Narrows, June 18–July 17. In bogs around roots of plants.

Saldula Van Duzee


*S. major* (Prov.). Bar Harbor; S. W. Harbor, June 11–July 15. Same habitat as above.

*S. n.sp. near orbiculata* (Uhler). Two individuals were taken in Sea Wall Bog, July 9, '38. One in U.S.N.M. and one in cabinets.

Lampracanthia Reuter

*L. coriacea* (Uhler). S. W. Harbor; Narrows, June 18–July 17. In bogs around roots of plants.
BIOLOGICAL SURVEY OF

Notonectidae. The Back-swimmers

Notonecta Linnaeus

N. undulata Say. A common and widespread species of various shades. Station F137 was very productive.

Nepidae. The Water Scorpions

Ranatra Fabricius

R. fusca Pal.-Beauv. (americana Mont.). In various small ponds where there is plenty of vegetation. Pond near Town Hill; Stations F168 and F212.

Belostomatidae. The Giant Water-bugs

Lethocerus Mayr

L. americanus (Leidy). This species is in all of the swampy ponds on the Island to a limited extent. They may be taken in a minnow trap. Nymphs and adults appear at the same times.

Belostoma Latreille

B. flumineum Say. But one specimen of this species has been taken and that a nymph at Station F386.

Corixidae. The Water-boatman

Arctocorixa Wallengren

A. decorotella Hungf. S. W. Harbor, July 14–18.
A. conocephala Hungf. S. W. Harbor, July 15.
A. macropala Hungf. S. W. Harbor, June 18.
A. interrupta (Say). Bar Harbor; Salisbury Cove; Stations F129 and F137, June 14–Aug. 10.
A. ornata Abbott. Taken in but one place. Station F396 in the estuary of Gt. Heath where the first signs of fresh water appear. Sept. 1, '42.
A. kennecottii (Uhler). Taken only in the same place and with the above.

Trichocorixa Kirkaldy

T. verticalis Fieber. Large numbers of them were in the brackish pools at the Narrows, Aug. 1934. For the following 5 years I saw none and now they are again plentiful.

Sub Order HOMOPTERA

Cicadidae. Misnamed the Locust

Tibicen Latreille

T. canicularis (Harris). Found during August but not common.

Okanagana Distant

O. rimoso (Say). Indian Point, Aug. 8, '35. Rare.

Cercopidae. The Spittle Bugs

The frothy masses will disclose the place of the nymphs.

Aphrophora Germar

A. sp. near permutata. Record of capture lost.
A. quadrinontata Say. S. W. Harbor, Sept. 6.
A. near irrorata Ball. Station F104, Sept. 10.
L. quadrangularis (Say). Sec. 31; Sec. 16; Gt. Heath; Paradise Hill, Aug. 2–Oct. 7.

**Philaenus Stål**

P. bilineata (Linn.). Record of capture lost.

P. leucophthalmus var. spumarius Fallen. A common form showing many variations. Some are—

* var. fabrici Van D. S. W. Harbor; Long Pond; Narrows, July 15–27.
* var. pallidus Zett. S. W. Harbor; Salisbury Cove, July 13.

P. lineatus Linn. S. W. Harbor; Salisbury Cove, July 15.

**Phlaronia Ball**


**Clastoptera Germar**


* var. vittata Ball. Bar Harbor, Aug. 18.

C. saintcyri Prov. Widespread in August.

C. saintcyri var. aniceps McAtee. Tremont; S. W. Harbor, in late August.

* var. testacea Fitch. Bar Harbor; Tremont; S. W. Harbor, July 30–Sept. 6.

**Membracidae.** The Tree-hoppers

Look for these on the branches of trees and shrubs along the borders of open places, edges of woods, and the like on sunny days. Beating is the method.
Cerasa Amyot and Serville

C. basalis Walker. S. W. Harbor, Aug. 26–Sept. 6. S. W. Harbor; Somesville; Indian Pt., Sept. 8; Sec. 28, Aug. 20; common from Aug. 20 to frost.

Caryxota Fitch

C. stupida (Walk.). Salisbury Cove, July 15, on birch (Olson).
C. porphyrea Fairm. Corfield, July.

Telemosa Fitch

T. ampelopsidis (Harris). Corfield, Aug. 8.
S. sp. Corfield, Aug. 19.

Cyrtolobus Goding

C. sp. Corfield on spruce, June 28.

Ophiderma Fairmaire


Publilia Stål

P. concava (Say). Sec. 26; Sec. 11; Indian Pt., Somesville, Aug. 7–Sept. 8. Common.

Campylenchia Stål


Enchenopa Amyot and Serville

P. tremulata Ball. One specimen taken on Center Trail Western Mt., Sept. 30, '32. Rare.

Cicadellidae. The Leaf-hoppers

Agallia Curtis

A. quadrupunctata (Prov.). Lake Wood, June 10; Bar Harbor, June 11. Look for this genus on grasses and clover.

Acenatagallia Kirkaldy

A. sanguinolenta (Prov.). Clover leaf-hopper, Bar Harbor, Aug. 18.

Idiocerus Lewis

I. fitchi Van D. Eden, July 15. The whole genus is a tree and shrub feeder.
I. alternatus Fitch. A common general feeder. Hibernates as an adult and starting off with the catkins in April it goes on.
I. pallidus Fitch. Taken on willow in August. Common.
I. sp. Great Heath, Aug. 28.

Agalliopsis Kirkaldy

A. novella Say. Salisbury Cove, July (Olsen). Found in open fields where they feed upon grasses.

Macropsis Lewis

M. trimaculata (Fitch). Salisbury Cove, July (Olsen). Has been reported from wild plum.
M. viridis (Fitch). Taken as the above. The food plant is willow on this Island.
Oncopsis Burmeister

O. sobrius (Walk.). N. E. Harbor; S. W. Harbor, July 13–Aug. 10. Birch is a food tree.
O. pruni (Prov.). Common, July 12–Sept. 3. On birch and wild plum.
O. minor Fitch. Mt. Desert, July (Br.). It favors birch.
O. variabilis (Fitch). Mt. Desert, June 6 (Br.). Also favors birch.
O. sp. Corfield, June 8.
O. sp. Mt. Desert, Aug. 10, beaten from spruce.
O. sp. Mt. Desert (Br.), June 30.
Each of the three above differ.

Neokolla Melichar


Helochara Fitch

H. communis Fitch. Feeds on grasses and the like along streams and wet places. Bar Harbor; Narrows; Seal Cove Brook, July 19–27.

Graphocephala Van Duzee

G. coccinea var. teliformis (Walk.). Bar Harbor; S. W. Harbor; Station F68, July 24–Sept. 6.

Cuena Melichar

C. lateralis (Fab.) Long Pond; Sec. 31; Somes Sound Inlet; F31, Aug. 2–Sept. 16. Low pastures on grasses, etc.
D. mollipes (Say). Echo Lake, July 12–25. General but not common and found on grasses and sedges in both dry and wet localities.

D. angulifera (Walk.). Witches’ Hole, Aug. 28–Sept. 2 (Br.). The members of this species are found in low land where they live on rank vegetation.


Eucanthus LePeletier and Serville

E. acuminatus (Fab.). A woodland species to be looked for on low plants. Bar Harbor, July 10. Scarce.

Penthimia Geffrin

P. americana Fitch. The only species found in the U. S. and is found on oak and other shrubs here.

Gypsonana Ball

G. octolineata (Say). “Mt. Desert,” July 30 (McAtee). Sweep mixed grasses and shrubs for these.

G. striata Burm. Bar Harbor; Duck Brook, Stations F35 and F48; Eden, July 24–Sept.

Aphrodes Curtis

A. bicinctus (Sch.) Bar Harbor, Aug. 10.

A. albifrons (Linn.). S. W. Harbor, Aug. 26–Sept. 3 (Alexander).

Hecalus Stål

H. lineatus (Uhler). Mouth of Northeast Creek; Narrows, July 18–Aug. 13. Around the edges of swamps and heaths is its home. Scarce.
THE MOUNT DESERT REGION

M. vitellina (Fitch). S. W. Harbor, Aug. 23; Bar Harbor, Sept. 13. Look for it in wooded places and on the wild rose.

Scaphoideus Uhler

S. productus Osb. In August this common woodland species is found in moist places.

Cloanthanus Ball

C. acutus (Say). Common all summer in the fields and also on blueberry.

Laevicephalus DeLong

L. acus S. & D. Mt. Desert, October. Another common species found in rank grass in damp places.
L. debilis (Uhl.). "Mt. Desert" (McAtee) July 30. Found in moist woods.
D. sylvestris Osb. & Ball. Look for this in sheltered areas and on grass on "cutover" land. 'Mt. Desert,' July 30 (McAtee); S. W. Harbor, Aug. 30.
D. abdominalis (Fab.). Penikese, July 15. Low and wet grassy areas are its home.
D. striatus (Linn.) (D. affinis G & B). Bar Harbor, Aug. 10. One of the common widespread forms.
D. flavo-virens G. & B. Penikese, July 15.

Aplicephalus DeLong

A. simplex (Van D.). Sec. 28; Narrows late July. Lives around edges of swamps. Feeds upon Spartina patens.

Euscelis Brullé

P. lobata (Van D.). Station Sec. 11, Brook S. of road; S. W. Harbor; Long Pond, Sept. 3-7.

Scaphytopius Ball

S. sp. probably cinerosus (Osb.). Station F375.
S. magdalenensis (Prov.). Tremont Aug. 23. A late summer form on blueberry.

Nesosteles Kirkaldy

N. sp. Mt. Desert (Br.), Oct. 2.

Athyssanus Burmeister

A. argentatus (Fab.). Great Heath, Aug. 8.

Osbornellus Ball

O. scalaris Van D. S. W. Harbor, Sept. 6, in meadow.
O. auroniteus Prov. S. W. Harbor, Sept. 6. A common form on Solidago in woodland areas.

Latalus DeLong and Sleesman

L. sayi (Fitch). A hardy species that prefers grain and tall grass, but can persist under various conditions. July and August.

Polyamia DeLong

P. inimicus (Say). Feeds on almost every plant and can become a pest. Common and widespread in July.

Limotettix Sahlberg

L. cuneatus (Sand. & DeL.). Tremont, Aug. 23. It is found around the edges of swamps.
L. striolus (Fall.). Tremont; S. W. Harbor, last of August. Same habitat as above.
Idiodonus Ball

1. *kennicotti* (Uhl.). S. W. Harbor, Sept. 3 (Alexander). Found on shrubs and trees, particularly oaks.


Ophiola Edwards

O. *angustata* (Osb.). A common form on bracken in our cut-over land in August.

O. *anthracina* (Ball). S. W. Harbor; Sec. 28, June 27–July 15. This is a high and dry form. On upland pastures.

O. *arctostaphyli* (Ball). Tremont, late August. Bearberry is its food plant.

O. *humida* (Osb.). Station F375.

O. *striatula* (Fall.). On blueberry in wet places late summer. Sometimes abundant.

O. *vaccinii* (Van D.). Station F375.

O. sp. Mt. Desert, Aug. 20 (Br.).

Bandara Ball


Phlepsius Fieber

P. *fuscipennis* Van D. Tremont, S. W. Harbor, Aug. 23. Common in all kinds of places.

P. *irroratus* (Say). S. W. Harbor, Sept. 6. Meadows are the best place to find these.

P. *fulviodorsum* (Fitch). Echo Lake; Dry Mt., Aug. 29–31 (Osborn). Bar Harbor, Sept. 2–13. Dry and shaded spots are the best places for these.
P. solidaginis (Walk.). Bar Harbor, July 23. On Solidago. Goldenrod is its favorite plant but it will feed on anything.
P. sp. An herbaceous feeder, Penikese, August.

**Thamnotettix Zetterstedt**

T. simplex H.-S. Long Pond; Eagle Lake; Bar Harbor, July 16–27. Large shrubs like young birch and hazel are good places to beat.
T. sp. Mt. Desert, Sept. 12 (Br.).

**Colladonus Ball**

C. eburatus (Van D.). Bar Harbor; S. W. Harbor, Aug. 10–Sept. 3. Cutover land on mixed growth is the place for these.
C. waldanus (Ball). Bar Harbor, July 24.

**Cicadula Zetterstedt**

C. smithi (Van D.). Sec. 28, July 15. Found in open fields where there is moisture.
C. decipiens (Prov.). S. W. Harbor. Another lowland form.
C. sp. Mt. Desert, Aug. 30 (Br.).

**Elmana DeLong**

E. inornata (Van D.). A common species.

**Mackosteles Fieber**

M. divisus (Uhl.). S. W. Harbor, July 13–Oct. 5. A general feeder.
Chlorotettix Van Duzee

C. unicolor (Fitch). Bar Harbor; Station F130, July 24–Oct. 7. Pastures and meadows are its home.

Balclutha Kirkaldy

B. punctata (Thunb.). Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 6.

Dikranura Hardy

D. mali Prov. A common pasture and grain pest throughout spring and summer. On willow catkins May 11 (Br.).
D. sp. Mt. Desert, Sept. 12 (Br.).
D. sp. Mt. Desert, Sept. 25 (Br.).

Empoasca Walsh

E. unica (Prov.). S. W. Harbor, Sept. 6. Alder is the food plant.
E. atrolabes (Gillette). Eden, July 15. Alder is a food plant.
E. sp. From areas where pine grows.

Typhlocyba Germar

T. commissuralis Stål. Bar Harbor, August.
T. flavoscuta (Gillette). Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 5. Another fern feeder.
T. vanduzei (Gillette). Bar Harbor, Aug. 10. Found on ferns.
Erythroneura Fitch

E. obliqua (Say). Long Pond, Sept. 7, 1922. Sweeping grapevines is productive.
E. ziczac Walsh. S. W. Harbor, July 13. On woodbine (*Ampelopsis*).
E. elegans McA. Corfield on woodbine (*Ampelopsis*), Sept. 8.
E. sp. Corfield on woodbine (*Ampelopsis*), Sept. 8.
E. sp. maculata group. On *Quercus borealis*, Sept. 5 (Br.).
E. vitifex Fitch. Record of capture lost.

Fulgoridae

Epipetra Metcalf

E. sp. Western Mt. summit under spruce bark, Sept. 30.
E. sp. On spruce, Aug. 9.

Catonia Uhler

C. dimidiata Van D. Bar Harbor (Br.), Aug. 30.

Cixius Latreille

C. misellus Van D. Bar Harbor; Echo Lake (Alexander), Aug. 8–Sept. 9.
C. basalis Van D. Bar Harbor; Station F128, July 24–Sept. 27. A common and widely distributed form.

Bruchomorpha Newman

THE MOUNT DESERT REGION

Cedusa Fowler

C. hedusa McA. Mt. Desert (Br.), Aug. 30.
C. vulgaris (Fitch). Witch Hole; Bar Harbor; Green Mt., July 11–Aug. 17. Common on oak.
C. sp. Robinson Mt., beating, Aug. 24.

Petara Westwood

P. vanduzei Ball. Section 11 brook S. of Road; F375.

Apache Kirkaldy

A. degeeri Kby. Mt. Desert (Br.), Aug. 27. Found in all New England and Canada.

Stenocranus Fieber

S. dorsalis (Fitch). A midsummer form in meadows where it thrives on various Carices.
S. sp. Mt. Desert (Br.), June 12.

Kelisia Fieber

K. axialis Van D. Tremont, Aug. 23.
K. sp. Southwest Harbor, Sept. 4.

Lamenia Stål

L. vulgaris (Fitch). Witch Hole Pond; Bar Harbor; Green Mt., July 11–Aug. 17. Common on oak.
L. sp. Robinson Mt., July 24.

Megamelanus Ball


Phyllodinus Van Duzee

Laccocera Van Duzee


**Stobaera Stål**


**Liburniella Crawford**

*L. ornata* (Stål). Eden, July 15. Widely distributed.

**Delphacodes Fieber**

*D. pellucida* (Fab.). Station F395.
*D. sp.* Great Heath, Oct. 5 (Br.).

**Psyllidae**

Occur on the stems of plants and may be usually found by the noticeable flocculent wax secretion or by examining deformed parts and galls.

**Livia Latreille**

*L. maculipennis* (Fitch). S. W. Harbor, Aug. 20. The nymphs develop in a gall formed on rush (*Juncus*).

**Aphalara Förster**


**Trioza Förster**

*T. tripunctata* (Fitch). Common at the foot of Western Mt., July to Sept. The nymphs are gregarious on the under side of the terminal leaves of the blackberry, causing them to curl and form rosette-like bunches.
*T. obtusa* Patch. Mt. Desert (Br.), June 12.
Psylla Geoffroy


Psylla galeaformis Patch. The nymphal stages are passed on alder (Alnus). Section 26; Station F179, Aug. 7–24.

Psylla quadrilineata Fitch. Station F241, April 21.

Psylla striata Patch. Station F179, Aug. 24.

Aphididae

Listed according to Dr. E. M. Patch in Hemiptera of Conn. Part IV Bulletin 34 of Conn. Geo. & Natl. Hist. Survey which contains life histories and other valuable references.

Cinara Curtis

C. sp. Probably new according to P. W. Mason Station F247. In U.S.N.M.

Euceraaphis Walker


Myzocallis Passerini

Myzocallis sp. On young oak leaves. Corfield, June 1.

Myzocallis sp. Corfield; flying Oct. 22 in large numbers at dusk.

Periphyllus Vander Hoven

Aphis Linnaeus

A. cerasifoliae Fitch. This black chokecherry form was taken June 17 on crumpled leaves at Penikese.
A. rumicis Linn. Feeds on a great variety of vegetation. Taken on poplar tip, July 2. Corfield.
A. sp. Pretty Marsh massed on fire weed (Epilobium), Aug. 25.

Myzus Passerini


Capitophorus Vander Goot


Phordon Passerini


Macrosiphum Passerini

M. albifrons Essig. Massed on lupin Eagle Lake, July 2.
M. pisi Kalt. Eagle Lake massed on stem of lupin July 13 and Barn Eyrie on aster Aug. 1. This species is sometimes confused with the one above.
M. rudbeckiae Fitch. Center of yellow daisy Rudbeckia hirta Aug. 5. Foot Newport Mt. on Aster and Solidago. Sept. 18.

Eriosoma Leach

E. americanum Riley. Causes leaf roll on American elm and then migrates to Amelanchier the roots of which harbor the summer generations. From elms, July 1–10.
**E. lanigerum** Hausmann. Has the elm for the over wintering host and then migrates to *Pyrus* and *Crataegus* returning to the elm in autumn.

**Prociphilus** Koch


P. tessellata Fitch. Migrates between maple and alder where it forms woolly patches on stem. Common.

**Melaphus** Walsh

M. rhois Fitch. Pear shaped or round reddish galls are formed on sumac (*Rhus*) in September. On Sept. 24, '37 at the foot of Newport Mt. I found the larva of a Syrphid fly in many of these galls which when reared proved to be *Pipiza* sp.

**Pemphigus** Hartig


**Hormaphis** Osten Sacken

H. hamamelidis Fitch. Forms conical galls on the leaves of witch hazel (*Hamamelis virginica*) and migrates to birch. Common.

**Chermes** Linnaeus

C. abietis Linn. Spruce gall aphid which forms the conical galls on spruce. Common in Aug.

C. floccus Patch. Occurs generally on white pine.

C. pinicorticis Fitch. Pine bark aphid which occurs on the trunk of white pine in flocculent masses.
C. pinifoliiæ Fitch. Forms galls on red spruce, June 10.
C. similis Gillette. From red spruce, July 7 (Br.).

Aleyrodidae

Trialeurodes Cockerell


Coccidae. Scale Insects

Xylococcus Morrison

X. betulæ (Perg.). Found on birch all the year.

Cryptococcus Douglas

C. fagi (Baer). Found on beech all the year.

Lecanium Burmeister

L. quercifex Fitch. Oak scale. Various parts of the Island on red oak.

Physokermes Targione-Tozzetti


Aulacapsis Cockerell


Hemichionaspis Cockerell


Lepidosaphes Shimer

L. ulmi (Linn.). Oyster-shell bark scale. Common on ash, mountain ash and willow.
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Order COLEOPTERA. Beetles

Cicindelidae. The Tiger Beetles

These predaceous and handsome individuals occur in sandy places, such as sand pits, carriage roads, and the bare places left after removing the top soil.

Cicindela limbaecus

C. purpurea var. limbalis Lee. (42c). Sec. 24, June 12–July 2; sandpit near Sea Wall, Aug. 24. Scarce.
C. limbalis var. spreta Lee. (45b). Bar Harbor, May 18 (Br.).
C. repanda Dej. (50). Mt. Desert, Aug. 1900 (Harris).
C. tranquebarica Hbst. (C. vulgaris Say) (53). Abundant in the large sandpit near Sargent Drive, July 2–Sept. 5. Many in sandpit near golf links, June 1.
C. longilabris Say (59). Taken around patches near north end of Eagle Lake, Sec. 16, June 13–Aug. 16.
C. sexguttata Fab. (69). Frequent roads in woods and shows great variety in marking but not much in color. Taken May 26–July 30, Breakneck Rd., Half Moon Pond, Bubble Brook, Chasm Brook. Our most common form. Large numbers in 1937 and 1938.

Carabidae. The Ground Beetles

They are to be looked for on the ground where they hide under stones and other cover. Some prefer the edges of ponds; others, dry places, while still others are found in
sphagnum moss or wet moss in deep woods. Some of our species fly freely on warm spring mornings, particularly near wet places. The way to take the bog species is to stamp around on the surface of the bog and drown them out. I have found by working potato patches and turning over the stones, a week or two after the crop has been harvested, a most fruitful field. When clover hay is cut and left in wind rows over night many beetles will be found underneath in the morning, where they have gone to search for other insects. Cheese is a good trap bait.

Scaphinotus Dejean

S. viduus (Dej.) (128). On August 24, '32, quite a number of these beetles appeared in the garden of Mrs. E. C. Bodman at Seal Harbor. Their food is land snails.

Nomaretus Leconte

N. bilobus (Say) (134). This species was taken but once on the Island, probably because of the scarcity of its natural food, the land snails. It is found on Long Porcupine Island where there are snails, around the first of July, in decaying white birch logs. Me.Farland Hill, Aug. 7.

Sphaeroderus Dejean

S. lecontei Dej. (162). A mating pair taken at Hunters Brook, June 10 (Br.). Found on the Porcupines but scarce anywhere.

Carabus Linnaeus

C. maeander Fisch. (166). Two specimens taken at fish bait Aug. 6, '23 at Morrell Park. (Miss E. L. Sawyer.) A rare form.
C. chamissonis var. groenlandicus Dej. (168a). "Mt. Desert" (Austin). The occurrence of this beetle on the Island seems very doubtful.


C. limbatus Say (172). Otter Cliff's Radio Station.

C. nemoralis Müll. (175). Found travelling and when gardens are dug over in the autumn. Not taken before 1931 and is on the increase. Larvae feed on cutworms. In the vicinity of Bar Harbor, June 14–Oct. 13.

Calosoma Webb

C. sycophanta Linn. (182). Introduced from Europe to destroy the gypsy moth. A single specimen was found dead on the beach of Ironbound Island by Mr. Dwight Blaney.

C. frigidum Kirby (183). Corfield, June 4 — Morrell Park, Aug. 3. Larva feeds on cutworms.

C. calidum Fab. (204). Ironbound Isl. (Blaney).

Loricera Latreille


Notiophilus Duméril

N. aeneus Hbst. (246). They are said to be found under leaves around the margins of fields and woods. Bee Hive Mt., Aug. 23 (Sanford).

N. borealis Harr. (249). Along the margins of woods under leaves and in early spring on tree trunks. S. de Monts Spring travelling, May 25.

Nebria Latreille


N. pallipes Say (292). Taken from rubbish close to running water which it frequents. Long Pond, July 16.
Look for the Bembids on banks along the water's edge and
in trash around stumps and logs, preferably damp.


B. scopulinum (Kby.) (573). This is a distinctly northern
form. One taken at Witches' Hole, Sept. 1, '37.


B. posticum (Hald.) (648). Ireson Hill under wet stones,
May 25 and June 28.


B. variegatum Say (660). Habitat is wet places at water's
edge. N. E. Branch on wet shore, July 28. On muck ground,
Sept. 17.

B. graciliforme Hayw. (680). Ireson Hill under wet stones,
June 28.

B. versicolor (Lec.). (723). On muck ground, Sept. 17 (Br.).

B. quadrinaculum (Linn.). (737). A specimen in the N.
Heath, July 10.

B. occultator Notm. (18620). This is a very rare species
described from one spot in northern New York and so far as
is known has been taken up to now from a single locality on
the bank of the Peabody River in Pinkham Notch in the
White Mts. The species is related to the western B. incertum
but is perfectly distinct. One individual at Station F382.

B. quadratum Notm. (18663). Described from a single
pair from northern New York. Then nine specimens were
stamped from Sphagnum on the lower slope of Mt. Katahdin
by P. J. Darlington. A large number taken by stamping
Sphagnum at one spot in Sea Wall Bog. Related but distinct
from B. morulum, described from a single pair from Hudson
Bay.

B. cautum-anguliferum. Labeled by Darlington as belong-
ing to a group that ranges entirely across northern North
America and may include several closely related forms or
it may consist only of one or two variable species. The
taxonomy has not been worked out.
THE MOUNT DESERT REGION

TACHYURA Motschulsky


TACHYS Stephens

T. laevus (Say) (883). Under logs, moss, etc. in damp places. Mt. Desert, May 24 (Br.).
T. incurva Say. Station F171, May 28.

TACHYTA Kirby


TACHYMYNIS Motschulsky

T. flavicauda (Say) (898). A series under bark of log Quercus borealis in U.S.N.M.


TRECHUS Clairville


MYAS Dejean


CYLINDROCHARIS Casey

Pterostichus Bonelli

P. adoxus (Say) (1006). Generally distributed and fairly common under stones and in rotten wood June 1 to last of Aug. Also taken in meat traps.
P. (eufferonia) stygia var. vapida Casey. Meat trap, Station F185.

Gastrellarius Casey


Eufferonia Casey


Poecilus Bonelli


Oxaseus Ziegler

Dysidius Chaudoir


Pseudargutor Casey

P. erythrops (Dej.) (1181). Ireson Hill under stone, May 29.

Micromaseus Casey

M. patrueis (Dej.) (1182). One taken in 1929 and record of capture lost.

Bothriopterus Chaudoir

B. adstrictus (Esch.) (1192). The only time taken was under stones on Long Porecupine Isl., Aug. 10, '29.

Leiocnemis Zimmerman

L. avida (Say) (1262). Beech Hill under stones, Sept. 27.

Bradytus Stephens


Celia Zimmerman


A. *fallax* Lec. (1389). A vegetable feeder. Look for the members of this genus under basal leaves which rest on the ground. B. H., June 13.

**Triaena LeConte**

T. *angustata* (Say) (1433). Mt. Desert, July 2 (Br.). Scarce.

**Calathus Bonelli**

C. *gregarius* Dej. (1482). The specific name indicates that they become so, which they do in cold weather. Found under logs in dry woods. Corfield, May 1. Penikese in grass, June 17. Long Porcupine in logs, Aug. 10; Breakneck Road meat trap, Sept. 3.

**Pristodactyla Dejean**


**Platynus Bonelli**

P. *sinuatus* (Dej.) (1514). This genus occurs beneath cover from damp to dry sandy places, each species following its preference. Mt. Desert, May 13 (Br.); Schooner Head in birch log, May 23; Hunters Beach Trail in log, July 30; Corfield, Aug. 10; Long Pond, Aug. 14; Witches Hole, Aug. 28 (Br.); Echo Lake, July 17.


P. *tenus* Lec. (1539). Witches Hole path in June.
P. cupripennis (Say) (1553). Mt. Desert, May 2 (Br.); Station F171 under wet stones, May 28.
P. octopunctatus (Fab.) (1566). But one of these beautiful beetles was taken. Ireson Hill, June 3, '37. Said to frequent sandy sparsely wooded slopes.
P. placidus (Say) (1567). Beech Hill under stones, Sept. 27.
P. retractus (Lec.) (1585). Long Porcupine under stones, Aug. 10.

Lebia Latreille

L. moesta Lec. (1655b). Road Bubble Brook to Chasm Brook, July 20; Green Mt. 1200 ft. level, July 20. This is probably a color variety of L. viridis.
L. ornata Say (1667). Goldenrod is a favorite flower. Taken in small numbers on all parts of the Island by sweeping.
BIOLOGICAL SURVEY OF

Dromius Bonelli


Metabletus Sch.-Goech.

M. americanus (Dej.) (1699). Mt. Desert, May 2 (Br.), July 5 (Br.), Aug. 26. It is rare and found under the bark of pine.

Cymindis Latreille

C. neglecta Hald. (1748). Mt. Desert, Aug. 27 (Br.).

Brachinus Webb

B. cyanipennis Say (1783). One of the Bombadier Beetles. S. W. Harbor under stones, June 18. Rare.

Anadaptus Casey

A. baltimoresensis (Say) (2127). Station F171 under wet stones, June 3.

Trichocellus Ganglbauer

T. ruficrus (Kby.) (2145a). Mt. Desert, May 10 (Br.); Station F171 under wet stones, June 28. Rare.

Tachycellus Morawitz

T. nigrinus (Dej.) (2158). Lower Breakneck Rd. on catkins, Apr. 25; Newport Meadow, sweeping low herbage, Oct. 5.

Catharellus Casey

C. cordicollis (Lec.) (2167). Eden, July 18.
Stenocellus Casey

S. neglectus? (Lec.) (2198). This seems to be a rare species and there are no authentic specimens in Washington. Sept. 23 (Br.).

Acupalpus Latreille

A. sp. L.L. Buchanan says, “These perhaps agree better with C. trivialis Csy. than with any other species in the U.S.N.M. and they might provisionally be identified as A. trivialis.” Sept. 25, '37.

Stenolophus Dejean

S. ochropezus (Say) (2218). Station F171 under wet stones, June 28.
S. conjunctus (Say) (2238). Sandy places. Comes to light when flying in spring. This whole genus hibernates and may be taken by sifting.

Tachistodes Casey

T. pauperculus (Dej.) (2247). Station F171 under wet stones, June 28.
T. partiaris (Say) (2249). Station F171 under wet stones, June 3.

Agronoderus Dejean

A. comma (Fab.) (2261). Found in garden rubbish. Attracted to light. Ireson Hill under wet stones, May 28.

Haliplidae

The Crawling Water Beetles

They live around the margins of brooks and ponds where they crawl over the aquatic plants that lie flat on the water. Best taken by raking vegetation onto a screen and looking for them as the material dries.
Haliplus Latreille

H. connexus Math. (2300). Pool head of Bear Br., Aug. 10 (Br.).

H. cribarius Lec. (2305). Pool head of Bear Br., Aug. 10 (Br.).


Peltodytes Regimbart


Dytiscidae. The Diving Beetles

These predaceous ones live in pools and the most sure way to take large ones is to suspend a minnow trap baited with a piece of fish. The opening of the trap should not be too large, and part of the trap should be above water so that the beetles will have air and not die, swell and be unfit for mounting. Scraping the edges of pools will get the others. One should wade in with a long-handled net and reach across the pool under water and scrape slowly upward, keeping quiet and not casting a shadow. Results will repay the care taken.

Laccophilus Leach

L. maculosus (Germ.) (2351). This "pool loving" species as its name indicates, is commonly found in the smaller pools on the Island. It is the first of the family to appear in the spring, and remains until cold weather, when it probably hibernates.
THE MOUNT DESERT REGION

Desmopachria Babington

D. convexa (Aubé) (2374). Station F386. This is a scarce form here. Taken in Gt. Heath in water F386. The best place for them is said to be in grass roots along the margin of water. This is the single species representing this genus in the eastern U. S.

Bideussus Sharp

B. affinis (Say) (2390). Taken at Stations F384, F389, F393 and F394.

Coelambus Thomson

C. inaequalis (Fab.) (2403). Stations F186 and F386. Not common.

Hydroporus Clairville

H. (deronectes) depressus (Fab.) (2428). Pool head of Bear Br., Aug. 10 (Br.).
H. sp. near undulatus. Series 1, Station F384.
H. sp. near undulatus. Series 2, Station F383. Series 1 and 2 are different species.
H. clypealis Shp. (2452). Station F384 among trees.
H. carolinus Fall (2464). Pool near Camp grounds, July.
H. consimilis Lec. (2454). A good series taken in the small swamp at the S. E. end of Jordan Pond July ’39 but not taken elsewhere.
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H. badeellus Fall (19206). Gt. Heath, Station F386. A species taken in mountain regions but here near sea level. A very rare species. Compared with the Fall type by Darlington.
H. rectus Fall (19209). Station F384.
H. sp. One individual taken New Mill Pond, Aug. 7, '34.

Laccornis Des Gozis

I. (Agaporus) difficulis Lcc. One specimen taken at Station F386. For an account of the genus see Can. Ent. Vol. LXXII, 1940.

Agarbus Leach

A. seriatus (Say) (2539). Brook at Section II. Sept. 1. A cool-water, running-brook, spring-hole species.
A. obtusatus (Say) (2543). All the species in this genus are found in marshes and pools around the roots of semi-aquatic plants or under stones in wet spots. Witches Hole Brook, Aug. 14–28.
A. ambiguus (Say) (2564). Great Heath, July 31, Station F386.
A. gagates Aubé (2580). S. W. Harbor; Bar Harbor, June 25–July 11. Also one taken in the spring on Green Mt. summit.
A. sp. In almost dry brook flowing into S. W. shore of Eagle Lake, Aug. 15.

Illybius Erichson

I. pleuriticus Lcc. (2590). Station F386.
THE MOUNT DESERT REGION

I. angustior (Gyll.) (2595). S. W. Harbor ice ponds, July 14.
I. biguttulus (Germ.) (2598). Common in small ponds and pools from Aug. 1 to Sept.
I. confusus Aubé (2600). Station F318.
I. sp. Station F384.

Coptotomus Say

C. interrogatus (Fab.) (2610). New Mill Pond in Aug. and at Stations F186, F383 and F389.

Rantus Boisduval and Lacordaire

R. zimmermanni Wallis. A northern form and this is the first record from Maine. Station F383.
R. binotatus (Harr.) (2616). Two individuals taken in New Mill Pond, July 21, '34 indicating scarcity.

Colymbetes Clairville


Dytiscus Linnaeus

D. verticalis Say. (2638). This species had never been seen on the Island until taken in large numbers at the same time and place as that next below.
D. dauricus Gebl. (2645). This species is found in very few numbers in the smaller ponds. On July 30, '35, a man in Tremont reported that his trout were being eaten up by lizards. Upon investigation they proved to be the "water tigers" of this and (D. verticalis) and the pool was fairly swarming with the adults, they having evidently hatched during the previous week. Upon investigation, this spring which had been made into a pool, had no connection with any other body of water, and was on a hill and therefore the absence of the eels, which are the common enemy of this family, permitted them to multiply in peace.
D. sp. A "tiger" in the house Bar Harbor, June, (Dr. Thorn-dike.)
Habaticus Leach

H. modestus Shp. (2647). This is the *H. stagnalis* of authors not (Fab.). When Gt. Heath touches Middle Road. Pools always shaded. Station F384.

Acilius Leach

A. semisulcatus Aubé (2651). Probably the most generally distributed of this family, being in most of the small ponds from the first of July until October.

Graphoderes Thomson

G. liberus (Say) (2659). The only place this beautiful form was taken was in the pool in the center of Sunken Heath where they were in numbers. Station F345.

G. cinereus (Linn.) (2660). One specimen taken Station F129. Scarce.

Gyrinidae. The Whirligig Beetles

Taken by netting them on the surface of the water.

Dineutes MacLeay

Every place was searched for this genus in 1939 with the result that *D. horni* was taken at nineteen stations and *D. nigrior* at sixteen.

D. nigrior Robts. (2679). See above.

D. americanus Say. (2680). Record of capture lost.

D. horni Robts. (2681). See above.

Gyrinus Geoffroy

In 1939 Mr. K. F. Chamberlain of New York State Museum, most kindly offered to determine for me in any quantity the species that I would collect in the above genus, thus making it possible for me to make a thorough check of the Island. I started in the first of May when there was snow in the woods and at one time or another I visited every brook, lake, marsh, or other bit of water that I could find. The result is given be-
low and when one realizes that on this island there are no meandering streams with overhanging dirt banks; that the brooks are steep, rocky and swift; and that the shores of the lakes are almost entirely rocky, it is remarkable that so many species occur here.

G. minutus Fab. (2684). This small form was never taken in large numbers. Stations F303; F311; F321; F325; F346; F353; F360; F361; F364; F367.

G. confinis Lec. (2685). One specimen was taken in the Tarn F331 July 13, '39.

G. fraternus Comp. (2686). One or two taken at Stations F331; F344; F351; F355; F359; F360 and F361. Quite a few were taken at F367 and a large number at F354.

G. aeneolus Lec. (2687). One specimen taken Aug. '32 of which the record of capture has been lost.

G. dichrous Lec. (2689). A common form that occurs in considerable numbers. Stations F310; F311; F315; F331; F346; F351; F354; F355; F359; F360; F361; F364; F367; F368; F369.


G. aquiris Lec. (2692). A scarce form here and a few found at Stations F331 and F332; F396 and F397.

G. affinis Aubé (2696). F346.

G. pernitidus Lec. (2699). A scarce form. Very few taken at Stations F321; F324; F346; F364.

G. borealis Aubé (2707). Generally distributed and one of our common forms. Stations F310; F311; F312; F313; F319; F320; F322; F324; F326; F344; F345; F352; F363.

G. Lugens Lec. (2707a). This is the predominant form here and was taken at Stations F307; F310; F313; F314; F318; F319; F320; F321; F322; F324; F325; F326; F327; F331; F332; F344; F345; F346; F347; F351; F352; F353; F354; F355; F357; F358; F359; F360; F364; F365; F366; F368; F369; F396; F397. In a series from F372 and F373 one finds specimens ranging all the way from the more or
less shining typical *lugens* to the extreme form in which the upper surface is considerably roughened and opaque with well developed reddish area on the elytra and on the extreme specimens also a reddish area on the thorax and head.

**G. latilimbus** Fall (19250). Never found in numbers. Stations F303; F307; F310; F313; F315; F319; F321; F327; F328; F332; F344; F346; F354; F386; F396; F397.

**G. lecontei** Fall (19253). Appears to be the scarce form in the group for but a few were taken at Stations F305; F307; F313. All taken in May when the water is very cold on the Island.

**G. rugionis** Fall (19255). A fair number taken at Stations F310; F311; F312; F314; F316; F320; F321; F326; F329; F332; F344; F345; F352; F364; F369.

**G. frosti** Fall (19257). Wherever found it occurs in numbers. Stations F316; F320; F321; F329; F331; F344; F346; F351; F352; F359; F360; F361; F369.

**Hydrophilidae. The Water Scavenger Beetles**

By raking out aquatic vegetation or scraping the bottom and among reeds is the way to capture these.

**Helophorus Fabricius**


*H. lineatus* Say (2750). Great Heath maple grove, Station F382.


*H. sp.* A large number found in wet rubbish Bar Harbor, May 2 (Br.).


**Hydroctus Leach**

*H. excavatus* Lec. (2759). Large numbers of these and the two following were taken on dead water plants together probably due to the very low water. Station F388.

*H. rufipes* Melsh (2760). See above.

*H. squamifer* Lec. (2764). See above.
THE MOUNT DESERT REGION

Berosus Leach


Hydrophilus DeGeer

H. obtusatus Say (2795). On July 24–26 a few were taken in a pond near Bar Harbor. Duck Br. in road, May 20. Scarce.

Tropisternus Solier

T. mixtus (Lec.) (2806). Station F137, Sept. 30; Station F137, Oct. 5. Not common.

Hydrobius Leach


Anacaena Thomson

A. limbata Fab. (2814). Formerly identified as A. infuscata (Mots). Witches Hole Brook, July 12, '35, one specimen taken.

Paracymus Thomson

P. despectus (Lec.) (2818). Great Heath, Sept. 8.

Enochrus Thomson

E. perplexus (Lec.) (2836). Scarce. Taken only at the Narrows, Aug. 13, 1930.
E. cinctus (Say) (2837). New Mill Pond on milkweed, Aug. 29. One specimen.
E. hamiltoni (Horn) (2841). Station P386.
E. reflexipes (Zimm.) (2843). In a pool at the Narrows, Aug. 17.

Cymbidoma Bedel

C. fimbriata (Melsh.) (2850). Several specimens taken in a pool at the top of Breakneck Brook, Aug. 29, '35, and a few at the Narrows, Aug. 13, '30. Scarce.
C. vindicata Fall. (19277). Mt. Desert, May 1 (Br.).

Helocomus Horn

H. bifidus (Lee.) (2853). Record of capture lost.

Sphaerium Linnaeus

S. bipustulatum Fab. In cow pastures such as the ones at Town Hill in Aug. and Sept.

Cercyon Leach

C. littoralis (Gyll.) (2869). Sand Beach on melon rind, Aug. 13. Search seaweed at high tide mark for this and the next following.
C. depressus Steph. (2870). Sand Beach, Aug. 13. Much more scarce than the two following.
C. quisquilinus (Linn.) (2874). Taken under cow dung at Manset Ice Ponds, June 8; Town Hill, Sept. 1.
C. indistinctus (Horn.) (2880). June 14–Sept. 12. Widely spread and common, being taken from seaweed, on beach at S. W. Harbor to melon bait at Corfield and on bones at Penikese.
C. pygmaeus (Illig.) (2885). Taken under cow dung at Manset Ice Ponds, June 8; Town Hill, Sept. 1.
C. minisculum Melsh. (2891). Trash, fungi, etc. wet leaves. On a bone, Aug. 19.

C. haemorrhoidalis (Fab.). In cow pastures Town Hill, Sept. 1.

Cryptopleurum Mulsant

C. minutum (Fab.) (2899). S. W. Harbor, July 15. Not common. Frequents fungi and carrion that is not "strong."

Platypsyllidae

This family includes but a single species, the Beaver Beetle, which is permanently parasitic on the European and North American beaver. As there are many beavers on the Island I am including it although I have not had an opportunity to examine the host.

Platypsyllus Ritscher

P. castoris Rits. (2902). Record of capture lost.

Silphidae. The Carrion Beetles

As they frequent carrion and decaying fungi, they are best taken with meat traps. If the meat is placed in a small wide mouthed bottle, wire netting put over the mouth, and the bottle put in a jar in the ground, the beetles will be taken in a clean condition.

Necrophorus Fabricius. Burying-beetles


N. vespilloides Hbst. (2919). S. W. Harbor on dead shrew; Salisbury Cove on dead snake, July 11 (Sanford); Corfield, Aug. 10; Penikese, Sept. 19 in meat traps.

S. surinamensis Fab. (2922). In trapping this one, use fish bait placed near shore. Corfield, June 19; Green Mt., Aug. 31; Station F34, Penikese, Sept. 18–28, meat traps.

S. lapponica Hbst. (2923). Station F153, Aug. 31; Station F156, Sept. 15; Section 34, Sept. 19, all meat traps.

S. novaeboracensis Forst. (2927). Green Mt.; Bay Shore Drive, Sept. 8; Station F156, Sept. 15. Common and widely distributed.


**Nematus Thompson**

N. obliquus Fall. One taken in old log infested with red rot (Br.), Sept.

**Choleva Latreille**

C. luridipennis (Mann.) (2947). Taken once in meat trap, Station F155, Sept. 1.


C. clavicorxa (Lee.) (2952). Meat trap Section 28, Aug. 7.

C. horniana Blanch. (2953). Same habits as above. Section 26, Aug. 7.

C. terminans (Lee.) (2955). Corfield, Sept. 5. Foot of Breakneck Road with fish bait, Sept. 9.


**Prionochaeta Horn**

P. opaca (Say) (2957). Station F155, meat trap, Sept. 1; Corfield melon bait, Sept. 12; Station F233 meat trap, Oct. 1.

**Ptomaphagus Illinger**

P. parasitus (Lee.) (2965). In ant nest near Sal. Cove cross-road, Sept. 11 (Br.).
THE MOUNT DESERT REGION

P. brachyderus Lec. (2967). From an ant nest in stump, Sept. 28.
P. obliquus Fall. In old log with red rot (Br.), Sept. 23.
P. grascilicornis Fall. In carpenter ant nest in live spruce, May 1 (Br.).

HYDNOBIUS Schmidt

H. sp. Station F231, Oct. 8.

LEIODES Latreille

L. globosa (Lec.) (3021). Bar Harbor, Aug. 11.

AGATHIDIIUM Illiger

A. oxisoides Beauv. (3029). Witches Hole Brook under bark of wet maple log, Sept. 1. Lives under the bark of logs and trees showing fungus growth especially damp ones.
A. exiguum Melsh. (3030). Reared from poplar log from Newport Meadow, June 19; under bark on wet oak Jordan Mt. summit, Sept. 3.

SCYDMAENIDAE. The Ant-like Stone Beetles

Search for them in wet places under stones and bark and in ants' nests. They have much the same habits as Pselapids.

EUCONNUS Thomson

E. bicolor (Lec.) (3063). Mt. Desert, found all summer.

CONNOPHRON Casey

C. sp. Record of capture lost.

ORTHOPERIDAE (Corylophidae)
The Fringe-winged Fungus Beetles

GRONEVUS Casey

G. truncatus (Lec.) (3236). Pretty Marsh Landing under stone (Br.). Sifting old wood is said to be good collecting.
BIOLOGICAL SURVEY OF

STAPHYLINIDAE

The Rove or Short-winged Scavenger Beetles

They feed in decaying animal and vegetable matter upon larvae of flies, etc., and so are taken in meat traps. Fermenting cantaloupe rind is a wonderful bait. Breaking up decaying toadstools over a white bowl will give one many species that are otherwise overlooked.

PROTEINUS Latreille

P. parvulus Lec. (3322). Sweeping at Station F130. In U.S.N.M. Rare.

TRIGONODEMUS Leconte

T. striatus Lec. (3335). Record of capture lost.

ANTHOBium Stephens

A. convexum Fauv. (3339). Frequent the flowers of haw and elder. Taken by beating. Bar Harbor, June 23 (Br.).
A. pothos Mann. (3347). A northern species same as above; one specimen taken S. W. Harbor, June 17.

OMALiUM Gravenhorst

O. rivulare (Payk.) (3387). One specimen taken in dry decayed toadstool, Oct. 3; in U.S.N.M. Rare.
O. foraminosum Makl. (3376). Over winter bait of feathers and skin at Sea Wall Bog. Rare.

ACIDOTA Mannerheim

A. crenata (Fab.) (3424). Found often in apple blossoms. Mt. Desert, Aug. 28–Sept. 17 (Br.).
A. subcarinata Er. (3425). Western Mt. summit, Sept. 30. Bernard, Oct. 5; sweeping blueberry scrub at both places.
THE MOUNT DESERT REGION

OLOPHORUM Erichson

O. obectum Er. (3412). Foot of Newport Mt. sweeping rank herbage F414, Sept. 18.

PARALESTIVA Casey

P. biguttula (Lee.) (3431). In leaf litter, Nov. (Br.).

TSOGOPHLOEUS Mannerheim


OXYTELUS Gravenhorst

O. laqueatus Marsh (3376). Mt. Desert, Aug. 18 (Br.).
O. sp. Around the Ice Ponds at Manset, F316.

PLATYSTETHUS Mannerheim

P. americanus Er. Eden truck garden, Sept. 5.

BLEDIUS Mannerheim

B. philadelphicus Fall (3623). Station F382.

STENUS Latreille

S. laccophilus Csy. (3718). Mt. Desert, Sept. 17 (Br.).
S. juno (Fab.) (3719). Under logs and in rubbish in woods.
   Great Heath, Aug. 28.
S. mammops Csy. (3782). In moss (Br.), May 21.
S. egenus Er. (3788). Sea Wall Bog, Aug. 1.
S. ageus Csy. (3795). Mt. Desert, July 4 (Br.).
S. flavicornis Er. (3832). Look under leaves for these. S.
   W. Harbor, July 13.

EUAESTHTUS Gravenhorst


PAEDERUS Fabricius

P. littorarius Grav. (3952). Tremont, May 25 (Br.).
LITHROBIUM Gravenhorst

L. sp. Two specimens, Oct. 22, '39. In U.S.N.M.

DERATOPEUS Casey


STILICTUS Latreille

S. sp. near obtusus. Under bark Quercus borealis, June 28.

XANTHOLININAE

X. gen. Bar Harbor (Br.), Sept. 22.

NUDOBRIUS Thomson


GYROHTYPUS Mannerheim

G. obsidianus (Melsh) (4296). One specimen taken at Penikese in Aug. In U.S.N.M.
G. obscurus (Br.) (4308). Corfield in lawn, Aug. 11. This is species vera according to Fall. Another very dark individual was taken May 3 (Br.).
G. sp. Record of capture lost.

LEPTACINODES Casey


BAPTOLINUS Kraatz

THE MOUNT DESERT REGION

Actobius Fauvel

A. cinerascens (Grav.) (4372). Station F348.

Philonthus Curtis

P. varians (Payk.) (4421). On fungi, Sept. 30.
P. lomatus Er. (4443). Pretty Marsh Landing, Aug. 21 (Br.).
P. cyanipennis (Fab.) (4447). A widely distributed form from the middle of June to Sept. Attracted easily by melon bait.
P. sordidus (Grav.) (4450). Mt. Desert, Sept. 19 (Br.).
P. validus Csy? (4483). Mt. Desert, May 1–4 (Br.).
P. sp. near bidentatus (4466). In leaf litter, Nov. (Br.).
P. sp. near quadricollis. Corfield on grass, Oct. 20. In U.S.N.M.
P. sp. Lower Breakneck Road on catkins, Apr. 25.
P. sp. Mt. Desert, Sept. 10 (Br.).
P. sp. near pallidus. Neport Mt. meat bait, June 15.
P. sp. near incipiens. Station F385.
P. sp. Corfield melon bait, July 16, '39.
P. sp. Bar Harbor (Br.), May 20, '38.
P. sp. Bar Harbor (Br.), Apr. 9, '38.
P. sp. Lower Breakneck fish bait, Sept. 5.
P. sp. Bar Harbor (Br.), Aug. 29, '37.
P. sp. Lower Breakneck fish bait, Sept. 5, '39.

No two of the above species are the same.
BIOLICAL SURVEY OF

STAPHYLINE LINNEUS

S. vulpinus Nordm. (4532). Rhodora Meadow under stone.
S. fossator Grav. (4543). Green Mt.; Bar Harbor, July 25–Aug. 15; Station F266, Aug. 21; Breakneck under horse dung, Aug. 3–Oct. 10. This species frequents the stinkhorn fungus.
S. cinnamopterus Grav. (4545). Station F110, July 30; Bar Harbor, Aug. 10; Fair Grounds, Aug. 25.
S. violaceus Grav. (4546). Wild Cat Valley, Aug. 8 (Sanford). Scarce.

OCYPUS Kraatz

O. at~~~ (Grav.) (4551). Station F285, Aug. 21; S. W. Harbor, Sept. 5 (Alexander).

ONTOLESTES Ganglbauer

O. cingulatus (Grav.) (4552). Bar Harbor; S. W. Harbor, June 7–July 24; Corfield in toadstools, Sept. 5. Generally distributed but not numerous.

CREOPHILUS Mannerheim

C. maxillosus var. villosus (Grav.) (4555b). Penikese, June 23; Station F59 and F60, Sept. 19. Generally distributed on carrion and fungi.

ACYLOPHORUS Nordmann

A. pronus Er. (4565). Station F386 on Sphagnum.
Quedius Stephens

*Q. hyperboreus* Er. (4618). Bar Harbor (Br.), May 24.

Oxyporus Fabricius

*O. vittatus* Grav. (4634). Western Mt. in toadstool, Sept. 13; Paradise Hill in toadstools, Sept. 27.
*O. fasciatus* Horn (4635). Duck Brook; Echo Lake, Sept. 3–11 on decaying fungi.
*O. bicolor* Fauv. (4636). Echo Lake; Long Pond; Bar Harbor, Aug. 29–Sept. 11.
*O. lateralis* Grav. (4637). Bar Harbor, Record of date lost.

Hypocyphtus Mannerheim

*H. sp.* Corfield, Sept. 25.

Tachinus Gravenhorst

*T. addendus* Horn (4660). Mt. Desert (Br.), Sept. 10.
*T. parallelus* Horn (4661). Mt. Desert (Br.), May 12.
*T. luridus* Er. (4664). Several taken at Corfield with melon bait, July 31, '34, and no others ever taken.
*T. fimbriatus* Grav. (4665). Narrows; Bar Harbor, July 13–Aug. 10. Western Mt., Sept. 13; Corfield with melon bait and Breakneck Road in meat trap, Sept. 10. At sap crack yellow birch, Apr. 30.
*T. picipes* Er. (4666). Narrows; Bar Harbor, July 13–Aug. 10.
T. circumcinctus Mäkl (4673). Feather and bone bait left over winter Sea Wall Bog, May 28.
T. propinquus Mann. (4677). Western Mt.; Lower Breakneck; Green Mt., Sept. and Oct. with melon, fish or fungi bait. A common form.
T. n.sp. Corfield in fungi, Sept. 2.
T. n.sp. Corfield, Oct.

Tachyurus Gravenhorst

T. jocosus? Say (4681). Mt. Desert, June 12 (Br.).

Conosoma Kraatz

C. knoxi Lee. (4695). Bred from fungi, Sept. 20 (Br.).
C. imbricatus Casey (4698). Bred from white birch, June 11; Narrows, Aug. 3 (Sanford). Corfield, Sept. 15.

Bolitobius Stephens

B. cincticollis Say (4723). All of this genus are fungi feeders and live in damp places. Cedar swamp on Eagle Lake Road in meat trap, Sept. 3. Salisbury Cove, Duck Brook, July 23–Sept. 11.
B. cinctus (Grav.) (4730). Corfield on fungi, Sept. 27.
B. quaesitor (Horn)' (4732). In white birch fungus, Breakneck Ponds, June 1.
B. sp. In old log with red rot, Sargent Mt. Road, Sept. 23.
Bryoporus Kraatz


Mycetoporus Mannerheim

M. pictus Horn (4743a). Mt. Desert on fungi, Sept. 22 (Br.).

Myllaena Erichson

M. sp. Bar Harbor, Sept. 25.

Bolitochara Mannerheim

B. sp. This genus lives in damp debris. One specimen taken in 1933. Rare.

Gyrophaena Mannerheim


Atheta Thomson

A. sp. This genus lives in fungi and moist vegetable debris. Best taken by sifting. S. W. Harbor, Aug. 26.

Aleocharinæ

Large series of these have been taken on fungi and set aside, for at present nothing can be done with these.

Aleochara Gravenhorst

A. curtula? Goeze (5763). Mt. Desert, Sept. 17 (Br.).
A. lata Grav. (5766). Found under carrion. Penikese in meat trap, Sept. 16.
BARKODMA THOMSON

B. sp. Feather and bone trap left over winter at Sea Wall, May 28.

PSELAPHIDAE. The Ant-loving Beetles

They live beneath bark and stones and feed on minute forms. When turning stones for them, do not hurry, for they often "play dead." Sifting dry trash in the winter is productive and I have taken them by sweeping around swamps at dusk in the autumn. They excrete a substance of which ants are fond and so are tolerated and found in ants' nests.

It is said that several species of these beetles are on the border line between parasitism and predatism. See Ann. Ent. Soc. Amer., 3: 581–601, 1943, and Ent. News, 8: 197, 1944.

BASOLUM CSEY

B. sp. The only one taken. The genus is clear but specialists could not give an opinion on species. Gt. Heath, Aug. '38.

REICHENBACHIA LEACH


BRACHYGLUTA THOMSON

B. sp. Flying at dusk on edge of swamp in Tremont. All were females so species cannot be determined.

REYBAXIS SAULEY

R. clavata (Bdnl.) (6311). July 4.
R. sp. A female which prevents determination. Tremont, flying at dusk, Oct. 10.
Pilopius Casey


Tyrus Aubé

T. humeralis (Aubé) (6382). Taken from under bark on log. Sec. 15, Oct. 4, '34. Very rare.

Phyllidae

Several genera and numerous species of these minute "featherwing" beetles are to be found in abundance. They and their larvae devour the ripe spores of fungi, and the commoner species frequent old vegetable accumulations, manure, certain ripe fungi, etc. The long ciliae on their wings are thought by H. S. Barber to serve, like thistledown, to gain wide dispersal of the various species.

Acaratrius Motschulsky

A. sp. In cow pastures at Town Hill in Aug.–Sept.

Scaphididae. The Shining Fungus Beetles

Look beneath the bark of rotten logs wherever mold or fungus is forming in damp surroundings.

Scaphisoma Leach

S. convexum Say (6489). In limited numbers on fungi throughout the summer and is widely distributed.

Baeocera Erichson

Histeridae. The Hister Beetles

These are best taken with meat traps in the same manner as the Silphidae.

**Hister Linnaeus**

H. *cognatus* Lec. (6592). Station F266.
H. *depurator* Say (6606). Found in decaying fungi and other matter. Taken in meat traps. Common throughout the year.

**Platysoma Leach**


**Cylistix Marseul**

C. *gracilis?* Lec. (6663). Spruce stump, Penikese. This specimen has the preponderance in favor of the above species, but may be an undescribed one.

**Psiloscelis Marseul**


**Isomalus Lewis**

I. *bistriatus* Er. (6724). Station F387.

**Plegaderus Erichson**

P. sp. Record of capture lost.
SAPRINUS ERICHSON

S. assimilis Payk. (6836). Found on dead fish, snakes, etc., and fairly common. Taken with fish bait in Aug. Hulls Cove, Aug. 8 (Sanford).


GNATHONCUS DUVAL


LYCIDAE

Beating vegetation and searching under loose bark on trees is the only way I know of taking this family.

CALOPTERON GÉRIN-MENÉVILLE

C. reticulatum (Fab.) (6926). Eden crossroad, Station F349.

CAENIELLA COCKERELL

C. dimidiata (Fab.) (6929). Mt. Desert, July 7 (Br.).

CELETES NEWMAN

C. basalis Lee. (6931). Eden; Echo Lake; N. E. Harbor, July 15–Aug. 23.

EROS NEWMAN


PLATEROS BOURGEOIS

P. canaliculatus (Say) (6946). Station F23, July 14; Mt. Desert, July 19.

P. sp. Salisbury Cove, July 19.
LAMPYRIDAE

The Fireflies or Lightning Bugs

Looking under loose bark will take them on dark days but sweeping and beating is the better method. June and July are the best months. After a very dry May in both 1943 and 1944 this family were very abundant, while in 1945, after a very wet May, they were exceedingly scarce.

LUCIDOTA Laporte

L. *corrusca* (Linn.) (6975). Station F17, June 13; Section 15 sweeping low herbage. A common and widely distributed form with considerable size variation. Found after frost under bark of trees.
L. *corrusca* var. *autumnalis* (Melsh.) (6975a). Same as above in every respect.
L. *corrusca* Linn. var. *lacustris* (LeC.) (6975b). This form is not common. Outlet Eagle Lake sweeping *Solidago*, Aug. 25.
L. *nigricans* (Say) (6978). Penikese on grass, July 3; S. W. Harbor; Bar Harbor, July 20–Aug. 10.

PYRACTOMENA Leconte

P. *angulata* (Say) (6984). Common June and July and taken by sweeping.
P. *borealis* (Rand.) (6985). Long Pond, June 28; Corfield on grass at night, Aug. 17.

PHOTINUS Lacordaire

P. *ardens* (Lec.) (6990). Common, June through August.

PHOTURIS Leconte

P. *pennsylvanica* (DeG.) (7013). Common in July and taken by sweeping bushes.
Cantharidae. The Soldier Beetles

Searching in flowers as well as sweeping and beating is the method.

Chauliognathus Hentz

*C. pensylvanicus* DeG. (7051). Common on *Solidago* and allied plants. Station F264 matting, Aug. 10.

Podabrus Westwood

*P. rugulosus* Lec. (7056). Corfield flying, June 6; Station F169 sweeping, June 25; N. E. Harbor, July 22.

*P. diadema* (Fab.) (7061). Bar Harbor; S. W. Harbor; Penikese beating, June 7–July 10. Not common.

*P. modestus* (Say) (7062). Station F200, June 24; S. W. Harbor; Echo Lake; Long Pond, June 27–July 16.


Cantharis Linnaeus

*C. fraxini* Say (7096). Near Toad Hole, Station F337 sweeping ferns in shade.

*C. carolinus* Fab. (7097). This whole genus is found on flowers and shrubs preferably in damp places and this species is fond of *Crataegus*.


*C. scitulus* Say (7106). S. W. Harbor; Salisbury Cove; Bar Harbor, July 13–24.


*C. tuberculatus* var. *armiger* Couper (7119a). On alder and shrubs edging marshes. Bar Harbor, June 24; Station F70, Aug. 8. Scarce.
C. bilineatus Say (7121). Bald Mt. sweeping blueberry and wild cherry blossoms, June 6.

C. neglectus Fall (19484). Penikese beating bushes in bloom, June 15.

C. andersoni Frost (19485). Corfield on oak leaves, June 20; Penikese beating, June 20.

Silius Latreille

S. percomis (Say) (7152). One specimen taken at Penikese, June 1, '28.

Malthodes Kiesewetter


M. sp. Corfield on wild roses, July. The numerous species of *Malthodes* seem to differ in the male characters, the females being at present not identifiable.

Melyridae

Collops Erichson

C. tricolor (Say) (7196). Bar Harbor (Moore); Long Pond, June 27; Green Mt. on lichen 1300 ft., July 20; Section 24, July 2.

Malachius Fabricius

M. aeneus (Linn.) (7238). An introduced species which appears around the middle of May on low growing flowers like wild mustard, etc., and has a general distribution. Taken up to the last of June.

Attalus Erichson

A. terminalis (Erichson) (7294). Bar Harbor, June 23 (Br.); S. W. Harbor; N. E. Harbor, July 20–26; Green Mt. 1200 ft., July 20.

Cleridae. The Checkered Beetles

They occur on trees where they prey upon the wood boring species and on shrubs and flowers.
Thanasimus Latreille


Enoclerus Gahan

E. nigripes var. rufiventris Spin. (7596b). Taken on spruce logs, July 3–Oct. 10; Eden; Sec. 23; Western Mt.; Corfield.

Trichodes Herbst


Hydnocera Newman

H. humeralis var. difficilis Lec. (7646a). Penikese; S. W. Harbor, July 12–19 sweeping bushes; Green Mt. 1200 ft. on scrub, July 20.
H. subaenea Spin. (7670). Middle Road, on Spiraea, Aug. 6.

Isohydnocera Chapin


Zenodosus Wolcott


Corynetidae

Phyllobaenus Spinola

BIOLOGICAL SURVEY OF

NEKROBIA Latreille


LYMEXYLIDAE. The Ship-timber Beetles

Represented in this country by three known species. Very destructive to ships and paneling in houses.

HYLECOETUS Latreille

H. lugubris Say (7739). In a house, May 8 (Br.).

CEPHALOIDEA

Beating and sweeping rank herbage will show results.

CEPHALOON Newman


TYPITIUM Casey

T. ungulare (Lec.) (7748). Echo Lake, July 17.

Oedeemeridae. The Oedemerid Beetles

NACERDA Stephens

N. melanura Linth. (7763). Corfield flying at dusk, Aug. 5.

CALOPUS Fabricius


ASCLERA Stephens

A. ruficollis (Say) (7800). Occurs on some spring flowers and on willow and wild plum, Witches Hole, June 13.
THE MOUNT DESERT REGION

Mordellidae. The Tumbling Flower Beetles

Beating branches and sweeping flowers is the method. In peonies is a good place to look.

Tomoxia Costa

T. lineella Lec. (7805). Duck Brook, Aug. 18, beating bushes.

Mordella Linnaeus

M. scutellaris Fab. (7811). Found on Solidago and other Compositae at times in numbers; Gt. Pond, Sept. 7.
M. marginata Melsh. (7817). Found on flowering bushes and Compositae until Sept. Penikese, Sept. 7; Sec. 26, July 12; Station F288, Sept. 19.

Mordellistena Costa

M. trifasciata (Say) (7838). Salisbury Cove, Aug. 11.
M. limbalis (Melsh.) (7841). S. W. Harbor; Eagle Lake; Bar Harbor, July 20–29.
M. scapularis (Say) (7858). Eagle Lake, July 18.
M. cervicalis Lec. (7859a). "Mt. Desert" on specimen in N. E. S. N. H.
M. marginalis (Say) (7901). Bar Harbor, Aug. 10.
M. sp. Green Mt. summit sweeping bushes, July 26.

Anaspis Geoffroy

E. **pennsylvanica** (DeG.) (8033). Middle Road on *Spiraca*, Aug. 6.

E. **(macrorhysis)** Fabr. (Lee.) (8042). Found from the middle of June to last of July on meadow rue, lupin, and the like, always in small colonies of from 50 to 100. Saw a potato patch at Narrows being rapidly defoliated, July, '34.

**Melle Lindens**

M. **americanus** Leach (8148). From the first of Sept. this beetle is found in the grass around orchards on goldenrod and the like until cold weather. Widely distributed, but not numerous.

**Pythidae. The Pythid Bark Beetles**

**Salpingus Gyllenhali**

S. **viroescens** Lee. (8211). On dead spruce, Station F402. There are only 20 species in the family.

**Rhinomimus Latreille**


**Pyrochroidae. The Fire-colored Beetles**

Look under decayed bark for these and put pieces of fruit under bark on logs to let it ferment.

**Ischalis Passoe**


**Schizorus Newbor**

S. **cervicalis** Newb. (8224). Taken from under loose bark, white birch Upper Hadlock Pond, June 10. Rare.
DESTRIS LATREILH


ANTHEMIDAE. The Ant-like Flower Beetles

ANTHICUS PAYKULL

A. cervinus Laf. (8417). Pretty Marsh under stone on sand which was the proper place to find it, Aug. 21.

ELATERIDAE. The Click Beetles

All of the species of this family are vegetable feeders, either upon the roots of grasses or the juices of rotten wood. The larvae are known as "wire-worms" and are difficult to raise, as many require several years to complete their growth. They are best collected by beating and from old logs and stumps, but many may be lured to sweet bait on trees which should be visited at night. Some of the most scarce and interesting species occur on the earliest "catkins."

ADELOGERA LATREILLE

A. obtecta (Say) (8558). A northern form. Taken from under the bark of dead trees, Eden, June 25. Scarce.

PITTOURIUS LECORE

P. anguinusLee. (8617). Mt. Desert, June 30–July 6 (Br.).

LIMONIUS EICHSHOLTZ

L. aeger Lee. (8631). Hunters Beach Brook sweeping fern, June 19; Penikese beating, June 21.

ATHOUS EICHSHOLTZ

A. brightwelli (Kby.) (8662). Beaten from foliage of oak and beech, Bar Harbor; Newport Cove, July 11–22.
A. acanthus (Say) (8663). Bar Harbor, July 24; Station F212, July 21.
A. rufifrons Rand. (8676). Station F24, July 15.
A. sp. Runs to posticus. Station F252.

Lepturoides Herbst

L. denticornis (Kby.) (8699). A common form particularly in June.

Ludius Eschscholtz (Corymbites Latreille)

L. vernalis (Heutz) (8706). Lower Breakneck on catkins, Apr. 25. Rare.
L. cylindriformis (Hbst.) (8721). Mt. Desert, May 12–23 (Br.).
L. appressus (Rand.) (8729). Record of capture lost.
L. tarsalis (Melsch.) (8738). Penikese sweeping, June 17; Stations F240, F242 and F301. Common.
L. spinosus (Lee.) (8739). Near Bar Harbor (Burton).
L. falsificus (Lee.) (8745). Mt. Desert, May 19–22 (Br.).
L. hamatus (Say) (8762). Upper Breakneck on catkins, Apr. 25; Tarn, June 4; N. E. Harbor, Aug. 13 (Minot).
L. triundulatus (Rand.) (8766). S. W. Harbor, June 27; Stations F17, F196, F242 and F278.
L. medianus (Germ.) (8769). Generally distributed and taken by beating, May 22–Aug. 23.
L. nigricornis (Panz.) (8778). Echo Lake, July 12.
L. aratus (Lee.) (8779). Station F191; S. W. Harbor, July 10.
L. cruciatus (Linn.) (8793). Narrows, June 9; Long Pond, June 10; Bar Harbor, July 22; Stations F239 and F243. Common.
L. hieroglyphicus (Say) (8796). Section 26 beating, June 24; Corfield, July 8.
Hemicrepidius Germain (Asaphes Kirby)

H. bilobatus (Say) (8817). Record of capture lost.

Cryptohypnus Eschscholtz

C. abbreviatus (Say) (8826). Lower Breakneck on catkins, Apr. 25.
C. tumescens Lee. (8841). Record of capture lost.

Hypnodius Stephens

H. pectoralis? (Say) (8849). This small form hibernates under bark and logs. Taken but once, Green Mt. 1200 ft. sweeping scrub.

Oxygonus Leconte

O. montanus Schaeffer (8876). Penikese, May 23, sweeping. Rare, and I am told that this is one of the few known records.

Dolopius Eschscholtz


Sericus Eschscholtz

S. incongruus (Lee.) (8882). Mt. Desert, May 22 (Br.).

Agriotes Eschscholtz

A. mancus (Say) (8885). Beetles in this genus are best taken by beating. Stations F94 and F130.
A. stabilis (Lee.) (8886). Echo Lake; June 27; Penikese beating, June 20.
A. fucosus (Lee.) (8888). S. W. Harbor; Long Pond; Bar Harbor, June 27–July 19.
A. FERRUGINEIPENNIS (Lee.) (8890). Bar Harbor, June 16.
A. LIMOSUS (Lee.) (8894). S. de M. Spring flying, May 25; S. W. Harbor; Echo Lake, July 11-17.

AGRIOTELLA Brown


ELATER Linnaeus

E. PULLUS Germ. (8932). Pine stump, Station F270.
E. PEDALIS Germ. (8960). One taken in Tremont, May 25. This species is said to frequent larch.
E. MIXTUS Hbst. (8964). S. W. Harbor, June 29; Mt. Desert (Br.), July 6.
E. NIGRICANS Germ. (8969). Echo Lake, June 17; Eden on cord wood, July 2.

MELANOTUS Eschschoitz

M. CASTANIPES (Payk.) (9015). Boyd Road under bark of pine, which is the best place to look for it; Bar Harbor; N. E. Harbor; Long Pond, in July.
M. LEONARDI (Lee.) (9031). Corfield, June 14; Mt. Desert (Br.), June 28; Penikese beating, June 21; Station F271.
M. COMMUNIS (Gyll.) (9035). Corfield sugaring, Aug. 5; Section 14 on poplar, Aug. 11. The larvae feed on corn roots.
THE MOUNT DESERT REGION

Cardiophorus Eschscholtz

C. gagates Er. (9087). Best taken by beating. Mt. Desert (Br.), May 28; Station F191; Echo Lake, June 27; Station F401.

Melasidae

Fornax Castelnau

F. orchesides (Newn.) (9150). Bar Harbor, July 18 (Br.).

Microhagus Eschscholtz


Epiphaxis Eschscholtz

E. cornutus Esch. (9175). One specimen taken July 5, ’36 (Br.). Very rare.

Triagidae. The Pseudo Click Beetles

Aulonothroscus Horn


Trixagus Kugelann


Buprestidae

The Flat-headed or Metallic Wood-borers

The larvae live beneath the bark of trees which are just beginning to decay and are usually the first to attack a tree that in some way has lost its vitality. They are best taken on stumps, logs, and stacks of cord wood, in open places where they repair to sun themselves, especially in the morning. Later in the season the best method is beating isolated trees.


C. **fortis** Lec. (9320). Mt. Desert, July 9–18 (Br.).

C. **liberta** (Germ.) (9321). Bar Harbor, July 7 (Br.). The larva is a feeder on fir.

**Dicerca** Eschscholtz

D. **divaricata** (Say) (9333). Maple, apple, beech and cherry are the habitats of the larvae. Corfield, June 23; Morrell Park, Aug. 14; Station F152, Sept. 6.


D. **prolongata** Lec. (9335). Upper Breakneck on poplar, June 7; Mt. Desert (Br.), June 25; Eden on cord wood, July 3.

D. **tenebrosa** (Kby.) (9345). Record of date and place lost.

D. **chrysea** Melsh. (9346). Penikese on ground, May 29; Eden on cord wood, June 24—July 5.

D. **tuberculata** (Cast.) (9349). Reared from larch.

**Poecilonota** Eschscholtz


**Buprestis** Linnaeus

B. **sulcicollis** (Lec.) (9360). Corfield, July 29. This form is very rare in New England. It is found generally along the N. shore of Lake Superior.

B. **striata impedita** Say (9363a). On pine July–Aug.

B. **maculativentris** Say (9370). Eden, on cord wood, July 14; Corfield, July 20–Aug. 15; Morrell Park, Aug. 3.


B. **fasciata** Fab. (9377). Ironbound Island (Blaney).
THE MOUNT DESERT REGION

MELANOPHILA Eschscholtz

M. fulvoguttata (Harr.) (9387). "Yellow-dotted Buprestis." Is found on pine and spruce logs where the larvae live beneath the bark. General distribution and common.

CHRYSOBOTHRIS Eschscholtz


C. sexsignata (Say) (9405). Station F211, July 30; Corfield, Aug. 13. Scarce.
C. trinervia (Kby.) (9458). Mt. Desert (Br.), June 6-18; Eden on cord wood, July 3; Long Pond, July 16. The larvae live in pine and spruce.
C. orono Frost (19652). Witches Hole Brook, Station F74.
C. dentipes (Germ.) (9461). Long Pond; Bar Harbor, June 7-July 29. Taken generally in small numbers on pine and spruce logs which are the habitat of the larvae.
C. femorata (Oliv.) (9466). Large numbers taken on poplar, oak, apple and other trees.
C. scabripennis Cast. (9468). Found from latter part of June to end of July sun basking on freshly cut wood of all kinds.

AGRIUS Stephens

A. anxius Gory (9504). The Bronze Birch-borer. The larvae of this whole genus live in stems and twigs of shrubs and trees. Adults best taken by beating. Penikese, June 21; Corfield, July 22; Witches Hole on raspberry, July 24; Western Mt., Sept. 13.
A. pensus Horn (9512). Mt. Desert, June 27 and Salisbury Cove, Aug. 12 (Br.).
A. ruficollis (Fab.) (9513). The Red-necked Borer, Salisbury Cove, July 23. The larva bores into the stalks of blackberries and raspberries. Taken eating blueberry leaves.
A. lateralis (Say) (9514). Eden; S. W. Harbor, July 14–21. It breeds around the base of *Myrica*.
A. politus (Say) (9542). Eden, July 23.
A. obsoletoguttatus Gory (9547). Section 26 mating pair, June 24; Mt. Desert, Aug. 9. Oak is the host.
A. communis var. rubicola Abeille (19658). This was formerly (*A. viridis var. fagi Ratz*). Station F242 from catkins, Apr. 21; Station F247 sweeping ferns, July 2.

**Brachys Solier**

B. aerosus Melsh. (9572). Bar Harbor, June 22; Penikese, July 12; Station F99. Larva lives in oak and elm.
B. aeruginosus Gory (9573). Eden, July 18. Beaten from oak which is the host tree.
B. ornata var. belporti (9574a). Nicolay & Weiss. Reared ex *Quercus borealis*.

**Taphrocerus Solier**


**Pseshenidae**

**Pseshenus** Haldeman

P. herricki DeKay (9586). But one specimen taken, July 12, 1935 at New Mill Pond outlet creeping over wet stones as is its custom. One of the four species that represent the genus in this country. Brook from Toad Hole. The larva is called Water Pennie.

**Helmidae**

One of course goes to the brooks for these, and their relatives, the Dryopidae. For the best method of collecting, see Dr. Musgrave in Canadian Entomologist, Vol. LXVII, No. 3, March, 1935.
Stenelmis Dufour

S. crenata (Say) (9609). The only one of the family that is taken generally. Duck Brook; Witches Hole Brook; Breakneck Brook, and outlet of New Mill Pond, July 7–Aug. 24.

S. concinna Sandn. Brook at Toad Hole. This is a Northern form and the first record from Maine. Series taken Aug. 26.

Helmis Latreille


Limnius Erichson

L. tardellus Fall. But one specimen taken in Witches Hole Brook, July 12, '35. I am using the old name. It is now (Heterlimnius (Limnius) tardellus).

Macronychus Müller

M. glabratus (Say) (9640). But two specimens taken at New Mill Pond outlet, July 20, '35.

Heteroceridae. The Mud-loving Beetles

Heterocerus Fabricius

These live in galleries, which they make in the sand or mud along the borders of streams.

H. undatus var. mollinus Kies. (9643c). Great Heath, swept from Myrica (Br.). Oct. 5.

H. brunnneus Melsh (9648). Brook east of Section 20 in bank.

Dascillidae. The Soft-bodied Plant Beetles

Beating trees and bushes and sweeping scrub is the method for this family.
Macropogon Motschulsky


Eurypogon Motschulsky

E. niger (Melsh.) (9659). Bar Harbor, June 23 (Br.); Eden, July 8. Said to frequent oak.

Helidae

Beating for some and sweeping for others is the course to pursue in this group.

Helodes Latreille

H. pulchella Guer. (9687). The form that has the humeral spots united to the elyteral vittae and a scarce one. Green Mt., July 4.

Cyphon Paykull

C. ruficollis (Say) (9692). Taken by beating leaves of bushes and trees Bar Harbor, June 22.
C. collaris (Guér.) (9697). Said to occur on tamarack. Taken by sweeping along banks of Somes Sound Inlet at edge of woods, June 22; Bar Harbor; Eden, July 15–24.
C. collaris (Guér.) (9697). Species near or possibly a n. sp. Elytral disk different. Green Mt., July 4.
C. variabilis (Thunb.) (9698). Paradise Hill on fungus. Sweeping on Great Heath. Somes Sound Inlet sweeping. Beginning on willow catkins Apr. 27, I have taken it until frost in October.
C. padi (Linn.) (9699). Swept from ferns nearly dead at Bubble Brook, Oct. 1.
C. sp. Station F308.
Prionocyphon Redtenbacher

The two species above are the only ones listed in the Leng Catalogue.

Scirtes Illiger

S. orbiculatus (Fab.) (9709). Road to Toad Hole, July 6.

Byturidae

Byturus Latreille

B. sp. One specimen taken at Station F308.
B. sp. One specimen taken beating catkins along the Middle Road, Apr. 23, F308.

Dermestidae

One does not have to search for these. They come to the cabinets freely and of their own accord.

Dermestes Linnaeus

D. lardarius Linn. (9737). The Larder beetle. Common and general distribution. Easily taken with a piece of bacon. It is on the wing with us the last of May.
D. vulpinus Fab. (9732). Record of capture lost.
ATTAGENUS Latreille

A. piceus Oliv. (9742). Black Carpet Beetle, Bar Harbor, July (Moore); Bar Harbor, May 19–June 1 (Br.). Penikese, July 25.

TROGODERMA Latreille

T. inclusa Lee. (9785). Bar Harbor, Apr. 20 (Br.).

ANTHRENUS Latreille

A. scrophulariae (Linn.) (9829). Buffalo Carpet Beetle. Common in white daisies eating center. Appeared in eastern U. S. from Europe about 1874 and has become our most serious household pest.
A. museorum (Linn.) (9837). Museum Beetle. On flowers of Ilex verticillata Bar Harbor, July 8 (Br.); Eagle Lake; Great Pond, July 16–Aug. 10. Sweeping.

BYRRHIIDAE. The Pill Beetles

They live around the edge of water in the roots of grasses and the way to take them is to dig or pull up roots, particularly in sandy places and search for them there.

CYTILUS Erichson

C. alternatus (Say) (9864). Fawn Pond on leaves under water, June 30. Bar Harbor, June 10 (Br.). Not common.

BYRRHUS Linnaeus

B. geminatus Lee. (9873). In moss, Oct. (Br.). Also found around roots of grass tufts in loose soil.
Ostomidae (Trogositidae)

The Grain and Bark-gnawing Beetles

Recent studies have lifted the curse that was on this family for gnawing grain, as it appears that they are there to gnaw the larvae of those that do. However, the best place to take them is under bark, particularly where fungus is at work.

Tenebroides Piller and Mitterpacher

T. corticalis (Melsh) (9994). Tarn under bark of dead maple. Under bark of birch and Quercus borealis. Station F387.

T. sp. Under bark of dead maple at the Tarn, May 23.

Calyx Thomson

C. scabra (Thunb.) (9998). Taken from old fungus on stump Bar Harbor, Oct. 7 (Br.).

Thymalus Latreille


Nitidulidae. The Sap-feeding Beetles

Any syrupy liquid with a fruit flavor will attract these, but the best bait I have found is cantaloupe rind placed loose in some paper on the ground in an open, but shaded, place. Anything that is fermenting is good bait.

Colopterus Erichson

C. truncatus (Rand.) (10032). Bay Shore Drive sweeping, Sept. 12.

Conotelus Erichson

C. obscurus Er. (10035). Large numbers in the flowers of bind weed (Convolvulus) Middle Road early in July.

Nitidula Fabricius


Omosita Erichson

O. colon (Linn.) (10069). An introduced European species. Common throughout the summer and probably hibernates, as it is an early arrival. On fungi, bones, and may be taken with melon bait.

Epurea Erichson

E. helvolae Er. (10073). Occurs all summer from sap to fermenting fruit and fungi. Taken with melon bait. September best month.

E. immunda Sturm. (10081). (terminalis Mann.). Corfield, Sept. 12, with melon bait. Nurseries Sept. 7 on Polygonum sp.

E. peltoides Horn (10091). Corfield, June 28 with melon bait. Rare.

Brachypterolus Grouvelle

B. mordelloides (Notm.) (19687). Mating pair in butter and eggs, (Linaria) at Flying Place, Sept. 18.

Phenolia Erichson

P. grossa (Fab.) (10109). Under oak bark in Polyergus sulphureus, Thompson Farm, Sept. 11 (Br.).

Stelidota Erichson

S. geminata (Say) (10098). Occurs on sap in spring and decaying fruit throughout the summer. Common.

Cryptarcha Shuckard


Glischrochisus Reitter (Ips of authors)

G. fasciatus (Oliv.) (10137). Taken all summer from sap and fermenting fruit. Common.

G. quadrirrignata var. vera (Say) (10137). Same as above, Corfield, Sept. 12. Rare.


Rhizophagidae

Under bark is the place to search for these.

Rhizophagus Herbst

R. remotus Lee. (10152). Mt. Desert under bark, Sept. 18 (Br.).

Monotomidae

Monotoma Herbst

M. producta Lee. (10158). Taken from seaweed gathered on the beach at S. W. Harbor, Sept. 20.

Cucujidae

Sylvanus Latreille

S. bidentatus (Fab.) (10198). Under bark and in grain in old buildings. Sifting is best method. Taken in rotten apples (Br.), Sept. 4.
Cucujus Fabricius

C. clavipes Fab. (10221). Occurs under bark of freshly felled poplar, etc. One taken in a spider web and one on beech (Br.). One at Corfield, Apr. 30–May 22. Rare.

Erotylidae. The Pleasing Fungus Beetles

Tritoma Fabricius

T. dissimulator Cr. (10310). Adults frequent fungi in late summer to oviposit and the larvae feed upon the juices. Newport Meadow in poplar log, June 12.
T. macra Lee. (10332). Breakneck Road on fungus under white birch bark (Br.), Sept. 19. Some in pupal cases.

Derodontidae. The Tooth-neck Fungus Beetles

Laricobius Rosenhauer

L. erichsonii Rosenh. (10350). Mt. Desert, Apr. 26 (Br.).

Derodontus Leconte

D. maculatus (Melsh.) (10353). Reared from Hydnum caputursi on beech. Emerged Oct. (Br.).

Cryptophagidae. The Silken Fungus Beetles

As the name implies, this family feeds to quite an extent upon Cryptograms. The various species, however, have their own habits.

Telmatophilus Heer

T. sp. Bar Harbor, July 8, ’36 (Br.).

Antherophagus Latreille

A. ochraceus Melsh (10370). Gt. Heath on Spirea.
Although there is much Spirea on the Island I have never taken but one individual.
A. convexulus Lee. (10372). Said to occur on flowers. Taken by sweeping Echo Lake, July 12.
Cryptophagus Herbst

C. sp. Taken in old house with bacon bait, Aug. 15, '33. W. S. Fisher says, "This does not seem to be like any of our known species. It is more closely allied to the Pacific Coast species than to the Eastern forms."
C. sp. Mt. Desert (Br.), Sept. 28. It is most difficult to distinguish species in this genus.

Henoticus Thomson

H. serratus (Gyll.) (10418). Bar Harbor. In dry fungus on oak, June 6 (Br.).

Atomaria Stephens

A. sp. Mt. Desert, Sept. 10 (Br.).

Anchicera Thomson

A. ephippiata Zimm. (10463). Bar Harbor (Moore). Not common. There are dozens of undescribed, imported species in this genus which no one has named.
A. curtula Casey (10472). Beating spruce at Sea Wall, Sept. 22.
A. ovalis Casey (10483). Corfield at light and on fungi, July 7–Sept. 2.

Mycetophagidae. The Hairy Fungus Beetles

Searching fungus and baiting with fermenting fruit is the way to try for these.

Typhaea Curtis

T. stercorea (Linn.) (10509). Taken with melon bait Corfield, Sept. 12. Rare.
Litargus Erichson


Colydiidae. The Cylindrical Bark Beetles

Under the bark of damp logs, particularly in spots where fungus is working, in shady woods is the place to look for these.

Cerylon Latreille

C. castaneum Say (10598). Witches Hole Brook under bark wet maple log, Sept. 1.
C. unicolor (Zieg.) (10599). In rotting poplar log Sept. 28. Homotype compared with the unique Leconte type.
C. clypeale Csy. (10602). From poplar log Newport Meadow, June 19.

Lathridiidae. The Minute Brown Scavenger Beetles

Sweeping and shifting dry trash collected around buildings yields results. Drying sweepings and then sifting them is a good method.

Lathridius Herbst


Enicmus Thomson

E. minutus (Linn.) (10642). Being a scavenger it likes dark, damp places, Aug. 18.

Cartodere Thomson

C. aegus Reit. (10662). Scavenger? On oak leaves infested with Brachus (Br.).

Corticaria Marsham

C. serrata (Payk.) (10685). Occurs in fungi. May be taken at light. May 15 (Br.).

Melanophthalma Motschulsky

M. picta Lec. (10696). Mt. Desert, Sept. 25 (Br.).
M. distinguenda Com. (10701). Taken at the same time as (M. gibbosa) mentioned below.
M. gibbosa Hbst. (10705). Occurs in swampy places. Taken from an old nest of the Ugly-nest Tortricid (Archips cerasi-vorana), Aug. 27 and beaten from spruce.
M. cavicolliis Mann. (10713). Taken from toadstool roots Eden, Aug. 7. Not common.
M. sp. Sweeping cut-over land Eden, July 19, Station F335.

Endomychidae. The Handsome Fungus Beetles

The same collecting methods as mentioned above hold also for this family.

Mycetina Mulsant

M. perpulchra (Newn.) (10727). Taken in fungus S. W. Harbor, July 13. Rare.
M. testacea (Ziegl). (10730). Foot of Newport Mt., sifting leaf-mold Aug. 2. Rare.
M. hirta Marsh. In a house July.

Endomychus Panzer

E. biguttatus Say (10753). Ironbound Isl. (Blaney).

Phalacridae. The Shining Flower Beetles

Sweeping is the method here.
Phalacrus Paykull


Olibrus Erichson

O. pallipes (Say) (10786). Taken from Solidago, Bar Harbor; Narrows; Seal Harbor, July 24–Aug. 20.
O. sp. Mt. Desert (Br.), Aug. 23; Corfield, Sept. 17.

Stilbus Seidlitz

S. sp. Station F270, Oct. 5. Scarce.

Coccinellidae. The Lady Beetles

The "lady bugs" are among the most beneficial of insects. As they feed upon the bark lice as well as plant lice, they are taken by beating and sweeping.

Hyperaspis Chevrolat

H. bigeminata (Rand.) (10877). Bar Harbor sweeping, Aug. 16.
H. undulata (Say) (10930). Bar Harbor in house, Nov. 18.

Brachyacanthus Chevrolat

B. ursina (Fab.) (10972). Occurs on the leaves and flowers of milkweed (Asclepias). Long Pond, Aug. 21.

Microweisea Cockerell

M. marginata (Lec.) (10988). Mt. Desert (Br.), Sept. 12.

Stethorus Weise

S. punctum (Lec.) (10998). Mt. Desert, July (McAtee).

Scymnus Kugelann

S. caudalis Lec. (11024). This whole genus are readily taken by beating and sweeping foliage in Spring and early Summer. Long Pond; Echo Lake; Eden, June 26–July 15.
S. indutus Csy. (11034). Bar Harbor on willow catkins (Br.), May 11.
S. puncticollis Lec. (11035). Mt. Desert (Br.), May 23.
S. nanus Lec. (11079). Breakneck Road on willow catkins, May 11.
S. sp. Station F308.

Psyllobora Chevrolat

P. viginti-maculata (Say) (11150). Twenty-spotted Lady-beetle. Generally distributed and taken in small numbers all summer by sweeping.

Anisosticta Chevrolat

A. bitriangularis Say (11154). A northern form, Station F173 and F286; S. W. Harbor; Narrows, June to middle of Sept. Common.
A. bitriangularis Say var. Station F173, Aug. 2.

Hippodamia Chevrolat

H. tredecim-punctata (Linn.) (11162). Thirteen-spotted Lady-beetle. Hibernates under sticks and leaves along edges of fields. Taken by sifting in autumn and sweeping in summer. Station F70.
H. parenthesis (Say) (11163). Same habits as above. Eden sweeping, Sept. 6; Station F113, Sept. 19.
H. convergens Guér. (11173). Same habits as above. Widespread in small numbers.
Coccinella Linnaeus

C. perplexa Muls. (11181). Three-banded Lady-beetle is a generally distributed common form particularly in Aug. and Sept. Taken by sweeping as are all members of this genus.

C. tricuspis Kby. (11183). Mt. Desert, May 12 (Br.); Newport Meadow, Sept. 9; Station F289.


C. transversoguttata Fald. (11185). Another common and well distributed form with Aug. and Sept. optimum months.

C. transversoguttata var. 15 notata Kby. (11185a). Record of capture lost.

Adalia Mulsant


A. frigida Selmied. (11194). Same habits as above. Record of capture lost.

A. ophthalmica Muls. (11195). Same habits as above. On catkins (Br.), May 11.

Cleis Mulsant

C. picta (Rand.) (11196). In small numbers and scattering, June 10–Sept. 19. Taken by beating. Some come to light.

C. picta (Rand.) var. contexta Muls. (11196). One specimen taken Sept. 27, '33.

C. picta var. impictipennis (Ws.) Mt. Desert, Oct. 14 (Br.).

C. hudsonica Csy. (11197). Laboratory, Aug. 11.

Anisocalvia Crotch

A. *quatuordecimguttata* (Linn.) (11201). The Fourteen-spotted Lady-beetle has a wide distribution from July until frost. Is easily attracted to light.

A. 14-guttata var. similis (Rand.) (11201a). Bar Harbor, June 11–15; July 8 (Br.).

A. 14-guttata Cr. var. cardisce (Rand.) (11201b). Bar Harbor, May 1; Mt. Desert, Sept. 18 (Br.).

A. 14-guttata var. (Linn.). Bar Harbor, Aug. 3.

**Anatis Mulsant**

A. *quindecimpunctata* var. *mali* (Say) (11202a). The Fifteen-spotted Lady-beetle. Frequents the flowers of *Crataegus*. Corfield at light, July 13; scattered in small numbers.

**Neomysia Casey**

N. *pullata* (Say) (11205). July 11, Corfield at light; Laboratory, July 30.


**Chilocorus Leach**


**Epilachna Chevrolat**

E. *varivestis* Muls. In the garden on the Sturges property.

**Alleculidae (Cistelidae).**

The Comb-clawed Bark Beetles

Searching under bark and beating especially dead branches is best here.

**Hymenorus Mulsant**


H. *pilosus* (Melsh.) (11251). Occurs on and under the bark of willow. Bar Harbor, July (Moore).
Isomira Mulsant

I. quadririliata Couper (11311). Occurs on shrubs along the borders of marshes and best taken by beating. Common, June 20—Aug. 10.

Capnochroa Leconte

C. fuliginosa (Melsh.) (11320). Beating bushes Dry Mt., July 17 (Sanford). Scarce.

Mycetochara Berthold


Androchirus Leconte

A. erythropus (Kby). (11355). Found in moist places on bushes. Taken beating at Narrows, July 27.

Tenebrionidae. The Darkling Beetles

The species on this Island are found for the most part beneath bark or in fungi.

Phellopsis Leconte

P. obcordata (Kby.) (11671). Common, June 10—Aug. 8. It lives in the white birch fungus (Polyporus betulina).

Blapstinus Latreille

B. metallicus (Fab.) (12207). Frequents rubbish in sandy places. Corfield, June 7.

Bolitotherus Candéze


Diaperis Geoffroy

Scaphidema Redtenbacher

S. aeneolum (Lee.) (12311). Beaten from spruce, Aug. 23 and Sept. 12 (Br.).

Tribolium MacLeay

T. ferrugineum (Fab.) (12343). Taken in flour, Apr. 28, '37 (Br.). Scarce.

Hypophloeus Fabricius

H. parallelus Melsh (12374). Spruce log near old farm near Sunken Heath.

Scotobates Horn

S. calcaratus (Fab.) (12386). Occurs under bark of dead logs. Also under stones. Sieur de Monts Spring, July 22; Sec. 20 under bark of dead spruce.

Ipthimus Truqui

I. opacus Lec. (12405). Occurs under bark and logs and is found traveling in June. Corfield, June 16; McKinley, July 20; Breakneck Drive, Sept. 3.

Upis Fabricius

U. ceramboides (Linn.) (12411). Under old board Norway Drive, Sept. 19; under bark of spruce log Boyd Road, Oct. 10; Robinson Mt. (Sanford).

Tenebrion Linnaeus

T. molitor L. (12414). An introduced species the larva of which is known as the "meal worm." Occurs in feed stores, barns, etc. A common pest.

Paratenetus Spinola

P. punctatus Spin. (12432). Beaten from white birch along the brook Norway Drive, Sept. 6; beaten from spruce (Br.), Aug. 10.

Lagriidae. The Lagriid Bark Beetles

Arthomacka Kirby

A. aenea (Say) (12497). Taken by sweeping bushes and high weeds. S. W. Harbor, June 21; Echo Lake, July 12; New Mill Meadow, Aug. 12.

Melandryidae. The Melandryid Bark Beetles

They live under bark, but may be taken by beating.

Abstrulia Casey


Penthe Newman

P. obliquata (Fab.) (12527). Taken under bark of old yellow birch log, Sec. 15, Sept. 3. Scarce.
P. pimelia (Fab.) (12528). Occurs under bark on decaying logs. Corfield, June, '29; Bar Harbor, July 10–Aug. 12; Tarn under the bark of a dead maple, May 23. Western Mt. summit under spruce bark, Sept. 30.

Orchesia Latreille


Emmesa Newman

E. labiata (Say) (12553). Bar Harbor, July.
Xylita Paykull

X. laevigata (Hellw.) (12557). With tanglefoot May 25. Witches Hole.
X. livida Salib. Witches Hole with tanglefoot June 4.

Serropalpus Hellenius

S. coxalis Mank Reared from larch July 7.

Mystaxus Kugelann

M. simulator Newn. (12569). Beating oak Penikese, June 6; Witch Hole with tangle foot June 4. This beetle is extremely rare. First record from Maine.

Dircaea Fabricius

D. quadrimaculata (Say) (12570). Beaten from spruce, Aug. 10; The Gorge Sept. 10.

Phloeotrya Mulsant

P. vaudoeri Muls. (12571). Occurs under bark. Taken on fir trunk, July 7, '36, (Br.). Rare.

Microtomus Leconte


Symphora Leconte

S. flavicollis (Hald.) (12577). Taken on leaves and under bark. Long Pond, July 16.

Canifa Leconte

C. pallipes (Melsh) (12588). Station F389, In U.S.N.M. Scarce. From mound ant nest, July 5 (Br.).
Ptinidae. The Death-watch or Drug Store Beetles

These beetles bore into the wood of old buildings, where they make a ticking sound. They frequent stores and houses where dried food is kept and go through the whole menu, from breakfast foods and coffee to cigars, with great relish. They thrive on museum specimens and insect collections. In the open search for them under the bark of dead trees and in the dry trash of woodlands.

Mezium Curtis

M. affine Boileau. Occurs in houses where is breeds in animal substances. Has been found in old insect boxes. This is the European species which is found throughout the northern part of the U. S.

Ptinus Linnaeus

P. hirtellus Sturm. In a house in Bar Harbor.
P. fur Linn. (12613). An Old World species very dangerous to museum specimens. In laboratory June and July.
P. villager Reit. One specimen Corfield Aug. 8, 1932.
P. sp. That looks like raptor taken with molasses bait, Corfield July 18.

Anobiidae

Look for them in dead branches, dried fungi, etc., and sift for them.

Ernobius Thomson


Sitodrepa Thomson

S. panicea (Linn.) (12689). The Drug Store Beetle. In a house, Sept. 17.

Microbregma Scidl

Coelostethus Leconte

C. notatus (Say) (12712). Look for them on dead branches of oak. Corfield, July 23.

Trypopitys Redtenbacher

T. sericeus (Say) (12717). Bar Harbor, July.

Dorcatoma Herbst

D. dresdensis Hbst. (12839). From fungi, June.

Ptilinus Geoffroy

P. ruficornis Say. (12864). Destroying woodwork in house, July 1–4 (Br.).

Bostrichidae. The Powder-post Beetles

The Powder-post Beetles all live in dry dead wood, either beneath the bark of trees, or in burrows; also old dry fungi. Wood showing the borings and brought to the laboratory to hatch out, will produce results.

Stephanopachys Waterhouse

S. substriatus (Payk.) (12908). On a spruce stump opposite Penikese. Like the others in the family they burrow in dry wood.

Dinoderus Stephenson

D. minutus Fab. (12922). Bred from bamboo flower stakes, (Br.). Nov. 11.

Lyctidae

Lyctus Fabricius

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**Sphindidae. The Sphindus Beetles**

*Sphindus* Chevrolat

*S. americanus* Lec. (12949). One specimen taken but too damaged to be sure of exact determination. Found in decaying wood and fungus.

**Cisidae. The Minute Tree-fungus Beetles**

*Cis* Latreille


*Xestocis* Casey


**Octotemnus** Mellié


**Scarabaeidae. The Lamellicorn Beetles**

This family which is probably the most aristocratic because its name is taken from the Latin *Scarabaeus* meaning “a beetle,” may be roughly divided into two groups according to habits. However, as each genus generally has an adult food habit of its own, one cannot generalize and they will be treated separately.

**Onthophagus** Latreille

*O. hecate* Panz. (13080). Occurs beneath dead birds, snakes, etc. Taken in meat traps Bay Shore Drive, Sept. 11; North Shore Eagle Lake, Oct. 1; Salisbury Cove on star nosed mole, July 15.

*O. nuchicornis* (Linn.) (13088). The only place taken was in cow dung at the Manset Ice Ponds. Station F316.
Aphodius Illiger

Working over cow pastures will take these. The pastures should be gone over monthly for some of the species are seasonal.

A. fossor (Linn.) (13107). Bar Harbor, June 11; Eden flying, June 30.
A. erraticus (Linn.) (13110). Town Hill late August to frost.
A. haemorrhoidalis (13111). Same as above.
A. ruricola Melsh. (13127). Town Hill late August to frost.
A. subterraneus (Linn.) (21175). Taken under horse dung, Witches Hole, June 2; in a Japanese beetle trap, baited with geranol, Penikese, June 12. A European species.

Dialytes Harold

D. striatulus (Say) (13239). Same habits as Aphodius. Taken in meat trap in deep woods, Breakneck Drive, Aug. 31; Bar Harbor, July 14. Corfield on fungi.

Geotrupes Latreille

G. balyi Jek. (13290). These appear about Aug. 1 and are widely distributed wherever there are toadstools. They live in the underground portion of the stems and travel extensively about Sept. 1.
G. splendidus (Fab.) (13299). Frequent fungi and said to feed on carrion. N. E. Harbor, Aug. 23 (Minot); Sec. 19 flying, Sept. 13. Rare.
Trox Fabricius

T. erinaceus Lec. (13336). Said to feed on owl pellets. Taken in trap made of leather, wool and bones bound together Penikese, May 30; Breakneck Drive in meat trap, Sept. 21. Taken at various places on North side of the Island with trap baited with feathers.

T. monticola Robinson. Part of type lot taken on owl feathers July 4, '37 (Br.).


Serica MacLeay

S. atracapilla (Kby.) (13354). Mt. Desert (Br.) May 22.

S. tristis Lec. (13363). Taken at Penikese June 6 in Japanese beetle trap baited with geranol; Penikese beating, June 30, and hatched from a box full of wool, cloth, etc., placed at the edge of woods a year previously.

S. lecontei Dawson (19959). Taken at Penikese May 30 from the stuffing of an old buggy seat partially buried the year before. Scarce.

S. cucullata Dawson (19966). Taken beating alder bushes Penikese, Sept. 4; Salisbury Cove, July 12 (Sanford).

S. species near but not tristis.

Diplotaxis Kirby

D. tristis Kby. (13409). Found under bark, but feed at night. Penikese under board May 30; Witches Hole sugar- ing, Aug. 12; Penikese in geranol trap, Aug. 20. Not common.

D. liberta (Germ.) (13410). Bar Harbor (Moore), Iron- bound Isl. (Blaney).

Phyllophaga Harris (Lachnosterna Hope)

P. fusca (Froelich) (13511). The common May beetle or "June bug." The larvae, commonly known as the white grub often do considerable damage to lawns. Heavily parasitized here by Pelecinus polyturator and the grubs are a favorite food of skunks. Appear last of May and disappear last of June.

P. drakei Kby. (13517). Feeding on white birch at night, Aug. 21 (H. P. Boyd).

**Dichelonyx** Harris

D. elongata (Fab.) (13649). Taken on flowers, Penikese, May 1; Bar Harbor, June 22; Echo Lake, July 17.

D. subvittata Lec. (13651). Common on flowers of the *Rosacea* in June and July.

D. dilutata Fall (13652). Eden, June 25, on wild roses. Scarce.

**Popillia** Serville

P. japonica Newn. (13754). In 1941 four beetles were reported in Bar Harbor. The Japanese Beetle.

**Ligyrodes** Casey

L. relictus (Say) (13834). They fly to light the first ten days in Sept. The larvae live in well rotted earth around barn yards.

**Euphoria** Burmeister

E. inda (Linn.) (13940). On the first warm days of Spring, this beetle is seen flying close to the ground with a loud buzzing noise. Larva live in rotten wood and adult found sucking sap of deciduous trees. Generally distributed.

**Cremastocheilus** Knoch

C. castaneae Knoch (13974). The specific name indicates that this beetle frequents the chestnut. Taken here in white birch logs, Schooner Head, May 23; Corfield, June. Rare.

**Osmoderma** Serville

O. scabra (Beauv.) (14010). Lives in openings at the base of trees and found wandering always singly from the middle of July to end of Aug. One was reared Aug. 15 from a grub found in decayed white birch log the previous Oct. See C. H. Hoffman in Annals Ent. Society of Amer., Vol. XXXII, No. 3.
Trichotinus Casey (Trichius auct.)

T. affinis. (G. and P.) (14025). Taken on all kinds of flowers and particularly favors Spirea. Common from the last of June to Sept.

Lucanidae. The Stag Beetles

To be looked for under decaying logs and stumps. This family is not well represented here.

Platycerus Geoffroy

P. quercus Web. (14041). Occurs under logs and bark, especially of oak, as its name implies. Bar Harbor, May 12–28 (Br.).
P. depressus Lec. (14045). Beehive Mt., Aug. 13 (Sanford).

Ceruchus Mackay

C. piceus (Web.) (14058). One taken dead by Brower under bark of red oak while on a bird census, Dec. 23, '37.

Cerambycidae. The Long-horned Wood-boring Beetles

Search freshly cut timber, cord wood, and lumber yards. Beating is productive as is caging likely looking pieces of dead branches, etc.

Tragosoma Serville

T. depsarium var. harrisi Lec. (14097a). S. W. Harbor, July, 1917 (Fernald); Bar Harbor, July 29; Ironbound Isl. (Blaney). The larva lives in spruce and pine. Rare.

Asemum Eschscholtz

A. moestum Hald. (14107). The larvae infest pine and spruce. They will hide under chips put on freshly cut stumps. Otherwise they are hard to get. June 15–Aug. 15.
Tetropium Kirby

*T. cinnamopterum* Kby. (14124). Bar Harbor, July 22 (Br.). The larva feeds on conifers.

Crioccephalus Mulsant


Rhagium Fabricius

*R. lineatum* Oliv. (14298). Ribbed Pine Borer. The larvae are in pine and the adults may be taken from under the bark of recently cut logs and around sawmills. Bar Harbor, Apr. 25–May 11; Corfield, June 11. Rare.

Pidonia Mulsant


Centrodera Leconte

*C. decolorata* (Harris) (14311). Occurs on beech and maple. Mt. Desert, July.

Evodinus Leconte

*E. monticola* (Rand.) (14349). Corfield; Norway Drive taken flying and beating, June 4–Aug. 4. The larvae are said to live in hemlock.

Acmaeops Leconte

*A. proteus* (Kby.). (14403). Corfield, June 2; Bar Harbor June 9–16; Eden on cord wood, June 24. Not common.

Gaurotes Leconte

*G. cyanipennis* (Say) (14411). Taken by beating mixed foliage. Larva lives in oak, birch and said to be in wild cherry. Long Pond, June 10. Scarce.

*G. abdominalis* Bland (14414). Taken by beating and sweeping. June 10–July 12. Common.
Anoplophora Leconte

A. attenuatus (Hald.) (14415). Reared from green branches of Picea glauca (Br.), July 9.

A. malachiticus (Hald.) (14416). Taken flying in spruce woods Witches Hole, May 28; Bubble Brook in woods, June 21. Not common.


Judolia Mulsant

J. sexmaculata (Linn.) (14424). Taken sweeping Bar Harbor, June 24 (Br.); Echo Lake, July 12–17.

Anoplodera Mulsant (Brachyleptura Casey)

A. rubrica (Say) (14438). The larva lives in beech. Norway Drive on Spirea, July 3, '34 and July 8, '36. Scarce.

A. vagans (Oliv.) (14441). The larva lives in yellow birch. Taken Bar Harbor; S. W. Harbor; Echo Lake; Witches Hole by sweeping roadside herbage, July 10–Aug. 15. A pair were taken on Spirea which are a marked color variety. Not common.

A. canadensis (Fab.) (14447). Larvae reported from spruce, hemlock and pine. Although they may be taken generally on Solidago and the like, I have never seen an adult except in Aug. Great variation in size.

A. xitens Forst. The mating flight of this beautiful beetle is generally the first ten days in July when they may be taken by beating. Corfield one or two yearly. July 3–10. It favors Actinidia.

Parallelina Casey

P. subargentata (Kby.) (14459). Eagle Lake and Bar Harbor, July 18.

Charisalia Casey

Strangalepta Casey


*S. pubera* (Say) (14466). Bar Harbor, June 11. Rare.

*S. vittata* Oliv. (14469). This species has been reared from larch by M. W. Blackman. Common on flowers in July.

Strangalia Serville

*S. subhamata* (Rand.) (14482). Taken at light Corfield, July 28; Green Mt., Mt. Desert (Br.), July 10. Although a species of northern range, it is rare here.


Leptura Linnaeus

*L. nigrella* Say (14516). Long Pond, June 27.

*L. chrysocoma* Kby. (14520). Echo Lake; Witches Hole; Norway Drive; Sec. 28 eating pollen of daisies and other flowers, June 16–July 12. Common.


*L. biforisi* Newn. (14530). Duck Brook; Green Mt.; N. E. Harbor, July 30–Aug. 19.


Bellamira Leconte

*B. scalaris* (Say) (14537). The larva has been found in many varieties of coniferous and hardwood trees. Corfield flying, Aug. 6, '27. Rare.

Typocerus Leconte

*T. velutina* (Oliv.) (14543). A common species on flowers from the middle of July until frost.

Desmocerus Serville


Molorchus Fabricius

M. bimaculatus Say (14584). Breeds in maple and ash. Bar Harbor and on wild cherry Great Heath, June 6 (Br.). Rare.

Ropalopus Mulsant

R. sanguinicollis (Horn) (14612). Taken at S. W. Harbor, July 10, 1910 (Fernald). Penikese beating wild cherry, June 20, '37. Rare.

Anacomis Casey

A. lignea (Fab.) (14614). Bar Harbor, May 18 (Br.).

Callidium Fabricius

C. violaceum (Linn.) (14622). Breeds in pine and the adults can usually be found where boards with some bark left on them are used in sheds and barns. Finely powdered wood shows where the larvae are working. The adults appear in June.

Phymatodes Mulsant

P. testaceus var. variabilis (Linn.) (14634a). Lab., June 8. Larvae are said to be in oak. Scarce.

P. dimidiatus (Kby.) (14640). Larva breeds in oak, larch, hemlock and spruce. On damp logs, July 1 (Br.); Echo Lake, July 17.

Cylene Newman

C. robiniae (Forst) (14671). Reared from locust, Aug. 20.
C. nobilis (Harris) (14674). This beautiful beetle, as its name indicates, is scarce anywhere. But two specimens taken, June 23 and July 4 (E. B. Procter). It is to be looked for on freshly cut logs. Probably its northern limit.

**Xylotrechus Chevrolat**

X. colonus (Fab.) (14679). The Rustic Borer is found in nearly all of the hardwood trees and has been reported from hemlock. Bar Harbor, July 30–Aug. 2.

X. undulatus var. fuscus (Kby.) (14691c). Larvae have been found in hemlock, fir, spruce and larch. Adults mate latter part of June and may be taken on piles of cord wood and around clearings. June 24–July 20. Common.

**Neoclytus Thomson**

N. kirbyi Auriv. (14708). On pine log Bar Harbor, July 22 (Br.).


N. acuminatus (Fab.) (14717). Larvae reported from a great variety of hardwoods but it is scarce here, only three individuals having been taken; Lake Wood, July 3; Corfield, July 28; Long Pond, June 27.

**Anthoboscus Chevrolat**

A. ruricola (Oliv.) (14728). Frequents maple, oak, birch and beech. Corfield; S. W. Harbor; Chasm Brook; Penikese, June 25–Aug. 21.

**Clytus Laicharteg**

M. gazellula (Hald.) (14739). On flowers of rocket plant, July (Br.). In U.S.N.M.


P. supernotatus (Say) (14894). The Currant Borer. Larva reported from elm, currant and Virginia creeper. Bar Harbor, June 22 (Br.); Lower Breakneck beating cherry, July 8.

P. supernotatus var. tristis Csy. (14894a). Same as above. Bar Harbor on beech log on woodpile, Aug. 2 (Br.).


M. scutellatus (Say) (14904). Black Pine Borer. Begins to appear after June 20 and is seen through August. The larva bores into spruce and pine and may easily be heard sawing. Common wherever there are spruce logs.

M. oculatus (Lec.) (14923). Echo Lake, June 17.

M. tenuicornis Csy. (14924). One specimen showing considerable variation taken on west side of the Island, July 1934. Rare.

L. collaris (Hald.) (14954). Bar Harbor, Aug. 2 (Br.).
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ASTYLOPSIS Casey

A. macula (Say) (14960). Bar Harbor, Aug. 2 (Br.).
  Reared from larch July 20, '43.

LEIOPUS Serville

L. alpha (Say) (14985). Bar Harbor, Aug. 12 (Br.).

HYPERPLATYS Haldeman

H. maculata Hald. (15005). One specimen taken by beating shrubs. Record lost.
H. aspersa (Say) (15016). Larva reported in wild cherry, willow and currant. Beaten from Myrica gale, July 8 (Br.).

UROGRAPHUS Horn

U. triangulifera (Hald.) (15023). One specimen taken Corfield, Sept. 15, '32.

GRAPHISURUS Kirby

G. sp. Bar Harbor under bark. Date lost.

POGONOCHERUS Latreille

P. penicellatus Lec. (15049). Larva reported in spruce.
  Bred from pine or fir (Br.); Northeast Branch, Aug. 3.

SAPERDA Fabricius


S. concolor var. unicolor Felt & Jout. (15123a). This insect also infests poplar. Reared from stem gall on Populus tremuloides, June 10.

OBEREA Mulsant

O. pallida Casey (15137). Near Bar Harbor (R. H. Burton); Salisbury Cove, Aug. 11.

O. myops Hald. (15138.1). On raspberry, June 1 (Br.).

O. bimaculata (Oliv.) var. affinis Harris (15148). Breeds in the canes of raspberry and blackberry. Taken by sweeping at Eden Fair Grounds, July 26; Bar Harbor, July 2.

O. ocellata Hald. (15152). One found in poplar (Br.) May 12.

O. gracilis (Fab.) (15154). Bar Harbor, July 23 (Br.).

CHRYSIMELIDAE. The Leaf Beetles

General beating and sweeping will yield large numbers but as their interest is so tied to their food plants, it is better and more fun to search for them there.

DONACIA Fabricius

The Donacia breed in ponds and so are taken on lily pads and the like. Also sweeping along brooks or edges of ponds is productive. Look also on early flowers such as wild mustard if within 100 yds. of water. A species here is confined to one or two ponds, probably due to the intervening mountains and dense woods.
D. proxima Kby. (15198). Little Round Pond, June 18; Tarn, July 28; Witches Hole, June 7–Sept. 11. Not common.
D. palmata Oliv. (15199). The Tarn one specimen, July 28; Witches Hole, Aug. 6; much variation in color.
D. subtilis var. fulgens Lec. (15203). If this variety is valid, there is a record of Bar Harbor, July 24.
D. rugosa Lec. (15206). The Tarn mating in large numbers on Pontederia cordata, July 28, '37. This is the only record on the Island. No variation shown.
D. emarginata Kby. (15216). Penikese on wild mustard, June 4; Upper Hadlock Pond, June 10; Station F244, June 18. F382.
D. flavipes Kirby (15217). But one specimen taken. Station F332.
D. rufa Say (15218). Rhodora Meadow flying, May 25; Witches Hole, June 13; Half Moon Pond sweeping the shore bushes, June 18.
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Orsodachne Latreille

O. atra (Ahrens) (15219). With one exception this and the next four are common on "pussy willows" and extend on into June. They grade into one another to a marked degree. The exception is A. hepatica which is not common and easily distinguished. Station F301; Mt. Desert, June 16.

O. atra var. hepatica Say (15219b). Witches Hole flying, June 2.

O. atra var. childreni Kby. (15219c). Station F240, May 11.

O. atra var. tibialis Kby. (15129d). Bar Harbor from catkins (Br.), May 11.

O. atra var. trivittata Lac. (15219e). Stations F237, F242, F300 and F301.

Syneta Lacordaire

S. ferruginea (Germ.) (15223). A normal male and a peculiar reddish female taken by sweeping ferns, etc., along Hunters Beach Brook, June 19. Duck Brook, June 13. Feeds on birch leaves.

Zeugophora Kuhnze

Z. varians Cr. (15233). One specimen taken at Station F395.

Lema Fabricius

L. brunniceollis Lac. (15239). A tamarack swamp is the habitat of these. Eden, July 15.

Chlamisus Rafinesque

This is Chlamys Knoch, not Röding. Ar throchlamys Ihring, Bolochesis Jacobson.


Atrochlamys

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EXEMA Lacordaire


E. conspersa (Mann.) (15306). The host plant is needed for this genus and the U.S.N.M. would be glad to get any accurate records. Taken by sweeping bushes July 15.

E. dispar canadensis Pierce. Feeds on Solidago and strays to birch and other vegetation when nearly mature. Found on Compositae July 15 to frost.


PACHYBRACHYS Redtenbacher

P. peccans Suffr. (15393). Beaten from spruce, Eden-Town Hill Road.


P. relictus Fall. (15415). Robinson Mt. at Station F179, Aug. 24.


P. othonus (Say) (15451). Eden, July 15, 1925. Scarce.

P. autolycus var. difficilis Fall (15453a). New Mill Meadow sweeping, July 22.

P. autolycus Fall. A variety that is marked almost exactly as a Colo. var. called wahsachensis by Fall.


MONACHULUS Leng

M. ater? (Hald.) (15472). Record of capture lost.

CRYPTOCEPHALUS Geoffroy

C. notatus Fab. (15479). Penikese, June 24. Neither these nor others in the genus are numerous.
C. notatus var. quadriraculatus Say (15479a). A general feeder and is picked up in beating and sweeping mixed vegetation in July and Aug. Robinson Mt.; Sec. 15; Stations F51, F63, F104, F143 and F212.

Diachus Leconte

D. auratus (Fab.) (15521). Taken by sweeping and beating. Green Mt. summit, July 26; Sargent Mt. summit, Aug. 21; Echo Lake; S. W. Harbor; Bar Harbor, July 12-10.

Bassareus Haldeman

B. formosus (Melsh). (15532). Frequents the foliage of elder and grape, but may be taken by general sweeping. Green Mt., July 20; Sec. 32, Aug. 9; Station F208; Sargent Mt., Aug. 21.
B. formosus var. sulphuripennis (Melsh.) (15532a). Mt. Desert, July 4 (Br.).

Triachus Leconte

T. atomus (Suffr.) (15537). Sweeping bayberry and blueberry bushes is the way to take these. Long Pond, July 16; Bar Harbor (Br.), June 20.
T. vacuus Lec. (15539). Truck garden in Eden, Aug. 27.

Graphops Leconte

G. marcassitus Cr. (15569). Station F418.

Xanthonia Baly

X. 10-notata var. immaculata. Penikese beaten from oak, Sept. 10.
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Adoxus Kirby

A. obscursus (Linn.) (15604). Long Pond; S. W. Harbor; Stations F73; F173; F212, July and Aug. I am treating the melanic phase and the ones with the brown elytra as a single species.


Paria Leconte

P. canella (Fab.) (15626). Newport Meadow sweeping goldenrod, etc., Sept. 22.

P. canella var. gilvipes Horn. (15626b). Section 32 on sweet fern, Sept. 15.


Prasociris Latreille

P. vittata (Oliv.) (15636). Seed pods of rushes Station F408.

Leptinotarsa Stål

L. decemlineata (Say) (15648). The Potato Beetle is general on the Island but not in large numbers.

Calligrapha Erichson

C. lunata (Fab.) (15664). The name taken from the Greek meaning "beautiful writing" is descriptive of this genus. Eden Fair Grounds on wild roses, July 26; Bar Harbor on rose (Br.), Aug. 17.


C. elegans (Oliv.) (15669). Prefers moisture. Look for it around Solidago. On bidens (Br.), Aug. 15; Station F137.

C. philadelphica (Linn.) (15674). Common. It feeds on (Spirea) and alder. Stations F122 and F199.
C. philadelphica var. spireae (Say) (15674a). As the name indicates, it prefers (Spirea). Mt. Desert, July (McAtee).
C. bigsbyana (Kby.) (15677). Eden, July 16; Corfield, Aug.; Station F242; Eden on alder Sept. 17; Also feeds on willow.
C. alni Schaeffer (21358). Mt. Desert, May 2; Penikese on alder, Sept. 20.

Plagiodera Redtenbacher
P. versicolora (Laich.) (15693). Reared from larch trunks Oct.

Gastrophysa Chrevrelat
G. polygoni (Linn.) (15701). Sweeping grass and Polygonum. The latter is its food plant. Bar Harbor, June 17.

Chrysmela Linnaeus
C. interrupta Fab. (15708). Bar Harbor, June; Mt. Desert (Br.), June 15. The variety with all legs red was also taken.

Phylloecta Kirby
L. vulgatissima (Linn.) (15717). Eagle Lake; Seal Harbor (Stowell), July 18–Aug. 15. It feeds on willow and poplar.
P. americana Schaeffer. (21365). (vulgatissima Auct. non Linn?). One specimen taken Station F278.

Trirhabda Leconte
T. virgata Lec. (15726). Very common especially in Sept. and can be swept any place. Feeds on goldenrod.

Galerucella Crotch
G. conferta (Lec.) (15744). All of this genus has its particular plant on which it is found. Sweeping individual plants should be followed and a careful record kept. Station F288; F343.

G. nympheaeae (Lin.) (15751). On the leaves of *Nympheae* *advena* in the ponds, July and Aug.

G. decorae (Say) (15753). Found on willow generally. Penikese sweeping, June 1; S. W. Harbor; Bar Harbor, June 27–Aug. 18; Station F94.

G. kalmiae Fall (20194). Prefers the leaves of laurel. Penikese, May 29 on wild mustard. Green Mt. summit laurel, Aug. 8; Long Pond; Bar Harbor, July 17–Aug. 18.

G. vaccini Fall (20195). N. E. end of Long Pond, sweeping ferns.

G. spiraeae Fall (20196). Feeds upon *Spiraea*. Station F177. Abundant in Rhodora Meadow, May 24, '38.

G. alni Fall (20197). Feeds on the leaves of alder. S. W. Harbor; Eden, June 27–July 16; Green Mt. Summit, Aug. 5.

G. perplexa Fall (20198). Penikese, June 20; Green Mt. Summit, Aug. 5; Swamp opposite Schooner Head, Sept. 22.

G. sp. Station F308.

G. sp. Station F308.

G. sp. Station F308. This and the two above are all different.

**Erynephala Blake**

E. maritima (Lee.) (*Monoxia puncticollis* Horn) part; not (Say) (15755). Salt marsh at Narrows on *Solidago maritima* Aug. 3–Sept. 12.

**Diabrotica Chevrotat**

D. duodecimpunctata (Fab.) (15769). Adults found on the foliage of cucumber and allied plants while the larvae feed on the roots of grasses and corn. S. W. Harbor on rose, July 13; Sargent Mt. Pond 1000 ft., Sept. 3; Section 15, Sept. 6.

D. vittata (Fab.) (15782). The Striped Cucumber Beetle which as its name implies lives on cucumbers, melons, etc.

D. melanocephala (vittata auct. not Fab. 1775). Penikese on lilac, June 6; Stations F39 and F128.
P. decorata (Say) (15788). Sweeping Station F73. Scarce.

Luperodes Motschulsky

L. meraca (Say) (15823). Long Pond; Eagle Lake; Bar Harbor, June 27–July 22. It feeds on the wild rose.

Oedionychis Latreille

O. vians scripticollis (Say) (15868a). Bar Harbor, May 18 (Br.).
O. subvittata Horn (21374). A common form from the latter part of June to the middle of Sept. Taken by beating and sweeping.
O. subvittata var. vera. Penikese sweeping, June 1. See Blake’s paper.

Disonycha Chevrolat

D. latifrons Schffr. (20204). This conspicuous beetle was not taken until 1937 and then numbers were swept at Pretty Marsh, Sept. 6, Station F289 and some scattering.

Altica (Hattica) Geoffroy

A. bimarginata Say (15916). Station F158 on poplar trees, Sept. 23.
A. ambiens alni Harris. (A bimarginata Woods not Say.). Alder Flea-beetle. Collected from an isolated alder bush which they were defoliating. The large blue flea-beetles have been confused in the past. See Blake in Proc. Ent. Soc. Wash., vol. 38, no. 2.
A. ignita III. (15920). Bar Harbor, June 13; Station F239 at Sunken Heath. Swamp Norway Drive, Oct. 3.

Chalcides Foudras

C. helxines (Linn.) (15968). Feeds on poplar and willow and is generally distributed. May is the optimum month.

I have used this name because no other would be understood and because others use it in this country. Living in Sweden Linnaeus gave the specific name helxines to a metallic green flea-beetle with testaceus legs and antennae, living on buckwheat. Usage has since attached this name to various species but in the European catalogues they no longer cite Linnaeus, but use the name as a suppressed synonym under various species and ascribed to diverse subsequent authors. The paradox is that the European coleopterists do not use the Linnaean name but that we apply it to a complex of species which we do not distinguish and no one of which can be the species to which Linnaeus gave the name.

C. sp. Along Middle Road beating catkins, May 23.

Crepidodera Chevolat

C. atriventris Melsh (15974). Section 11, Station F374.

Epitrix Foudras

E. cucumeris Harr. (15982). The Cucumber Flea-beetle has the preference that its name indicates but is also found on other field and garden crops in Aug.

Systena Clark

S. pallicornis Schffr. (16023). Common on various plants especially Polygonium. Stations F61 and F63; Great Heath; Green Mt., Aug.

S. frontalis (Fab.) (20225). Great Heath, Aug. 28.

Longitarsus Latreille


Phyllotreta Foudras

P. sinuata (Steph.) (16065). Bar Harbor, July 24.


P. sp. probably vittata Fab. (16066). Sweeping beside road at Nurseries, July.

Dibolia Latreille

D. borealis Chev. (16086). Occurs on plantin (Plantago). In the leaves of which the larvae live. Taken on poplar catkins (Br.), Apr. 26. Bred from Plantago and Impatiens fulva, July 28, (Br.).

Psylliodes Latreille

P. punctulata Melsh. (16089). Feeds on the leaves of dock and rhubarb and is common.

Anoplitis Chapuis

A. inaequalis (Web.) (16105). Common and generally distributed, July 12–Sept. 20. Taken by sweeping.
Chalepus Thunberg (*Odontota auct. *)

*C. dorsalis* Thumb. (16113). Hibernates beneath locust bark (*Robinia*) in the leaves of which the larvae mine. Beaten from clover, etc. Bar Harbor.

**Microrhopala Baly**

*M. xerene* (Newm.) (16130). Sweeping in marshy places. The larvae are said to mine the leaves of goldenrod (*Solidago*) but I have not seen it here. Stations F200, F261, and F262 and elsewhere, June 24–Sept. 20.


**Chelymophra Boheman**

*C. cassidea* (Fab.) (16139). This beautiful species, "turtle-shaped" as its name describes it, feeds on the morning glory, (*Convovulus sepin var. americanus*) and is also found on milkweed in other places. The beetles were all reddish brown in July and light yellow in Aug.

**Cassida Linnaeus**


**Deloyala Chevrolat** (*Coptoeyela auct.*)

*C. guttata* (Oliv.) (16152). It also feeds on morning glory and I have swept it from grape. Some specimens were reddish brown in color, resembling *Metronia purpureata* Say. Mating at Station F169, June 25.

**Bruchidae (Mylabridae).** The Pea and Bean Weevils

Look for them on legumes and on *Convovulus*.

**Pachymerus Thunberg**

*P. gleditsiae* (Linn.) (16163). A southern form with the first record for Maine. In cow pasture Town Hill, Sept. 9.
M. sp. On laboratory window, June 15.

**Platystomidae (Anthribidae)**

**Eusphysrus Leconte**

E. walshi Lec. (16275). Bar Harbor, on a clothes line, Aug. 8 (Br.).

**Gonotropis Leconte**


**Eurymycter Leconte**


**Allandrus Leconte**


**Euparius Schönherr**


**Brachytarsoides Pierce**

B. sticticus (Bohl.) (16304). Sweeping rank herbage. Station F414, Great Heath on willow, Oct.

**Belidae**

**Ithycerus Schönherr**

I. noveboracensis (Forst). (16324). The only species of this family reported in Leng. Duck Brook bridge on oak, June 16; Mt. Desert (Br.), June 10. Rare.

**Curculionidae. Weevils or Snout-beetles**

**Rhinomacer Fabricius**

R. elongatus Lec. (16326). Station F420.
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Auletes Schonherr

A. albovestita Blatchley (16338). Green Mt.; Salisbury Cove; Bar Harbor, July 6–Aug. 17, sweeping low bushes; Sec. 32 on sweet fern, Sept. 15. Common.

Auletobius Desbr.

A. albopilosus (Blatch.). Great Heath, on willow, Oct. 5 (Br.).

Rhynochites Herbst

R. bicolor Fab. (16348). The Rose Curculio is found on roses, blackberries and raspberries, occasionally doing damage. Scarc. Eating wild rose blossoms Town Hill, July 28.
R. perplexus Blatch.? (16362). Sweeping fern and Spiraea; Sec. 20, July 23.

Attellabus Linnaeus. Leaf-rolling weevils

A. bipustulatus Fab. (16367). This species rolls the leaves of oak. Bar Harbor beating June 16. Rare. Robinson Mt. Aug. on leaves of Quercus ilicifolia.
A. rhous Boh. (16369). Occurs on hazelnut and alder. As described by Packard, the singular, thimble-like rolls of this weevil may be found in June and July on the alder. When about to lay her eggs, the female begins to eat a slit near the base of the leaf on each side of the midrib, and at right angles to it, so that the leaf may be folded together. Before beginning to roll up the leaf she gnaws the stem nearly off, so that after the roll is made, and has dried for perhaps a day, it is easily detached by the wind and falls to the ground. When folding the leaf, she tightly rolls it up, neatly tucking in the ends, until a compact cylindrical solid mass of vegetation is formed. Before the leaf is entirely rolled she deposits a single egg, rarely two, in the middle next to the midrib, where it lies loosely in a little
cavity. These rolls remain on the bushes sometimes for several days, but probably drop by the time the larva escapes from the egg, and it seems probable that the grub uses the roll for a shelter until it matures and is ready to enter on its transformation to a beetle. Common on alder.

**Apion** Herbst

A. *pinitimum* Fall (16380). Seal Cove Brook sweeping wild carrot and ferns, Aug. 7, '35; Station F214.
A. *walshi* Sm. (16423). Recorded as occurring on white birch and in the galls of a willow. S. W. Harbor; Bar Harbor; Long Pond, July 15–Sept. 7.

**Phyxelis** Schönherr

P. *rigidus* (Say) (16499). Penikese, sweeping daisies and buttercups just in bloom, F377, June 12.

**Scythropus** Schönherr

S. *elegans* (Coup.) (16626). Section 40 with tangle-foot, June 5.

**Hormorus** Horn


**Sciaphilus** Schönherr

S. *muricatus* (Fab.) (16640). Lake Wood sweeping blueberry and low bushes, June 11; Penikese beating high bushes, June 15; Paradise Hill beating bushes, Sept. 27. An introduced species. Common.
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STROPHOSOMA BILLBERG

S. coryli (Fab.) (16641). Bar Harbor, May 27 (Br.). Station F398.

S. melanogramum Forst. Great Heath beating and Bar Harbor on currants, Aug.

BARYNOTUS GERMAR

B. schöenherri Zeit. (16671). S. W. Harbor, June 24; Seal Harbor, Aug. 9 (Stowell).

BARYPEITHES JACQUELIN-DUVAL


BRACHYRHINUS LATREILLE (OTIORHYNCHUS GERMAR)

B. (otiorhynchus) sulcatus Fab. (16677). Known as the "Black Vine-weevil" and injurious to various plants. Under old wool in woods, May 30; swept from various plants to Sept. 22. Common.

B. ovatus (Linn.) (16678). Known as the Strawberry Crown-girdler. Taken under boards, May 30; Little Round Pond on daisies, June 18; under bark of yellow birch, Sept. 9: swept from Solidago Witches Hole, Sept. 3. Common.

B. singularis Linn. (16680). Sweeping pine, Aug. 3.

PHYLOBIUS GERMAR

P. pyri Linn. A few swept Station F195; one beaten from cedar Sec. 26, June 24; one from zinnia Corfield, Aug. 24. Dr. J. C. Bradley says that these are the European form.

P. sp. Station F319. L. L. Buchanan says that this individual resembles the Japanese form.

SITONA GERMAR

S. hispidulus (Fab.) (16728). Known as the Clover Leaf Curculio. The larva feeds on the roots of clover and other legumes. A real pest in places. Bar Harbor; Shea's Corner, Sept. 7.

S. scissifrons Say (16737a). Nurseries, sweeping grass, May 25.


**Hypera Germar**

H. punctata (Fab.) (16754). The Clover Leaf Beetle for both the larvae and adults feed on this plant. Swept from aster and Solidago on cut-over land, Sept. 18:


**Phytonomus Schönberg**

P. nigrirostris (Fab.) (16765). In laboratory, July 22.

**Lepyrus Germar**

L. palustris Scop. (16767). Feeds on willow and poplar. A large number feeding on willow stems S. de Monts Spring (Br.), Aug. 19, '37. The only time taken.

**Listronotus Jekel**

L. latiusculus (Boh.) (16790). Breeds in arrowhead (Sagittaria) also parsley. One specimen taken Station F269. Probably is latiusculus though not ornamented.

L. sp. Record of capture lost.

**Hyperodes Jekel (Macrops Kirby)**


H. obscurellus (Dietz) (16824). Record of capture lost.
Pissodes Germar

P. similis Hopk. (16840). Reared ex balsam fir (Br.), July 6.

P. strobii (Peck) (16845). The White Pine Weevil. The larva kills the leading shoot of white and other pines and sometimes spruce, causing the tree to be more or less deformed. Bar Harbor, Aug.

P. approximatus Hopk. (16846). Mt. Desert, July 3–Aug. 10 (Br.).

P. fiskei Hopk. (16857). Taken on spruce logs. Rare. Previously recorded from N. H. only. One specimen in U.S.N.M.

P. nigrae Hopk. (16858). Bar Harbor, May 31 (Br.).

P. dubius Rand. (16866). Mt. Desert, June 5. Reared from fir, infested with borers, Sept. 3 (Br.).

P. sp. near dubius (16866). Bred ex balsam fir, July 16–26 (Br.).


Hylobius Germar

H. pales Boh. (16873). Eden, Aug. 12 (Br.).

H. congener Sch. & Marsh (16874). Taken on blackberry blossoms, June 17; Corfield at light, June 13. General but sparse distribution. Is said to breed in pine.

Hypomolyx Leconte

H. piceus (DeG.) (H. pineti Fab.) (16879). Reported from Mt. Desert Island, Aug. Ironbound Isl. (Blaney). A northern form and a frequenter of dark woods where it is generally found wandering alone.

Dorytomus Germar

D. vagenotatus Csy. (16910). Taken on willow catkins, May 4–11 (Br.).

D. brevicollis Lee. (16914). Bar Harbor, Apr. 21–May 2 (Br.).
Onychus Leconte

O. nigrostris (Boh.) (17022). Taken on willow catkins, Apr. 21. Scare.


Proctorus Lecote

P. armatus (Lec.) (17056). Willow Catkins (Br.), May 11. Rare.

P. decipiens Lec. (17057). Station F308.

Tychius Germar

T. picrostris (Fab.) (17074). Taken on pear and other trees. Bar Harbor; S. W. Harbor; Great Pond in June and July.

Magdalis Germar

M. hispoides Lec. (17132). Taken on pine S. W. Harbor, July 11.


M. sp. Between *gentilis* and *piceae*. Bar Harbor, June 4 (Br.).

Balaninus Germar

B. rectus Say (17157). One specimen taken flying, Corfield, Sept. 24, '37.

B. nasicus Say (17159). Taken the latter part of the summer to the middle of Sept. on various species of oak and traveling. Infesting the acorns of red oak Eden, July 18; Robinson Mt. in Sept.

Tachypterellus Fall and Cockerell

T. quadrirhirus (Say) (17186). The Apple Curculio. Infests the fruit of both the apple and the thorn. Bar Harbor, June 17. Richardson Brook beating, July 2.
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Anthonomus Germar

A. pulsillus Lec. (17194). Richardson Brook, Station F374.
A. sycophanta Walsh (17212). Mt. Desert, May 26, and bred from gall on willow, Aug. 2 (Br.). Scarce.
A. signatus Say (17219). The Strawberry Weevil is a feeder on strawberry, blackberry and raspberry on which the female deposits her eggs in the buds, then puncturing or cutting the stem below the bud so that it falls off in a few days. Echo Lake; Salisbury Cove, June 27–July 15.
A. scutellatus Gyll. (17245). Known as the Plum Gouger. Swept from Spiraea and fern Sec. 20, July 23; Sec. 32, Aug. 9. Swept from Solidago Sec. 15, Sept. 8.
A. molochinus Dietz (17257). Bar Harbor, Sept. 19 (Br.).
A. nubiloides Fall (21518). Duck Brook to Witches Hole, F330.
A. sp. Great Heath on Spiraea, July 31.
A. sp. Station F395.
A. sp. Tarn on Pontederia cordata in large numbers, Station F282.

Pseudanthomonus Dietz

P. sp. Beaten from cherry, Aug. 18.

Elleschus Stephens

E. bipunctatus (Linn.) (17333). Taken on willow blossoms which it frequents. May 11.
E. ephippiatus (Say) (17335). Occurs on willow and is most variable in size, shape and hue of the dark spots on the elytra. On catkins, May 10 (Br.).
Orchestes Illiger

**O. ephiplatus** (Say) (17337). Willow catkins (Br.), May 11.

**O. niger** Horn (17339). Is found on low willows and is quite common. Salisbury Cove, July 15; on catkins (Br.), May 11. On low willows, Sept. 17.

**O. canus** Horn (17343). Record of capture lost.

**O. pallicornis** Say (17345). Under the name of *O. canus* this species was called the "apple flea-weevil" by Forbes. Taken on alder S. W. Harbor; Penikese, Bar Harbor, July 15–Sept. 9.

**O. pallidior** Leng (17345a). On catkins, May 11.

**O. sp.** Corfield, May 30.

Acalypthus Schönherr

**A. carpixi** (Herbst). (17351). Introduced from Europe. Occurs on the flowers of willow. Taken May 11, Otter Creek valley; Bar Harbor, May 4–10 (Br.). All on catkins.

Piazhorinus Schönherr

**P. scutellaris** (Say) (17353). Gt. Heath (Br.), Aug. 28; Station F290, Sept. 30.

Gymnetron Schönherr

**G. tetrum** (Fab.) (17359). Common on mullein (*Verbascum thapsus* Linn.) all summer and hibernates beneath the basal leaves.

Miarus Stephens

**M. hispidulus** Lee. (17360). Bar Harbor, July 22.

Limnobaris Bedel


Gelus Casey

**G. oculatus** (Say) (17699). Taken by beating along edges of marshes. Bar Harbor (Br.), May 11. Scarce.
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Acoptus Leconte

A. suturalis Lec. (17726). It is reported to live in the dead wood of beech trees. S. W. Harbor, July 11, in dead beech.

Auleutes Dietz

A. texuiipes (Lec.) (17744). Eden, July 15. Said to breed in the buds of the primrose family.

Ceutorhynchus Germar

C. marginatus (Payk.) (17767). Taken from dead leaves in Fawn Pond, May 30. Said to frequent lettuce and dandelion. Scarce.

Peleinomus Thomson

P. sulcicollis (Fähr.) (17828). Frequents smartweed (Polygonium) from which it was swept. N. E. Harbor, July 26. Not common.

Rhinoncus Schönherr


Conotrachelus Schönherr

C. nenuphar (Hbst.) (17851). Known as the Plum Curculio. Breeds in plum, cherry, and the like. Reared from cherry "black-knot." Common.
C. lapathi (Linn.) (17974). The Willow Borer is an introduced species first noted in U. S., 1882. Attacks willow, poplar, and other ornamental trees. Of general distribution. The adults puncture the bark, gouging the cambium layer, while the young, which hatch late in the summer, penetrate the cambium layer in which they hibernate, pupating in the older wood, and emerging the following Spring. Reared from willow as late as July 17.

Phloeophagus Schönherr

P. Apioides Horn. (18047). Corfield under maple bark, July 7.

Rhyncolus Germar

R. Brunneus Mann. (18070). On cedar stump, June 27 (Br.).

Sphenophorus Schönherr


Scolytidae. The Bark Beetles

These are to be found in dead trees. Caging dead limbs is an easy way to collect them. Pry bark from stumps.

Scolytus Geoffroy


Crypturgus Erichson

C. atomus Lee. (18188). This species appears in spruce stumps about 18 months after the tree is felled. Penikese in Aug.

Polygraphus Erichson

P. Rufipennis (Kby.) (18193). The Spruce Bark Beetle. It infests dying and felled spruce. N. E. Harbor; S. W. Harbor, June.
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Carpophorus Eichhoff

C. n. sp. Penikese; in U.S.N.M.

Dendroctonus Erichson


Leperisinus Reitter

L. aculeatus (Say). (18252). The host is ash from which it was taken, Corfield, Sept. 13; Indian Point, Sept. 23.

Hylastinus Bedel

H. obscurus (Marsh.) (18255). Reared from firewood in laboratory. June 3.

Hylurgops Leconte

H. pinifex (Fitch) (18267). Spruce stump opposite Penikese, Aug. 5.

Xyloterinus Swaine

X. politus (Say) (18304). In burrows of white birch (Br.). May 3.

Trypodendron Stephens

T. retusum (Lec.) (18306). On poplar catkins, Apr. 26 (Br.).
T. bivittatum (Kby.) (18309). Mt. Desert, May 7 (Br.).

Gnathotrichus Eichhoff


Conophtorus Hopkins

C. coniperda (Sz.) (18410). Bar Harbor, May 4.
Pityophthorus Eichhoff

P. ramipeeda Sw. (18421). Reared from white pine twigs, Aug. 19.
P. patchi Blackman (20668). Taken on Pitch Pine (Sanford).

Pityogenes Bedel

P. hopkinsi Sw. (18455). Found in white pine, but not common. Bar Harbor, June 7. Brower bred it from Populus tremuloides July 4 and from blister rust white pine Aug. 10. Station F305; in U.S.N.M.

Ips De Geer (Tomicus Latreille)

I. pini (Say) (18475). The Pine Bark Beetle also found in hemlock. Bred from pine log Corfield, July 21; Lake Wood. Aug. 8 (Sanford). Common.

Orthotomicus Ferrari

O. caelatus (Eich.). Found in both pine and spruce. Lake Wood, Aug. 8, '21 (Sanford).

Dryocoetus Eichhoff

D. betulae Hopk. (18540). Feeds on birch and beech.
Order STREPSIPTERA

Stylopidae

Stylops Kirby

S. sp. Echo Lake, June 17. Host *Andrena milwaukeensis* Groen.

S. sp. N. E. Harbor, July 8 (Minot). Host *Andrena thaspis* Groen.

Order MECOPTERA

Pannopidae. Scorpion flies

The way to take the members of this family is by sweeping, particularly near brooks and in gulleys.

Panorpa Linnaeus


P. nebulosa Westw. Bar Harbor (Br.); Chasm on Sargent Mt.; Station F242, April 24–Aug. 9.


P. signifer Banks. Record of capture lost.

P. subfurcata Westw. Echo Lake; S. W. Harbor; Eden; Station F104, July 12–Sept. 10.

Order TRICHOPTERA. The Caddis Flies

Phryganeidae

Phryganea Linnaeus


DASYCEPHALUS Martinov

D. improra Hag. Bar Harbor, July 1 (Br.).

OLIGOSTOMIS Martinov

O. canadensis Banks. S. W. Harbor; Corfield at light, July 10–15.

PTILOSTOMIS Martinov


NEURONIA Leach

N. postica Wlk. Mt. Desert (Br.).

BANKSIOLA Martinov

B. fossuaria Say. N. E. Harbor, July 1 (Minot).
B. smithi (Banks). Mt. Desert (Br.) July 28.

LIMNEPHILIDAE

Glyphotaelius Stephens

G. hostilis (Hagen). Penikese at light June 1–Aug. 8.

ASTENOPHYLAX McLachlan

A. argus (Harris). Record of capture lost.

ARCTOECIA McLachlan

LIMNEPHILUS Leach

L. externus Hag. Hatched from larvae from Ireson Hill Pond, Aug. 27.
L. indivisus Walker. Little Round Pond sweeping, June 18; N. E. Harbor, June (Eddy).
L. moestus Banks. Corfield at light; S. W. Harbor bog (Br.); Richardson Brook; Witches’ Hole at light; N. E. Harbor; Eden, May 11–Aug. 11.

ANABOLIA Stephens

A. sp. Sweeping catkins along Middle Rd. Apr. 23.

PLATYCENTROPUS Ulmer

P. maculipennis Kolen (hostis Hag.). One of our two most common forms. Taken at light Corfield and Penikese.
P. indicans (Wlk.). A common form and taken in numbers in the light traps at Penikese and Corfield, June 14–July 28.

CABORIRIS Navas

C. punctatissimus (Wlk.). One specimen taken at Witches’ Hole Brook, beating, Sept. 1, ’37.
C. lyratus Ross. Bar Harbor, Aug. 2 (Br.).

ANABOLINA Banks

A. submonilifer Walk. Duck Brook; McKinley swamp; Penikese and Corfield at light, Sept. 12–Oct. 6. Our most common form. Mating pair Corfield Oct. 10.
A. sp. Duck Brook, June.
Eustanace Banks


Pycnopsyche Banks

P. guttifer (Wlk.). Echo Lake; Duck Brook; Corfield at light; Sargent Mt. Pond; Seal Cove Brook, Sept. 3–Oct. 6.
P. scabripennis (Rambur). Bar Harbor (Br.); Witches’ Hole Brook; Canyon Brook at 1000 ft., Aug. 27–Sept. 23.
P. circularis (Prov.). Mt. Desert (Br.). Aug. 28.

Frenesia Betten

C. missum Milne. Bar Harbor (Br.). Nov. 7.
C. difficile Wlk. Bar Harbor, Nov. 5 (Br.).

Drusinus Betten

D. sparsus (Bks.). Mt. Desert, June 6 (Alexander); Corfield July 16.

Cheumatopsyche Wallengren

C. analis (Bks.). Bar Harbor, June 7 (Br.).

Diplectrona Westwood

D. modesta Banks. Corfield, June 27; Bar Harbor (Br.), June 22.

Polycentropidae

Polycentropus Curtis

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Plectrocnemia Stephens

P. crassicornis (Wlk.). Corfield, Aug. 15. Sea Wall Bog, June 12 and Bar Harbor, July 7 (Br.).

Olemira Banks

O. sp. Canyon Br. 1000 ft. F220. In U. S. N. M.

Atomia Banks


Lepidostoma Banks


Lepidostomatinae

L. gen. sp. Bar Harbor, July 7, (Br.).

Molannidae

Molanna Curtis

M. sp. Bar Harbor (Br.), July 7.

Leptoceridae

Arthripsodes Billberg


Oecetina Banks

O. inconspicua (Walk.). S. W. Harbor, July; Witch Hole Pond, July 30; Corfield at light, July 10–12.

**Mystacides Latreille**

M. sp. Echo Lake, July 12.

**Triaenodes McLachlan**

T. flavescens Banks. Echo Lake, July 12.
T. dentata Bks. Old Beaver Dam, Apr. 21.
T. sp. Mt. Desert, July 7 (Br.).

**Leptocella Banks**

L. exquisita Walk. Long Pond, June 20.

**Hydropsychidae**

**Arctopsyche McLachlan**

A. apicalis Banks. Long Pond, July 16.

**Hydropsyche Pictet**

H. sp. Duck Brook; Bar Harbor, July 30.

**Neohylax McLachlan**

X. concinnus (M'L). Corfield, Sept. 12–October 18; S. W. Harbor (Alexander); Seal Cove, Sept. 5–8.
X. sp. Seal Cove Brook, Oct. 1.
X. sp. Bubble Pond Inlet, Oct. 4.
Apatania Kolenati


Sericostomatidae

Helicopsyche Hagen

H. borealis Hag. Echo Lake, July 17.

Mormoyia Banks

M. vernalis Bks. Seal Harbor Brook, Aug. 25.

Phylocentropus Banks

P. lucidus (Hag.). Echo Lake; Bar Harbor, July 17–30; Hunters Beach Brook sweeping ferns, June 19.

Holocentropus McLachlan

H. interruptus Banks. S. W. Harbor, June 20.

Nyctiophylax Brauer

N. vestitus (Hag.). Corfield, at light, June 18–Aug. 10.
N. sp. Mt. Desert (Br.).
N. sp. Sea Wall Bog, July.

Philopotamidae

Dolophilus Banks

D. moestus (Bks.). Somes Sound Inlet; Witch Hole; Breakneck Brook; Bubble Brook, June 14–23 (Alexander).

Chimarrha Leach

C. aterrima Hag. Bubble Brook; Bar Harbor; Long Pond; Seal Cove Brook, June 10–Sept. 8.
C. sp.
Philopotamus Leach

P. distinctus (Walk.). Duck Brook, July 30; Corfield, Aug. 3.
P. sp. Outlet of Ripple Pond, Aug. 18.

Rhyacophilidae

Rhyacophilus Pictet

R. invaria Wlk. Long Pond, July 16.
R. torva Hag. Canyon Brook 1000 ft. elevation, July 20, Bar Harbor; Duck Brook, June 7–30.
R. glaberrima Ulm. Beating Section 23, June 23.
R. fuscula Wlk. Along Middle Road, May 23.

Hydroptilidae

Oxyethira Eaton

O. grisea Bks. The Tarn, Aug. 1; Gt. Heath, Aug. 9–Sept. 16.
O. dorsalis Bks. The Tarn, Aug. 1.
O. pallida Bks. The Tarn, Aug. 1.
O. sp. Mt. Desert, Aug. 19 (Br.).

Order LEPIDOPTERA. (Macrolepidoptera)

The listing of the above Order is by number according to the Check List of the Lepidoptera of Canada and the United States of America, Parts I and II, 1938 and 1939 by Dr. J. McDunnough.

Papilionidae

Papilio Linnaeus

P. ajax Linn. (4). The Black Swallow-tail. From June to August. The larva feeds on the wild and cultivated Umbelliferae including carrot, parsnip, parsley, celery, etc. Has decreased in numbers during the past ten years.
P. glaucus form turnus Linn. (15). Tiger or Yellow Swallowtail. Common in June and early July. The larva feeds on a variety of plants, including cherry, apple, quince, ash, birch, alder, poplar, etc. There was a tremendous hatch in June, 1935 on the Island and I saw more individuals in one week than in the entire fifteen years before. Some individuals could be referred to race canadensis R. & J.

Colias Fabricius

C. eurysteme Bdv. (41). Orange Sulphur-butterfly. A western species, formerly rarely recorded in New England, became fairly common in 1936–38 and since then found regularly. Specimens lightly marked with orange are relatively rare. Most individuals being rather heavily marked, but not large or deeply colored.

C. eurysteme Bdv. form ariadne Edw. (41).


C. interior Scud. (45). Pink-edged Sulphur-butterfly. Sometimes quite common throughout the Island in July. The albino taken at S. W. Harbor, July 24 (Br.).

Eurema Hubner

E. lisa B. & L. (72). Little Sulphur-butterfly. "One in excellent condition was taken on Mt. Desert, Me., by Mr. Roland Thaxter in August, 1880" (Scudder). Bar Harbor, Sept. 3, 1934 (Br.).

Pieris Schrank

P. napi Linn. gen. vern. oleracea Harr. (83d). White Mustard-butterfly. Rare. Near Newport Mt. (Reich and Burton). Formerly common throughout northern New England, but since the introduction of Pieris rapae, it has become comparatively scarce, probably owing to parasites. The larva feeds on mustard, cabbage, turnip, and other Cruciferae.
P. rapae Linh. (86). Imported Cabbage-butterfly. Common. Introduced at Quebec about 1860, it reached Mt. Desert about 1868. The larva feeds chiefly on cabbage, but will also feed on most of the Cruciferae, including turnip, mustard, horse radish, water-cress, etc. It is usually kept in check by parasites.

Danaidae

Danaus Kluk

D. plexippus Linh. (89). The Monarch. S. W. Harbor, July, 1918; east of Champlain Mt., 1924 (Burton). It is probably only an occasional visitor during its northern migration. In the absence of milkweed (Asclepias), the larva could probably feed on dogbane (Apocynum). Bar Harbor, Aug. 2 (Br.). On Sept. 23, '33 there were about sixty individuals feeding on purple aster at Sea Wall.


Satyrinae

Enodia Hübner

E. portlandia Fab. (96). The Pearl-eyed Nymph. Local in its distribution, wood near the Sieur de Monts Spring; Eden, July 18-24. The larva feeds on grasses. A pupa taken at Bubble Brook July 12, '36 hatched an Amblyteles n.sp. One taken at Corfield July 7 was not normally marked on the secondaries and approaches the southern form.

Satyrodes Scudder


Minois Hübner


M. alope nephele Kby. (117c). Common and records same as above.
Oeneis Hbn.

O. jutta Hbn. (130). S. W. Harbor, June 12 (Br.). A northern form, very scarce here.

Nymphalidae

Argynnis Fabricius

A. cybele Fab. (166). Great Spangled Fritillary. Common during July and August. The larva passes the winter in a partly grown state, feeding on violets in the Spring and early Summer. Race canadensis McD. is uncommonly found.

A. aphrodite Fab. (167). The Silver Spot. July and August. Larva feeds on violets. Not as common as the following species.


Brenthis Hübner


B. bellona Fab. (212). The Meadow Fritillary. Pond Heath; Eden, July 24, 1925. It is local in its distribution, being found only about wet meadows and bogs. The larva usually feeds on violets.

Euphydryas Seudder


Melitaea Fabricius

Phyciodes Hübner


P. tharos Drury (265). The Pearl Crescent. Common throughout the Island during June, July and August. Variable in color; the Spring form is known as marcia and the Summer form as morpheus. The larva feeds on aster.

Polygonia Hübner

P. interrogationis Fab. (285). The Violet-tip Angle-wing. Mt. Desert, Aug. 20–Sept. 9 (Br.). The form umbrosa was taken on Ironbound Isl. by Mr. Dwight Blaney. The larva feeds on nettle, elm, basswood, etc. Rare.


Nymphalis Kluk


N. antiopa Linn. (298). Mourning Cloak. This species has increased in the past fifteen years and was very abundant in the spring of 1937 owing to the previous mild winter. Out of 52 caterpillars taken, they pupated on July 25 and 50 hatched August 6, showing a case of little parasitism. From the early days of spring when the wintering-over individuals appear, this species is with us until frosts start their hibernation. Larvae found on willow, poplar, elm, etc.
Vanessa Fabricius

V. atalanta Linn. (299). The Red Admiral. Common from first week in July to end of August. Larvae feeds on hops, nettle, and is said to feed on elm.

V. virginiensis Drury (300). Hunter’s Butterfly. Common July 20 to end of August. The larvae feeds on everlasting (Anaphilis) and cud weed.

V. cardui Linn. (301). The Painted Lady. Common July 27 to August 22. Larvae feeds on a great variety of plants including burdock, thistle, everlasting, etc.

Junonia Hübner

J. coenia Hbn. (303). But one individual taken, July 28, '35 (Br.).

Basilarchia Scudder


B. arthemis Drn. form prosperpina Edw. (321). One specimen was taken at Echo Lake, July 17, 1918. This form, which is common in the Berkshires and Catskills, is considered a hybrid between the more southern B. astyanax and the northern B. arthemis. If so, the former must occasionally reach Mt. Desert. In discussing the probable occurrence of prosperpina at Halifax, Nova Scotia, Mr. Scudder says: “It is not at all improbable that ursala (astyanax) may yet be found as far north as Mt. Desert, and that colonies of prosperpina are now living along the whole coast of Maine.” (See Butterflies of New England, vol. 1, p. 291, 1889.).


BIOLOGICAL SURVEY OF

LYCAENIDAE

STRYMON Hübner

S. edwardsi Saund. (385). Mt. Desert, Aug. 9 (Br.).

INCISALIA Scudder


EROKA Scudder

E. laeta Edw. (418). Bar Harbor, May 19–25 (Br.).

FENISECA Grote

F. tarquinius Fab. (419). The Wanderer. Bar Harbor, June, July and Aug. (Br.). The larva is carnivorous, feeding on the woolly aphids Prociphilus tessellata on the alder and P. imbricator on the beech.
F. tarquinius nova-scotiae (419a). McD. Bar Harbor, May 29 (Br.).

LYCAENA Fabricius


Plebeius Kluk

P. saepiolus form insulanus Blkmre. (453b). Mt. Desert, June 29–July 5 (Br.).

Lycaenopsis F. and F.

L. pseudargiolus B. & L. (475). The Common Blue. Common Bar Harbor; S. W. Harbor, June 7–July 21. The larva feeds on a great variety of plants. The species is extremely variable, the spring forms lucia and marginata and the summer form neglecta being present.

Hesperiidae

Thorybes Scudder

T. pylades Scud. (505). Station F244, June 18; Bar Harbor, June.

Erynnis Schrank

E. icelus Scud. & Burg. (541). Corfield; S. W. Harbor; Echo Lake; Station F243, June 12–July 24. Reared from larvae on poplar and Robinia (Br.).

Carterocephalus Lederer


Ancylxypha Felder

A. numitor Fabr. (567). Great Heath, July 5 (Br.).
Hesperia Fabricius

H. comma race laurentina Lyn. (584bb). Mt. Desert, Aug. 12–18 (Br.). This race is moving southward.

H. leonardus Harr. (591). Norway Drive, Sept. 10 (Br.). Rare and local in old fields.

H. sassacus Harr. (598). Echo Lake, July 12; Bar Harbor, June 10–14 (Br.). The larva feeds on grasses.

Polites Scudder

P. themistocles Latr. (611). Echo Lake; Eden, July 12–15.

P. peckius Kby. (614). Generally distributed, June 20–Aug. 10. The larva feeds on grasses.

P. mystic Scud. (618). Ironbound Island (Blaney); Bar Harbor.

Catia Godman and Salvin


Poanes Scudder

P. hobotok (Harris) (624). Echo Lake; N. E. Harbor; S. W. Harbor, June 17–July 10. This species has dimorphic females. The larva feeds on grasses.

Arytone Scudder

A. ruricola Bdv. (642). Bar Harbor, July 13–Aug. 3 (Br.).

Amblyscirtes Scudder

A. vialis Edw. (660). Echo Lake; Bar Harbor; Section 24; Station F192, June 15–July 12. The larva feeds on grasses.

A. hegon Scud. (661). Bar Harbor, June 7–July 16 (Br.).
THE MOUNT DESERT REGION

**Sphingidae**

**Phlegethontius** Hübner

*P. quinquemaculata* Haw. (697). Found dead in a greenhouse, Oct., 1937 (Br.).

**Dolba** Walker


**Ceratomia** Harris


**Sphinx** Linnaeus

*S. chersis* Hbn. (719). The Chersis Sphinx. Bar Harbor, July 10 (Pierson) and Penikese during July. The larva feeds on ash, lilac, wild cherry, etc.

*S. canadensis* Bdv. (725). There is a specimen in the Carnegie Museum labeled "from W. Reiff" with no date. Plentiful in some parts of the state.


*S. drupiferarum* Abb. & Sm. (730). The Wild Cherry Sphinx which prefers that tree but will feed on various others. Bar Harbor, July 29 (Br.).

**Lapara** Walker

S. jamaicensis Drury, form geminatus Say (739). The Twin-spot Sphinx. Common, Corfield, Penikese from June 15 to July 15. The larva feeds on birch, cherry, etc.

S. cerisyi Kby. (740). Corfield at light around the middle of June. Larva feeds upon willows. Not as plentiful as the above.

Paonias Hübner

P. excaecata Abb. & Sm. (741). The Blinded Sphinx. N. E. Harbor; Corfield and Penikese at light, June 29–July 25. The larva feeds on various plants of the order Rosaceae, also on willow, etc.

P. myops Abb. & Sm. (742). The Small-eyed Sphinx. Penikese at light, July 1–23. The larvae also feed on various Rosaceae. Not as plentiful as above.

Pachysphinx Rothschild and Jordan


Aellopos Hübner


Hemaris Dalm

H. thysbe Fab. form cimbiciformis (767). The Hummingbird Clear-wing. Common, June 8–July 28. The larva feeds on Viburnum, Lonicera, etc. The most common species of the genus and is a dimorphic form.


H. diffinis Bdv. (770). The Snowberry Clear-wing. Common, June 12–July 17. The larva feeds on snowberry (Symphoricarpos), Lonicera, etc. The spring form is called tenuis and the summer that above.
Pholus Hübner

P. pandorus Hbn. (772a). One individual taken at Corfield. The larva feeds on Virginia creeper (Ampelopsis) and the Vitaceae. A northern record for this species.

Darapsa Walker


Amphion Hübner

A. nessus Cr. (785). The Nessus Sphinx flies just before sunset. The caterpillar feeds on wild grape, Ampelopsis, Rhodora and lilac. Scarce. Bar Harbor, July 6 (Br.).

Celerio Oken


C. lineata Fab. (799). The Striped Morning Sphinx. Penikese and Corfield at light, June 15–Aug. 23. The larva feeds on a variety of plants, evening primrose, currant, etc.

Saturniidae

Platysamia Grote

P. cecropia Linn. (804). The Cecropia Moth which is common toward the south is scarce here. But few individuals taken. Penikese at light in June.


Actias Leach

A. luna Linn. (811). Luna Moth. Generally distributed and increasing in numbers during the past five years. June 20–Aug. 1.
T. polyphemus (812). The American Silk-worm. Common. The larvae is a general feeder on deciduous trees.

A. io (818). The Io Moth. A common species in New England and a general feeder but scarce here for I have taken but one specimen, Aug. 1, '40 at Corfield.

A. virginiensis (846). The Virginian Anisota. Jordan Pond; Bar Harbor; S. W. Harbor, June 10-25; Bar Harbor, June 24 (Br.). The larva feeds on oak and is known as the Rosy-striped Oak-worm.

A. rubicunda (848). The Rosy Maple Moth is the name of the adult and the caterpillar is known as the Green-striped Maple-worm. N. E. Harbor, June 21–June 26 (Minot); Penikese and Corfield at light during June.

S. fulvicollis (871). Sea Wall on goldenrod, Station F159; Penikese at light, Sept. 11–23. The moths frequent the blossoms of Solidago in the late summer.

L. pholis (877). Station F211; N. E. Harbor; Robinson Mt., July 24–Sept. 3. The larva feeds on lichens while the moth, which is diurnal, prefers the flowers of the Compositae.

THE MOUNT DESERT REGION

NOLIDAE

Sarbena Walker

_S. minuscula_ Zell. (897). Corfield, June 25; Bar Harbor, June 22–July 17 (Br.).

ARCTIDAE

Lexis Wallengren


Crambidae Packard


Clemensia Packard

_C. albata_ Pack. (952). The Little White Lichen Moth which is generally distributed. Bar Harbor, Aug. 16.

Hypoprepia Hübner


Halisidota Hübner

_H. maculata_ Harr. (980). Penikese at light, June 23. The larva feeds on willow, poplar, alder and oak.
_H. tessellaris_ Abb. & Sm. (984). Penikese at light; S. W. Harbor, June 23–Aug. 1. The larva feeds on various shade and fruit trees.

Eubaphe Hübner

_E. laeta_ treath Grt. (1016a). Corfield at light; Bar Harbor (Br.), July 6–14.

E. lamæ Fenn. (1019.1). Sea Wall Bog, July 18–25 (Br.).


**Phragmatobia** Stephens

P. fuliginosa Linn. (1028). The Ruby Tiger Moth. Bar Harbor, May 2–20 (Br.). The caterpillar feeds upon many herbaceous plants and is partial to the shoots of *Solidago*.


**Apantesis** Walker

A. virgo Linn. (1033). The Virgin Tiger Moth. Common, July 27–Aug. 16. The larva feeds on plantain, lettuce, etc.


A. doris Bdv. (1037). Corfield and Penikese at light, June 1–Aug. 16.

A. virguncula Kirby (1044). Manset; S. W. Harbor, June 21; Penikese at light, June 13–23. The variations of this moth refute all of the attempts of "specialists" to set up sub-species based upon an extra dot or two on a wing.

**Diacrisia** Hübner

D. virginica Fab. (1065). The White Tiger Moth. Generally distributed, June 16–Aug. 15. The caterpillar is known as the "woolly bear" and feeds on various plants including peas, beans, grasses, garden flowers, etc.

**Isia** Walker

I. isabella Abb. & Sm. (1069). The larva is called the "banded woolly bear" and feeds on clover, plantain, dandelion, etc. Common everywhere in U. S.
THE MOUNT DESERT REGION

ESTIGMENE Hübner


HYPHANTHIA Harris


PARASEMIA Hübner

P. parthenos Harr. (1092). The St. Lawrence Tiger Moth. S. W. Harbor, June 22, from pupa; N. E. Harbor, July 7 (A. R. Allen); Bar Harbor, July 22; many around the middle of July, 1937.

ARCTIA Schrank


UTETHEISA Hübner

U. bella Linn. (1099). Witch Hole Pond, Sept. 11. The larva feeds on cherry, elm, etc. while the moth is found on Solidago.

AGARISTIDAE

ALYPIA Hübner

A. langtoni Couper (1116). Langton’s Forester. Little Duck Island, July 16 (Br.).
BIOLOGICAL SURVEY OF

Phalaenidae

Colocasia Ochsenheimer

C. flavicornis Sm. (1122). Bar Harbor, July 2 (Br.).
C. propinquilinea Grt. (1123). Bar Harbor, June 17–July 10 (Br.).

Panthæa Hübner

P. acronyctoides Wlk. (1125). Bar Harbor, June 24 (Br.).

Charadra Walker


Raphia Hübner

R. abrupta Grt. (1140). July 20 (Br.).

Acronicta Ochsenheimer

A. americana Harr. (1148). The American Dagger Moth. The caterpillar feeds upon many kinds of deciduous trees which no doubt accounts for its being found almost everywhere east of the Rockies. Corfield at light, July 30; Bar Harbor, July 20.
A. lepusculina Grt. (1153). Bar Harbor, July 1–27 (Br.).
A. lepusculina Grt. var. (1153). Bar Harbor, June 27 (Br.).


A. morula G. & R. (1181). The Darkish Dagger Moth. Apple, elm and linden are the favorite foods of this caterpillar. Bar Harbor, July 15–30 (Br.).

A. lobeliae Gn. (1183). The Lobelia Dagger Moth. The larva feeds on oak. Bar Harbor, May 29 (Br.).


A. afflicta Grt. (1198). Penikese at light, June 27.

A. impleta Wlk. (1201). The Yellow Haired Dagger Moth. The larva is a general feeder on shrubs and deciduous trees. Bar Harbor, July 4 (Br.).


A. lithospila Grt. (1209). The Streaked Dagger. The larvae in this region feed on oak. Bar Harbor, Aug. 8 (Br.).

A. lanceolaria Grt. (1215). Bar Harbor (Bliss Field) (Br.). Larva taken on Spiraea latifolia. Larva determined by S. E. Crumb.

Harrissimemna Grote


Euxoa Hübner

E. detersa Wlk. (1272). Bar Harbor, Sept. 22 (Br.).

E. perpolita Morr. (1292). S. W. Harbor; Corfield at light; Aug. and Sept.
E. velleripennis Grt. (1296). Bar Harbor, Aug. 23 (Br.).
E. messoria Harv. (1310). Eden; N. E. Harbor; Bar Harbor, Aug. 15–Sept. 6. The larva is one of the most troublesome of the early cutworms. Common.
E. scholastica McD. (1315). Mt. Desert, Aug. 17 (Br.).
E. tessellata Harv. (1341). Striped Cutworm. Bar Harbor, Aug. 25 (Br.).
E. declarata Wlk. (1351). Bar Harbor, Aug. 25–31 (Br.).

Agrotis Ochsenheimer

A. mollis Wlk. (1419). N. E. Harbor (Minot); Bar Harbor (Br.), July 12–Aug. 25.
A. venerabilis Wlk. (1425). Bar Harbor; N. E. Harbor; Penikese and Corfield at light through the month of September.
A. volubilis Harv. (1432). Bar Harbor, Sept. 24 (Br.).
A. ypsilon Rott. (1435). Bar Harbor, July 22; Corfield sugaring and at light, June 6–Aug. 5. The larva is one of the troublesome cutworms. A very common species.

Feltia Walker

F. ducens Wlk. (1442). The larva is one of the most common cutworms and feeds on almost everything. Common.
THE MOUNT DESERT REGION

F. ANNEXEA Treit. (1450). The Granulated Cutworm. Bar Harbor, Oct. 28 (Br.).


ACTEBIA Stephens


SPAELOTIS Boisduval


EUROIS Hübner

E. OCCULTA Linn. (1475). N. E. Harbor, July 19–27 (Minot); Bar Harbor, Aug. 6–Sept. 21. In this section it is a blueberry feeder. A distinctly northern species.

E. ASTRICATA Morr. (1476). N. E. Harbor; Penikese at light, July 31 Aug. 20. Among the food plants are alder, gray birch, wild cherry, blueberry, strawberry.

OCHROPLEURA Hübner


ECAGROTIS McDunnough


METALEPSIS Grote

M. FISHI Gt. (1493). Mt. Desert, April 27 (Br.).

M. SALICARUM Wlk. (1494). Mt. Desert, April 26 (Br.).
BIOLOGICAL SURVEY OF

PERIDROMA Hübner

P. margaritosa form saucia Hbn. (1496). The Variegated Cutworm. Bar Harbor, Aug. 31 (Br.).

HEMIPACHNORIA McDunnough


PSEUDOSPAELOTTIS McDunnough

P. haruspica Grt. (1499). Corfield at light; Newport Meadow, July 20–Sept. 2.

HEPTAGROTIS McDunnough

H. phyllophora Grt. (1502). N. E. Harbor, July 27 (Minot). Bar Harbor, July 18–Aug. 2 (Br.). While wild cherry is the favorite food plant, it will eat willow, alder, birch, blueberry, etc.

DIARSIA Hübner

D. cynica Sm. (1504). Bar Harbor, Aug. 3–31 (Br.).
D. jucunda Wlk. (1507). Bar Harbor, July 10–18 (Br.).

GRAPHIPHORA Oehsenheimer

G. normaniaxa Grt. (1513). Bar Harbor, Aug. 8–18 (Br.).
G. bicarnea Gn. (1523). N. E. Harbor; Eden; Corfield at light; Bar Harbor (Br.), Aug. 2–Sept. 2. The larva is a troublesome cutworm and among its foods are blueberry, maple, gray birch, meadow-sweet and dandelion.
G. tenuiacula Morr. (1525). Bar Harbor, Aug. 10–31 (Br.).
THE MOUNT DESERT REGION

Anomogyna Staud.

A. dilucida Morr. (1562). Bar Harbor, Aug. 23–Sept. 7 (Br.).
A. dilucida form youngi Sm. (1562). Bar Harbor, Aug. 23–Sept. 9 (Br.).
A. dilucida atoma Sm. (1562a). Bar Harbor, Aug. 23–26 (Br.).

Aplectoides Butler

A. condita Gn. (1568). Bar Harbor, July 2 (Br.).

Anaplectoides McDunnough

A. pressus Grt. (1569). S. W. Harbor, July 10; Bar Harbor, July.

Protolampra McDunnough

P. brunneicollis Grt. (1572). Bar Harbor, July 14–Aug. 23 (Br.). Food plants are low ones and include dandelion, sweet fern, and blueberry.

Cryptocala Benjamin

BIOLOGICAL SURVEY OF

Eurectagrotis Smith

E. perattenta Grt. (1577). N. E. Harbor, July 22 (Minot). Bar Harbor, Aug. 3 (Br.). Food plants are blueberry and wild cherry.

E. attenta Grt. (1578). N. E. Harbor; Eden; Bar Harbor (Br.), July 7–Aug. 7.

Abagrotis Smith

A. placida Grt. (1593). Bar Harbor, Aug. 20 (Br.).
A. alternata Grt. (1601). Bar Harbor, Sept. 6 (Br.).

Rhynchagrotis Smith

R. cupida Grt. (1602). Bar Harbor, Aug. 4–17 (Br.).
R. cupida var. (1602). Bar Harbor, Aug. 24 (Br.).

Upeus Grote


Scotogramma Smith

S. trifolii albifusa Wlk. (1633a). Bar Harbor, Aug. 16 (Br.).

Polia Ochsenheimer

P. imbrifera Gn. (1667). Corfield at light, July 13; Bar Harbor, Aug. 7 (Br.). Scarce.
P. imbrifera var. Record of capture lost.
P. purpurissata Grt. (1669). Penikese at light, Aug. 22. Larva feeds on sweet fern, blueberry, Spirea, Rhodora, etc.
P. subjuxcta G & R (1673). Bar Harbor, July 9–Aug. 2
(Br.). Feeds upon the fruit of the blueberry but will eat
the leaves.
P. latex Gn. (1675). Bar Harbor, May 19–July 6 (Br.).
P. rugosa Mott. (1685). Penikese at light, June 15. Bar
Harbor, June 8–July 4 (Br.).
P. lilacina Hary. (1687). Penikese and Corfield at light:
Bar Harbor (Br.), June 24–July 31.
P. lilacina var. Record of capture lost.
P. adjuncta Bdv. (1691). Bar Harbor June 26 (Br.). Rear-
ed July–Aug.
P. lutra Gn. (1699). Penikese at light, June 14; Bar Har-
bor, July.
P. detracta Wlk. (1709). Bar Harbor, July. Food plants
include service berry, gray birch and blueberry.

Lacinipolia Mcdunnough

L. meditata Gnt. (1712). Penikese at light, Aug. 6; Bar Har-
bor, Aug. 5–24. Very rare.
L. lorea Gn. (1744). Bar Harbor, June 6–July 7 (Br.).
Sweet fern and Spirea are the favorites among its food
plants.

Sideridis Hübner

S. maryx Gn. (1802). Narrows; Penikese at light; Bar Har-
Tricholita Grote

T. signata form igna B. & B. (1821). Bar Harbor, Aug. 7 (Br.).

Orthodes Guenée

O. oviducta Gn. (1835). Mt. Desert, June 16–July 7 (Br.).
O. cynica Gn. (1872). Record doubtful but should be found here.
O. contrahens Wlk. (1886). Mt. Desert, Aug. 7 (Br.).

Nephe洛des Guenée

N. emmedonia Cram. (1895). The Bronzed Cutworm. Common, July 13–Sept. 6. The larva feeds on Solidago, etc.

Morrisonia Grote

M. evicta Gn. (1903). Bar Harbor, May 8–21 (Br.).

Xylomyges Guenée

X. dolosa Gn. (1914). Bar Harbor, Apr. 28–May 29 (Br.).

Orthosia Ochsenheimer

O. hibisci Gn. (1943). Bar Harbor, Apr. 27 (Br.).
Crociographa Grote
C. normani Grt. (1950). Mt. Desert, Apr. 27-June 3 (Br.).

Ceramica Guenée
C. picta Harr. (1951). The Zebra Caterpillar. Penikese at light, June 2-21; Bar Harbor, Aug. 29 (Br.). Larva will feed on most garden plants.

Protoleucania McDunnough

Leucania Ochsenheimer
L. inermis Fbs. (1975). Bar Harbor, June 27-July 7 (Br.).

Cucullia Schrank
C. intermedia Spey. (2038). Penikese at light, May 26; Station F190, June 2; Eden, Aug.; Bar Harbor, July 19-Aug. 18.
C. florea Gil. (2041). Bar Harbor, Aug. 1-27 (Br.).
C. postera Gil. (2042). Bar Harbor, July 18-30 (Br.).
C. asteroides Gil. (2044). Bar Harbor, Aug. 23 (Br.).

Oncoenemis Lederer

O. piffardi Wilk. (2116). S. W. Harbor; Penikese at light, Sept. 26; Bar Harbor, Sept. 8-14; Robinson Mtn., Aug. 31.

Apharetta Grote


Feralia Grote

F. jocosa Gil. Furtiva (2183a) Sm. In a hemlock grove, May 8 (Br.).
F. major Sm. (2185). Bar Harbor, May 11-29 (Br.). Usually frequents pine woods.

Bombycia Stephens


Brachylomia Hampson


Hillia Grote

H. iris Zett. (2211). Penikese at light, Sept. 27.

Lemmeria Barnes and Benjamin

THE MOUNT DESERT REGION

Litholomia Grote


Lithomoia Hübner


Graptolitha Hübner

G. bethunei G. & R. (2220). Bar Harbor, Sept. 10, Apr. 27–May 10 (Br.).
G. ferrealis Grt. (2223). Mt. Desert, Sept. 9–23, May 7 (Br.).
G. tepida Grt. (2241). Bar Harbor, May 8 (Br.).
G. georgii Grt. (2244). Bar Harbor, July 21–Aug. 30 (Br.).
G. laticinerea Grt. (2245). Bar Harbor, Apr. 23 (Br.).
G. cinerosa Grt. (2246). Bar Harbor, Oct. 13 (Br.).
G. unimoda Lint. (2247). Bar Harbor, Apr. 28 (Br.).
G. pexata Grt. (2252). Bar Harbor May 1–10 (Br.).
G. thaxteri Grt. (2258). Reared from Myrica gale, Sept. 20 (Br.).

Xylena Ochsenheimer

X. xupera Lint. (2259). Mt. Desert, Apr. 30 (Br.). Corfield at light, Sept. 16.
X. curvimacula Morr. (2260). Bar Harbor, Sept. 27, May 1–June 4 (Br.).
X. cineritla Grt. (2263). Bar Harbor, Apr. 30–May 4 (Br.).
Xylotype Hampson


Platypolia Grote


Fishea Grote

F. enthea Grt. (2283). Bar Harbor, Sept. 23-Oct. 6 (Br.).

Anytus Grote


Harpaglaea Hampson


Epiglaea Grote

E. apiata Grt. (2294). Eden, Aug; Penikese at light; Bar Harbor, Sept.

Metaxaglaea Franclemont


Pyreferra Franclemont

P. hesperidago Grt. (indirecta Wlk.) (2299). Bar Harbor, Sept. 27, 1932 (Br.).
Euphilia Hübner

E. tristigmata Grt. (2303). Bar Harbor, Oct. 30 (Br.).
E. walkeri Grt. (2304). Has the white reniform while sidus has the red. Both forms look a lot different after over wintering as adults. This is why I have added it as a form. Apr. 25–Nov. 12.
E. morrisoni Grt. (2305). Bar Harbor, Oct. 3–30 (Br.).
E. devia Grt. (2306). Bar Harbor, Apr. 26–May 13 (Br.).

Parastichis Hübner

P. discivaria Wlk. (2309). Bar Harbor, Aug. 6–18 (Br.).

Rusina Stephens


Xanthia Oechsenheimer

X. lutea Strom. (2316). N. E. Harbor; Corfield at light, Aug. 7–Sept. 27.

Anathix Francemont

A. ralla G. & R. (2317). N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 11–Sept. 27.
A. puta G. & R. (2318). Bar Harbor, Aug. 23–Sept. 9 (Br.).

Eucirrhoedia Grote

E. pampina Gn. (2321). Echo Lake; Penikese at light; Western Mt.; Corfield, July 7–Sept. 13.

Homoglaea Morrison

H. hircina Morr. (2324). Bar Harbor, Apr. 20–27 (Br.).
S. verraeoides Gn. (2328). Bar Harbor, July 5–Aug. 6 (Br.).
S. nigrior Sm. (2329). Eden, middle of Aug.
S. lignicolora Gn. (2335). S. W. Harbor; Penikese at light, July 20–23.
S. vultuosa Grt. (2344). S. W. Harbor (Mrs. Palmer).
S. artica Frr. (2351). Common, July 8–Sept. 10. The larva is one of the destructive cutworms.
S. alia form borulenta Sm. (2353). Bar Harbor, July 21 (Br.).
S. impulsa Gn. (2362). Bar Harbor, July 18 (Br.).
S. indociles Wlk. (2364). Bar Harbor, Aug. 2 (Br.).

Agroperina Hampson
A. lateritia Hufn. (2366). Corfield, July 13; Bar Harbor, June 30–July 6 (Br.). General but scarce.

Crymodes Guenée
C. devastator Brace (2375). The Glassy Cutworm. Common, July 20–Aug. 15. The larva is one of the destructive cutworms.

Luperina Boisduval
Oligia Hübner


O. bridghamii G. & R. (2420). N. E. Harbor; Penikese at light, Aug. 3–17; Bar Harbor, July 25–Sept. 12, and reared from Myrica (Br.).


O. illocata Wlk. (2423). N. E. Harbor (Minot); Bar Harbor, Aug. 23–Sept. 27.


O. fractilinea Grt. (2426). Bar Harbor, Aug. 5–8 (Br.).


Eremobina McDunnough

E. claudens Wlk. (2430). Bar Harbor, Aug. 24–Sept. 2 (Br.).

Xylomoia Staudinger


Archanara Walker

A. oblonga Grt. (2439). Bar Harbor, Sept. 17 (Br.).

Hypocoena Hampson


Ipimorpha Hübner

BIOLOGICAL SURVEY OF

HELIOTROPHA Lederer

R. reniformis Grt. (2457). Bar Harbor, Aug. 16 (Br.). This is the typical or light form. The dark form is atria.

H. reniformis form atria Grt. (2457). Bar Harbor, Aug. 16–Sept. 10 (Br.).

APAMEA Ochsenheimer

A. velata Wlk. (2458). N. E. Harbor, July 22 (Minot); Bar Harbor, July.

A. americana Speyer (2459). Common, Aug. 15–Sept. 15. The larva bores into various grasses.


HYDROECIA Guenée


PAPAIPEMA Smith


P. lysimachiae Bird (2508). Mt. Desert, Sept. 9–17 (Br.).


P. frigida Sm. (2521). Corfield at light, Oct. 6. The larvae feed upon meadow-rue (Thalictrum polygamum).

EUPLEXIA Stephens

E. benesimilis McD. (2533). N. E. Harbor, June 26 (Minot); Corfield and Penikese at light, July 3–9. The larva feeds on birch, Viburnum, etc.
THE MOUNT DESERT REGION

Phlogophora Treitschke

P. periculosa form v-brunneum Grt. (2536). N. E. Harbor; Eden; Corfield at light, Aug. 1–19.

Haploodophius Butler

H. mollissima Gn. (2539). Bar Harbor, July 21, 1938 (Br.).

Eucherrichia Grote

E. monetifera Gn. (2540). S. W. Harbor; Eden, June 21–Aug. 9; Corfield at light, July 13–Aug. 3.

Macronoctua Grote


Chytonix Grote


Leuconycta Hampson

L. diphteroides Gn. (2576). N. E. Harbor (Minot); Penikese at light, June 22–Aug. 18.
L. lepidula Grt. (2577). N. E. Harbor (Minot); Corfield at light, July 4.

Agriopodes Hampson

AMPHIPYRA Ochsenheimer

A. TRAGOPOGINIS Linn. (2585). Bar Harbor (Br.); N. E. Harbor (Minot), Aug. 8–21.

DIPTERYGIA Stephens


DELTIA Saalm


ANDROPOLIA Grote

A. CONTACTA Wlk. (2596). Bar Harbor, Aug. 1 (Br.).

HYPPA Duponchel

H. XYLINOIDES Gn. (2607). A common species abundant in spring and remains all summer. The larva is a blueberry feeder in this region.

PLATYSENTA Grote

P. VIDENS Gn. (2613). Bar Harbor, Aug. 6 (Br.).

ELAPHRIA Hübner

E. VERSICOLOR Grt. (2645). Corfield at light, June 28, '36. Rare. Has been bred from spruce.

PLATYPERIGEA Smith

P. MULTIFERA Wlk. (2655). N. E. Harbor, Aug. 18–Sept. 5. (Minot); Bar Harbor, Aug. 18–28 (Br.). Penikese at light Aug. 27.
THE MOUNT DESERT REGION

PROXENUS H. S.

P. MIRANDA B. & McD. (2662). Bar Harbor, July 10 (Br.).

GALGULA Guenée

G. PARTITA Gn. (2666). Corfield at light, June 12–Aug. Sexual color difference, the female being dark and the male light.

BALSA Walker


PRODENIA Guenée

P. ORNITHOGALLI form EUDIOPTA Gn. (2678). Bar Harbor, Aug. 18–28 (Br.).

LAPHYGAMA Guenée

L. FRUGIPERDA S & A (2682). Fall Army Worm. Bar Harbor, Aug. 7–31 (Br.). Variable in markings. Feeds on garden crops, timothy, etc., in the late summer. It is not the true Army Worm.

MAGUSA Walker

M. ORBIFERA Wlk. (2684). Bar Harbor, Aug. 6 (Br.).

ENARGIA Hübner

COSMIA Oechsleheimer

C. canescens form orinella Strand. (2687). Bar Harbor, July 30 (Br.).

AMOLITA Grote

A. fessa Grt. (2694). Bar Harbor, July 10–19 (Br.).

BELLURU Walker

B. gortynoides Wlk. (2708). Hulls Cove (Br.). Larva taken crawling over yellow water lily. Larva determined by S. E. Grumb.

ACHATODES Guenée

A. zeae Harr. (2711). Bar Harbor, Aug. 10 (Br.). The larva is a stem feeder of elder (Sambucus) and cornstalks. Common south but scarce here.

PYRRHIA Hübner

P. umbra Hufn. form exprimens Wlk. (2715a). Bred from rosebud, June 17–21 and larkspur, July (Br.); Corfield at light, July 7.

EUTRICOPSIS Morrison

E. nelixis Mort. (2871). Bar Harbor, May 18 (Br.).

HELIOTHIS Oechsleheimer


RHODOPHORA Guenée


SCHNIA Hübner

THE MOUNT DESERT REGION

**Cryphia Hübner**


**Exyra Grote**


**Erastria Ochsenheimer (Lithacodia Grt.)**

E. bellicula Hbn. (3117). Station F204, July 2.
E. concinnimaculata Gn. (3122). N. E. Harbor (Minot); Corfield at light; Bar Harbor (Br.), June 10–Sept. 5.

**Neoeastria McDunnough**


**Capis Grote**


**Tarachidia Hampson**


**Marathyssa Walker**


**Characoma Walker**


**Sarrothripus Curtis**

BIOLOGICAL SURVEY OF

BAILEYA Grote


AUTOGRAPHA Hübner

A. Rectangula Kby. (3254). N. E. Harbor (Minot); Penikese and Corfield at light, July 15–Aug. 15.
A. Alias Ottol. (3257). Corfield and Penikese at light, July 13–Aug. 6. Reared from spruce (Br.).
A. Octoscripta form varians Ottol. (3260b). Bar Harbor, July 6–12 (Br.).
A. Selecta Wlk. (3266). N. E. Harbor, Aug. 29 (Minot); Bar Harbor, July 27 (Br.). Scarc.
A. Brassicae Riley (3269). Bar Harbor, July 21–Aug. 19 (Br.).
A. Oxygramma Geyer (3277). Bar Harbor, Sept. 19 (Br.).
A. mappa G. & R. (3286). N. E. Harbor, Aug. 24 (Minot); Bar Harbor, July 19 (Br.).
A. flagellum Wlk. (3291). Bar Harbor, July 12–19 (Br.).

northern form from the Canadian northwest and rare in collections.

PLUSIA Ochsenheimer


EOSPHOROPTERYX Dyar


PALAEPLUSIA Hampson


CHRYSANYMPHA Grote

C. formosa Grt. (3305). N. E. Harbor, July 31 (Minot); Bar Harbor, July 7–20. Rare.

CATOCALA Schrank

C. antinympha Hbn. (3316). N. E. Harbor (Minot); Penikese at light; Section 30 sugaring, July 19–Sept. 10.
C. coelebs form phoebe Hy. Edw. (3317). Bar Harbor, Aug. 10 (Br.).
C. subnata Grt. (3338). Bar Harbor, Aug. 10 (Br.).
C. ilia form conspicua Worth (3342). Bar Harbor (Br.).
C. ilia form normani Bartsch (3342). Bred in July (Br.).
The larva feeds on birch and poplar.
C. relicta form phrynia Hy. Edw. (3344). Bar Harbor, Sept. 4 (Br.).
C. relicta form clara Beut. (3344). Witch Hole Pond sugaring, Aug. 5.
C. unijuga Wlk. (3346). S. W. Harbor (Alexander); Corfield and Witch Hole Pond sugaring, Aug. 5–Sept. 5.
C. unijuga form agatha Beut. (3346). Bar Harbor, Sept. 5 (Br.).
C. parta Gu. (3347). Mt. Desert, Aug. and Sept. (Br.).
C. briseis Edw. (3357). Bar Harbor, Aug. 4 (Br.).
C. semirelicta Grt. (3361). Bar Harbor, Aug. 19 (Br.).
C. sordida Grt. (3385). Bar Harbor, July 22; Station F215, Sept. 9; Bar Harbor, Aug. 18 (Br.).
C. sordida form metalomus Mayfield (3385). Bar Harbor, Aug. 6–17 (Br.).
C. coccinata Grt. (3389). Bar Harbor at light and bait, Aug. 7–25 (Br.).
C. ultronia form celia Hy. Edw. (3395). The larva feeds on apple, plum, wild cherry, etc. July and Aug.
C. amica race lineella Grt. (3412a). Bar Harbor, Aug. 18 (Br.).

Euparthenos Grote

THE MOUNT DESERT REGION

PARALLELIA Hübner

P. bistriaris Hbn. (3422). N. E. Harbor; Green Mt.; Corfield; Penikese, June 3–Aug. 8. The larva feeds on maple.

EUCLIDINA McDunnough


CAENURGINA McDunnough

C. erechtea Cram. (3431). July–Aug. The larva feeds on grasses, clover, etc.

PTCHOMIS Hübner

P. vinculum Gn. (3439). Record of capture lost.

DORYODES Guenée


ZALE Hübner

Z. lunata Duf. (3474). Bar Harbor, Oct. 7 (Br.).
Z. aeruginosa Gn. (3480). Corfield at light, June 22.

EREBUS Latreille

E. odora Linn. (3525). The Black Witch. A large tropical form which sometimes strays north. One seen at bait, Corfield, Aug. 1 and one female taken at bait, Norway Drive, Aug. 2, which is a record for this part of the U. S. The larvae live on papilionaceous trees.
SYNEDOIDA H. Edwards


ANTICARSSIA Hübner

A. GEMMATILIS Hbr. (3590). Velvet Bean Caterpillar. Bar Harbor, June 16 (Br.).

CALPE Treitschke


SCOLIOPTERYX German


ALABAMA Grote


PANGRAPTA Hübner

P. DECORALIS Hbr. (3650). Comon, June 18–Aug. 7. The larvae of this small moth feeds on blueberry, etc.

METALECTRA Hübner


SPARGALOMA Grote

S. SEXPUNCTATA Grt. (3684). Bar Harbor, July 6 (Br.).
Bomolocha Hübner

B. Baltimoralis Gn. (3688). N. E. Harbor (Minot); Corfield at light, July 13–Aug. 15. The larva feeds on maple. I have a specimen taken by Dr. Fernald on May 25, 1867.

B. palparia Wlk. (3690). Bar Harbor, July 6 (Br.).


B. citata Grt. (3701). Oct. 16 (Br.). Scarce.

Lomanaltes Grote


Plathypena Grote


Hypena Schrank


Dyspyralis Warren

D. illocata Warr. (3716). Bar Harbor, July 30 (Br.).

Menopsimus Dyar

M. caducus Dyar (3728). S. W. Harbor bog and Bar Harbor, July 27–Aug. 8 (Br.). Our smallest noctuid.

Rivula Guenée

CAMPTYLOCHILA Stephens


C. AEMULA Hbn. (3735). N. E. Harbor; Eden; Paradise Hill, July 30–Aug. 10. The larva is said to feed on spruce and the adult on the sap. Inhabits woods. Common.


C. JULIA B. & McD. (3739). Bar Harbor, Aug. 10 (Br.).

C. DIMINUENDIS B. & McD. (3740). Bar Harbor, Aug. 7 (Br.).


PHALAENOPHANA Grote

P. PYRAMUSALIS Wlk. (3750). N. E. Harbor (Minot); Penikese at light, June 20–July 16.

EPIZEUXIS Hübner

E. LITURALIS Hbn. (3752). Bar Harbor, July (Br.).

E. THERALIS Wlk. (3753). Bar Harbor, July 18 (Br.).


E. PROTUMNXUSALIS Wlk. (3760). Bar Harbor, August 1 (Br.).

E. JACCHUSALIS Wlk. (3763). Mt. Desert, July 22 (Br.).

E. OCHREIPENNXIS Grt. (3764). N. E. Harbor; Eden; Corfield at light, July 1–Aug. 1.

CHYTOLITA Grote

C. PETREALIS Grt. (3767). N. E. Harbor (Minot); Bar Harbor; Penikese at light, June 28–July 4.

PHILOMETRA Grote

P. METONALIS Wlk. (3770). Echo Lake; N. E. Harbor; Eden; Bar Harbor, July 4–Aug. 5.

P. HANHAMI Sm. (3772). Bar Harbor, July 23 (Br.).
Hormisa Walker


Renia Guenée

R. atrimacula Sm. (3791). Bar Harbor (Br.), Aug. 16.

Bleptina Guenée

B. caradrinalis Gn. (3797). Eden; Bar Harbor, June 28–Aug. 5.

Palthis Hübner

P. angulalis Hbn. (3807). Bar Harbor; Echo Lake; Corfield at light; Bar Harbor, June 10–July 12.

Notodontidae

Ichthyura Hübner

I. apicalis Wlk. (3822). Corfield and Penikese at light, June 22–July 11; Bar Harbor, Aug. 2–5 (Br.).

Datana Walker

D. ministra Dru. (3829). Yellow-necked apple-worm. The larvae are gregarious and appear in August.

Hyperaeschna Butler

H. stragula Grt. (3843). Bar Harbor, July 22 (Br.). Rare.
BIOLOGICAL SURVEY OF

Odontosia Hübner

O. elegans Stkr. (3847). Mt. Desert, July 6–24 (Br.). Rare.

Notodonta Ochsenheimer

N. basitriens Wlk. (3849). Bar Harbor, July 7 (Br.).

Pheosia Hübner


Lophodonta Packard

L. ferruginea Pack. (3853). N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 14 (Br.); Penikese at light, July 10–19. The larva feeds on oak, maple, linden, etc.
L. angulosa A. & S. (3854). Penikese at light, June 23–July 19; Bar Harbor, July 12–Aug. 7 (Br.). The larva feeds on oak.

Nadata Walker


Symmerista Neumoësen and Dyar

S. albifrons A. & S. (3859). N. E. Harbor (Minot); Penikese at light, June 28–July 20. The larva feeds on oak, maple, etc.

Dasylophia Packard

D. thyatiroides Wlk. (3881). Bar Harbor, July 12 (Br.).
Heterocampa Doubleday


H. guttivitta Wlk. (3907). Northeast Harbor, June 26 (Minot); Bar Harbor (Br.), June 26–July 2. The larva is popularly known as the "saddle prominent" and is often injurious to maples and poplars.

Fentonia Butler


Decentria H. S.


Schizura Doubleday


Cerura Schrank

C. cinerea Wlk. (3935). Bar Harbor, July 2 (Br.). Rare.
C. modesta Hudson (3937). Bar Harbor, Aug. 5 (Br.). Rare.

Gulphisia Boisduval

G. septentrionalis Wlk. (3939). N. E. Harbor (Minot); Bar Harbor (Br.); Penikese at light, June 23–Aug. 19. The larva feeds on willow, poplar and birch.
G. linctneri form avimacula Hudson (3940). Mt. Desert, May 18–23 (Br.).

Liparidae

Notoholopus Germar

N. antiqua Linn. (3943). There are some wood roads running in from the west road at about the Mt. Desert-Tremont line where this moth is quite common from the last of September to the middle of October. Have not taken it any other place. The larvae feed on most of the orchard and forest trees. Poplar seems to be the favorite here.

Hemerocampa Dyar

H. leucostigma A. & S. (3948). White Marked Tussock Moth. Taken at light, Penikese, in small numbers from last week in August to last week in September, '34, '35, '36. The larvae feed on various fruit and shade trees.

Olene Hübner

Liparis Ochsenheimer

L. dispar Linn. (3965). The Gypsy Moth. Reported in 1919 from three different places on the Island but not seen by the writer until August 10, 1933, when one or two individuals were seen at the laboratory and a careful search revealed large numbers. With cooperation the infestation was stamped out by those on whose property it occurred. There have been several infestations since, and the numbers are increasing rapidly. They will soon be a major problem on the Island.

Stilpnotia Westwood

S. salicis Linn. (3966). The Satin Moth. First reported in the vicinity of Boston in 1920. It has gradually spread northeastward, and this is the most northerly record at the present time. Bar Harbor at light, July 31, ’35 (Br.). The larvae feeds on poplar and willow.

Nygmia Hübner

N. phaeorrhoea Don. (3967). The Brown-tail Moth. Abundant during 1911–1914. Then a few were seen yearly until 1944, when they appeared in large numbers from the west, necessitating town control.

Lasiocampidae

Tolype Hübner


Malacosoma Hübner

M. americana Fab. (3989). The American Tent Caterpillar. Always present. In great numbers ’35 and ’36 and almost none in ’38. Show great variation. The larvae form large tent-like webs on the apple, cherry, and other trees. The caterpillars are heavily parasitized by tachinid flies.
M. disstria Hbn. (3997). The Forest Tent Caterpillar. Generally distributed but in smaller numbers. Among other plants the larva feeds on blueberry.

M. disstria form sylvatica Harr. (3997). Generally distributed in small numbers. The larvae feed on birch, cherry, poplar, willow, etc.

Epicnaptera Rambur

E. americana Harr. (3999). The American Lappet. Bar Harbor (Br.); Penikese at light, May 26–July 16. Has various color forms which are supposed to be local races.

Thyatiridae

Harrosyne Hübner


Pseudothyatira Grote


P. cymatophoroides form expultrix Grt. (4007). N. E. Harbor (Minot); Bar Harbor (Br.), July 2–19. The larva has same food habits as above.

Drepanidae

Oreta Walker

O. rosea Wilk. (4019). N. E. Harbor (Minot); Corfield at light, July 10–Sept. 5. The larva feeds on Viburnum.


Drepana Schrank

D. arcuata Wilk. (4020). S. W. Harbor; Corfield, June 2–July 16. The larva is solitary and forms a web. It feeds on birch and alder. This species is dimorphic and this is the summer form.
D. arcuata form genicula Grt. (4020). N. E. Harbor, July 19 (Minot); Corfield. This is the spring form.


**Geometridae**

**Brehos Zinck**

B. infans Moesch. (4023). Bar Harbor, April 12–May 1 (Br.). This northern form is not common here. The larvae feed upon white birch.

**Alsophila Hübner**

A. pometaria Harr. (4026). Fall Cancer Worm. A serious pest on a large number of plants and shrubs. The females are wingless. Bar Harbor, Nov. 7–22 (Br.).

**Nemoria Hübner**

N. mimosaria Gul. (4048). Penikese at light; Bar Harbor, June 7–19.


**Synchlora Guenée**

S. aerata Fab. (4070). Near Bar Harbor (Burton); Bar Harbor (Br.), July 1–4. The larva feeds on blackberry and raspberry.


**Chlorissa Stephens**

C. subcroceata Wlk. (4088). Rhodora Meadow, June 6 (Br.). Rare.

**Mesothea Warner**

M. incertata Wlk. (4089). Mt. Desert, May 5–20 (Br.). Blueberry is one of the food plants.

Scopula Schrank

S. enucleata form mensurata Wlk. (4149). Bar Harbor, Aug. 1 (Br.).
S. enucleata form relevata Swett. (4149). Bar Harbor, July 24 (Br.).
S. enucleata form adornata Prout. (4149). Bar Harbor, July 18 (Br.).

Sterrha Hübner


Haematopis Hübner

H. grataria Fab. (4204). Bar Harbor, Aug. 10 (Br.). The larva feeds on chickweed.

Pleuroprucha Moesch

P. insularia Gn. (4206). N. E. Harbor, July 20–30 (Minot); Bar Harbor, June 29–Aug. 10. The larva feeds on oak, Galium, etc.
THE MOUNT DESERT REGION

Cosymia Hübner

C. myrtaria Gn.? (4209). Record of capture lost.


C. pendulinaria form nigricaria Rotke (4211). Bar Harbor, June 5.

Acasis Duponceel


Nyctobia Hulst

N. limitaria Wlk.? (4223). Bar Harbor, April 26–May 11.


Cladara Hulst

C. atroliturata Wlk. (4225). Mt. Desert, April 4–May 28 (Br.). Frequents woods where in the early spring it may be looked for on stumps.

Lobophora Curtis


Neodezia Warren


Oporophtera Hübner

O. bruceata Hlst. (4239). Bar Harbor, Nov. 1 (Br.).
O. henshawi Swett (4243a). Corfield at light; Pretty Marsh, flying in woods, Oct. 3–11.

Triphosa Stephens


Calocalpe Hübner

C. undulata Linn. (4247). S. W. Harbor, June 16–July 30; bred from wild cherry, June 25. The larvae are gregarious, webbing together the leaves on the terminal shoots of the wild cherry.

Eupithecia Curtis

E. miserulata Grt. (4266). Station F66, Aug. 21, '29. Bar Harbor, June 3–Aug. 23 (Br.). Pupae under spruce, Bar Harbor, Nov. 11 (Br.).


E. castigata Hbn. (4276). May 31–July 2 (Br.).

E. fletcherata Tayl. (4280). Bar Harbor, Aug. 17 (Br.).

E. palpata Pack. (4287). Bar Harbor, July 1 (Br.).


E. satyrata Hbn.? (4319). Bar Harbor, June 11 (Br.).


E. chagnoni Swett (4322). Bar Harbor, June 26 (Br.).


E. geminata Pack. (4331). N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 9–31. The larva feeds on the flowers of the yarrow, goldenrod, etc.

THE MOUNT DESERT REGION

E. filmata Pears. (4348). Bar Harbor, Apr. 26 (Br.).
E. anticaria Wlk. (4389). S. W. Harbor; Bar Harbor (Br.); Eden, July 1–18.
E. sp. There are three separate species taken at Corfield in May and June.

Horisme Hübner


Lygris Hübner

L. diversilineata form gracilineata Gn. (4401). Corfield at light, Sept. 2. This is easily confused with L. diversiliniata.
L. testata Linn. (4403). Bar Harbor (Br.); Middle Road, flying, Aug. 21–Sept. 3. The larva feeds on birch, willow, etc.

Diactinia Warren

Plemyria Hübner

P. georgii Hulst. (4412). N. E. Harbor (Minot); Penikese at light; Bar Harbor, Aug. 6–26.

Dysstroma Hübner

D. truncata Hufn. (4413). N. E. Harbor; S. W. Harbor; Eden, July 20–Sept. 8; Bar Harbor, Aug. 17–Sept. 3. The larva feeds on strawberry and alder.

D. citrata Linn. (4416). Beech Hill, flying, Sept. 15.

D. hersiliata Gn. (4420). Bar Harbor, July 9 (Br.).

Thera Stephens


T. procteri Brower (4431.1). Type material and locality Mt. Desert Island. This is apparently a rare species as Dr. Brower has been unable to find it in the large eastern collections. Rubbed specimens might be easily confused with Thera contractata Packard but the lines bounding the medial band are very irregular and strongly toothed on procteri and on contractata even or slightly toothed, though they are, usually, angulate. The genitalia are distinct.

Hydriomena Hübner


H. perfracta Swett. (4478). Record of capture lost.

H. divisaria Wlk. (4484). Bred from pupae found under spruce, June 3–July 2 (Br.).


H. ruberata Freyer (4492). Bar Harbor, May 18 (Br.).

Xanthorhoe Hübner

X. lacustrata Gn. (4509). N. E. Harbor; Bar Harbor (Br.), Apr. 26; Corfield at light, July 27–Aug. 15. The larva feeds on jewel weed (Impatiens).
X. designata emendata Pears. (4511a). Witch Hole Pond; Eden; Corfield, July 30–Aug. 10. The larva feeds on Cruciferae, wild and cultivated.


X. ferrugata form unidentaria Haw. (4516). N. E. Harbor (Minot); Penikese, July 20–Aug. 10.


Percnoptilota Huist

P. obstipata Fab. (4535). N. E. Harbor; S. W. Harbor; Penikese and Corfield at light, June 17–Aug. 15. Larva feeds on elm, Polygonum, etc.

Entephria Hübner


Mesoleuca Hübner

M. ruficillata Gn. (4546). N. E. Harbor (Minot); Bar Harbor (Br.), June 7–Aug. 9. The larva feeds on birch.

Spargania Guenée


Euphyia Hübner

E. intermediata Gn. (4558a). N. E. Harbor; Echo Lake; Bar Harbor (Br.), June 30–Aug. 29. The larva feeds on blackberry, birch, etc. A common form from early in the year to Sept. 1.


C. stellata Gn. (4572). Bar Harbor, Sept. 6–10 (Br.).

Euclype Hübner

E. hastata Linn. (4573). Echo Lake; Corfield at light, June 15–20; S. W. Harbor bog, June 5.
E. hastata Linn. var. (4573). S. W. Harbor, June 5 (Br.).
E. hastata var. Different from the one listed, June 5, 1937.

Perizoma Hübner


Venusia Curtis

V. comptaria Wlk. (4592). Bar Harbor, May 2–19 (Br.).

Hydrelia Hübner

H. inornata Hlst. (4596). Bar Harbor, July 4–24 (Br.).
Eudule Hübner


Bapta Stephens

B. semiclarata Wilk. (4605). S. W. Harbor, June 25; Bar Harbor, May 15–June 6 (Br.).
B. vestaliata Gn. (4606). Jordan Pond; Corfield and Penikese at light, May 27; N. E. Harbor, June 10–July 8. The larva feeds on apple, oak, etc.

Delinia Hübner

D. variolaria Gn. (4612). N. E. Harbor; Eden; Bar Harbor, June 20–Aug. 9 (Br.). The larva feeds on willow.

Isturgia Hübner

I. truncataria Wilk. (4658). Mt. Desert, May 15–June (Br.).

Physostegania Warren

P. pustularia Gn. (4663). N. E. Harbor; Corfield and Paradise Hill at light, July 21–Aug. 11. The larva feeds on maple, cranberry, etc.

Philobia Duponchel

P. ulsterata Pears. (4664). N. E. Harbor, July 12 (Minot); Bar Harbor, July.

Semiothisa Hübner

S. bisignata Wilk. (4671). Station F192; Corfield at light; Bar Harbor, June 7–July 17.
S. granitata Gr. (4680). Bar Harbor (Br.); N. E. Harbor; Long Pond; Penikese and Corfield at light, June 9–Aug. 4.
S. sexmaculata Pack. (4687). Bar Harbor, May 28–Aug. 7 (Br.).
S. continuata Wlk. (4710). Penikese and Corfield at light, June 22–30. W. T. M. Forbes says, "I believe orillata male is the same and the names based on orillata male and continuata female."
S. orillata Walk. (4712). Bar Harbor, July 17 (Br.).

Itame Hübner

I. argillaceaaria Pack. (4748). N. E. Harbor (Minot); Bar Harbor, June 24–July 28 (Br.).
I. bitactata Wlk. (4771). Bar Harbor, July 18 (Br.).

Dysmigia Warren

D. loricaria julia Hlst. (4797). Mt. Desert, July 2 (Br.).

Hesperumia Packard

H. sulphuraria Pack. (4801). Penikese at light; Mt. Desert, July 19–Aug. 23 (Br.). Rare.
Ematurga Lederer

E. amitaria Gn. (4802). S. W. Harbor (Br.): Echo Lake, June 18–22. The larva feeds on bearberry (*Arctostaphylos uva-ursi*).

Eufidonia Packard


Orthofidonia Packard

O. tinctaria Wlk. (4805). N. E. Harbor (Minot); Bar Harbor, May 18–July 9 (Br.).

O. tinctaria form flavivenata Hlst. (4805a). Bar Harbor, Apr. 30–May 6 (Br.).

Paraphia Guenée


P. subatomaria Wood. (4809). Bar Harbor, July 6 (Br.). A variable form.

P. pixiata Pack. (4811). Bar Harbor, Aug. 18 (Br.).

Melanolophia Hulst


Protoboarmia McDunnough

P. porcelaria Gn. (4875). June 27–July 1 (Br.).


Glena Hulst

G. cognataria Hbn. (4882). Corfield at light; Bar Harbor (Br.), July 2–11. Blueberry is one of the food plants.
Vitrinella McDunnough

V. pampinaria Gnl. (4908). Penikese at light; Bar Harbor, June 30—July 15.

Anacamptodes McDunnough

A. larvaria Guch. (4912). N. E. Harbor, June 26—July 6 (Minot). The larva feeds on willow, wild cherry, etc.
A. ephyrraria Wlk. (4916). Bar Harbor, Aug. 19 (Br.).
A. velivolata Hlst. (4918). Bar Harbor, June 6 (Br.).

Aethalura McDunnough

A. anticaaria Wlk. (4945). S. W. Harbor; Bar Harbor (Br.), May 12—June 20.

Ectropis Hübner

E. crepuscularia Schiff. (4946). Jordan Pond; Bar Harbor (Br.), May 3—June 10. The larva feeds on apple, pear, elm, maple, etc.
E. crepuscularia form abraxaria Wlk. (4946). Bar Harbor, May 12 (Br.).

Xacophora Hulst

N. querinaria A & S (4953). Bar Harbor, June 9—July 6 (Br.). Rare.

Phigalia Duponchel


Erannis Hübner

E. tiliae Hfr. (4964). The Lime-tree Winter Moth. Corfield at light; Mt. Desert (Br.), Oct. 17—Nov. 1. The larva is found on linden, elm, apple, etc.

Lycia Hübner

L. ursaria Wlk. (4966). Bar Harbor, Apr. 30 (Br.).
Amphidasis Treitschke

A. cognataria Gn. (4968). The Pepper and Salt Currant Moth. The numbers of this species are gradually being reduced, probably on account of the destruction of currant bushes, due to the pine blister rust. Taken at light, Penikese, from June 20 to August 6. There was a very large hatch the last of June, '34. Now about half a dozen will come to the lights in an entire season.

Euchlaena Hübner

E. serrata Drury (4994). Penikese; Bar Harbor (Br.), at light, July 11–20. Blueberry is one of the food plants.


E. obtusaria var. (4995). Bar Harbor, July 25 (Br.).


E. johnsonaria Fitch. (4997). Eden, July 16; Corfield at light, June 17–July 16. The larva feeds on oak, cherry, etc.


E. oponearia Wlk. (5001a). June 25–July 15 (Br.).

E. marginata Minot (5002). Corfield at light; Bar Harbor (Br.), May 23–June 6.


Xanthotype Warren

X. crocataria Fab. var. caelaria Hulst. (5007). Echo Lake; Paradise Hill and Corfield at light, June 30–July 20. The larva feeds on strawberry, currant and gooseberry.

Spodolepis Hulst

S. substriataria Hulst. (5012). Bar Harbor, May 1 (Br.).
CAMPAEA Lamarck


G. basiaria Wlk. (5016). Long Pond, July 16; Station F190, June 2.


A. atropunctata Pack. (5024). S. W. Harbor, June 5 (Br.).

Priocycla Gueneé

P. armataria H.-Sch. (5028). N. E. Harbor, July 4 (Minot); Bar Harbor, reared from Ilex verticillata, June 7 (Br.). The larva feeds on currant, birch, maple, apple, etc.

P. phlogosaria Gn. (5040). Bar Harbor, Aug. 15 (Br.).

Anagoga Hübner

A. pulveraria Linn. (5042). Bar Harbor, May 16–July 2 (Br.); Jordan Pond; Long Pond; June 7–July 16. The larva feeds on maple, willow, birch, etc.
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Hyperetis Guenée

H. amicaria H.-Sch. (5043). Common from May 30–July 30. The larva feeds on alder, beech, birch, oak, etc. A species of many forms and varieties.

H. amicaria form alienaria H.-Sch. (5043). Bar Harbor, June 28 (Br.).

Nematocampa Guenée

N. limbata Haw. (5044). Penikese in Aug.; Bar Harbor, July 25 (Br.). This species extends southward to the tropics. The larva feeds on apple, maple, etc.

Metarranthus Warren

M. hypochraria H.-Sch. (5046). Corfield at light; Bar Harbor, June 13–22 (Br.). The larva feeds on apple, etc. Quite variable in markings.

M. warneri Harr. (5048). Corfield at light, June 15; the Heath, June 6, about alders, the food.

M. broweri Rupert. Bar Harbor (Br.).

M. franclemonti Rupert (5049.1). The Heath, June 6 (Br.).


M. obfirmaria Hbn. (5052). Bar Harbor, June 4 (Br.).

Metanema Guenée


Seleinia Hübner

Ennomos Treitschke


Pero Herrich-Schaeffer

P. morrisonarius Hy. Edw. (5080). S. W. Harbor, N. E. Harbor, July 15–Aug. 20; Bar Harbor, June 10–30 (Br.).

Neptia Hulst

N. canosaria form piniaria Pack. (5109). Bar Harbor, Aug. 26–Sept. 22 (Br.).
N. pellucidaria Pack. (5111a). Sept. 1, 1936 (Br.).

Caripeta Walker


Ellopia Treitschke

E. endroplaria Grt. & Rob. (5144). N. E. Harbor; Bar Harbor (Br.), June 20–30. The larva feeds on oak, etc.
E. fiscellaria Gu. (5146). N. E. Harbor; Fall Brook, Sargent Mt.; Corfield, Sept. 6–13. Along Center Trail on Western Mt. these and the following appear about Sept. 8.
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E. fiscellaria form flagitaria Gn. (5146). Sept. 6–23 (Br.).
E. fiscellaria Gn. Powdery var. (5146). Sept. 22–23 (Br.).

**Cingilia Walker**

C. catenaria Drury (5152). The Chain-dotted Measuring Worm. Witch Hole Pond, Sept. 20. The larva feeds on Vaccinium, Rubus, Myrica, Carex, etc. In fact, it is reported as feeding on plants representing 17 botanic families.


**Sicya Gueneé**

S. macularia Harr. (5161). Penikese and Corfield at light, July 28–Aug. 10; Bar Harbor, July 1 (Br.). Very variable.


**Deuteronomos Prout**

D. magnarius Gn. (5170). N. E. Harbor (Minot); Corfield; Penikese, Sept. 1–24. The larva feeds on birch, maple, elm, etc.

**Apicia Gueneé**

A. confusaria Hbn. (5184). Bar Harbor, (Burton); Eden, July 24–Aug. 7. The larva feeds on clover.


**Tetracis Gueneé**

T. crocallata Gn. (5197). Corfield at light, June 17; Bar Harbor.

Abbottana Halst


Antepione Packard


Prochoerodes Grote


Epiplemidae

Callizzia Packard


Order Lepidoptera (Microlepidoptera)

Limacodidae

Lithacodes Packard


Packardia Grote and Robinson

P. elegans Pach. (5270). Jordan Pond; Bar Harbor, June 10–27 (Br.). The larva feeds on orchard and shade trees.
TORTRICIDIA Packard

T. flexuosa Grt. (5277). N. E. Harbor; Echo Lake; Bar Harbor, (Br.), July 4–17. Larva feeds on oak, wild cherry and many other trees.

T. flexuosa form caesonia Grt. (5277). Bar Harbor, July 4 (Br.).

T. pallida H. S. (5278). July 17 (Br.). Oak, willow and other trees are hosts.

T. testacea Pack. (5279). N. E. Harbor, June 28. The larva feeds on oak, birch, wild cherry, etc.

PYRALIDAE

DICYMOLOMIA Zeller

D. julianalis Wlk. (5347). Bred from Typhlus, June 27–July 24 (Br.). The larvae breed in the heads making them fluff out.

HYMENIA Hübner


H. fascialis Cram. (5354). The Hawaiian Beet Worm. Bar Harbor, Sept. 16 (Br.).

DESMIA Westwood

D. funeralis Hbn. (5355). The Grape Leaf Folder. N. E. Harbor; Corfield at light; Bar Harbor, June 15–Aug. 10 (Br.). In the absence of grape, the larva will feed on the evening primrose.

DIASTICTIS Hübner

D. argyralis Hbn. (5367). Bar Harbor, Aug. 1–4 (Br.).

D. argyralis form ventralis G. & R. (5367). Bar Harbor, Aug. 1–10 (Br.).

BLEPHAROMASTIX Lederer

B. stenialis Gn. (5393) ? N. E. Harbor, July 8–20 (Minot). This may be the extremely variable 5718 G. primordialis Dyar.
Pantographa Lederer


Sylepta Hübner

S. silicalis Gn. (5400). Bar Harbor, Sept. 16–Oct. 10 (Br.).

Sameodes Snellen

S. elealis Wlk. (5427). Bar Harbor, May 12–July 20 (Br.).

Evergestis Hübner


Crocidophora Lederer


Nomophila Hübner

N. noctuella D. & S. (5455). Common, June-Sept. The larva feeds on Polygonum, etc.

Loxostege Hübner

L. chortalis Grt. (5462). Bar Harbor, June 30 (Br.).


L. sticticalis Linn. (5478). The Sugar-beet Web-worm. Mt. Desert, Aug. 5–16 (Br.).

L. commixtalis Wlk. (5479). S. W. Harbor, June 8–July 9 (Br.).

Phlyctaenia Hübner

P. rubigalis Gn. (5546). The Celery Leaf-tier. Mt. Desert, July 16–Aug. 13 (Br.). Larvae found on Cinerarias, Chrysanthemum, Verbena, Ageratum, Boston ivy, etc.

P. inquinatalis Zell. (5549). Bar Harbor, June 6 (Br.).

P. sheppardi McD. (5551). Bar Harbor, July 19 (Br.).

P. acutella Wlk. (5560). Gt. Heath and Bar Harbor, July 4–29 (Br.).

P. extricalis Gn. (5562). S. W. Harbor, July 10; Bar Harbor, June 14–July 10 (Br.). The larva is a leaf-roller on alder.

P. helvalis Wlk. (5563) ? Bar Harbor, July 4 (Br.).


Pyrausta Schrank

P. pertextalis Led. (5576). Eagle Lake; N. E. Harbor, July 18–Aug. 5.

P. fissalis Grt. (5577). July 30–Aug. 7 (Br.).

P. thestealis Wlk. (5579). Sea Wall, July 3–Aug. 10 (Br.).


P. absaltealis Wlk. (5590). Bar Harbor, June 10–July 1 (Br.).

P. penitalis Grt. (5594). Tremont, Aug. 8 (Br.). Scarce.

P. nubilalis Hbn. (5594.1). The European Corn Borer. Feeds on corn and a number of vegetables having fleshy stalks such as celery, bean, rhubarb. A great pest which, first seen near Boston in 1917, has spread rapidly. There is a single and a double brooded form. Scarce. Aug. 7 at light.

P. fumalis Gn. (5598). Eden, July 25–Aug. 25; Bar Harbor, July 17–Aug. 17 (Br.).


P. marginalis Wlk. (5645). Mt. Desert, May 19–22 (Br.).

NYMPHULA Schrank

N. maculalis Clem. (5680). New Mill Pond, Station F131, July 14; Bar Harbor, Aug. 18–25 (Br.).
N. allionnealis Wlk. (5681). Bar Harbor, July 27–Aug. 25 (Br.).
N. allionnealis Wlk. ab. itealis Wlk. (5681). Bar Harbor, Aug. 16.
N. broweri Heihr. (5686.1). Type material collected by Dr. A. E. Brower around the water holes in the Sea Wall Bog which is a sphagnum one. Proc. Ent. Soc. Wash., Vol. 42, No. 2. Flies July 7–Aug. 26. Larva on Cephalozia fluitans Nees.?
N. gyralis Hlst. (5688). Upper Breakneck and New Mill Ponds, July 14–Aug. 3; S. W. Harbor, July 19–25 (Br.).
N. icciusalis Wlk. (5691). S. W. Harbor; Corfield light, July 3–28. The larva lives on pond weed (Potamogeton), and other aquatic plants.

CATACLYSTA Hübner

C. magnificalis Hbn. (5699). Mt. Desert, June 24 (Br.).

GESHNA Dyar


DIATHRAUSTA Lederer


EURRHYPARA Hübner

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Scoparia Haworth

S. centuriella D. & S. (5725). Mt. Desert, July 8–25 (Br.).
S. penumbralis Dyar (5734). Mt. Desert, June 12–Aug. 7 (Br.).
S. truncatalis MeD. (5737) ? Bar Harbor, Aug. 17 (Br.).
Bar Harbor (Br.); Eden, Aug. 20–Sept. 10.
S. basalis Kk. (5747). N. E. Harbor; Eden; S. W. Harbor
(Br.), June 27–Sept. 1; Bar Harbor, July 13–Sept. 10 (Br.).

Pyralis Linnaeus

P. farinalis Linh. (5758). Meal Moth. Infests meal and
stored grains. Common and generally distributed. May
have several generations a year.
P. costiferalis Wlk. (5759). Mt. Desert, July 15–Aug. 5
(Br.).

Herculia Walker

H. intermedialis Wlk. (5766). Mt. Desert, July 11–Aug. 20
(Br.).
H. thymetusalis Wlk. (5770). Bar Harbor, July 16 (Br.).
H. olinalis Gn. (5774). Bar Harbor, July 4–18 (Br.). The
larva feeds on oak leaves.

Condyloemia Grote

C. participialis Grt. (5809). Mt. Desert, July 15–17 (Br.).

Schoenobiis Duponceel

S. amblyptepennis Dyar (5831). Bar Harbor, July 15–23
(Br.).
S. sp. Bar Harbor, July 4 (Br.).
S. sp. Bar Harbor, Aug. 6 (Br.).

Raphiptera Hampson

Heath, July 2–Aug. 22 (Br.).
Crambus Fabricius


C. pascueLLus Linn. (5857). N. E. Harbor, July 8–Aug. 20 (Minot); Mt. Desert, June 28–Aug. 24 (Br.).

C. lyonsellus Haim. (5858). Bar Harbor; S. W. Harbor bog, July 13–Aug. 16 (Br.).


C. leachellus Zinck. (5861). N. E. Harbor (Minot); Corfield; Bar Harbor, Aug. 23–Sept. 17 (Br.).


C. watsonellus Klots (5861.2). Type Material. Described from a type-lot of seventy-two specimens. These are: holotype male and allotype female, Bar Harbor, Maine, August 30, 1937. (Br.). Dr. Brower collected the series at Tremont, Maine, in a marsh near a small tidal creek that was definitely not an acid bog, the habitat to which so many Crambus are limited. American Museum Novitates 1191.


C. praefectellus Zinck. (5863). N. E. Harbor, Aug. 20 (Minot); S. W. Harbor bog, July 5–25 and Bar Harbor, June 24 (Br.); Robinson Mt., Sept. 2.

C. bidens Zell. (5867). S. W. Harbor, July 28; S. W. Harbor bog, July 1–Aug. 16 (Br.); New Mill Pond, Aug. 29.

C. dissectus Grt. (5869). S. W. Harbor bog, June 2–12 (Br.).

C. alboclavellus Zell. (5874). N. E. Harbor; Eden; Bar Harbor, June 28–Aug. 7 (Br.). The larva feeds on grasses.

C. carolinellus Haim. (5875) ? Bar Harbor, July 20–Aug. 11 (Br.).

C. agitatellus Clem. (5876). N. E. Harbor (Minot); Eden; Bar Harbor, July 5–Aug. 20 (Br.).
C. latiradiellus Wlk. (5878). (Myellus auct.). Bar Harbor, July 28–Aug. 16 (Br.).
C. laqueatellus Clem. (5880). Station F40, June 15.
C. albellus Clem. (5884). N. E. Harbor; S. W. Harbor; Bar Harbor, July 2–Aug. 12 (Br.). The larva feeds on grasses.
C. innotatellus Wlk. (5887). Bar Harbor, July 16–Aug. 20 (Br.).
C. elegans Clem. (5889). Bar Harbor, July 22–Aug. 17 (Br.).
C. vulgivagellus Clem. (5892). N. E. Harbor, Sept. 6 (Minot); Bar Harbor, Aug. 24–Sept. 3 (Br.).
C. rubicolellus Zell. (5895). N. E. Harbor, (Minot); Bar Harbor, Aug. 9–20 (Br.). The larva feeds on grass and sorrel.
C. teterrellus Zinck. (5896). Bar Harbor, Aug 11 (Br.).
C. trisectus Wlk. (5919). N. E. Harbor, Aug. 23 (Minot); Bar Harbor, July 7–Sept. 28 (Br.). The larva feeds on grasses.
C. lacinuellus Grt. (5921). Bar Harbor, Aug. 28–Sept. 7 (Br.).
C. caliginosellus Clem. (5925). Bar Harbor, July 19 (Br.).
C. luteolellus Clem. (5928). S. W. Harbor, June 24–Aug. 28 (Br.).

**Thaumatopsis Morrison**

T. gibsonellus Kft. (5935). Bar Harbor, Aug. 24 (Br.).
ARGYRIA Hübner

A. nivalis Dru. (5954). N. E. Harbor (Minot); Penikese; Bar Harbor, June 6–July 18 (Br).
A. auratella Clem. (5957). Bar Harbor, July 15–18 (Br.).

APHROMA Hübner

A. sociella Linn. (5990). Bar Harbor, July (Moore); Bar Harbor, July 1–Aug. 7 (Br). The larvae live in nests of bumblebees and wasps.

ONEIDA Hulist

O. lunulalis Hlst. (6025). Bar Harbor, July 17 (Br.).

TETRALOPHA Zeller

T. asperatella Clem. (6041). N. E. Harbor; Eden; Corfield, July 15–Aug. 25. The larva feeds on oak, maple, elm, etc.
T. aplastella Hlst. (6042). Mt. Desert Isl., July 16–26 (Br.).

MYELOS Hübner

M. obnupella Hlst. (6063). N. E. Harbor (Minot); Bar Harbor, June 7–Aug. 20 (Br.).
M. zonulella Rag. (6066). Bar Harbor, July 27–Aug. 31 (Br.).

ACROBASIS Zeller

A. betulella Hlst. (6101). Eden, July 25; bred from birch; Bar Harbor, July 16–27 (Br.). The larva feeds on white birch.
A. sp. Bred from Myrica gale, July 21–29 (Br.).
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MINEOLA Hulst

M. tricolorella Grt. (6111). Bar Harbor, July 8-21 (Br.).
M. amplexella Rag. (6112). Sea Wall, July 4, '37 (Br.).
M. vaccinii Riley (6114). Bar Harbor, July 8-21 (Br.).
M. indigenella Zell. (6115). Apple Leaf Crumpler; N. E. Harbor, Aug. 31 (Minot); Bar Harbor, July 16-Aug. 31 (Br.).

DIORYCTRIA Zeller

D. abietella D. & S. (6129). Bred from blister rust pine. Bar Harbor, July 30-Sept. 9 (Br.).

PINIPESTIS Grote


GLYPTOCERA Ragonot

G. consobrinella Zell. (6148). Bar Harbor; N. E. Harbor; Bar Harbor, June 13-July 25 (Br.).

TASCALA Hulst

T. finitella Wlk. (6177). Bar Harbor, June 11-July 28 (Br.).

MEROPTERA Grote


IMMYRLA Dyar

I. pasadamia Dyar (6189). Bar Harbor, July 7-28 (Br.).

SALEBRIA Zeller

S. carneella Hlst. (6204). Bar Harbor, July 19 (Br.).
S. virgatella Clem. (6205). Bred from Robinia, July 7 (Br.). Corfield at light, July 28.
S. Virgatella form quinquepunctella Grt. (6205). Bred June 29–July 1 (Br.). The larva feeds on locust, forming a web between two leaves.

S. basilaris Zell. (6209). Bar Harbor, July 23 (Br.).

Laodamia Ragonot


Elasmopalpus Blanchard


Euzophera Zeller

E. ochrifrontella Zell. (6318). Bar Harbor, July 17–Aug. 29 (Br.).

Vitula Ragonot

V. basimaculatella Rag. (6325). Bar Harbor, July 20–Aug. 18 (Br.).

V. n.sp. Bar Harbor, July 25 (Br.).

Canarsia Hulst

C. ulmiarrosorella Clem. (6332). Eden; N. E. Harbor; Bar Harbor, July 1–Sept. 5 (Br.). The larva is found on elm.

Homoeosoma Curtis

H. uncanale Hlst. (6364). Bar Harbor, July 18, ’38 (Br.).

H. mucidellum Rag. (6370). N. E. Harbor, Sept. 5 (Minot); Bar Harbor, July 24–Aug. 5 (Br.). The larva lives in the flowers of Gnaphalium.

H. stypticellum Grt. (6371). Bar Harbor, July 10–Aug. 17 (Br.).

Ephestiodes Ragonot

E. infimella Rag. (6380). Bar Harbor, July 16–24 (Br.).
Moodna Hulst

M. ostrinella Clem. (6396). Bar Harbor, July 21–Aug. 3 (Br.).
M. sp. possibly pelviculella Hlst. Bar Harbor, July–Aug. (Br.).

Ephesia Gueneée

E. kuehniella Zell. (6399). The Mediterranean Flour Moth. A wide spread species which is a great pest wherever flour is stored. Common.
E. elutella Hbn. (6401). Bar Harbor, July 14–Aug. 1 (Br.).

Plodia Gueneée

P. interpunctella Hbn. (6408). The Indian Meal Moth. The larva is said to feed upon anything edible and is very destructive to stored grain. Bred by (Br.).

Peoria Ragonot

P. approximella Wlk. (6439). N. E. Harbor, (Minot); Bar Harbor (Br.); Penikese at light, July 1–27.

Pterophoridae

Trichoptilus Walsingham

T. lobidactylus Fitch (6463). Mt. Desert, July 5–Aug. 7 (Br.). Host is goldenrod.

Pterophorus Geoffroy

P. tenuidactylus Fitch (6467). Eden; Station F80, June 4–July 15. The larva feeds on blackberry.

Platyptilia Hübner

P. carduidactyla Riley (6477). Bar Harbor, Sept. 27 (Br.).
A. montana Wlshm. form declivis Meyr. (6519). Bar Harbor, July 30–Aug 17 (Br.).

Oidaematophorus Wallengren

O. matthewianus Zell. (6527). Bar Harbor, July 15–Aug. 3 (Br.).
O. eupatorii Fern. (6529). Mt. Desert, Aug. 31–Sept. 16 (Br.).
O. homodactylus Wlk. (6561). N. E. Harbor; Bar Harbor, July 22–Aug. 25 (Br.). The larva feeds on Solidago.
O. elliottii Fern. (6562). Bar Harbor, July 19–Aug. 31 (Br.).
O. stramineus Wlsm. (6563). Bred July 30 (Br.). General in August.
O. monodactylus Linn. (6588). Mt. Desert, July 18–Sept. 14 (Br.).

Olethreutidae

Bactra Stephens

B. furfurana Haw. (6596). S. W. Harbor bog, July 25–Aug. 16 (Br.).

Polychrosis Ragonot

P. rhoifructana Kft. (6605). Bred from sumac (Rhus typhina) heads, Bar Harbor, July 29 (Br.).
P. spiraeifoliana Hein. (6607). Sea Wall, June 12 (Br.).
P. spiraeae McD. (6617). Bar Harbor, July 24 (Br.).

Endothenia Stephens

E. dæckeanata Kft. (6526). Bred ex Pitcher Plant (Sarracenia), Sea Wall Bog, June 27 (Br.).

Taniva Heinrich

T. albolineana Kft. (6630). Bar Harbor, July 10–16 (Br.).
Hulda Heinrich

H. impudens Wlshm. (6632). Sea Wall, Aug. 1; Bar Harbor, July 4–30 (Br.).

Aphania Hübner

A. youngana McD. (6639). Bar Harbor, July 27–Aug. 31 (Br.).
A. n. sp. (6639.1). S. W. Harbor, June 5–12 (Br.).
A. albeolana Zell. (6647). Eden; Bar Harbor, June 13–Aug. 7 (Br.). The larva is a leaf-roller on white birch.
A. deceptana Kft. (6649). Bar Harbor, July 22 (Br.).
A. dextrana McD. (6650). Bar Harbor, July 6 (Br.).
A. removana Kft. (6652). Bar Harbor, Aug. 21 (Br.).

Scaphila Treitschke

S. duplex Wlshm. (6653). Bar Harbor, July 3–7 (Br.).

Badebecia Heinrich


Exartema Clemens

E. electrofuscum Heinr. (6665). July 17–Aug. 20 (Br.).
E. zellerianum Fern. (6667). Eden, Aug. 7; Bar Harbor, July 18–Aug. 9 (Br.). The larva crumples the leaves of white birch.
E. trepidulum Heinr. (6681)? Bar Harbor, Aug. 2–7 (Br.).
E. melanomesum Heinr. (6692). Bar Harbor, July 4, 1936 (Br.).
E. VALDANUM McD. (6693). July 14–Aug. 7 (Br.).
E. PERMUNDANUM Clem. (6696). Bar Harbor, July 3, 1939 (Br.).
E. SUBMISSANUM McD. (6697). Bar Harbor, Aug. 26 (Br.).
E. XANANUM McD. (6698). Sea Wall Bog, July 21–25 (Br.).
E. APPENDICEUM Zell. (6700). Mount Desert, July 2, 1934 (Br.).
E. CONCINNANUM Clem. (6701). Aug. 9 (Br.).
E. FASCIATANUM Clem. (6702). Eden, Aug. 7; Bar Harbor, May 26–July 19 (Br.). The larva feeds on Rumex.

**Hedia Hübner**

H. OCHROLEUCANA Hbn. (6707). The Rose Bud-worm, Bar Harbor, July 27 (Br.).

**Olethreutes Hübner**

O. AGILANA Clem. (6715). Bar Harbor, July 2 (Br.).
O. ALBICILIANA Fern. (6716). Bar Harbor, June 21–July 13; Tremont, July 21 (Br.); Eden, July 23. The larva is purple and a leaf-roller on Spiraea.
O. CONSTELLATANA Zell. (6720). S. W. Harbor; Bar Harbor, June 17–July 2 (Br.).
O. ASTROLOGANA Zell. (6721). S. W. Harbor, June 27 (Br.).
O. POLLUXANA McD. (6730). Mt. Desert, July 13 (Br.). Also a form not typical was taken.
O. GLACIANA Moesch. (6731). Mt. Desert, June 12–24 (Br.).
O. INTERMISTANA Clem. (6735). Sea Wall Bog, July 2–Aug. 26 (Br.).

**Evora Heinrich**

E. HEMIDESMA Zell. (6743). Eden; Bar Harbor, July 4–Aug. 25 (Br.). The larva webs the leaves and flowers of Spiraea.
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Petrova Heinrich

P. comstockiana Fern. (6754). Bar Harbor, June 20–July 7 (Br.). Bred from pitch masses on twigs *Pinus rigida.*

P. gemistrigulana Kft. (6762). Bar Harbor, July 8–29 (Br.).

Spilonota Stephens

S. ocellana D. & S. (6768). Bar Harbor; S. W. Harbor, July 6–18 (Br.).

Thiodia Hübner

T. radiatana Wlk. (6770). Bar Harbor, June 4–22 (Br.).

T. roseoterminana Kft. (6776). Bar Harbor, June 6–15 (Br.).

T. formosana Clem. (6778). Mt. Desert, May 12–June 8 (Br.).


T. autumnana McD. (6784.1). Acadia Mt., Sept. 2, 1935 (Br.).

T. ocraterminana Kft. (6787). N. E. Harbor (Minot); Bar Harbor, July 21–Aug. 15 (Br.).

T. perfuscana Heinr. (6788). Bar Harbor, July 23–Aug. 17 (Br.).

T. crispana Clem. (6789). Tremont, Aug. 16 (Br.).

T. alterana Heinr. (6790). Bar Harbor, July 20–Aug. 21 (Br.).

T. sinestrigana McD. (6792). Sea Wall Bog, July 19; Bar Harbor, Aug. 22 (Br.).

T. olivaceaana Riley (6854). Mt. Desert, June 30–July 19 (Br.).

Eucosma Hübner

E. pergandeana Fern. (6894). Bar Harbor, June 20–Aug. 2 (Br.).

E. tocullionana Heinr. (6929). Mt. Desert, July 6 (Br.).

E. derelicta Heinr. (6975). (Juneticiiana auct.) Bar Harbor, July 20–Aug. 5 (Br.).
E. mandana Kft. (6978). Bar Harbor (Br.).
E. cataclystiana Wlk. (7004). Bar Harbor, July 19–Aug. 20 (Br.).

Epiblema Hübner

E. carolinana Wlshm. (7032). Record lost.
E. purpurissatana Heinr. (7034). July 29–Aug. 4 (Br.).
The larva feeds on the buds and flowers of the rose.
E. culminana Wlshm. (7043). Bar Harbor, Aug. 2–20 (Br.).
E. otiosana Clem. (7044). Bar Harbor, July 7–Aug. 13 (Br.). The host plant is Bidens.

Sonia Heinrich

S. constrictana Zell. (7054). Bar Harbor, July 22–25 (Br.).

Gypsonoma Meyrick

G. fasciolana Clem. (7058). N. E. Harbor (Minot); Bar Harbor, June 8–July 15 (Br.).
G. substitutionis Heinr. (7062). Mt. Desert, Aug. 6; Bar Harbor, June 25–Aug. 31 (Br.).
G. salicicolana Clem. (7063). Bar Harbor, July 2–10 (Br.).

Proteoteras Riley

P. moffatiana Fern. (7070). July 17 (Br.).

Zeiraphera Treitschke

Z. ratzeburgiana Ratz. (7074). Bred from white spruce buds, June 28–Aug. 3 (Br.).
Exentera Grote

E. improbana Wlk. (7078). Mt. Desert, Apr. 15–26 (Br.).
E. improbana Wlk. small form (7078). Bar Harbor, May 11–23 (Br.). This is probably a good species.

Gretchena Heinrich

G. amatana Heinr. (7093). Mt. Desert, May 28 (Br.).

Norma Hübner

N. dietziana Kft. (7102). Bar Harbor, July 2, ’37 (Br.).

Kundrya Heinrich

K. finitimana Heinr. (7103). Bred June 5–July 22 (Br.). The larva is first a case-bearing miner and later a webber on Nemopanthus mucronatus and Ilex verticillata.

Epinotia Hübner

E. similana Hbn. (7106). Bar Harbor, July 17–Sept. 21 (Br.). The hosts are hazel and birch.
E. solandriana Linn. (7109). Bar Harbor, July 24 (Br.). Leaf-roller on poplar.
E. rectiplicana Wlishm. (7128). Bar Harbor, June 14–28 (Br.).
E. nisella Clerck (7132). Bar Harbor, June 30–July 1 (Br.).
E. nisella form criddleana Kft. (7132). Aug. 13, ’34 (Br.).
E. transmissana Wlk. (7135). N. E. Harbor; Corfield at light; Bar Harbor, June 24–Aug. 9 (Br.).
E. momonana Kft. (7137). Bred from borer-infested alder, July 11, ’35 (Br.).
E. normanana Kft. (7160). July 4–Aug. 8 (Br.).
E. nanana Treit. (7161). Bred from red spruce, Bar Harbor, May 21–June 21 (Br.).
E. septemberana Kf. (7168). Bar Harbor, Aug. 12–Oct. 3 (Br.).
E. Lindana Fern. (7172). Bred from Cornus, Bar Harbor, Aug. 26–Sept. 5 (Br.).

Anchylopera Stephens

A. subeculana Clem. (7175). N. E. Harbor (Minot); S. W. Harbor, May 25–July 16 (Br.). The larva is a leaf-roller on apple, etc.
A. subaequana Zell. (7176). S. W. Harbor; N. E. Harbor (Minot), July 6–13; S. W. Harbor, June 6–27 (Br.).
A. burgessiana Zell. (7184). Bar Harbor, June 6–28 (Br.).
A. laciniata Zell. (7187). Bar Harbor, June 21–July 5 (Br.).
A. pulchellana Clem. (7190). Sea Wall Bog, June 12–26 (Br.).

Anylis Hübner

A. comptana Froh. (7193). The Strawberry Leaf-roller. The larva rolls up the leaves of strawberries and feeding upon the parenchyma causes the plants to wither and die. Bar Harbor, May 13–19 (Br.).
A. floridana Zell. (7193.1). Bred from bearberry (Arctostaphylos Uva-ursi), June 3–10 (Br.). Webs the terminals. Not the typical form.
A. apicata Wlk. (7195). N. E. Harbor (Minot); Bar Harbor, June 6–July 5–8 (Br.). The larva feeds on raspberry.
A. carbonata Heinr. (7197). Sea Wall Bog, June 5–July 2 (Br.).
A. diminutana Haw. (7198). Bar Harbor, July 21–Aug. 2 (Br.).
A. *goodelliana* Fern. (7199). Mt. Desert, June 5, '37 (Br.).
A. *mediopasciana* Clem. (7203). Bar Harbor, May 17–June 8 (Br.).
A. *tineana* Hbn. (7205). S. W. Harbor; Bar Harbor, June 20–July 11 (Br.). Larva feeds on poplar and various Rosaceae.

**Dichrorampha Gueneé**

D. *n. sp.* (7221.1). Bar Harbor, June 26–Aug. 13 (Br.).
D. *simulana* Clem. (7222). S. W. Harbor, June 25–July 21 (Br.).
D. *bittana* Busck (7223). Sept. 1 (Br.).

**Hemimene Hübner**

H. *signifera* Heinr. (7237). Bar Harbor, June 6–July 6 (Br.).

**Sereda Heinrich**

S. *lautana* Clem. (7241). Bar Harbor, May 1–16 (Br.).

**Graptolitha Hübner**

G. *libertina* Heinr. (7243). Robinson Mt. Swept from mountain cranberry, Aug. 31 (Br.).
G. *prunivora* Walsh (7245). June 6–Aug. 14 (Br.).
G. *interstinctana* Clem. (7254). Clover Seed Caterpillar. Mt. Desert, July 4–31 (Br.).

**Laspeyresia Hübner**

L. *parmatana* Clem. (7267). Bar Harbor, Aug. 5–Aug. 20 (Br.).
L. *populana* Busck (7275). Mt. Desert, May 22–July 31 (Br.).

**Melissopus Riley**

M. *latiferreatanus* Wlslm. (7300). Bar Harbor, July (Br.); Robinson Mt. Fairly common breeding in acorns of bear oak (Br.).
C. pomonella Linn. (7301). The Coddling Moth occurs generally but not in large numbers in June.

Ecdytolophia Zeller

E. insiticiana Zell. (7304). The larva causes gall-like lumps on the twigs of locust (Robinia) by boring under the bark.

Tortricidae

Coelostathma Clemens

C. discopunctana Clem. (7307). July 16–Aug. 3 (Br.).

Amorbia Clemens


Sparganotis Hübner

S. pettitana Rob. (7317). Corfield, July 2; July 21 (Br.).
S. reticulatana Clem. (7323). N. E. Harbor, Sept. 4 (Minot); Bar Harbor, Aug. 16–Sept. 4 (Br.). The larva feeds on oak, maple, pear, rose, etc.
S. reticulatana Clem. Var. (7323). Mt. Desert, Aug. 4–5 (Br.). This is the pale variety.
S. irbroea Rob. (7333). N. E. Harbor; Bar Harbor, June 27–Aug. 20 (Br.).
S. xanthoides Wlk. (7334). Bar Harbor, July 8–Aug. 16 (Br.).
S. xanthoides form breviornatana (7334a). Bar Harbor, July 19–24 (Br.).
S. violaceana Rob. (7336). Mt. Desert, June 4–6 (Br.).
S. unifasciana Clem. (7337). Bar Harbor, July 20–Aug. 6 (Br.).
S. sulfureana Clem. (7349). Bar Harbor; Green Mt.; Mt. Desert, July 21–Aug. 21 (Br.). The larva feeds on willow, strawberry, cranberry, grape and blueberry. The leaves are fastened together flat by silk along the edges.
S. lycopodiana Kft. (7351). Bar Harbor, Aug. 8; Sea Wall Bog, Aug. 8 (Br.). Larva webs Lycopodium.
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Platynota Clemens

P. idaeusalis Wlk. (7369). (sentana Clem.). Mt. Desert, July 6–Aug. 19 (Br.).

Pandemis Hübner

P. limitata Rob. (7373). S. W. Harbor, July 25 (Br.).

Archips Hübner

A. persicana Fitch (7378). Bar Harbor, June 15; Bar Harbor, June 27–Aug. 22 (Br.). The larva feeds on various plants.

A. fervidana Clem. (7383). The Oak Web-worm. Aug. 24 (Br.).

A. cerasivorana Fitch (7384). S. W. Harbor; Eden, July 27–Aug. 1. The larvae are social, forming large ugly nests on the wild cherry.


A. purpurana Clem. (7399). Green Mt., July 27. The larva feeds on geranium, etc.

A. rosaceana Harris (7405). The Oblique-banded Leaf-roller. Bar Harbor, July 11; Bar Harbor, Aug. 22 (Br.). The larva feeds on rose, apple, etc.

A. conflictana Wlk. (7407). Bar Harbor, July 6 (Br.).

A. fumiferana Clem (7408). The Spruce Bud Worm. Throughout the island and at times very injurious. It was especially abundant in 1914.

Tortrix Linnaeus

T. clemensiana Fern. (7411). Bar Harbor, July 5–Aug. 18 (Br.).

T. clemensiana form nervosana Kft. (7411). Mt. Desert, Aug. 5 (Br.).

T. allentana Fern. (7415). Bar Harbor; S. W. Harbor bog, July 19–21 (Br.). The larva is a general feeder.
T. packardiana Fern. (7418). Bar Harbor, July 7–Aug. 1 (Br.).
T. peritana Clem. (7420). Bar Harbor, July 13–Sept. 25 (Br.).
T. virescana Clem. (7423). Bar Harbor, June 11–July 9 (Br.).
T. affitecata Wilk. (7439). Bar Harbor, May 17–26, also Sept. 15 (Br.).

Eulia Hübner

E. ministrana Linna. (7442). Bar Harbor; N. E. Harbor; S. W. Harbor, June 15–July 15. The larva is a general feeder, folding the leaves of trees and shrubs.

Argyrotaenia Hübner

A. repertana Fries. (7443.1). Bar Harbor, May 11–June 26 (Br.).
A. pinatubana Kft. (7445). Bar Harbor, May 11–June 12 (Br.).
A. marianna Fern. (7450). May 12–28 (Br.).
A. quadrifasciana Fern. (7453). Bar Harbor, July 10 (Br.).

Tortricodes Guenée

T. fragaria Pluck (7456)? Det. McDo. Aug. 9; Mating, Sept. 2 (Br.).

Cnephasia Curtis

C. edaxa Kft. (7462). N. E. Harbor; Bar Harbor, June 29–Aug. 16 (Br.).

Argyrotoxa Stephens

A. bergmanniana Linna. (7468)? Bar Harbor, July 13, 1936 (Br.).
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A. semipurpurana Kft. (7470). Bar Harbor, July 17–29 (Br.).

A. curvilana Kft. (7471). Bar Harbor, July 4–19 (Br.).

Peronea Curtis

P. maccana Treit. (7473). Mt. Desert, Nov. 7 (Br.).

P. nigrolinea var. ferruginicuttana Fern. (7475). Apr. 28 and Sept. 6 (Br.).

P. latifasciana Haw. (7478). Bar Harbor, Aug. 28–Oct. 8 (Br.).


P. chalybeana Fern. (7482). Bar Harbor, Apr. 25 (Br.).

P. hastiana Linn. (7484). Mt. Desert, April 21–Oct. 17 (Br.).

P. celiana Rob. (7485). Mt. Desert, Sept. 22–Nov. 7 and April 26–May 8 (Br.).

P. celiana var. albilineana Kft. (7485). Mt. Desert, Sept. 22–Nov. 7 and April–May (Br.).

P. robinsoniana Forbes var. (7490). May 11–Sept. 9 (Br.).

P. flavivittana Clem. (7491). Bar Harbor, Nov. 7 (Br.).

P. flavivittana form perspicuana Rob. (7491)? Bar Harbor, Aug. 31 (Br.).


P. ixana Rob. (7495). Sept. 9–Nov. 7 (Br.).


P. maculidorsana Clem. (7497). S. W. Harbor, May 25 (Br.); Ireson Hill woods, May 29; Bar Harbor, Sept. 1–25 (Br.).
P. hudsoniana Wlk. (7500). Bar Harbor, Sept. 25–Oct. 9 (Br.).
P. bowmanana McD. (7501). Mt. Desert, Oct. 3–18 (Br.).
P. logiana Linn. (7503). Bar Harbor, Sept. 29–Oct. 15 (Br.).
P. logiana Linn. form trisignana Rob. (7503). Bred Aug. 27, Oct. 15 (Br.).
P. braunana McD. (7508). Mt. Desert, Sept. 18, Oct. 2 (Br.).
P. kearflottana McD. (7509). S. W. Harbor, July 25 (Br.).
P. ferrugana D. & S. (7513). Mt. Desert, Oct. 5 (Br.).
P. semiannula Rob. (7514). Bar Harbor, July 17 (Br.).
P. gallicolana Clem. (7515). Bar Harbor, July 12 (Br.).

Phaloniidae

Phalonia Hübner

P. atomosana Busck (7520). Mt. Desert, Aug. 9–24 (Br.).
P. smeathmanniana Fabr. (7528). S. W. Harbor, June 27–July 21 (Br.).
P. sublepidana Kft. (7551). Bar Harbor, July 21–30 (Br.).
P. biscana Kft. (7552). Mt. Desert, May 11–Aug. 16 (Br.).
P. aureana Busck (7557). Bar Harbor, Aug. 3, 1936 (Br.).
The larva feeds on Lactuca.
P. marloffiana Busck (7562). Bar Harbor, July 28–Aug. 17 (Br.).
P. toxicana Kft. (7563) ? Bar Harbor, Aug. 19, 1933 (Br.).
P. concinnatana Kft. (7581). Bar Harbor, May 30, 1936 (Br.).
P. albida Wlk. (winniana Kft.) (7584). Bar Harbor, June 3–July 23; Sea Wall Bog, June 8–12 (Br.).

Pharmacis Hübner


Hysterosia Stephens

H. cartwrightana Kft. (7615)? July 18–23 (Br.).
H. baracana Busck (7621). Mt. Desert, July 20–25 (Br.).

Carposinidae

Bondia Newman

B. crescentella Wlshm. (7624). Bar Harbor, May 11 (Br.).

Cossidae

Acossus Dyar

A. centerensis Lint. (7666). Bar Harbor, July 9 (Br.).

Cosmopterygidae

Cosmopteryx Hübner

C. clemensella Staint. (7675). Bar Harbor, July 5–Aug. 3 (Br.).
C. gemmiferella Clem. (7676). July 15–Aug. 6 (Br.).
C. clandestinella Busck (7688). June 30–July 18 (Br.).

Batrachedra Stainton

B. praekangusta Haw. (7696). July 21–Aug. 2 (Br.).

Cyphophora Herrich-Schaeffer

C. eloisella Clem. (7740). Sea Wall, July 2–18, '38 (Br.).
L. phragmitella Stainton (7744). Found around swamps the middle of July, but taken earlier. The larvae live in the seed-heads of the cat-tail, causing them to fluff out.

Mompha Hübner

M. brevivittella Clem. (7748). May 28–June 6 and Oct. 6–8 (Br.).
M. unifasciella Cham. (7758). Mt. Desert, May 24–July 26, and Oct. 6 (Br.).

Gelechiidae

Metzneria Zeller

M. lappella Linn. (7780). The Triple-spotted Yellow Burdock Moth. Mt. Desert, Aug. 5–12 (Br.).

Ptycerata Ely

P. sp. Bar Harbor, July 7, '34, June 28, '35.

Aristotelia Hübner

A. absconditella Wlk. (7814). Bar Harbor, July 7–19 (Br.).
A. rubidella Clem. (7818). Bar Harbor, July 10–31 (Br.).
A. roseosuffusella Clem. (7834). Gt. Heath, Aug. 12–19 (Br.).

Nannodia Heinemann


Chrysopora Clemens

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GLAUCO Chambers

G.pectenalaekella Cham. (7859). Bar Harbor, June 30–July 7 (Br.).

EVIPPE Chambers

E. prunifoliella Cham. (7867). Bar Harbor, July 4 (Br.).
E. leuconota Zell. (7868). Bar Harbor, July 18 (Br.).

RECURVARIA Haworth

R. apicitripunctella Clem. (7880). Mt. Desert, July 2–14 (Br.).
R. piceaella Kft. (7892). Bred from spruce, July 1–7 (Br.).

EUCORDYLEA Dietz

E. atrupictella Dietz (7908). Bar Harbor, July 30–Sept. 7 (Br.). Bred from spruce.

EXOTELEIA Walgren


EPITHECTIS Meyrick

E. attributella Wlk. (7923). Bar Harbor, July 25 (Br.).
E. sylvicolella Busck (7924)? Bar Harbor, July 21, 1938 (Br.).

TELPUSA Chambers

T. basifasciella Zell. (7934). Bar Harbor, June 3–30 (Br.).
T. querciella Cham. (7942). Bar Harbor, June 23–July 11 (Br.).
T. fuscopunctella Clem. (7947). Bar Harbor, June 24, 1933; Mt. Desert, June 24–July 19 (Br.).

T. bicostomaculella Cham. (7954). Bar Harbor, July 27–Aug. 2 (Br.).

Gelechia Hübner

G. tialbamaculella Cham. (7965). N. E. Harbor (Minot); Bar Harbor, June 24–July 3 (Br.). The larva feeds on locust, oak, sweet fern, and huckleberry, living in a nest between two leaves.

G. viduella Fabr. (7977). S. W. Harbor, June 5–July 4 (Br.).

G. lugubrella Fabr. (7980). Bar Harbor, July 10–Aug. 8 (Br.).

G. sp. near albisparsell Cham. Bar Harbor, July 21 (Br.).

G. continuella Zell. (8005). Bar Harbor, May 26–Aug. 26 (Br.).


G. walsinghami Dietz (8021). Mt. Desert, Aug. 2 (Br.).

G. longicornis Curt. (8023). Sea Wall, May 25–June 10 (Br.).

G. rileyella Cham. (8057)? Mt. Desert, June 13, 1932.

G. lynceella Zell. (8066). Bar Harbor, July 30, 1937 (Br.).

G. nigrimaculella Busck (8078). Mt. Desert, July 14–Oct. 9 (Br.).

G. serotinella Busck (8082). Bar Harbor, June 24–Sept. 1 (Br.).

G. vernella Murt. (8089)? July 29–Aug. 13 (Br.).

G. fluvialella Busck (8106). Bar Harbor, July 3–19 (Br.).

G. sp. Several other undetermined or undescribed species have been collected.

Gnorimoschema Busck

G. septentrionella Fyles (8151). Bar Harbor, Aug. 29–Sept. 9 (Br.).

G. gallaeasteriella Kell. (8156). Sea Wall Bog, Aug. 16–26 (Br.). The larva forms a gall on aster.

G. gallaeiniploppi Fyles (8157). Bar Harbor, Aug. 7, 1933 (Br.).

G. alaricella Busck (8169). Bar Harbor, Aug. 28 (Br.).

G. bataxella Busck (8191). Bar Harbor, July 24 (Br.).

G. detersella Clem. (8194). Bar Harbor, Oct. 6 (Br.).

G. sacculicola Braun (8200). Bar Harbor, Sept. 4–8, '32 (Br.).

G. sp. near gallaesolidaginis Riley. S. W. Harbor bog, Sept. 6 (Br.).

G. sp. near axenopis Meyr. Bar Harbor, July 5 (Br.).

G. sp. Bar Harbor, Aug. 20 (Br.).

G. sp. Bar Harbor, Aug. 24 (Br.).

Phthorimaea Meyrick


Duvita Busck

D. nigratomella Clem. (8258). Bar Harbor, July 7 (Br.).

D. tahavusella Forbes (8259). Bar Harbor, June 16 Aug. 26 (Br.).

Anacampsis Curtis


Stomopteryx Heinemann

S. palpilinella Cham. (8258). Bar Harbor, July 16, 1938 (Br.).

Thelyasceta Meyrick


Telephila Meyrick

Dichomeris Hübner

D. ligulella form pometella Harris (8296). Tremont, Aug. 16–17 (Br.).
D. punctipennella Clem. (8305). July 14–Aug. 17 (Br.).
D. bipunctella Wlshm. (8306). Bar Harbor, April 26–Oct. 21 (Br.).

Trichotaphe Clemens

T. trimaculella Cham. (8313)!. Bar Harbor, June 30 (Br.).
T. fernaldella Busek (8314). Mt. Desert, May 19 (Br.).
T. flavocostella Clem. (8319). Eden; Bar Harbor, July 27–Aug. 5 (Br.). The larva feeds on Solidago.
T. setosella Clem. (8322). Bar Harbor, July 26–Aug. 31 (Br.).
T. leuconotella Busek (8329)!. Bar Harbor, July 3–Aug. 12 (Br.).
T. juncidella Clem. (8330). N. E. Harbor, July 4 (Minot). The larva is a leaf-roller on aster, goldenrod, etc.
T. levisella Fyles (8331). Mt. Desert, July 18–Aug. 16 (Br.).
T. n. sp. Bar Harbor, July 18 (Br.).
T. n. sp. July 22–Aug. 7 (Br.).

Oecophoridae

Dasycera Stephens

D. newmanella Clem. (8353). Mt. Desert, July 4 (Br.).

Decantha Busek

D. borkhausenii Zell. (8358). Bar Harbor, July 28 (Br.).

Schiffermülleria Hübner

S. argenticinctella Clem. (8361). Bar Harbor, July 29, (Br.).

Borkhausenia Hübner

B. ascriptella Busek (8369). Bar Harbor, July 19–Aug. 12 (Br.).
**Machimia Clemens**

*M. tentoriferella* Clem. (8383). The larvae feed on oak, cherry, maple, etc., forming a web on the under side of the leaves. Bar Harbor, Aug. 31–Oct. 3.

**Eumeyrickia Busck**

*E. trimaculella* Fitch (8390). Bar Harbor, June 28–Sept. 4 (Br.).

**Depressaria Haworth**

*D. alienella* Busck (8393). Penikese; Bar Harbor, Aug. 20–Sept. 23 (Br.). The larva feeds on *Artemisia*.

*D. heracliana* DeGeer (8404). The Parsnip Web Worm. Eden. Larva and pupa, July 17, imago, July 30. Common on the cow parsnip; the young larvae feed on the leaves and the larger larvae bore into the stalks to pupate.

*D. grotteella* Rob. (8405). Bar Harbor, July 17–Aug. 30 (Br.).

**Agonopterix Hübner**

*A. atrodorsella* Clem. (8409). N. E. Harbor (Minot), Bar Harbor, Apr. 29–Sept. 6 (Br.). The larva feeds on *Bidens*, folding the leaf lengthwise.

*A. sabulella* Wlshm. (8412). Apr. 28–May 11 (Br.).

*A. clemensella* Cham. (8430). Bar Harbor, Apr. 27 and Oct. 10 (Br.); Breakneck Road, May 18.

*A. sciadopa* Meyr. (8434). Bar Harbor, March 24–31 (Br.).

*A. pulvipennella* Clem. (8440). N. E. Harbor, Sept. 5 (Minot). The larva feeds on *Solidago* and *Eupatorium*, folding the leaf lengthwise. The commonest overwintering *Agonopteryx* in buildings.

*A. fernaldeella* Wlshm. (8443). Bar Harbor, July 18–Sept. 22 (Br.).


*A. thelmae* Clarke (8448.1). Corfield, at light, Sept. 23.
E. packardella Clem. (8459). Corfield; Mt. Desert, May 12–June 22 (Br.).

Semioscopis Hübner
S. inornata Wlshm. (8460). Mt. Desert, Apr. 27–June 1 (Br.).
S. megamicella Dyar (8461). Mt. Desert, March 30 (Br.).
S. auroreella Dyar (8463). Bar Harbor, May 2 (Br.).
S. allenella Wlshm. (8464). N. E. Harbor; Bar Harbor, June 6–Aug. 21 (Br.). The larva feeds on oak.

Cryptolechia Zeller
C. faginella Cham. (8472). June 12–July 2 (Br.). Reared from beech.
C. quercicella Clem. (8473). June 23 (Br.).

Blastobasidae
Blastobasis Zeller
B. near sagitella Dietz (8481). Bar Harbor, July 5–26 (Br.).
B. villella Busck (8483). Bar Harbor, June 2–July 7 (Br.).

Valentinia Walsingham
V. glandulella Riley (8488). The Acorn Moth. Bar Harbor, July 7–20 (Br.).
V. near quaintancellula Dietz (8490). Bar Harbor, July 7–Aug. 12 (Br.).

Euresia Dietz
E. pulchella Dietz (8496)? Bar Harbor, June 28 (Br.).
Holcocera Clemens

H. dives Dietz (8500)? Bar Harbor, emerged May 24 (Br.).
H. confluentella Dietz (8512)? Bar Harbor, July 10 (Br.).
H. augusti Heinr (8522)? Bar Harbor, bred from aphid-galled spruce and spruce duff (Br.).
H. elyella Dietz (8527)? Bar Harbor, July 17–Aug. 6 (Br.).

Pigritia Clemens

P. laticapitella Clem. (8556)? Bar Harbor, June 23–July 19 (Br.).

Stenomidae

Stenoma Zeller

S. schlaegeri Zell. (8582). N. E. Harbor (Minot); Bar Harbor, June 27–July 16 (Br.). The larva feeds on oak.
S. algidella Wlk. (8585). N. E. Harbor (Minot); Bar Harbor, July 1–28 (Br.). The larva feeds on oak, maple, etc.

Glyphipterygidae

Anthophila Haworth

A. parina Clem (8644). Bar Harbor, April 25–Aug. 12 (Br.). Bred from apple.

Allononyma Busek

A. vicarialis Zell. (8645). Echo Lake, July 29 (Alexander); S. W. Harbor, Sept. 6.
CHOREUTIS Hübnerr

C. virginella Clem. (8649a). Aug. 16–Sept. 13 (Br.).
C. onustana Wlk. (8663). N. E. Harbor, July 1 (Minot); Mt. Desert, June 10–Aug. 11 (Br.).

GLYPHIPTERYX Hübnerr

G. impigritella Clem. (8670). Bar Harbor, June 10–Sept. 1 (Br.).
G. saurodonta Meyr. (8674). Bar Harbor, Sept. 11, S. W. Harbor, May 25 (Br.).

AEGERIIDAE

BEMBECIA Hübnerr

B. marginata Harris (8684). The Blackberry Borer. Seal Harbor, Aug. 17 (Br.). The larva bores in the stems of blackberry.

ALCATHOE Hy. Edwards

A. caudata Harris (8685). Bar Harbor, Aug. 9–21 (Br.).
Bred from Clematis, in the roots of which they breed.

AEGERIA Fabricius

A. tibialis Harris (8690). Pupal case from poplar, Section 23.

SYNANTHEDON Hübnerr

S. fulvipes Harris (8718). Corfield; Green Mt., June 17–25.
S. pictipes G. & R. (8720). S. W. Harbor; Bar Harbor; Green Mt., June 26–July 25. The larva bores in cherry, shadbush, etc. Known as the Lesser Peach-tree Borer.
THE MOUNT DESERT REGION

S. Albicornis Hy. Edw. (8723). Penikese, Aug. 10; Bar Harbor, June 26–July 29, '32 from the flowers of *Spiraea latifolia* (Br.). Rare. The larvae feed upon the trunks and shoots of willows.


S. pyri Harris (8729). S. W. Harbor, June 26. Pear and apple trees are the habitat of this larva. It is called the Pear Borer.

S. scitula Harris (8731). Bar Harbor, July 22–30 (Br.). The larvae bore into oak, oak galls, and willows.

*Albuna* Hy. Edwards


*Paranthrene* Hübner

P. tricincta Harris (8792). Bred from a gall on a poplar limb, July 8 (Br.).

*Heliodinidae*

*Schreckensteinia* Hübner

S. festaliella Hbn. (8827). May 10–July 10 (Br.).

*Harpipteryx* Hübner

H. dentiferella form canariella Wlishm. (8845). Bar Harbor, Aug. 14 (Br.).


*Plutella* Schrank

**YPONOMEUTIDAE**

**Argyroesthia** Hübner

A. *freyella* Wlshm. (8885). Arborvitae Leaf-miner. July (Salman); Bar Harbor, June 16–July 26 (Br.).

A. sp. near *freyella*. Bar Harbor, June 20–July 12 (Br.).


A. *oreasella* Clem. (8893). S. W. Harbor, July 15; Bar Harbor, July 4–20 (Br.).

A. *conjugella* Zell. (8903). Bar Harbor, June 8 (Br.).

A. *thuiella* Pack. (8914). Bar Harbor, bred June 14–July 16 (Br.). The larva mines the leaves of the arborvitae.

**Swammerdami** Hübner

S. *castaneae* Busck (8924). Mt. Desert, June 8–Aug. 9 (Br.).

**Ocnerostoma** Zeller

O. *piniairella* Zell. (8926). The European Pine Leaf-miner. Bar Harbor, July 29 (Br.).

**Scythridae**

**Scythris** Hübner

S. *impositella* Zell. (8951). Bar Harbor, June 22–July 6 (Br.).

S. *eboracensis* Zell. (8953). Mt. Desert, Aug. 2–4; Bar Harbor, July 2–Sept. 4 (Br.). The host plant is thistle.

S. *trivinctella* Zell. (8967). Bar Harbor, July 20, 1936 (Br.).

**Helozelidae**

**Antispila** Hübner

A. *ampelopsiella* Cham. (8978). Mt. Desert, June 20–July 14 (Br.).

A. sp. Mt. Desert, May 23 (Br.).

A. sp. Mt. Desert, July 10–13 (Br.).

Elachistidae

Elachista Treitschke

E. oreestella Busck (9009). Sea Wall, July 5–9, Bar Harbor, July 21 (Br.).
E. argentosa Braun (9016). Bar Harbor, July 28–Aug. 6 (Br.).
E. praematurella Clem. (9021). Bar Harbor, June 8–Aug. 31 (Br.).
E. cucullata Braun (9044). Bar Harbor, June 28–July 2 (Br.).
E. sp. Bar Harbor, July 1 (Br.).
E. sp. Mt. Desert, June 24 (Br.).

Coleophoridae. The Case Bearers

Coleophora Hübner

C. albovanescens Heiur. (9060). Bar Harbor, July 8 (Br.).
C. atlantica Heiur. (9067). Bar Harbor, May 23 (Br.). Bred from poplar.
C. limosipennella Dup. (9088). Bred from white birch. Bar Harbor, June 11–July 27 (Br.).
C. alniella Heiur. (9090). The Bowl, bred from alder, July 19, 1932 (Br.).
C. coruscipennella Clem. (9092). Eden; Bar Harbor, June 4–July 29 (Br.).
C. occidentis Zell. (9096). Bred on Crataegus, apple and mountain ash, July 4–20 (Br.). It is known as the Cigar Case-Bearer.
C. salmani Heiur. (9097). Bred from white and gray birch and alder. June 25–Aug. 1 (Br.). It is sometimes common on birch. It is parasitized by Spilochaleis torvina and Epiurus indigator Cr.
C. laricella Hbl. (9098). Bred June 19–July 30 (Br.).
C. cinereella Cham. (9103). Bred from Populus tremuloides and white birch, June 4–July 5 (Br.).
C. polemoniella Brahm (9126)? July 29–Aug. 14 (Br.).
C. sp. near heinrichella McD. & duplicis Braun. Bar Harbor, July 29–Aug. 28 (Br.).
C. sp. Bar Harbor, Aug. 5 (Br.).

Gracillariidae

Lithocolletis Hübner

L. ostryaefoliella Clem. (9178). Mt. Desert, Aug. 15 (Br.).
L. diversella Braun (9188). Bar Harbor. Bred from underside mines on Gaylussacia baccata in Oct. (Br.).
L. sp. near incanella Wishm. Bred June 3–16 (Br.). Blotch-miner on alder.
L. sp. near propinquinella Braun. Bar Harbor. Mines common on beech in late summer; emerges May–June (Br.).
L. ostensackenella Fitch (9218). Blotch-miner of Robinia. Bred June 28–July (Br.).
L. fletcherella Braun (9252)? Bar Harbor. Bred from mines in oak (Br.).
L. arcuella Braun (9253). Blotch-miner of oak. Bred June 1–14 (Br.).
L. bethunella Cham. (9256). Bred from oak, early June (Br.).
L. picturatella Braun (9257). Bar Harbor, June 23–24 (Br.). Bred from mines on Myrica carolinensis.
L. obstrictella Clem. (9261)? Bar Harbor. Bred from oak (Br.).
L. corylisella Cham. (9262). Bred from Corylus rostrata, Bar Harbor, June 13–28 (Br.).
L. hamameleiella Busck (9266). Bred from Hamamelis virginiana, June 17–24 (Br.).

Marmara Clemens

M. salicetella Clem. (9275)? Mt. Desert, July 12 (Br.). Mines willow bark.

Acrocercops Wallengren


Phyllocnistis Zeller

P. populiella Cham. (9308). Bar Harbor, July 29–Aug. 13 (Br.). The larva mines the leaves of poplars, making the beautiful serpentine markings.

Callisto Stephens

C. guttea Haw. (9330). Mt. Desert, June 21 (Br.).
C. kalmiella Dietz (9331). Sea Wall Bog, July 6 (Br.).
C. crataegifoliella Clem. (9334). Bar Harbor, Aug. 11–16 (Br.).
C. conspicuella Dietz (9336)? Bar Harbor, Aug. 4 (Br.).

Gracillaria Haworth

G. cornusella Ely (9356). Mt. Desert, June 16 (Br.).
G. bimaculatella Ely (9360). Bar Harbor, July 7 (Br.).
G. violacella Clem. (9367). Bar Harbor, Aug. 6 (Br.).
G. packardella Cham. (9369). Bar Harbor, Aug. 2 (Br.).
G. alnivorella Cham. (9391). Mt. Desert, Aug. 20–Nov. 4 (Br.).
G. alnivorella var. alnicolella Cham. (9391a). Bar Harbor, May 11 (Br.).
G. alnivorella var. pulchella Clem. (9391b). Bar Harbor, Sept. 9 (Br.).
G. alnivorella var. sanguinella Beut. (9391c). Mt. Desert, May 12–July 23 (Br.).
G. cuculipennella Illm. (9398). Bred from ash. May 20–Oct. 9 (Br.).
G. sp. Forbes Aug. 17 (Br.).

Opostegidae

Opostega Zeller

O. nonstrigella Cham. (9403)? Bar Harbor, July 4 (Br.).

Lyonetiidae

Lyoneta Hübner

L. speculella Clem. (9419). July 5 (Br.).

Bucculatrix Zeller. The Ribbed-Cocoon Makers

B. fusicola Braun (9430)? July 7–11 (Br.).
B. cuneigera Meyr. (9433). Bar Harbor, July 6 (Br.).
B. coronatella Clem. (9442)? June 10 (Br.).
B. canadensisella Cham. (9448.1). The Birch Leak Skeletonizer. Bred June 3–July (Br.).
B. ansliella Murt. (9452). Bred from Quercus borealis (Br.).
B. sp. near agnella Clem. Bar Harbor, July 17 (Br.).
B. sp. near angustata F. & B. Bar Harbor, July 10 (Br.).
B. sp. near magnailla Cham. July 11–Aug. 3 (Br.).
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Tischeriidae

Tischeria Zeller

T. citrinipennella Clem. (9487). Bar Harbor, June 25 (Br.).
T. solidaginifoliella Clem. (9496). Bar Harbor, Aug. 16–27 (Br.). Bred from blotch mines on Solidago.
T. malifoliella Clem. (9508). Mt. Desert, July 8, '38 (Br.).
T. sp. Bar Harbor, Aug. 27 (Br.).

Psychidae

Hyaloscoites Butler


Solenobia Zeller

S. walshella Clem. (9539). Many of them crawling with their cases on the laboratory windows latter part of Sept. Bred May 29 (Br.). The larvae live on lichens and the females are wingless.

Tineidae

Myrmecozaela Zeller

M. effrenatella Clem. (9587). N. E. Harbor, (Minot); Bar Harbor, July 16–Aug. 14 (Br.).

Scardia Treitschke

S. approximataella Dietz (9623). Bar Harbor, July 17, 1938 (Br.).

Monopis Hübner

M. biflavimaculella Clem. (9631). N. E. Harbor, Aug. 22 (Minot); Bar Harbor, Aug. 22–Sept. 20 (Br.).
M. *monachella* Hbn. (9633). Eden, Aug. 7; Bar Harbor, July 20 (Br.).

M. *dorsistrigella* Clem. (9634). Bar Harbor, July 16–18 (Br.).

M. *brorrella* Dietz (9636). Bar Harbor, June 12 (Br.).

*Choropleca* Durrant

C. *visaliella* Cham. (9640). Mt. Desert, June 28–July 7 (Br.).

*Tinea* Linnaeus

T. *misella* Zell. (9641). Bar Harbor, June 17–Aug. 18 (Br.).

T. *fuscipunctella* Haw. (9643). Bar Harbor, July 21 (Br.).

T. *trimaculella* Cham. (9640). Bred from swallow’s nest May 10–July 4 (Br.).

T. *canariella* Clem. (9650)? Bar Harbor, July 4; bred from swallow’s nest.

T. *grumella* Zell. (9652). Bar Harbor, July 1, 1935 (Br.).


T. *croceoverticella* Cham. (9659). Bar Harbor, July 28–Aug. 4 (Br.).

T. *ophrionella* Dietz (9666). Bred from birch trunk, July 17 (Br.).

T. *rileyi* Dietz. (9672). Bar Harbor, July 18–Aug. 10 (Br.).

T. *arcella* Fabr. (9676). July 1–Aug. 3 (Br.).

T. *auropulvella* Cham. (9677). Bar Harbor, June 25, 1931 (Br.).


T. *granella* Linn. (9686). The European Grain-Moth. In nest of swallow, July 31–Aug. 8 (Br.).

T. *cloacella* Haw. (9687)? Bar Harbor, May 26–July 29 (Br.).
TINEOLA Herrich-Schaeffer


HOMOSETIA Clemens

H. argentinotella Cham. (9704). Bar Harbor, July 18–23 (Br.).
H. maculatella Dietz (9710). Bar Harbor, July 29 (Br.).

OENOE Chambers

O. hybromella Cham. (9718). Mt. Desert, July 18 (Br.).

NEPTICULIDAE

NEPTICULA von Heyden

N. pallida Braun (9777). July 28–Aug. 20 (Br.).
N. sp. near pallida Braun. Bar Harbor, June 28, 1933.
N. sp. Bar Harbor, July 15–Aug. 15 (Br.).
N. sp. Bar Harbor, June 18, 1938.
N. sp. S. W. Harbor bog, July 25 (Br.).

ECTOEDEMIA Busck

E. populella Busck (9783). Bar Harbor, Aug. 2 (Br.).

INCURVARIIDAE

PARACLEMENSIA Busck

P. acerifoliella Fitch (9817). Bred from birch June 5 (Br.).

EUDARCIA Clemens

E. simulaticella Clem. (9821). Bar Harbor, Aug. 14 (Br.).

ADELA Latreille

A. ridingsella Clem. (9839). Corfield, June 13; Bar Harbor, July 11 (Br.).
A. purpurea Wlk. (9844). The moths of this genus are remarkable for the great length of their antennae in proportion to their size. Bar Harbor, April 26–June 9 (Br.).
Eriocranidae

Eriocrania Zeller

E. sp. Bar Harbor, Apr. 25, 1935 (Br.).

Micropterygidae

Epimartyria Walsingham

E. aurichinella Wlshm. (9856). Long Pond, July 27; Bar Harbor, June 30 (Br.).

Hepialidae. The Ghost Moths

Sthenopis Packard

S. argenteomaculatus Harris (9858). The Silver-spotted Ghost Moth is a crepuscular form. The larva feeds upon the roots of alder. But two specimens taken, both at light, Corfield, June 28 and July 12. They show marked variation in shading and size.

Hepialus Fabricius


Order DIPTERA

Ptychopteridae. The False Crane Flies

Look carefully in foliage around greenhouses and nurseries where there are compost heaps.

Ptychoptera Meigen


Bittacomorpha Westwood

Bittacomorphaella Alexander


Trichoceridae. The Winter Crane Flies

Most numerous in Spring and Autumn when they swarm in the open. Breed in decaying potatoes and the like.

Trichocera Meigen


Tipulidae. The Crane Flies

Tipulinae

In 1926 Dr. C. P. Alexander of Amherst, Mass., visited the Island, stopping at Southwest Harbor, and found it "certainly one of the richest and most remarkable faunas anywhere in the world." For that reason, most careful collecting has been done in this family, and Doctor Alexander and our friend, the late Walter H. Harrison, made trips to the Island for several years. They, Dr. Brower and the writer have collected together and separately, our goal being 200 species, for there are but three other restricted areas in the world where that number have been taken. We have reached it, and had some happy days in doing it. The letter (J) is for Johnson, and the other three are represented by their initials.

In the Occasional Papers of the Boston Society of Natural History, Vol. V, pp. 223–231, January 12, 1937, being part of the second Supplementary List, Doctor Alexander gives many records of species taken on the Island. To combine them with the list below would be confusing, and reference is therefore made to this paper, particularly because Doctor Alexander discusses some of the habitats, which should be read in connection with the listed species.
TANYPTERA LATREILLE

T. topazina (O. S.). Bar Harbor, June 8 (J.); Station F190, June 2 (P.).

CTENOPHORA MEIGEN

C. apicata O. S. Bar Harbor, July 20–28 (B.).

PRIONOCERA LOEW

P. fuscipennis (Lw.). S. W. Harbor, July 13; Witch Hole Pond, Aug. 18 (P.).

NEPHRATOMA MEIGEN

N. breviorcornis (Doane). S. W. Harbor, Sept. 5 (A).
N. euceroides Alex. Beaver Dam, June 13–25 (A). Beaver Dam, June 30 (B).
N. incurva (Lw.). Corfield (P); N. E. Harbor (Minot); June 16–Aug. 3. Bubble Pond (H); Rhodora Meadow, June 15 (A); Salisbury Cove, July 26 (A).
N. lugens (Lw.). Bubble Pond Inlet, June 21 (H). Bubble Pond Outlet laying eggs in loose sandy soil (A). Witch Hole, June 6 (P); Beaver Dam, June 11 (B).
N. pedunculata (Lw.). S. W. Harbor, June 21–July 10 (J); Corfield at light, June 30 (P).
N. xanthostigma (Lw.). S. W. Harbor; Eden (J); N. E. Harbor (Minot), July 20–Sept. 4.
Tipula Linnaeus

T. (trichotipula) oropezoides Johns. Station F190, June 2 (P); Northeast Harbor, August 29 (Minot); Beaver Dam, alt. 200 ft., June 13–21 (A); Breakneck Brook, alt. 100–250 ft., June 16 (A); Canada Brook, June 17 (A); Canyon Brook, alt. 300 ft., June 23, (A B & H).


T. (nobilotipula) nobilis (Lw.). Echo Lake (J); Beaver Dam, June 13–July 12 (Alexander).

T. (nippotipula) abdominalis (Say). Bar Harbor, July 22–Aug. 18 (J).

T. (vestiplex) longiventris (Lw.). Morrell Park, June 21 (A).

T. (vestiplex) platymera Wlk. Breakneck Brook, June 16 (A); Eden, May 23 (P).

T. (yamatotipula) caloptera (Lw.). Some Sound Inlet, alt. 1 to 50 ft., June 22–25 (A H & P); Beaver Dam, July 21 (B); Witch Hole, July 25 (A).

T. (yamatotipula) cayuga Alex. Bar Harbor, June 7–22 (J); Duck Brook between falls and Witch Hole stream, June 24 (A).

T. (yamatotipula) furca Wlk. (Bella Lw.). Bar Harbor, June 17 (J); Beaver Dam, June 13 (A); Beaver Dam, Aug. 9–22 (B); Sieur de Monts Spring, May 28 (B); Eden, June 25 (P).

T. (yamatotipula) iroquois Alex. (cincta Lw.). Bar Harbor; Long Pond (J); Stations F190 and F199 (P); Breakneck Brook, alt. 100–250 ft., June 16 (A).

T. (yamatotipula) noveboracensis Alex. Otter Creek, alt. 100 ft., June 15 (A).


T. (yamatotipula) tephocephala Loew. Echo Lake (J); N. E. Harbor (Minot), June 17–July 12; Beaver Dam, June 13 (A); Canyon Brook, June 23 (A B & H); Sta. F419 (P).


T. (tipula) maritima Alex. Laboratory at light, Sept. 19 (P); Gt. Heath, Oct. 5 (B); also Sept. 25 (B); Meadow east of Champlain Mt., Sept. 14 (B); S. W. Harbor Bog, Sept. 6 (B). New Record for Maine.

T. (tipula) ultima Alex. Rhodora Meadow, Aug. 19 (B), (very early); Witch Hole Pond (J); Beech and Western Mts., Sept. 8–12 (A); Beaver Dam, Newport Meadow, Aug. 30, Sept. 17 (B); Station F226, Newport Meadow, Corfield, Sept. 23, Oct. 5 (P). Lower Breakneck June 6 (P).

T. (schummelia) hermannia Alex. (fasciata Lw. preocc.). Bubble Brook, Canada Brook, Beaver Dam, S. de Monts Spring, Head of Somes Sound and Duck Brook, June 14–24 (A); Canyon Brook, July 20 (A B & P); Great Heath, Sept. 6 (B); Bubble Pond, July 27 (A & P); Gorge Trail, July 28 (H).


T. (oreomyza) borealis Wlk. (hebes Lw.). Station F214, Aug. 7 (P); Bar Harbor, Aug. 15 (B).

T. (oreomyza) entomophthorae Alex. (similliissima Dietz). Corfield at light, June 18–29 (P); N. E. Harbor, June 27 (Minot); Canyon Brook, July 20 (A B & P); Bar Harbor, emerged May 24 from larva in moss (Br.).


T. (oreomyza) grata Loew. N. E. Harbor (Minot); S. W. Harbor, July 12–Aug. 16 (J).

T. (oreomyza) ignobilis Loew. N. E. Harbor, July 17–Aug. 4 (Minot); Bar Harbor, July 5 (Br.).

T. (oreomyza) penobscot Alex. Bubble Pond, June 2 (P). New to the Island.

T. (oreomyza) senega Alex. (pallida Lw.). Breakneck Brook and Canyon Brook, Bubble Brook, Rhodora Meadow, Pemetic Mt. at Bubble Pond, Canada Brook, Duck Brook and Witch Hole Brook, June 14–24 (A); Rhodora Meadow, June 24 (P).


T. (oreomyza) trivittata Say. N. E. Harbor (Minot); Beech Mt. (A), June 26–Sept. 12; Canyon Brook, June 23 (B); Rhodora Meadow, June 15 (A); Beaver Dam, Canyon Brook, June 23–29 (B).

T. (lunatipula) apicalis Loew. Beaver Dam, June 17–July 2 (B); Bar Harbor (J); N. E. Harbor (Minot), June 21–July 16. Laboratory July 26 (P).


T. (lunatipula) mainensis Alex. Dry Mt. (J); Western Mt., Aug. 28–Sept. 10 (A).

T. (lunatipula) monticola Alex. Duck Brook, June 13; Bubble Pond Inlet, June 16 (A); Rhodora Meadow, June 15 (A); Pemetic Mt., June 16.

T. (lunatipula) parshleyi Alex. Rhodora Meadow, June 14, 15 (A).

T. (lunatipula) submaculata Loew. Bar Harbor, July 24 (J); Canyon Brook, July 20, 25 (A); Bubble Pond, July 27 (H); Gorge Trail, alt. 500 ft., July 28 (A).


Dolichopeza Curtis

D. (dolichopeza) americana Needh. Duck Brook; S. W. Harbor; Long Pond, June 13–20 (J); Bubble Pond Inlet, June 16 (A). Laboratory, June 20 (P). F419 (P).
D. (oropeza) carolus Alex. (albipes Johns.). Canyon Brook, 1200 ft., July 20 (A); Witch Hole, July 25 (A); Station F251 (P); Bar Harbor, July 21 (J).

D. (oropeza) dorsalis (Johns.). Duck Brook, June 18 (A); S. W. Harbor, Echo Lake, July 13–17 (P).

D. (oropeza) obscura (Johns.). Witch Hole, July 25, alt. 165 ft. (A); Otter Cliffs, alt. 100 ft., July 24 (A); Gorge Trail, alt. 600 ft., July 28 (H). Common, June 20–Aug. 16.

D. (oropeza) sayi (Johns.). Bar Harbor; N. E. Harbor (Minot); Echo Lake, June 11–July 12 (J); Station F251 (P).

D. (oropeza) similis (Johns.). Duck Brook; Long Pond, June 13–20 (J); Canyon Brook, June 23 (A B & H).

D. (oropeza) subalbipes (Johns.). Sea Wall bog, July 9 (B).

D. (oropeza) vexosa (Johns.). Beaver Dam, Rhodora Meadow, and Bubble Brook, June 14–21 (P). Bubble Pond Inlet, Canada Brook, Duck Brook, June 16–24 (A).

Phalacrocora Schiner

P. tipulina O. S. S. W. Harbor; Eden, July 11–18 (J).

Liogma Osten Sacken

L. nodicornis nodicornis (O. S.). Beaver Dam, Canada Brook, Bubble Pond Inlet, Head Somes Sound, Echo Lake, Witch Hole, June 13–24 (A); Station F199 (P); F419 (P).

Limonia Meigen

L. (limonia) cinctipes (Say). One individual flew into Brower’s laboratory June 23. Meadow east of Champlain Mt., Sept. 14 (B).

L. (limonia) fusca Meig. (pubipennis O. S.). Bubble Brook, Breakneck Brook, Canada Brook, Duck Brook, Old Beaver Dam, Sieur de Monts Spring, June 14–22 (A); Bar Harbor, June 19–July 30.
L. (limonia) immatura (O.S.). Bar Harbor, June 21 (J); Beech Mt., Sept. 12 (A); Beaver Dam, Sept. 11 (B).
L. (limonia) indigina (O. S.). Bar Harbor; Long Pond; Echo Lake, June 20–Sept. 1 (J); Beaver Dam, June 21 (A).
L. (limonia) macateei (Alex.). Brook near Ent. Laboratory, Sept. 7 (B); Gorge Trail, alt. 600 ft., July 28 (A). New Maine record.
L. (limonia) pemetica Alex. New species taken on Canyon Brook, June 23, '35 (B); Hunters Beach Brook, Sept. 24 (B).
L. (limonia) simulans (Walk.). Canyon Brook, July 20 (A B & P); June 23 (B).
L. (limonia) solitaria (O. S.). Common, June 13–Sept. 1. Bubble Pond Inlet, June 16 (A); also June 21 (A); Corfield, June 21 (P).
L. (limonia) triocellata (O. S.). Bar Harbor; Eden; Echo Lake; Corfield at light, July 12–Sept. 1; Canyon Brook, June 26. Section 28. Ent. Laboratory, Aug. 7–Sept. 11 (B); Salisbury Cove, July 19 (A).
L. (limonia) tristigma (O. S.). Bar Harbor; N. E. Harbor (Minot); Echo Lake (A), July 26–Sept. 10; Salisbury Cove, July 19 (A).
L. (discobola) annulata (Linn.) (argus Say). Common, July 24–Sept. 8; Canyon Brook, July 20 (A).
L. (discobola) nigroclavata Alex. Station F218, Sept. 4 (P); one specimen taken. Very rare, and new to Maine.
L. (dicranomyia) halterata O. S. Bubble Pond Inlet and Beaver Dam, June 13–21 (A); Stations F199, F237 and F245 (P); Pemetic Mt. at Bubble Pond, Valley Cove, S. de Mouts Spring, head of Somes Sound, June 16–23 (A); Bar Harbor; Eden, Eagle Lake (J); Corfield at light, July 12–July 25 (P).

L. (dicranomyia) immodesta (O. S.). Salisbury Cove; N. E. Harbor (Minot); Echo Lake (A), July 14–Sept. 8.


L. (dicranomyia) longipennis (Schumm.). S. W. Harbor, June 20 (J); N. E. Harbor, Aug. 11 (Minot); Station F286 (P); Pretty Marsh, Aug. 21 (B).

L. (dicranomyia) morioides (O. S.). Bar Harbor, June 13; Duck Brook, June 24 (P); Salisbury Cove, July 19 (A).

L. (dicranomyia) profunda Alex. Echo Lake, August 29 (A); Witch Hole Brook, June 18 (H); Duck Brook, June 18 (A); Beaver Dam, June 23, July 4 (B).

L. (dicranomyia) pudica (O. S.). Camp Ground, May 28 (B).


L. (dicranomyia) effiventris neomorio Alex. Lower Breakneck Pond, June 18 (P); Section 28, July 19 (P). New to the U. S.

L. (dicranomyia) sphagnicola (Alex.). Camp Ground, June 30 (B). New to Maine.

L. (dicranomyia) spinifera (Alex.). Stations F225, F228 and F229, Oct. 4–8 (P); Witch Hole, Sept. 12 (B); Echo Lake; Beech Mt., S. W. Harbor, Aug. 31–Sept. 12 (A). Witch Hole, Oct. 8 (P).


L. (rhipidia) maculata Meig. N. E. Harbor (Minot); Long Pond; Western Mt. (A), June 30–Sept. 8; S. W. Harbor, Sept. 11 (A). Station F220 (P); Gorge Trail, July 28 (Br.).

L. (geranomyia) canadensis (Westw.). Echo Lake, Sept. 4 (A).

L. (geranomyia) distincta (Doane). Camp Ground, June 29–July 4 (B).

**Ula Haliday**

U. elegans O. S. Sand Beach, July 11 (J).

U. paupera O. S. Bubble Pond Inlet, June 21 and Echo Lake, Sept. 11 (A). Bar Harbor, June 22; Beaver Dam, May 25 (B); Beaver Dam, June 22 (P). Lab., May 22 (P).

**Pedicia Latreille**

P. (pedica) albivitta Walk. Witch Hole Brook (P); N. E. Harbor (Minot); Echo Lake (A), Aug. 7–Sept. 1. Camp Ground, Aug. 27 (B).

P. (pedicia) margarita Alex. Hunters Beach, Sept. 23 (B). New Maine record.

P. (pedicia) procteriana Alex. Taken at Corfield at light, July (P). Presumably derived from Witch Hole Creek or Breakneck Brook or some similar nearby stream. A very striking species known only from the unique type and a specimen from Ontario.

P. (tricyphona) auripennis (O. S.). Duck Brook, June 24 (H). Rare.

P. (tricyphona) autumnalis (Alex.). Witch Hole Brook; west side of Island, Aug. 20–Sept. 7 (P); Camp Ground, Aug. 28; top of Robinson Mt., Sept. 2; Witch Hole, Sept. 12 (B); Long Pond, Aug. 21; N. E. Harbor, Sept. 6 (Minot); Echo Lake, Sept. 10 (A).
P. (tricyphona) calcar (O. S.). Bar Harbor; Upper Hadlock Pond; Echo Lake, June 8–July 17 (J); Valley Cove, Seawall Bog, and Canada Brook; Rhodora Meadow, Breakneck Brook, Witch Hole Brook, Bubble Pond Inlet, June 17–21 (A); Station F237 and F417 (P).

P. (tricyphona) inconstans (O. S.). A common species taken at almost all the places mentioned running from Canyon Brook at a thousand feet to low brooks and swamps, from May 28 to September 22.

P. (tricyphona) paludicola (Alex.). Seawall Bog, June 12 (B); Stations F190 and F237 (P). Station F416 (P).

P. (tricyphona) vernalis (O. S.). Jordan Pond; Long Pond; Bar Harbor, June 10–July 26 (J); Breakneck Brook, Beaver Dam, Bubble Brook, Bubble Pond Inlet, June 16–24 (A).

Dicranota Zetterstedt

D. (amalopixa) flaveola (O. S.). Beaver Dam, Bubble Pond, Valley Cove, Beech Mt., Breakneck Brook, Canada Brook, Sieur de Monts Spring, Canyon Brook, June 16–Sept. 12 (A); Long Pond, Bar Harbor, Echo Lake, July 16–Sept. 10 (J). Station F419 (P).

D. (eudicranota) pallida Alex. Canyon Brook, Camp Ground, June 20–30 (B). New record for Maine.


D. (rhaphidolabis) forceps (Alex.). Breakneck Brook, Bubble Brook, Bubble Pond Inlet, June 14–16 (A).

D. (rhaphidolabis) rubescens (Alex.). Echo Lake, Sept. 8–12 (J); Beech Mt. and S. W. Harbor, Sept. 10–12 (A); Station F220, Sept. 15 (P).

D. (rhaphidolabis) tenipes (O. S.). Dry Mt., Echo Lake, Aug. 26–Sept. 10 (A); Station F238, Oct. 1 (P); Ent. Laboratory, Sept. 7 (B).
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**Oxydiscus de Meijere (Adelphomyia Bergroth)**

*O. americanus* (Alex.). Echo Lake; Beech Mt.; S. W. Harbor, Sept. 1–12 (A); Stations F220 and F239 (P).


*O. minutus* (Alex.). Canada Brook, Beaver Dam, June 13–17 (A); Station F195 (P).

**Epiphragma Osten Sacken**

*E. fascipennis* (Say). Sieur de Monts Spring, June 4 (B); Eden, June 12 (P); Canada Brook, Somes Sound Inlet, Bubble Pond Inlet, Beaver Dam, Canyon Brook, 400 ft., June 16–23 (A). The larva is a burrower in fallen stems such as willow on the banks of temporary ponds, and has a mode of respiration suited to enforced amphibian habits.

**Dactylolabis Osten Sacken**

*D. hudsonica* Alex. With Hole Brook and Duck Brook, June 18 (A); Canyon Brook, 400 ft. (A B & H); in woods near Beaver Dam, May 16 (B); Breakneck Brook, June 16 (H).

*D. montana* (O. S.). Canyon Brook, June 23; Breakneck Brook, June 16 (H); Beaver Dam, Bubble Brook, Duck Brook, June 13–18 (A).

*D. pemetica* Alex. New species taken on Canyon Brook, June 23, '35 (Br.).

*D. supernumeraria* Alex. Witch Hole Brook, Duck Brook, Beaver Dam, Bubble Pond Outlet, June 18–21 (A).

**Prolimnophila Alexander**

*P. areolata* (O. S.). Morrell Park, S. de Monts Spring, Bubble Brook, Breakneck Brook, Duck Brook, Somes Sound Inlet, Canyon Brook (A B & H); Green Mt., July 18 (A); Station F254 (P).
A. toxoneutra (O. S.). Witch Hole, S. de Monts Spring, Rhodora Meadow, June 15–22 (A); Bar Harbor, June 13; Echo Lake, July 12 (J). Station F418 (P).
A. unica (O. S.). Bar Harbor, June 22; Canada Brook, June 17 (A).

Pseudolimnophila Alexander

P. contempta (O. S.). Canyon Brook, Breakneck Brook and Echo Lake, June 16–Aug. 29 (A); Stations F212 and F214 (P); Seawall Bog, July 9 (B); Morrell Park, June 19 (Salman). Lower Breakneck, June 6 (P).
P. novboracensis (Alex.). Echo Lake, Sept. 1–4 (A); Stations F214 and F252 (P); Salisbury Cove, Witch Hole, July 19–27 (A); Maple Swamp, July 24 (B).

Limnophila Macquart

D. (lasiomastix) macrocera Say. Bar Harbor, Aug. 15; Rhodora Meadow, Beaver Dam, June 14–22 (A); Sieur de Monts Spring, July 25 (B).
L. (lasiomastix) tenuicornis O. S. Somes Sound Inlet, Bubble Pond Inlet and Canada Brook, June 16–22 (A); Station F199 (P); Beaver Dam, June 13 (A); Head of Somes Sound, June 23 (A). Station F419 (P).
L. (dicranophragma) angustula (Alex.). Station F212, Aug. 3–Sept. 1 (P); Canyon Brook, July 20; Station F252 (P); Witch Hole, July 25, Maple Swamp, July 24 (B); Bubble Pond, July 27 (A).
L. (dicranophragma) fuscovaria O. S. Bar Harbor; S. W. Harbor; Echo Lake, July 21–Sept. 1 (J) (P); Head of Somes Sound, Canyon Brook, Salisbury Cove, June 23–July 19 (A). Lower Breakneck, July 6 (P).
L. (elaeophila) johnsoni Alex. Bubble Pond Inlet, June 16 (A). Rare.
L. (elaeophila) solstitialis Alex. Echo Lake, Sept. (A).
L. (pronolabis) munda O. S. Echo Lake, July 12 (J); Beech Mt., Sept. 10-12 (A).
L. (pronolabis) rufibasis O. S. Bar Harbor (J); N. E. Harbor (Minot); June 21-30; Bubble Pond, June 21 (H); Station F190 (P). Beaver Dam, Bubble Brook, Rhodora Meadow, Breakneck Brook, Pemetic Mt. at Bubble Pond, Canada Brook, Duck Brook, S. de Monts Spring, Head of Somes Sound, June 14-23 (A); Field Laboratory, June 7-21 (B); Hunters Beach Brook, mating pair (P). F405 & 416 (P).
L. (phylidorea) adusta O. S. S. W. Harbor, July 15; Green Mt. and Great Head, June 14-15 (A).
L. (phylidorea) auripennis Alex. Corfield, Aug. 20 (P); Bar Harbor, Sept. 1 (B); Camp Ground, Sept. 17 (B). Corfield, Oct. 20 (P).
L. (phylidorea) consimilis fumidicosta Alex. Maple Swamp, July 24 (B); Corfield, June 16 (P). New Maine record.
L. (phylidorea) fratria O. S. Bar Harbor, June 3-14 (J); Duck Brook, June 24 (A).
L. (phylidorea) lutea Doane. The “true (lutea).” Common in June. Breakneck Brook, Champlain Monument near Hunters Beach, Canada Brook, Beaver Dam, Sieur de Monts Spring (A), June 16-22; Field Laboratory, June 21 (B); spruce growth near Lab., June 25 (B).
L. (phylidorea) platyphallus Alex. Beaver Dam, Salisbury Cove, July 16-19 (A). Rare.
L. (phylidorea) subcostata (Alex.). Bar Harbor, July 4 (Salman).
L. (limnophila) brevifurca O. S. Bubble Pond Inlet, Beaver Dam, Bubble Brook, Canada Brook, Valley Cove, Sieur de Monts Spring, Duck Brook, June 17-22 (A); Echo Lake, Sept. 4 (A); Stations F199 and F237 (P); Duck Brook, Sept. 11 (A).
S. lenta (O. S.). Salisbury Cove, July 19 (A); Camp Ground, Witch Hole, July 19-27 (B); Section 28, July 19 (P); Beech Mt., Sept. 12 (A); Station F214 (P); Cedar Swamp on Tremont line, Aug. 7-Oct. 1 (P); Eagle Lake; S. W. Harbor, July 18–Sept. 11 (J). Seal Harbor Br., Aug. 11 (P).

**Pilaria sintenis**

P. quadrata (O. S.). Bar Harbor, June 11–July 21 (J); Bubble Brook and Beaver Dam, June 13–14 (A); Canada Brook, S. de M. Spring, June 17–22 (A); Station F190; Stations F251, F254; Corfield, May 16 (P). F416, F419 (P).

P. recondita (O. S.). Great Heath, Aug. 4 (Br.); Station F254 (P).

P. stanwoodae (Alex.). Witch Hole Brook, Beaver Dam, Bubble Pond Inlet and S. de M. Spring, June 13–22 (A); Stations F237 and F252 (P).

P. tenuipes (Say). Stream near Ent. Laboratory, Aug. 9 (B); Bar Harbor, July 19 (J).

**Hexatoma Latreille**

H. (eriocera) brachycera (O. S.). Bar Harbor, July 21–Aug. 10 (J); Bubble Pond, July 27, about a dozen in groups of 2's and 3's, flying very low over pools of small woodland trout stream (A & P); Gorge Trail, July 28 (H).

H. (eriocera) cinerea (Alex.). Somes Sound Inlet; Station F199, June 22–23 (P). Rare.

**Elephantomyia Osten Sacken**

E. westwoodi O. S. Echo Lake, Eagle Lake, Bar Harbor, July 17–24 (J); Otter Cliffs and Bubble Pond, July 24–27 (A); Camp Ground, Aug. 2 (B).

E. westwoodi adirondacensis Alex. A small race or variety of the last. Tremont, May 31 (P).
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Cladura Osten Sacken

C. (Neocladura) delicatula Alex. Beech Mt., Sept. 10–12 (A); Stations F220, F223 and F225, Sept. 15–Oct. 4 (P); Rhodora Meadow, Sept. 24 (B); Western Mt., 800 ft., in ferns, Sept. 30 (P).

C. (Cladura) flavoperruginea O. S. Station F223, Sept. 24 (P); Rhodora Meadow, S. W. Harbor, Sept. 24–Oct. 9 (B).

Chionea Dalman

C. valga Harris  Bar Harbor, Feb. 16 (B).

Gnophomyia Osten Sacken

G. tristissima O. S.  N. E. Harbor (Minot); Bar Harbor, July 2–22; Canyon Brook, June 23 and July 25 (A); Corfield, June 30 (P).

Lipsothrix Loew

L. sylvia (Alex.).  Bubble Pond Inlet, June 16 (A).  Rare.

Gonomyia Meigen

G. (Lipophelps) sulphurella O. S.  Rhoda Meadow, June 14 (A); Camp Ground, Aug. 2–Sept. 5 (B).

G. (Gonomyia) bidentata Alex.  Echo Lake; Beech Mt. Aug. 29–Sept. 12 (A); Station F214, Aug. 7; Station F239 and cedar swamp on Tremont line, Oct. 1 (P); Salisbury Cove, July 19 (A).

G. (Gonomyia) subcinerea O. S.  Bar Harbor, July 18 (J).

Helobia St. Fargeau

H. hybrida (Meig.).  S. W. Harbor, July 11 (J); N. E. Harbor, Aug. 11 (Minot).
Erioptera Meigen

E. (empeda) stigmatica O. S. Station F254 (P); Rhodora Meadow, Somes Sound Inlet, Beaver Dam, Canada Brook, S. de Monts Spring, June 13–22 (A); Echo Lake, Aug. 29 (A); Camp Ground, July 29–Sept. 6 (B). F417 (P).

E. (gonempeda) nyctops Alex. Upper Hadlock Pond, June 10 (J); Bubble Pond Inlet, June 21 (P).

E. (erioptera) chlorophylla O. S. Long Pond; Bar Harbor, July 16–26 (J).

E. (erioptera) chlorophylloides Alex. Camp Ground, Great Heath, Witch Hole, July 5–Aug. 4 (B); Eden, July 5 (P).

E. (erioptera) chrysocoma O. S. Camp Ground and Maple Swamp, July 15–24 (B); Rhodora Meadow, Somes Sound Inlet, Salisbury Cove, June 14–July 19 (A); Stations F25 and F254 (P); Section 28, July 19 (P).

E. (erioptera) megophthalma Alex. Rhodora Meadow and S. de M. Spring, June 14–22 (A).

E. (erioptera) septemtrionis O. S. S. de M. Spring, Rhodora Meadow, and Beaver Dam, June 13–22 (A); Camp Ground, Rhodora Meadow, May 2–Oct. 1 (B).

E. (erioptera) subfurcifer Alex. Camp Ground, July 21 (B). Hitherto only from Conn. and Michigan.


E. (erioptera) vespertina O. S. Rhodora Meadow, June 14 (A).


E. (mesocyphona) needhami Alex. Bar Harbor, July 11 (J); Station F251 (P).

E. (hoplolabis) armata O. S. Rhodora Meadow, June 13–14 (P); Sieur de Monts Spring, June 22 (A).
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E. (ilisia) armillaris O. S. Bar Harbor, July 17 (J); S. de M. Spring, June 22–July 25 (A); Station F254 (P); Camp Ground, July 30 (B).
E. (ilisia) venusta O. S. Beaver Dam, June 13 (A).

ORMOSIA Rondani

O. adirondacensis Alex. Breakneck Brook (H); Bubble Pond Inlet, Canyon Brook, alt. 350 ft., June 16–23 (A). Rare.
O. arcuata (Doane). Camp Ground, Sept. 12, 22 (Br.).
O. broweri Alex. sp.n. May 15 (B).
O. dentifera Alex. Bar Harbor, May 18 (B).
O. deviata Dietz. Common, June 15–Sept. 11. Taken all over the Island by (A), (B), (J) and (P).
O. luteola Dietz. Echo Lake (J); S. W. Harbor, Aug. 28–Sept. 8 (A).
O. megacera Alex. Witch Hole Brook and Eagle Lake, June 18–Sept. 1 (A). Duck Brook, Head of Somes Sound, Cadillac Mt., Bubble Pond, June 18–July 27 (A). Rare.
O. meigenii (O. S.) Beaver Dam, Great Head, Rhodora Meadow, Breakneck Brook, Bubble Pond Inlet, Valley Cove, S. de M. Spring, Head Somes Sound, Bubble Brook, June 13–23 (A).
O. mesocera Alex. Canada Brook, June 17 (A).
O. monticola (O. S.). Dry Mt. (J); Echo Lake; S. W. Harbor, Aug. 26–Sept. 10 (A).
O. nimbipennis Alex. Common on the ponds and on Dry Mt., Western Mt. and other high places, Aug.–Sept. Echo Lake, Sept. 2 (B).
O. nubila (O. S.). Echo Lake (J); Western Mt., Sept. 4–8 (A); Station F220, Sept. 15 (P); Bar Harbor, Maple Swamp, May 23–28 (B).
O. pygmaea (Alex.). Canada Brook, Dry Mt., Echo Lake; S. W. Harbor, June 17–Sept. 10 (A); Stations F220 and F225, Sept. 15–Oct. 4 (P). S. de M. Spring, June 22 (A). Hunters Beach, Sept. 18 (B).

Tasiocera Skuse


Molophilus Curtis

M. cramptoni Alex. Bubble Pond Inlet, Beaver Dam, Valley Cove, S. de M. Spring, June 16–22 (A). Rare.
M. forcipulus (O. S.). Rhodora Meadow (A); Breakneck Brook (H); Station F199 (P); Long Pond, June 14–July 24. Section 28, July 19 (P). Lower Breakneck Pond, July 18 (P). S. de M. Spring, Head of Somes Sound, June 22 (A); Salisbury Cove, July 19 (A).
M. fultonensis Alex. Stations F212 and F214, Aug. 3–7 (P); Section 28, July 19 (P); Canyon Brook, July 20 (A B &P); Salisbury Cove, July 27 (A); Camp Grounds, Aug. 9 (B). New to Maine.
M. laricicola Alex. Seawall Bog, June 19 (A). Rare.
M. paludicola Alex. Beaver Dam, June 16 (A). Rare.
M. pubipennis (O.S.). Salisbury Cove, Beaver Dam, Canada Brook, Witch Hole Brook, Head of Somes Sound, June 3–23 (A); Witch Hole, July 25 (P).
M. soror Alex. S. W. Harbor, Sept. 11 (A).

Toxorhina Loew

T. (toxorhina) muliebris (O. S.). Eagle Lake; Bar Harbor, July 18–24 (J); Seawall Bog, S. W. Harbor, July 5, 9 (B).
THE MOUNT DESERT REGION

ANISOPODIDAE. Meigen

On foliage and tree trunks around wet places is the place for these.

ANISOPUS Meigen

A. fenestralis (Scop.). Laboratory window. Oct. 20.

BLEPHARICERIDAE. Net-winged Midge

Found on foliage along the edges of swift streams.

BLEPHARICERA Macquart


SIMULIIDAE. The Black Flies

One collects these most everywhere here in May and June without the slightest effort.

SIMULIUM Latreille

S. sp. One specimen F382.

PROSIMULIUM Roubaud

P. hirtipes Fries. Echo Lake; Green Mt., June 17–July 25.

TENDIPIDAE (Chironomidae). The Midges

Found for the greater part near water. Dusk is the collecting time. Common on tree trunks in daytime.

PENTANEURA Philippi

P. monilis Linn. Echo Lake, July 12.
TANYPUSS Meigen


PROCLADIUS Skuse

P. culciformis Linn. Bar Harbor, June 30.

EURYCNEMUS Van der Wulp

E. scitulus Coq. Echo Lake, June 17.

CHASMATONOTUS Loew

C. atripes Rempel. Lower Breakneck beating pine.
C. bimaculatus O. S. Echo Lake, July 12.

LAUTERBORNIELLA Bause


MICROTENDIPES Kieffer


POLYPEDILUM Kieffer


TANYTARSIUS Van der Wulp

T. devinctus Say. Echo Lake, July 12 in M. C. Z.
T. jucundus var. dimorphus Mall.

STENOCHRONOMUS Kieffer

S. hilaris Walk. Corfield in May and July.
S. pulchripennis Coq. Echo Lake, July 12.
S. taenipennis Coq. Echo Lake, June 12.
THE MOUNT DESERT REGION

XENOCIRRONOMUS Kieffer


TENDIPES Meigen (Chironomus)


GLYPTOTENDIPES Kieffer


CERATOPOGONIDAE. The Biting Midges

This is a family that one can collect without much searching. Just meander around near water at dusk.

FORCIPOMYIA Meigen


DASYHELEA Kieffer

D. cincta Coq. Several taken at laboratory Sept. 29, '40.

CULICOIDES Latreille

C. sanguisuga Coq. Long Pond, July 16.

CERATOPOGON Meigen


SERROMYIA Meigen

BIOLOGICAL SURVEY OF

Heteromyia Say


Palpomyia Meigen


Johannsenomyia Malloch


Procezzia Kieffer


Psychodidae. The Moth Flies

Sweep foliage in shady swampy places for these and take great care in preserving your catch. Common on tree trunks after rains.

Psychoda Latreille

P. cinerea Banks. S. W. Harbor, June 18.
P. Marylandana Del. R. Station F395.
P. signata Banks. Long Pond, Echo Lake; Bar Harbor;

Pericoma Walker

P. slossoni. Will. Bar Harbor; Salisbury Cove, July 19–
Aug. 11.

Dixidae

Another water frequenter whose larvae live in ponds and
the like.
Dixa Meigen

D. centralis Loew. Bar Harbor, July 25; Duck Brook, Sept. 11.
D. sp. Corfield, Sept. 8.

Culicidae. The Mosquitoes

Chaoboridae

Eucorethra Underwood

E. underwoodi Underw. Pools in a spring run at the head of Bear Brook, near Bar Harbor, July 21; Echo Lake, Sept. (Alexander). The larva is predaceous, feeding upon the larvae of other mosquitoes.

Chaoborus Lichtenstein

C. americanus (Johan.). (C. cristallina auct.). S. W. Harbor, July 13. These are non-biting.

Culicinae

Anopheles Meigen

A. (Anopheles) occidentalis Dyar & Knab (maculipennis) of authors. Most references in literature under this name. Outlet of Long Pond, June 20. Its relation to malaria is unknown.

Aëdes Meigen

A. sollicitans Walk. White-banded salt-marsh mosquito. Narrows, June 26–Aug. 13. The most northern range for this troublesome sea-coast mosquito. It breeds in the pools in the salt marshes, wintering in the egg state.
A. *excrucians* (Walk.). Bar Harbor, Aug 12 (Br.). An all summer species living in the woods and starts out in the spring by breeding in flooded places.

A. *fitchii* Felt & Young. Long Pond; S. W. Harbor; Bar Harbor; N. E. Harbor, June 20–July 16. Frequents the woods. The winter is passed in the egg.

A. *stimulans* (Walk.). Brown wood mosquito. Bar Harbor; Echo Lake; S. W. Harbor, June 17–July 30. The winter is passed in the egg. The larvae develop in pools in the woods.

A. *canadensis* (Theob.). Bar Harbor, June 22–Aug. 3 (Br.). Hibernates in the egg stage and starts off in the spring while ice is still present. Favors pools with some decaying vegetation.


A. *communis* (DeG.). Bar Harbor, May 6–July 4 (Br.). Appears very early, prefers shade, attacks at night and stays with us the entire season. A northern species.

A. *diantaeus* Howard Dyer & Knab. Bar Harbor; S. W. Harbor, June 7–25. The larvae live in pools in woods. The winter is passed in the egg.

A. *intrudens* Dyar. Bar Harbor; S. W. Harbor; Echo Lake, June 7–25. The winter is passed in the egg. The larvae develop early in the spring in pools in the woods.

A. *punctor* (Kby.). Northern woods mosquito. Common, June 7–July 12. The larvae live in pools in the woods, developing in early summer. The winter is passed in the egg.

A. *atroalpus* (Coq.). "Rock-pool mosquito." Bar Harbor, July 10. The larva live in holes in the rocks. The winter is passed in the egg state attached to rocks.

A. *vexans* (Mg.). S. W. Harbor; Bar Harbor, May 25–Sept. 20 (Br.). The favorite breeding places are temporary pools in meadows and marshes as well as places left for them by human negligence. They are the most troublesome of the family.
THE MOUNT DESERT REGION

Culex Linnaeus


Mansonia Blanchard

M. perturbans Walk. Bar Harbor, July 19–29. One of the most troublesome of the mosquitoes. The larvae live among the roots of Carex and do not come to the surface of the water to breathe. It passes the winter as half-grown larvae.

Wyeomyia Theobald

W. smithi Coq. Pitcher-plant mosquito. Pond Heath; Salisbury Cove; Witch Hole, July 12–30. This species lives only in the water in the leaves of the pitcher-plant (Sarracenia purpurea). It is the smallest of the mosquitoes and passes the winter in the larval stage frozen in the ice.

Cecidomyidae. The Gall Midges

This family is one of general distribution and the best way is to search for the galls and rear them. It is then far easier to make the identifications.

Lestremia Macquart

L. acerifolia Felt. S. W. Harbor, June 18, 1921.

Catocha Haliday

C. sp. N. E. Harbor, July 8.

Cordylomyia Felt

C. tumida Felt. N. E. Harbor, July 8 (Minot).
Biological Survey of

Asteromyia Felt


Lasioptera Meigen

L. solidaginis O. S. Reared from galls of Solidago in September.

Neolasioptera Felt


Rhabdophaga Westwood

R. batatas Walsh. Willow potato-gall. S. W. Harbor; Salisbury Cove, Aug. 5 (Sanford).

Dasyneura Rondani

D. parthenocissi Stebb. On Ampelopsis but not common.

Diarthronomyia Felt


Phytophaga Rondani

P. rigidae O. S. Beaked willow-gall. Bar Harbor; Salisbury Cove.
Oligothrophus Latreille

O. sp. Long Pond, June 20.

Rhopalomyia Ribsaamen

R. lanceolata Felt. Bred ex Solidago gall (Br.), Sept. 18,

Asphondylia Loew


Cincticornia Felt


Contarinia Rondani

C. virginianiae Felt. Choke-cherry midge. Salisbury Cove. This midge causes swollen deformed fruit on the choke-cherry.

Mycodiplosis Ribsaamen


Obolodiplosis Felt


Retinodiplopsis Kieffer

R. inopis O. S. Bred from Pinus rigida twigs (Br.).
P. rubrascuta Felt. Reared from white spruce, July (Br.).

Cecidomyia Meigen (Ittonida Meigen)


C. salicifoliae O. S. Eden, Aug. Leaves of Spiraea near summit of stem are aborted and transformed into pouches with a little of blade remaining.


S. sp. Common on oak leaves 1943. Looks like Felt. Fig. 74.


Hormomyia Loew

H. canadensis Felt. Shad-bush gall. Corfield.


H. verruca Walsh. August in various places. The Willow lipped gall.

H. sp. Gt. Heath. Oct. 2 (Br.).

Trishormomyia Kieffer


Porricondyla Rondani

P. sylvestris Felt. Bar Harbor, Aug. 12, 1921.

P. sp. N. E. Harbor, Aug. 6 (Minot).

Sciariidae. The Dark-winged Fungus Gnats

Any moist place where fungus grows is their habitat.

Zygoneura Meigen


Sciara Meigen

S. habilis Johan. X. E. Harbor, July 4, also a specimen from Duck Br., June 24, '35 that varies somewhat.
S. quadrispinosa Petty. Bubble Br., June (Alex.).
S. sylvestrii Kieffer. Echo Lake, July 12.
S. varians Johan. X. E. Harbor, Aug. 11 (Minot).
S. sp. Reared from larch, June 15, '43.
S. sp. Reared ex poplar leaves Hulls Cove, June 27.
S. sp. Duck Br. (Alex.), June 24.

Mycetophilidae. The Fungus Gnats

Are found in moist places such as mossy rocks along woodland brooks.

Bolitophila Meigen

B. hybrida Meig. Found in dark damp places.
B. sp. near hybrida Meig. Tremont, May 31.
B. sp. Station F190.

Diadocidia Ruthe

D. ferruginosa Meig. Long Pond, June 27.
MACROCERA MEIGEN

M. sp. Bar Harbor, July 1. (Br.).
M. sp. Seal Harbor Br. Aug. 11.

ASINDULUM WIMBERTZ


CEROPLATUS BOSE

C. militaris Johan. Sieur de Monts Spring.
C. sp. Record of capture lost.

PLATYURA MEIGEN

P. genualis Johan. N. E. Harbor, July 12 (Minot).

APEMON JOHANSEN


SYMPHEUS WALKER

Mycomya Rondani

M. alternata Fisher.  Green Mt. half way to summit, June 23.

M. appendiculata Loew.  Duck Brook, Sept. 11.

M. hirticollis Say.?  Echo Lake, June 17.

M. imitans Johan.  Echo Lake; S. W. Harbor; Bar Harbor, July 17–Sept. 10.


M. onusta Loew.  N. E. Harbor, June 30 (Minot).

M. recurva Johan.  Laboratory, Oct. 3.


M. tantilla (Loew).  “Mt. Desert,” July 30 (McAtee).

M. terminata var. dichaeta.  Fisher.  Duck Br., June 24, (Alex.).

M. sp.  Wood Road at Sunken Heath F340.

Neoempheria Osten Sacken

N. digitalis Fisher.  Green Mt., half way to summit, June 23.

Eudicrana Loew


Neuratellia Rondani


Allocotocera Mik


Leptomorphus Curtis


D. nebulosus Walk.  Duck Brook, June 24.

D. subcaeruleus Coq.  Laboratory, June 23.

Polylepta Winnertz

SYNTEMNA Winiumz


SCIOPHILA Meigen

S. GALBANA Johan.  Echo Lake; Bar Harbor, July 17–22.

MONOCLONA Mik


ACNEMIA Winnertz


Gnoriste Meigen

G. MEGARRHINA O. S.  Pair half way to summit, Green Mt., June 23.

BOLETINA Staeger

B. TRICINCTA Loew.  Echo Lake, Bar Harbor; Green Mt., July 12–25.

RONDANELLA Johannsen

R. SORORCULA Loew.  Record of capture lost.

LEIA Meigen

L. BIVITTATA Say.  Laboratory, Aug. 1.
L. MELAENA Loew.  Duck Brook, Aug. 18.
L. OPIMA Loew.  N. E. Harbor (Minot); Echo Lake; Bar Harbor, July 4–Sept. 11.
THE MOUNT DESERT REGION

TETRAGONEURA Winnertz

T. sp. Duck Brook (Alex.) June 14.

EXECIA Winnertz

E. AUXILIARIA Johan. Long Pond, June 27.
E. BELLA Johan. Long Pond, June 27.

BRACHYPEZA Winnertz


ALLODIA Winnertz


DYNATOSOMA Winnertz

D. NIGRINA Johan. Along brook at Tremont X Mt. Desert line; F253.

CORDYLA Meigen

C. VOLUCRIS Johan. Duck Brook, Sept. 11.

PHRONIA Winnertz

P. INSULA Johan. Duck Brook (Alex.) June 24.

TRICHONTA Winnertz

T. BELLULA Johan. Duck Brook (Alex.) June 24.
T. HANSONI Shaw. Mt. Desert, June 16 (Alex.).
T. SAGANA Shaw. Witches Hole, June 25 (Alex.).

MYCETOPHILA Meigen

M. EDENTULA Johan. Duck Brook (Alex.) June 14.
M. EXUSTA Johan. Bubble Brook, Oct. 1; F238.
M. LENTA Johan. Road by Half Moon Pond; F243.
M. MUTICA Loew var. A. Johan. Duck Brook (Alex.) June 24.
M. mutica Loew. Duck Brook, Sept. 11, 1922.
M. obscura Walk.? S. W. Harbor, Sept. 6.
M. perlonga Johan. Bar Harbor; Duck Brook; Green Mt., June 13–Sept. 11.
M. socia Johan. “Mt. Desert,” July 30 (McAtee).
M. trichonota Loew. Bar Harbor; Echo Lake, June 14–Sept. 11.
M. ichneumon Say. S. W. Harbor, Sept. 6.

Sceptonia Winnertz

S. nigra Meig. “Mt. Desert,” July 30 (McAtee).

Bibionidae. The March Flies

Also found around decaying vegetable matter in which they breed.

Plecta Weideman

P. heteroptera Say. S. W. Harbor; Echo Lake; Bar Harbor, Sept. 7–13. There was a hatch at Corfield, Sept. 17.

Bibio Geoffroy

B. basalis Loew. Bar Harbor; Echo Lake; S. W. Harbor, June 11–24.
B. humeralis Walk. Possibly the second known specimen of this was taken in a crocus blossom, Corfield, Sept. 25, ’40.
B. longipes Loew. S. W. Harbor, Sept. 6.
B. slossonae Coq. Record of capture lost.
B. variabilis Loew. Bar Harbor; Echo Lake; June 8–17.
B. sp. Penikese beating oak. Does not agree with any in A.M.N.H. but types are away.
THE MOUNT DESERT REGION

Scatopsidae. The Minute Black-Seavengers

These are scavengers and breed in decaying matter of various kinds.

Scatops Geofroy

S. notata Linn. Laboratory, Oct. 9.

Reichertella Enderlein


Schwammerdamella Enderlein

S. brevicornis Meig. S. W. Harbor; Narrows; Bar Harbor, July 11–Aug. 18.

Rhegmoclema Enderlein


Aldrovandiella Enderlein


Rachiceridae

Found in woods. But one genus is in the family and about a half dozen species known from the Neartic region.

Rachicerus Walker


Stratiomyidae. The Solder Flies

On flowers and especially garden ponds are good places for them.

Actina Meigen

A. viridis Say. Bar Harbor; Echo Lake; S. W. Harbor, June 7–21.

A. fuscitarsis Say. S. W. Harbor; Bar Harbor, June 22.

Odontomyia Meigen

O. virgo Oliv. S. W. Harbor, July 11.

Stratiomys Geoffroy

S. badia Walk. Common on flowers, July 12 to Aug. 5.

Pedicella Bigot

P. cuprinus Linn. Eden, July 12–Aug. 10.

Microchrysa Loew

M. polita Linn. Common, July 17–Aug. 15.

Coenomyiidae

Search for these around wet places particularly along the edge of woods. Larvae live in decaying wood.

Xylophagus Meigen

X. abdominalis Loew. Bred from Larch. June 12, ’43.
THE MOUNT DESERT REGION

Glutops Burgess

G. singularis Burgess. This is a rare fly of which not more than fifteen specimens have been recorded. A list of known records is in Leonard "Revision of the Phagionidae of the U. S. and Canada." Mem. Amer. Ent. Soc. No. 7. The larvae live in damp wood and are said to be carnivorous. Beside road Norway Drive May 25 '41. First record from Maine.

Tabanidae

Stonemyia Brennan

S. fera (Will.). Mt. Desert (Br.) July 1.

Chrysops Meigen. Deer or Moose Flies

All of the species in this genus appear with us in June and frequent open places in and along the borders of woods. They disappear about the first of August.

C. celer O. S. Salisbury Cove, July 13—Aug. 11.
C. frigida O. S. Common, June 9—July 18.
C. fuliginosa Wied. Narrows, June 26; S. W. Harbor, July 9 (Fernald).
C. mitis O. S. Sargent Mt.; Bar Harbor, June 7—July 10.
C. striata O. S. Bar Harbor; Eden, July 20—25; Penikese, Aug. 5.
Around the edges of marshes and ponds is the place for these, but I have found the best hunting on paths and wood roads where they hover on warm mornings. The males are more difficult to find and should be tried for by sweeping the edges of brooks and ponds about dawn.

T. actaeon O. S. Witch Hole, Aug. 17; Corfield, Sept. 1; Tremont, Sept. 6.
T. affinis Kby. Bar Harbor, July 30; Corfield, July 11.
T. astutus O. S. Eden, July 18–25; Corfield, Aug. 3–6; S. W. Harbor, Aug. 25 (Br.).
T. cinclus Fab. Corfield, July 26; Bar Harbor (Br.), Aug. 3.
T. epistates O. S. Common, June 8–July 31.
T. illotus O. S. Stations F201 and F204, June 28–July 2.
T. longiglossus Phil. Bar Harbor, July 25 (Br.).
T. minusculus Hine. S. W. Harbor bog, July 25 (Br.).
T. nigrovittatus Macq. The common “green head” is on all the salt marshes during July and August.
T. ohioensis Hine. Salisbury Cove, July 15 (Olsen); S. W. Harbor, July 15.
T. pemeticus Johns. S. W. Harbor, June 12; N. E. Harbor, July 22 (Minot); Green Mt., Aug. 17; S. W. Harbor, Aug. 20. The type locality of the species. The name is derived from Pemetic, the Indian name of the island. Scarce.
T. septentrionalis Loew. S. W. Harbor; Echo Lake; Narrows, July 15–Aug. 23. Fairly common.
T. thoracicus Hine. S. W. Harbor, July 25 (Br.).
T. trepidaus McD. Sec. 28; Stations F200 and F255, June 24–July 21.
T. trispilus Weid. Laboratory, July; Green Mt., Aug. Scarce.
T. *trispilus* var. *sodalis* Will.  Echo Lake; Eden; Bar Harbor, July 17-29.

T. *typhus* Whitn.  S. W. Harbor, July 19-Aug. 8 (Br.).

T. *vivax* O. S. Corfield, Aug. 13; Witch Hole, Aug. 27.

T. *zonalis* Kby.  S. W. Harbor, July 11.

T. sp. near *astutus*.  Record of capture lost.

T. sp. near *gracilipalpus* and *trepidus*.  Laboratory, Aug. 11.

**Rhagionidae.** The Snipe Flies

A woodland form where there is plenty of foliage and ground growth.

*Symphoromyia* Frauenfeld

S. *currani* Leonard.  Laboratory, June 30.

**Rhagio** Fabricius (*Leptis Fabricius*)

R. *gracilis* Johns.  Sieur de Monts Spring; Duck Brook, July 22-Aug. 18.


**Chrysopilus** Macquart


**Spania** Meigen

S. *nigra* var. *americana* Johns.  Witch Hole Pond; Jordan Pond, June 10-21, 1921.

**Scenopinidae.** The Window-flies

They are said to breed in fungus.

**Scenopinus** Latreille

S. *fenestralis* (Linn.).  Bar Harbor, July 29; Northeast Harbor, Aug. 10 (Minot).  Parasitic on "buffalo beetles."

**Asilidae.** The Robber Flies

Along the edges of brooks and clearings in warm sunlight is the place to look for these. Also where other insects are attracted by freshly cut timber or cordwood.
Leptogaster Meigen

L. radius Loew. Salisbury Cove, July 24, 1925; Mt. Desert, Aug. 5 (Br.).
L. flavipes Loew. Wood road on edge west of Sunken Heath. F340.
L. testacea Loew. Mouth of Northeast Creek, July 25, 1925. Scarce.

Dioctria Meigen

D. albius Walk. S. W. Harbor; Green Mt., June 25–Aug. 17.

Cyclopogon Loew

C. allesi Back. Bar Harbor; Duck Brook; Echo Lake (Alexander), Aug. 16–29.
C. falto Walk. Bar Harbor; Echo Lake; Station F198, Eagle Lake; June 8–July 17.
C. tenuis Bromley. S. W. Harbor, July 20, 1923. The type locality.

Pogonosoma Rondani

P. ridingsi Cress. Seal Harbor (Prof. Edw. S. Morse). Rare and not a sea level form.

Bromosoma Enderlein (Dasyllis Loew)

B. flavicollis Say. Bar Harbor; S. W. Harbor; Station F104, June 11–Aug. 16.
B. posticata var. scutellaris Bromley. Morrell Park, Sept. 18.
THE MOUNT DESERT REGION

Laphria Meigen

L. aeatus Walk. S. W. Harbor, Aug. 8, 1910 (Fernald).
L. altitudinum Bromley. Bar Harbor, June 16.
L. index McAtee. Record of capture lost.
L. scorpio McAtee. Bar Harbor; S. W. Harbor, Corfield, July 6–Aug. 22.
L. sericea Say. S. W. Harbor (Fernald).

Neoitamus Osten Sacken

A. orphne Walk. Echo Lake, June 27.

Machimus Loew

A. paropus Walk. S. W. Harbor; Sea Wall; Corfield; Station F130, June 23–Oct. 7.
A. sadyates Walk. Eden; N. E. Harbor; Echo Lake; Breakneck; The Toad Hole; Stations F39 and F201, June 28–Sept. 26.

Therevidae

These are to be found in dry places the latter part of the summer.

Thereva Latreille

T. flavicincta Loew. S. W. Harbor, July 31; Seal Cove Brook, Sept. 18.
T. frontalis Say. Echo Lake, July 17; Corfield, June 14.
T. sp. One hatched from pupa in moss under spruce. A large spined species.
BIOLOGICAL SURVEY OF

Bombyliidae. The Bee Flies

Look for them on the bloom of low growing plants such as bluets (Houstonia caerulea) and low blueberry bushes in dry sunny places.

**Anthrax Scopoli**


**Exoprosopa Macquart**

E. capucina (Fab.). S. W. Harbor; Salisbury Cove, July 15.

E. calyptera Say. Section 28, July 20. Rare.

**Poeclanthurax Osten Sacken**

P. tegminipennis Say. One taken in a sand pit at Sea Wall, Aug. 24, '36. S. W. Harbor, July 17-Aug. 21 (Fernald).

**Thyridanthurax Osten Sacken**

V. lateralis (Say). Common, July 29-Aug. 23; Great variation in size.

V. lateralis var. gracilis Macq. Bar Harbor; S. W. Harbor, July 15-22.

**Villa Lioy (Anthrax of authors)**

V. alternata (Say). Station F260; Wood road Eden, July 31-Aug. 8.

V. hypomelas Macq. S. W. Harbor, Aug. 5-22. This has been bred from one of the cut-worms.


V. morio (Linn.). Bar Harbor; Eden; S. W. Harbor, June 11-July 17.

**Bombylius Linnaeus**

B. major Linn. Morrell Park on "bluets," May 27; Station F236.

Cyrtidae. The Little-headed Flies

Some of the species in this genus are parasitic on spiders. Sweeping bushes in swampy places is the only general way to take them.

Ocycodes Latreille


Obsebius Costa

O. pterodontinus O. S. Top of Robinson Mt., May 1, 1912 (Fernald).

Acrocera Meigen


Empidae. The Dance Flies

Very common on shores, moist woods, mossy patches, and the various species vary in their habitat.

Syneches Walker


Syndyas Loew


Hybos Meigen

BIOLOGICAL SURVEY OF

Euybos Coquillett

E. n.sp.? Laboratory, June 24.

Bicellaria Macquart


Leptopeza Macquart

L. compta Coq. S. W. Harbor; N. E. Harbor; Echo Lake, June 16–July 12.
L. ruficollis Meig. Bar Harbor; Echo Lake, June 7–27.

Ocydromia Meigen

O. glabricula Fall. Echo Lake; Bar Harbor; Narrows, July 12–27.

Oedalea Meigen

O. ohioensis Mel. Echo Lake, June 7.

Anthalia Zetterstedt

A. bulbosa Mel. Record of capture lost.
A.M.N.H.

Trichina Meigen

T. clavipes Meig. Jordan Pond; S. W. Harbor; Echo Lake, June 10–July 17.

Microphorus Macquart

M. atratus Coq. Jordan Pond; Bar Harbor; Echo Lake, June 10–July 19.

Iteaphila Macquart

I. macquartii Zett. Large numbers at Station F236. A few at Station F241.
OREOGETON Schiner


HILARA Meigen

H. nigriventris Loew. Corfield at light, Aug. 16.
H. sp. nov.,? Laboratory, July 13–Aug. 12.
H. sp. Field back of Hulls Cove, Aug. 22.

EMPIs Linnaeus

E. nuda Loew. Echo Lake, June 27.
E. sp. Station F241, April 21.

RHAMPHOMYIA Meigen

R. aperta Loew. Record of capture lost.
R. basalis Loew. Bar Harbor; Echo Lake, June 7–July 12.
R. irregularis Loew. Long Pond, June 27.
R. manca Coq. Echo Lake; Bar Harbor; Salisbury Cove, July 12–27.
R. umbrosa Loew. Long Pond, June 27.
R. varia Loew. S. W. Harbor; Echo Lake, June 20–27.

Clinocera Meigen


Chelipoda Macquart

C. elongata Mel. Echo Lake; S. W. Harbor, July 12–Sept. 3.

Hemerodromia Meigen

Tachypeza Meigen

T. fenestrata Say. Record of capture lost.
T. rostrata Loew. Bar Harbor; N. E. Harbor (Minot), June 1–Sept. 5.

Platypalpus Macquart

P. flavirostris Loew. Echo Lake; Green Mt., July 12–25.
P. holosericus Melander. Lab., July 22.
P. sutor Mel. S. W. Harbor, July 13.

Drapetis Meigen

D. armata Mel. Narrows; Eden, July 15–27.
D. gilvipes (Loew). Record of capture lost.
D. parvicornis Mel. Narrows, June 9; Eden, July 25.

Dolichopidae. The Long-headed Flies

Search for these in swamps or on streams where they feed upon smaller insects. Most of the species listed are common here but the numbers vary from year to year. Larvae live in mud, grass stems, under bark of rotting wood.

Laxina Curran

This genus was erected by Curran for certain species formerly placed in Sciapus, Psilopus and Condylostylus.
L. flavipes Aldr. Penikese, July 15.

Condylostylus Bigot

C. sipho Say. Laboratory, July 5.

Sciapus Zeller (Psilopus Meigen)

D. *calcaratus* Aldr.  Station F334.
D. *canadensis* Van D., Cole & Aldr.  Penikese, July 14; S. W. Harbor.
D. *domesticus* Van D.  New Mill Meadow, Oct. 3.
D. *flavilaceatus* V.-Day.  Station F405.
D. *genualis* Van Duzee.  Bar Harbor, July 1 (Br.).
D. *longimanus* Loew.  Echo Lake; Bar Harbor, July 10–22.
D. *plumipes* Scop.  S. W. Harbor, July 15.
D. *porphyros* Van D., Cole & Aldr.  S. W. Harbor, July 16.
D. scoparius Loew. Duck Brook; Bar Harbor, June 13–22.
D. sincerus Mel. Long Pond; Bar Harbor, July 16–Aug. 18.
D. socius Loew. S. W. Harbor; Long Pond, July 15–16.
D. gracilis Van D. S. W. Harbor, July 15–Aug. 23. Toad Hole on ferns in shade, F337.
D. wheeleri Mel. & Brues. S. W. Harbor, July 15.

Pelastoneurus Loew

P. lamellatus Loew. Tremont; Narrows, June 20–July 27.

Paraclius Loew

P. vicinus Aldr. Narrows, July 27.

Tachytrechus Loew


Medeterus Fischer von Waldheim

M. vanduzei Curran. Bred from larch, June 15, '43.
M. vittatus Van D. Station F402.
M. sp. Station F402.

Gymnopternus Loew

G. chalcochrus Loew. Long Pond, July 16.
BIOLOGICAL SURVEY OF

G. DESPICATU S Loew. Station F343.
G. FREQUENS Loew. Found on herbage near water. Toad Hole, F338.
G. LIVIDIFRONS Van Duzee. Sweeping Section 40, June 9.
G. OPACUS Loew. Frequents damp places with rank vegetation. Section 21 in August.
G. SPECTABLIS Loew. Echo Lake, June 27.

LIANCALUS Loew

L. GENUALIS Loew. Western Mt., Sept. 8 (Alexander).

ARGYRA Macquart

A. ANGUSTATA Van Duzee. Echo Lake, July 17, 1918.

CHRYSPOTIMUS Loew

C. PUSIO Loew. Corfield at light, Aug. 16.

NEURIGONA Rondani


MILLARDIA Curran

Hydrophorus Fallén

**H. aestuans** Loew.  Echo Lake; Sand Beach, June 17–Sept. 13.

**H. chrysologus** Walk.  S. W. Harbor; Bar Harbor, July 13–Aug. 10.


Rhaphium Meigen (*Porphyrops* Meigen)

**R. fumipennis** (Loew).  Bar Harbor; Echo Lake, June 15–27.

**R. longipes** (Loew).  Echo Lake; Long Pond, July 12–16.

**R. melampus** (Loew).  Long Pond, June 27.

**R. nigricoxa** Loew.  S. W. Harbor, June 16.


Leucostola Loew

**L. cingulata** Loew.  Bar Harbor; Echo Lake, June 20–Sept. 7.

Diaphorus Meigen

**D. gibbosus** Van Duzee.  S. W. Harbor, June 25–July 11.

**D. opacus** Loew.  Salisbury Cove, July 25.

Chrysotus Meigen

**C. affinis** Loew.  S. W. Harbor; Salisbury Cove, July 13–16.

**C. bellus** Van Duzee.  Sweeping ferns in shade near Toad Hole, July 26.

**C. discolor** Loew.  Same as above.  F399.

**C. johnsoni** Van Duzee.  One specimen taken Corfield at light, Aug. 16.

**C. subjectus** Loew.  Corfield on Azelia, July 4.
C. vulgaris Van Duzee. Witches Hole Brook sweeping rank grass and ferns, Aug. 7.
C. sp. Bar Harbor (Br.), June 28.

**Campsicnemus** Walker

C. hirtipes Loew. Corfield at light, Aug. 16.

**Sympycnus** Loew

S. frontalis Loew. Station F343.

**Lonchopteridae. The Pointed-wing Flies**

Moist places is where these are but I have taken them by sweeping clover. The larvae live under decaying leaves and on the underside of damp logs in swales.

**Lonchoptera** Meigen

L. dubia Curran. Two of these scarce flies which are interesting from a cytological angle came to light at Corfield Aug. 16, '39.

**Phoridae.**

These may be taken by sweeping around decaying vegetation. Doctor Curran's suggestion that someone collect them according to their habits and study them would be the real method.

**Chaetopleurophora** Schmitz

C. curvinervis Beck. S. W. Harbor, Aug. 13; mating pair.

**Diploneura** Loy

THE MOUNT DESERT REGION

Phora Latreille

P. aterrima Fab.  Echo Lake; Bar Harbor; S. W. Harbor, July 12–22.

Hypocera Liéy

H. femorata Meig.  S. W. Harbor; Echo Lake; N. E. Harbor (Minot), July 13–Aug. 8.

Conicera Meigen

C. atra Meig.  “Mt Desert,” July 31 (McAtee).

Gymnophora Macquart

G. quartomollis Schmitz (G. arcuata, auct.).  “Mt. Desert,” July 30 (McAtee).

Apocephalus Coquillett

A. borealis Brues.  Salisbury Cove, July 17, 1923.  Type locality.

Megaselia Rondani (Aphiochaeta Brues)

M. nigriceps Loew.  N. E. Harbor (Minot); Long Pond; Bar Harbor, July 26–Sept. 11.
M. pulicaria Fall.  “Mt. Desert,” July 31 (McAtee).
M. pygmaea Zett.?  “Mt. Desert,” July 31 (McAtee).
M. ruficornis Meig.  Record of capture lost.
M. straminipes Mall.  Bar Harbor, July 22.
M. sp.  Bred from lepidoptera nest on poplar Aug. 1 (Br.).

Platypezidae.  The Flat-footed Flies

The larvae live in fungi and the adults are best taken by sweeping foliage.
AGATHOMYIA Verrall


CALLIMYIA Meigen


PLATYPEZOIDES Johnson

P. diversa Johns. Bar Harbor, Sept. 11. Type locality.

PLATYPEZA Meigen

P. anthelix Loew. Echo Lake; Bar Harbor, Sept. 7–10.
P. banksi Johns. Laboratory Sept. 30.
P. pallipes Loew. (Calotarsa ornatips Town. ♂). Echo Lake; Bar Harbor, Sept. 7–10.

MICROSANIA Zetterstedt


Pipunculidae. The Big-headed Flies

The larvae are parasitic on bugs and the adults are found where the hosts abound.

CHALARUS Walker

C. spurius Fall. Bar Harbor, Aug. 16.

VERRALLIA Mik

THE MOUNT DESERT REGION

Pipunculus Latreille

P. aequus Cress. Duck Brook, Sept. 11, 1922.
P. affinis Cress. Station F349 and F375. A scarce form.
P. ater Meig. Bar Harbor; Echo Lake, July 12.
P. fuscus Loew. S. W. Harbor; Salisbury Cove, July 20–23.
P. scoparius Cress. Salisbury Cove; Echo Lake; S. W. Harbor, July 14–Sept. 5.
P. subopacus industrius Knab. Middle Road on Spirea Aug. 6.

Syrphidae. The Flower Flies

This beautiful and almost completely beneficial family may be taken generally around flowers, but there are some which will have to be searched for in their particular habitat. Many resemble the Hymenoptera.

Microdon Meigen


Volucella Geoffroy

V. bombylans facialis var. lateralis Johns. Bar Harbor; S. W. Harbor; Echo Lake, June 7–27. The larvae are commensal in the nests of bumble bees. The flies closely resemble the various species of bumble bees. Type locality.
BIOLOGICAL SURVEY OF

CITIBAENA Walker


CHRYSTOXUM Meigen


PARAGUS Latreille


LEUCOZONA Schiner

L. americana Curt. Bar Harbor; Echo Lake; S. W. Harbor, June 9–23.

DIDEA Macquart


SYRPIUS Fabricius

S. amalopis O. S. Bar Harbor; Echo Lake, June 9–July 12.
S. arcuatus Fall. S. W. Harbor, June 21.
S. perplexus Osburn. Echo Lake; S. W. Harbor, July 12–Aug. 20.
S. felix O. S. Echo Lake, July 17.
S. laxa O. S.  S. W. Harbor; Bar Harbor; Salisbury Cove, June 21–Sept. 11.
S. rectus O. S.  Bar Harbor; Green Mt.; S. W. Harbor, July 7–Aug. 20.
S. ribesii var. vittafrons Shan.  Bar Harbor; Long Pond; Salisbury Cove; S. W. Harbor, June 8–Sept. 6.
S. torvus O. S.  Common, June 15–Sept. 22. During the first warm days in spring, the adults emerge and eggs are laid on the first colonies of aphids appearing on the shoots of various plants, and they continue through the summer living on various forms of aphids and undoubtedly destroy many of the sexual females in September. Taken as late as September 22nd. Owing to an open winter, there was a large aphid population in the spring of 1937, and by the first of July these flies were in enormous quantities and would rise in swarms, while at the same time the numbers in the other species in the genus remained the same as other years.

Epistrophe Walker

E. diversipes Macq.  Common, June 8–Aug. 11.
E. fisheri Walt.  S. W. Harbor, Aug. 22. Station F263.
E. geniculatus Macq.  S. W. Harbor; Green Mt.; Bar Harbor, June 22–Sept. 11.
E. genualis Will.  Bar Harbor; Salisbury Cove; S. W. Harbor, June 7–21.
E. umbellatorum Fab. Bar Harbor; Green Mt.; Long Pond, 
June 11–Aug. 17.

Baccha Fabricius

B. obscuricornis Loew. Laboratory from the first of June 
to end of October. Eden in Aug.

Doros Meigen

D. aequalis Loew. Bar Harbor, June 6; Eden, June 12. 
Scarce.

Toxomerus Macquart

T. geminatus Say. S. W. Harbor; Bar Harbor, June 21–
July 17.

Mesogramma Loew

M. marginatum Say. Common around truck gardens in Eden 

Sphaerophoria St. Fargeau and Serville

S. cylindrica Say. Larvae feeding on aphids on Spirea. 
Bred (Br.).
S. novaeangliae Johns. Upper Hadlock Pond; Echo Lake, 
June 10–July 12.
S. robusta Curran. Bar Harbor; Eden wood-road, May 25– 
July 31.

Allograpta Osten Sacken

A. obliqua Say. Bar Harbor, July 29; Seal Harbor (D. 
Rockefeller).
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Pyrophaena Schiner


Platycheirus St. Fargeau and Serville

P. chaetopodus Will. Bar Harbor, June 8.
P. erraticus Curran. Auto net along Middle Road, June 8-July 25.
P. immarginatus Zett. S. W. Harbor; Bar Harbor (Metcalf), June 15-July 25.

Melanostoma Schiner

M. confusum Curt. S. W. Harbor, June 16.
M. pictipes Bigot. Sweeping saw-grass and the like along the Barcelona, Aug. 1, F339; Station F417.

Cartosyrphus Bigot

C. rita Curran. Bubble Br. on blackberry flowers, June 15.
C. similis Shan. Section 15 on Solidago, Oct. 10.

Cheilosa Meigen

Pipiza Fallén

P. xigropilosa Will.  Bar Harbor, June 8.
P. quadrimaculata Panz.  Bar Harbor; Echo Lake, June 13–27.
P. sp.  Bred from galls of *Pemphigus rhois* on sumac (*Rhus*), Aug., 1938.

Cnemodon Egger

C. calcarata Loew.  They like the wild rose.  Eden X Town Hill road, July 10.

Heringia Rondani


Pipizella Rondani


Chrysogaster Meigen

C. pulchella Will.  S. W. Harbor; Bar Harbor, July 10–19.

Neoascia Williston


Sphegina Meigen

S. flavimana Mall.  Echo Lake; Bar Harbor, June 17–Aug. 10.
S. petiolata Coq.  S. W. Harbor; Echo Lake; Bar Harbor, June 16–July 27.
S. rufiventris Loew.  Laboratory, July 7.
THE MOUNT DESERT REGION

Hammerschmidtia Himmuel

H. ferruginea Fall. Bar Harbor, June 11-17.

Rhingia Scopoli


Brachyopa Meigen

B. diversa Johns. Bar Harbor, June 8, 1921.
B. notata O. S. Laboratory, May 22.
B. perplexa Curran. Around Corfield in May and June.

Cynorhina Williston

C. analis Macq. Bar Harbor; June 8, 9; Corfield, June 8-30. Scarce.

Somula Macquart

S. decora Macq. Bar Harbor; Corfield, June 11-July 8.

Brachypalpus Macquart


Spilomyia Meigen

S. fusca Loew. Bar Harbor, July 24-Aug. 16.
S. quadrifasciata Say. Witch Hole Pond, Sept. 11, 1922.

Temnosoma St. Fargeau and Serville

T. apiforme Fab. Bar Harbor; Green Mt.; Long Pond; Eden; Sec. 28, June 9–July 25.
T. trifasciata Robt. One specimen taken on *Spirea*, Eden, July 12, '37.

*Syritta* St. Fargeau and Serville

S. picipes Linn. Bar Harbor; Tremont; Laboratory; Station F408, June 27–Aug. 23.

*Tropidia* Meigen


*Condidea* Coquillett

C. sexfasciata Walk. South of Manset; S. W. Harbor, June 16, 1921.

*Sericomia* Meigen

S. bifasciata Will. Echo Lake, June 17–July 12.

*Eristalis* Latreille

E. bastardi Macq. S. W. Harbor; Salisbury Cove; Bar Harbor, June 22–Sept. 9. Appears just before the middle of June when *Nymphaea advena* blooms, and is found on various flowers around the edges of ponds until the cold days in September. Common, but not numerous.
E. tenax Linn. "Drone fly." Common, July 10–Sept. 22. The larva is known as the "rat-tailed larva" and lives in putrid water.

Merodon Meigen


Mallota Meigen

M. posticata Fab. Bar Harbor, June 8–July 27; Corfield June 27; Duck Brook, July 1; Bubble Brook on blackberry blossoms, July 2.

Polydontomyia Williston


Lejops Rondani


Elophila Meigen

E. annulifera Bigot. Station F263; Bar Harbor (Br.) June 4; Pool on Deer Brook; Jordan Mt. 1000 ft. alt. Sept. 3; Station F408.
E. anthreas Wlk. One came in lab., June 9, '43.
E. borealis Staeg. The only place where I have taken this species has been around the brackish pools at the Narrows in July.
E. fasciatus Wlk. They frequent wood roads in autumn such as the road opposite Penikese. F160.
E. libo Wlk. At base of spruce. Larva were under bark. F402.
E. obscura. Same records as for fasciatus.
E. pigra Fab. Station F405; F408.
E. tuberculatus Rand. Laboratory, Oct. 1.

Conopidae. The Thick-headed Flies

Collecting around flowers is the best place. As is the case with the Syrphids, many resemble the Hymenoptera.

Physcephala Schiner

ZODION Latreille

Z. fulvifrons Say.  S. W. Harbor; Bar Harbor; Green Mt., July 15–25.
Z. intermedium Banks. Bar Harbor, Aug. 16.
Z. perlongum Coq. Echo Lake, July 12.

MYOPA Fabricius

M. clausa Loew. Record of capture lost.

OCCEMYA Desvoidy (Thecophora Loew)


OTTIDAE. The Picture-wing Flies

They frequent moist places and the larvae are said to live in decaying plants.

SEIOPTERA Kirby


EUXESTA Loew

E. notata Wied. Record of capture lost.

STENOMYIA Loew

S. fera Will. A female was taken by (Br.) Aug. 7, '37. Mr. Alan Stone writes "This is an interesting record, the species hitherto not having been found east of the northern Pacific Coast States. Dr. Brennan has also examined this specimen and considers it to be fera."
Chaetopsis Loew


Pseudotephritis Johnson

P. vau var. conjuncta Johns. Mt. Desert material used in naming this species. B.S.N.H. Vol. 5, p. 11–17, 1921.

P. metzi Johns. Record of capture lost.

Rivellia Desvoidy


Tephronota Loew

T. narytia Walk. Sand Beach, Great Head; Eden, July 11–18.

Psairoptera Wohlberg

P. nubecula Johns. N. E. Harbor, July 6 (Minot).

Melieria Desvoidy

M. similis Loew. Section 11 in rank grass, July 21.

Trupaneidae

One of the most interesting groups to collect for the larvae live in flower buds, make galls, mine in leaves, etc. The adults may be taken by sweeping flowers but it is better and more interesting to raise them.

Zonosema Loew

Z. flavonotata Macq. N. E. Harbor, Aug. 10 (Minot).
Rhagoletis Loew

R. fausta O. S. Bar Harbor, June 11. The larvae infest cherries.


R. symphoricarpi Cur. Bar Harbor, July 15 (Br.).

Myoleja Rondani

M. nigricornis Doane. Long Pond; Penikese, June 20–July 18.

Terellia Desvoidy


Neaspilota Osten Sacken


N. petiolata Prov? June 23 (Br.). Pairs on P. nemorata.

Procecidochares Hendel

P. atra Loew. Bar Harbor, Sept. 16 (Br.).

P. minuta Snow. Station F234.

Tephritis Latreille


T. n.sp. Record of capture lost.

Eutreta Loew

EUROSTA Loew


XANTHACIURA Hendel

X. nigricornis Doane. Long Pond; Penikese, June 20–July 18.

PALLOPTERIDA\AE

Along the seashore on vegetation is where these will be found.

PALLOPTER Fallén

P. subarcurata Johns. N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 13.
P. superba Loew. N. E. Harbor, June 26 (Minot).

LONCHAßE\AE\AE

General sweeping in shady damp places is the best collecting for this family.

LONCHAßA Fallén

L. affinis Mall. S. W. Harbor; Echo Lake; Bar Harbor, June 13–July 20.
L. angustitarsis Mall. Echo Lake, July 12.
L. marylandica Malloch. Four specimens flew into the laboratory between ’37 and ’40 July 11–Sept. 19. Scarce.
L. nigrociliata Mall. S. W. Harbor, July 11.
L. vaginalis Fall. Bar Harbor, June 11.

TANYPEZID\AE

In damp woods is the place to look for this small and scarce family.
Tanypeza Fallén
T. luteipennis Knab & Shan. Bar Harbor; N. E. Harbor (Minot); Echo Lake, June 7–July 24.

Calobatidae. The Stilt-legged Flies
Around moist places where there is decaying matter for the larvae to grow in.

Calobata Meigen

Sepsidae
Found around carrion and decaying matter of all kinds.

Pandora Haliday
P. scutellaris Fall. Narrows, Aug. 13.

Nemopoda Desvoidy
N. cylindrica Fab. S. W. Harbor; Salisbury Cove; Duck Brook, July 10–30.

Sepsis Fallén
S. signifera Mel. & Spul. Bar Harbor, July 30; Station F25.
S. signifera var. curvitibia Mel. & Spul. Bar Harbor, July 17.
S. violacea Meig. Echo Lake, June 17; Station F25.

Meroplius Rondani

Themira Desvoidy
T. minor Haliday. S. W. Harbor; Narrows, June 28–Aug. 30.
T. nigricornis (Meig.). At sap crack in yellow birch, Apr. 30.
Piophiilidae

Piophila Fallén

P. oriens Mel. & Spul. Bar Harbor, June 22.

Mycetaulus Loew

M. sp. Record of capture lost.

Lauxaniidae

Lauxania Latreille


Minettia Desvoidy

M. americana Mall. (M. longipennis auct.). Bar Harbor, June 15.
M. puncticeps Coq. They come to light at the laboratory in August.

Homoneura Wulp

H. deceptor Mall. Sand Beach, Great Head; Long Pond, July 13–16.
H. frontalis Loew. N. E. Harbor (Minot); Bar Harbor, July 1–11.
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H. houghi Coq. Station F374.
H. philadelphica Macq. N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 10.

**Sapromyza** Fallén

S. annulata Mel. Bar Harbor; Echo Lake; S. W. Harbor, June 15–July 12.
S. obtusilamellata Mall. Bar Harbor, June 7.
S. rotundicornis Loew. Echo Lake; Bar Harbor; N. E. Harbor, July 17–Aug. 11.
S. serrata Mall. Bar Harbor, June 11.
S. pictiventris Mall. Station F343.

**Periscelidae**

Very little is known about this group.

**Cyamops** Melander


**Drosophilidae.** The Small Fruit Flies

This family which has done so much for genetics frequents fermenting fruit and the like.

**Chymomyza** Czerny


**Scaptomyza** Hardy

S. graminum Fall. Narrows; S. W. Harbor, July 13–Sept. 6.
S. terminalis Loew. Corfield at light, Aug. 16.
D. affinis Sturt. Corfield at light, Aug. 16.
D. funebris Fab. N. E. Harbor, Aug. 29 (Minot); Echo Lake, Sept. 7.
D. melanogaster Meig. Robinson Mt., Sept. 7.

Stegana Meigen

S. coleoptrata Scop. Duck Brook; N. E. Harbor; Echo Lake, June 13–Aug. 17.
S. leucostoma Loew. Upper Hadlock Pond; Bar Harbor; Echo Lake, June 10–July 17.
S. minor Mall. Bar Harbor; Witch Hole Pond, June 16–Aug. 18.

Diastata Meigen

D. pulchra Loew. Sea Wall beating spruce, June 28.

Asteiidae

Asteia Meigen

A. beata Aldr. S. W. Harbor, July 13, 1919.

Opomyzidae

They will be found along the seashore and in wet places.

Mimetopia Melander

M. terminalis Loew. Bar Harbor; S. W. Harbor; Echo Lake, June 8–Sept. 3.
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Anthomyza Fallén

A. gracilis Fall. Echo Lake; S. W. Harbor, July 12–Aug. 27.

Neossos Malloch

N. n.sp. Rhodora Meadow from deer bed. Oct. 4 (Br.).

Pelomyia Williston


Agromyzidae. The Leaf Miners

The larvae make mines in the leaves of most plants. General sweeping is the method.

Napomyza Haliday

N. lateralis Fall. Echo Lake, July 17.

Agromyza Fallén

A. aeneiventris Fall. Bar Harbor, June 7.
A. artemisiae Kalt. (platyptera Thom.). S. W. Harbor; Seal Cove; Bar Harbor, July 11–Aug. 8. The larvae mine the leaves of a large number of plants.
A. genuala Mel. (coloradensis Mall.). “Great Heath”; S. W. Harbor, July 15.
A. lateralis Macq. (coquilletti Mall.). Echo Lake; Salisbury Cove, July 12–24.
A. melamphysa Loew (flaviventris Johns.). S. W. Harbor, July 13. The larvae mine the leaves of plantain.
A. morosa Meig. (magnicornis Loew; luterella Zett.). Bar Harbor; S. W. Harbor, June 7–Aug. 20. The larvae form swellings in the stems of the iris.
A. parvicornis Loew. S. W. Harbor; Narrows, July 10–27.
A. posticata Meig. (*terminalis* Coq.). Common, June 8–July 30. The larvae mine the leaves of asters and goldenrods.
A. pusilla Meig. (*trifolii* Burg.). S. W. Harbor; Echo Lake; Seal Cove, July 13–Sept. 8. The larvae mine the leaves of various Cruciferae, Compositae, Leguminosae, etc.
A. variata Mall. Narrows, July 27.

**Phytomyza Fallén**

P. aquilegialae Hardy. Columbine leaf-miner. S. W. Harbor, June. The larvae mine the leaves of the columbine.
P. sp. Station F343.

**Phyllomyzidae**

Sweeping grass and bushes in open places is productive.

**Paramyia Williston**


**Meoneura Rondani**

M. vagans Fall. Bar Harbor, June 7.
PHOLEOMYIA Bilimek


MILICHIELLA Giglio-Tos


EUSIPHONA Coquillett


DESMOMETOPA Loew

D. sordidum Fall. Salisbury Cove, July 14.

HYPASPISTOMYIA Hendel

H. glabra Fall. Bar Harbor; S. W. Harbor; Salisbury Cove, July 24–Aug. 20.

PHYLLOMYZA Fallén

P. securicornis Fall. S. W. Harbor, Aug. 26 (Alexander).

DESMOMYZA Currant


CHLOROPIDAE. The Frit Flies

May be collected almost anywhere by sweeping.

ELLIPONEURA Loew

E. sp. Bar Harbor; date of capture lost.

MEROMYZA Meigen

M. americana Fitch. Echo Lake; Eden, July 12–18.
M. flavipalpis Mall. S. W. Harbor, Sept. 8.
Cetema Hendel

C. subvittata Loew. Witch Hole Pond; Bar Harbor, July 30.

Chloropisca Loew

C. grata Loew. S. W. Harbor; Bar Harbor, July 11-22.

Diplotoxa Loew


Epichlorops Becker


Chlorops Meigen

C. constricta Becker. A common species the larvae of which live in plants and grasses.
C. crocata Loew. Station F404.
C. scabra Coq. Tremont, Aug. 23.
C. subnigra Coq. S. W. Harbor; Salisbury Cove; Bar Harbor, July 11-Aug. 12.

Anthracophaga Loew


Parectecephala Becker

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Hippelates Loew


Crassiseta Von Rössner

C. decipiens Loew. Common, June 7–Aug. 10.
C. longula Loew. S. W. Harbor; Salisbury Cove; Bar Harbor, July 14–Aug. 18.

Gaurax Loew

G. dorri Johns. Long Pond; Bar Harbor, June 15–27. Type locality.
G. interrupta Mall. Long Pond, July 16.

Madiza Fallén

M. nigripalpis Mall. Tremont; S. W. Harbor; Bar Harbor, Aug. 23–Sept. 9.
M. oscinina Fall. S. W. Harbor; Green Mt.; Salisbury Cove, July 17–Aug. 26.

Oscinella Becker (Botanobia Lioy)

O. frit Linn. Narrows, July 27.
O. frit var. pusilla Meig. Narrows, July 14.
O. soror Macq. In rotting birch bark (Br.), Oct. 28.

Ephydridae. The Shore Flies

Brooks, swamps and shores with the attending vegetation is where these will be found. Look into the blossoms of water-lilies and other aquatic plants.

Trimerina Macquart

T. madizans (Fall.). Bar Harbor, Aug. 16.

Clanoneurum Becker

C. cimiciformis (Halid.). Marsh at the Narrows, Aug. 15, 1920.

Discocerina Macquart


Ilythea Haliday


Rhysophora Cresson


Ditrichophora Cresson


Psilopa Fallén

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OCHTHERA Latreille


HYDRELLIA R.-Desvoidy

H. advenae Cr. First taken in blossoms of Nymphaea advena, July 25, '35. Type locality.


H. prudens Curr. (johnsoni Cress.). Taken with above.

HYDRINA Desvoidy


H. fuscicornis Loew. F306.

H. obscuripes Loew. Bar Harbor, Aug. 16.

H. procteri Cress. First taken on New Mill Pond in blossoms of Nymphaea advena, July 25, '35. Type locality.


H. tibialis Cress. New Mill Pond on Nymphaea advena, July 25.


H. sp. Penikese, Aug. 15.

LYTOGASTER Becker


PARYDRA Stenhammer

P. alpina Cress. Long Pond; Bar Harbor, July 16–Aug. 10.


P. varia Loew. Duck Brook; Bar Harbor, Aug. 18.

DIMOCOENIA Cresson

CIRRULA Cresson


EPHYDRA Fallén


SCATELLA R.-Desvoidy

S. stenhammeri Zett. Echo Lake, June 17; S. W. Harbor, July 11.

DICHAEIA Meigen

D. caudata Fall. Witch Hole Pond, June 13.

NOTIPHILA Fallén


BRACHYDEUTERA Loew

B. argentata Walk. S. W. Harbor, June 24.

SCATOPHILA Becker

S. variabilis Cress. S. W. Harbor, Aug. 20.

BORBORIDAE

Another family of which the larvae live in decaying organic matter. Examine such places.

SPHAEROCERA Latreille

S. subsultans Fab. Station F235.
S. sp. Corfield on Boletus edulis in U.S.N.M.
Leptocera Olivier

L. brachystoma Sten. Record of capture lost.
L. exiguella Spuller. Large numbers of these and of the next two species taken opposite Penikese on a large pile of horse bedding, Oct. 17.
L. ferruginata Stenh. Same as above.
L. mitchelli Mall. Same as above.

Borborus Meigen

B. equinus Fall. Bar Harbor; S. W. Harbor, June 22–July 11.

Clusiidae

As the larvae live in decaying wood the adults may be searched for around such places.

Clusiodes Coquillet

C. americana Mall. Green Mt., July 25.
C. (columbiella) johnsoni Mall. Echo Lake, July 12. Type locality.
C. (columbiella) nigripalpis Mall. Bar Harbor, June 17.
C. (clusiaria) orbitalis Mall. Bar Harbor, June 13, 1921. Type locality.

Clusia Haliday

C. czernyi Johns. Station F384, sweeping. In A.M.N.H.

Chamaemyidae

The larvae are predaceous upon aphids. Look for adults around burdock, thistle, and such plants.

Leucopsis Meigen

CHAMAEMYIA Meigen

C. aridella Fall. Sand Beach, Great Head; Long Pond, July 11–21.
C. junctorum Fall. Upper Hadlock Pond; Salisbury Cove, June 10–July 15.
C. polystigma Meig. Salisbury Cove; Tremont, July 14–Aug. 23.

TETANOCERIDAE. The Marsh Flies

Sweeping around ponds and along streams and the edges of swales will take these.

SCIOMYZA Fallén


MELINA Desvoidy

M. albovaria Coq. Witch Hole Pond; Bar Harbor, Aug. 18.
M. nana Fall. S. W. Harbor, June 20.
M. tenutipes Loew. Long Pond, June 20.
M. vitalis Cress. Sand Beach, Great Head, July 11.

SEPEDON Latreille

S. pusillus Loew. Upper Hadlock Pond; Bar Harbor, June 10–Aug. 18.
S. sp. Great Heath, Aug. 17.

HOPLODICTYA Cresson


DICTYA Meigen

D. pictipes Loew. Station F403.
D. umbroides Curr. Large numbers in the reeds along the Barcelona. F339.
Tetanocera Duméril

T. clara Loew. Duck Brook; Bar Harbor, Aug. 18.
T. elata Fab. Narrows, July 27.
T. rotundicornis Loew. S. W. Harbor, July 15.
T. triangularis Loew. Witch Hole Pond; Eden, July 30–Aug. 7.
T. unicolor Loew. S. W. Harbor; Bar Harbor, July 15–Aug. 10.
T. vicina Macq. S. W. Harbor; Eden, July 11–Aug. 11.

Dictyomyia Crossor


Euthycera Latreille

E. borealis Cress. Station F130, A scarce form.

Elgiva Meigen

E. lineata Fall. Salisbury Cove, July 8–24 (Sanford). Common in meadow south of the town, Aug. 7–11.

Trypetoptera Hendel


Limnia Desvoidy


Chyromyidae

This small family is said to frequent the sea coast.

Chyromya Desvoidy

Psilidae

The larvae live in the roots of plants and the adults are found in moist shady places.

LOXOCERA Meigen

L. cylindrica var. pleuritica Loew. Echo Lake; Long Pond; Witch Hole Pond, June 17–July 30.

PSEUDOSILIA Johnson

P. collaris Loew. Upper Hadlock Pond; Bar Harbor, June 11–Sept. 11.
P. perpolita Johns. Duck Brook; Sand Beach near Great Head, Sept. 11–13.
P. n.sp. of an aber. of fallax Lw. Sweeping sweet fern, Sept. 6.

PSILA Meigen


CHYLIZA Fallén

C. nubecula Johns. Material from Mt. Desert was used in naming this species. See B.S.N.H. Occasional papers, Vol. 5, p. 11–17, Nov. '21.

COELOPIDAE

In seaweed washed up on the shore is where these live. The only North American genus.
COELOPA MEIGEN


ORYGMA MEIGEN

O. LUCTUOSA MG. Four individuals reared from seaweed from S. W. Harbor and said to be the only ones taken in this country. One in cabinets and rest in U.S.N.M. This is a common fly in Russia and was evidently first brought to the harbor in a vessel in the early shipping days.

HELomyzidae

The larvae are scavengers and live in decaying vegetable matter. Adults may be trapped in moist places with vegetable bait.

allophyla loew

A. LAEVIS LOEW. Common, June 11–Sept. 7.

suillia r. desvoidy (Helomyza anet.)

S. APICALIS LOEW. S. W. Harbor; Long Pond; Echo Lake, July 15–Sept. 7.
S. LONGIPENNIS LOEW. Echo Lake, July 17.
S. PLUMATA LOEW. Bar Harbor, July 20.

oecothea haliday

O. FENESTRALIS FALL. Laboratory, Oct. 8.

scoliocentra loew

S. FRATERNAL LOEW. Penikese, July 17.
S. HELVOLA LOEW. Echo Lake; N. E. Harbor; Bar Harbor, July 12–Sept. 11.
S. TINCTA WALKER. One specimen in laboratory, July 26.
A. *helvola* Loew. Found in shady damp places where there is decay.

*Tephrochlamys* Loew


*Neoleria* Malloch

N. *leucostoma* Loew. Bar Harbor; Echo Lake, June 21–Sept. 11.

**Dryomyzidae**

The larvae being aquatic indicates that swampy places that have some shade would be where to collect adults.

*Dryomyza* Fallén

D. *dayi* Cress. Echo Lake, July 12.

*Neuroctena* Rondani


**Muscidae**

The collecting in this family is not particularly pleasant because it leads one into handling more or less filth. The larvae almost without exception breed in decaying matter of all kinds.

*Eugnacephala* Johnson

E. *salsa* Johns. Laboratory, Aug. 1–19.

*Scopeuma* Latreille

S. *furcata* Say. Bar Harbor; N. E. Harbor (Minot), June 8–July 16; mating pair, Oct. 30 (Br.).
S. lutaria Fall. Green Mt., July 25.
S. merdaria Fab. S. W. Harbor, July 18.
S. nigripes Holmgren. Station F339.
S. suilla Fab. Bar Harbor; Echo Lake; Green Mt., June 8–July 25.

**Hydromyza Fallén**


**Cordilura Fallen**

C. alberta Curr. Come into lab., but not common.
C. carbonaria Walk. Echo Lake, June 17.
C. praestata Loew. Station F420.

**Cordylükella Malloch**

C. nebulosa Coq. Laboratory, July 26.

**Ceratinostoma Mead**


**Trichopalpus Rondani**


**Achaetella Malloch**

BIOLOGICAL SURVEY OF

PARALLELOMMA Becker

P. munda Loew. Station F418.

AMERICINA Malloch


ORTHACHETA Becker (Orthoacta anet.)


AMAUROSOMA Becker

A. brunneicosta Johns. Echo Lake, June 27.

FUCELLIA R.-Desvoidy


ANTHOMYIA Meigen


EUSTALOMYIA Kowarz

E. brixia Walk. N. E. Harbor, July 16 (Minot).

HYDROPHORIA Desvoidy

H. uniformis Mall. Salisbury Cove, Aug. 11.
H. ambigua Fall. Bar Harbor; Echo Lake, June 14–July 20.

PROBOSCIMYIA Bigot

Pegomya Desvoidy

P. affinis Stein. (P. vicina St., not Lint.). N. E. Harbor, Sept. 24 (Minot).


P. calyptrata Zett. Echo Lake, June 17.


P. fringilla Mall. Laboratory, Aug. 1. Station 209.

P. fuscofasciata Mall. Bar Harbor; Echo Lake, June 13–Sept. 7.

P. geniculata Bouche. Bar Harbor; Echo Lake, June 7–July 12.

P. hyoscyami Panz. (P. vicina Lint). Common, June 7–July 3. The larva mines the leaves of beets and dock.

P. juvenilis Stein. Eagle Lake; Witch Hole Pond, July 18–30.

P. lipsia (Wlk.). These flies come into the lab. in Oct. They frequently carry Hesperochernes tamiæ Beier attached to their legs. I have seen one fly with two and one with three attached. It is the first record for New England for these Pseudoscorpiones.

P. littoralis Mall. Long Pond; Bar Harbor; Green Mt., July 16–24.

P. luteola Mall. Echo Lake; Bar Harbor, July 12–Sept. 7.

P. rubivora Coq. Station F173.


P. xiritarsus Zett. Bred from Chenopodium, June 3–6 (Br.).

Hammomya Rondani

H. marylandica Mall. S. W. Harbor; Echo Lake, June 16–17.

Egle Desvoidy

E. muscariæ Fab. Station F241.
P. aestiva Meig. S. W. Harbor, July 11.
P. cinerella Fall. Echo Lake; Salisbury Cove, July 12–25.
P. latipennis Zett. Station F405.

Pycnoglossa Coquillett

P. flavipennis Fall. Laboratory, Aug. 18.

Prosalpia Pokorny

P. angustitarsis Mall. Common, July 12–25.
P. silvestris Fall. S. W. Harbor; Bar Harbor, July 16–21.

Eremomyia Stein

E. vernalis Huck. Station F245. Scarce.

Hylemya Desvoidy

H. fugax Meigen. Section 22, Aug. 6.
H. geniculata Bouché. Station F418.
H. innocua Mall. Echo Lake; Eagle Lake; Bar Harbor, July 12–Aug. 16.
H. lascivia Zett. Station F420.
H. megacephala Mall. Bar Harbor (Br.), Apr. 25.
H. pluvialis Mall. S. W. Harbor, July 13.
H. spizellae Huck. Corfield at melon bait, June 22.
H. trichodactyla Rond. S. W. Harbor; Bar Harbor, July 11–19.
H. sp. Around Breakneck beating catkins, Apr. 25, F300.

**Musca Linnaeus**

M. domestica Linn. House fly. Not common, July 10–Sept. 22. This is the fly that gets the blame for man’s unsanitary habits.

**Orthellia Desvoidy**

O. caesarion Meig. S. W. Harbor; Eden; Narrows, July 23–Sept. 12.

**Pyrellia Desvoidy**


**Morellia Desvoidy**


**Lispe Latreille**

L. johnsoni Aldr. Newport Cove; Great Head, Sept. 13.
L. uliginosa Fall. Bar Harbor, June 13–Aug. 29.
L. sp. From swallow’s nest (Br.), June 1, ’38.

**Mesembrina Meigen**

M. latreillei Desv. On lab window, Sept. 22.

**Hoplogaster Rondani**

SCHOEINOXYZA Haliday

S. dorsalis Loew. S. W. Harbor, June 16.
S. litorella Fall. Salisbury Cove; Bar Harbor, July 12–Sept. 13.

MACROCOENOSIA Malloch


COENOSIA Meigen

C. tigrina Fab. Laboratory, July 10.

LIMOSIA Desvoidy

   Station F340, Station F405.
L. nigrescens Stein. S. W. Harbor; Tremont; Echo Lake;
   June 20–Oct. 3.
L. nudiseta Loew. Bar Harbor, Sept. 11.

LISPOCEPHALA Pokorny

L. alma Meig. S. W. Harbor, Sept. 6.
L. alma var. pallipalpis Zett. Echo Lake; Eagle Lake, July
   12–18.

MACRORCHIS Rondani


TETRAMERINX Berg

DIALYTA Meigen


LIMNOSPILA Schnabl

L. albifrons Zett. Salisbury Cove; Narrows; S. W. Harbor, July 25–Aug. 23.

AZELIA R.-Desvoidy


FANNIA R.-Desvoidy

F. canicularis Linn. Little house fly. Common, June 20–Sept. 22.
F. depressa Stein. S. W. Harbor, Aug. 22.
F. flavibasis Stein. Duck Brook, July 30.
F. fuscula Fall. Echo Lake; Bar Harbor, July 12–22.
F. kowarzh Verr. Jordan Pond; S. W. Harbor, June 10–18.
F. minutipalpis Stein. S. W. Harbor; Long Pond; Bar Harbor, June 16–Sept. 9.
F. scalaris Zett. S. W. Harbor; Salisbury Cove, June 20–July 19.
F. serena Fall. Echo Lake; S. W. Harbor; Eagle Lake, July 12–30.

COELOMYIA Haliday

F. subpellucens Zett. S. W. Harbor (Johnson) June 25.

LIMNOPHORA Desvoidy

L. aerea Fall. S. W. Harbor, June 21.
L. alticola Mall. Bar Harbor, June 7.
L. caroli Mall. Duck Brook; Green Mt.; Echo Lake, June 13–July 17.
BIOLOGICAL SURVEY OF

L. CLINICOLA Mall. Echo Lake; S. W. Harbor, June 17–20.
L. FATIMA Huck. Sea Wall Bog F375. One specimen.
L. NABONA Walk. Highbrook Rd., sweeping, Sept. 5.
S. SUSPECTA Mall. Bar Harbor; Echo Lake, June 15–17.
S. TETRACHAETA Mall. Duck Brook; Bar Harbor, June 15–July 30.

GRAPHOMYIA R.-Desvoidy


MYOSPILA Rondani

M. MEDITABUNDA Fab. Eagle Lake, July 19.

MYDAEA R.-Desvoidy

M. HIRTVENTRIS Mall. Echo Lake; S. W. Harbor; Bar Harbor, July 12–Aug. 16.
M. NEGLECTA Mall. Hunters Beach Br.; Laboratory, June 19–Aug. 8.
M. OCCIDENTALIS Mall. Bar Harbor; N. E. Harbor, June 7–Aug. 15.
M. PAGANA Fab. Bar Harbor, June 7.
M. WINNEMANNA Mall. Corfield at melon bait, July 22.

LASIOPS Meigen

L. LATIPENNIS Mall. S. W. Harbor, June 21, 1921.
L. MACULIVENTRIS Mall. Laboratory, Oct. 10.
L. SPINIGER Stein. Echo Lake; S. W. Harbor, June 17–Aug. 23.
L. SEMICINEREUS Wied. One specimen on lab. window, Aug. 21.
THE MOUNT DESERT REGION

Alloeostylus Schnabl


Muscina Desvoidy

M. assimilis Fall. Record of capture lost.
M. stabulans Fall. Large numbers reared from Malacosoma americana caterpillars, July 4, ’34.

Bigotomyia Malloch

B. houghi Stein. Echo Lake; Bar Harbor, July 17–Aug. 17.

Dendrophaonia Malloch

D. hilariformis Stein. One specimen at Witches Hole, Aug. 27.

Platycoenosia Strobl


Ophyra Desvoidy


Helina Desvoidy

H. johnsoni Mall. S. W. Harbor, June 8.
H. lucorum Fall. Common, June 8–Aug. 21.
H. pectinata Johan (H. mimetica Mall.). Common, June 7–July 22.
H. troene Walk. New Mill Meadow, Oct. 3.

Phaonia Desvoidy

P. curvipes Stein. Eagle Lake; Long Pond, July 18–Aug. 21.
P. errans var. completa Mall. N. E. Harbor, June 26; Bar Harbor, Sept. 10.
P. fusca Stein. S. W. Harbor, Sept. 6.
P. solitaria Stein. Station F220.

Pararicia Brauer and Bergenstamm


Hydrotæa R.-Desvoidy

H. armipes Fall. Salisbury Cove, July 24.

Herbecnema Schmahl

H. affinis Mall. Bar Harbor; Echo Lake, June 7–17.
H. umbratica Meig. Station F235.

Phyllogaster Stein

P. cordyluroides Stein. Salisbury Cove; Narrows, July 24–27.

Pogonomya Rondani

P. flavipennis Fall. Witch Hole Pond; S. W. Harbor, June 13–July 30.
P. flavinervis Mall. S. W. Harbor, June 22–24.
P. proboscidalis Mall. Echo Lake, July 12.

Stomoxys Geoffroy

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Haematobia St. Fargeau and Serville

Metopidae. The Flesh Flies

Metopia Meigen
M. leucocephala Rossi. Long Pond; S. W. Harbor, July 16–Aug. 22.
M. signifera Meig. Laboratory, July 18.

Brachycoma Rondani

Gymnoprosopa Townsend
G. polita Town. One taken, record of capture lost.

Pachyophthalmus Brauer and Bergenstamm

Wohlfahtia Brauer and Bergenstamm

Senotania Macquart

Amobia Desvoidy
A. signata Meig. Sargent Drive, Aug. 5.

Cynomya Desvoidy
C. cadaverina Desv. S. W. Harbor; Bar Harbor, June 22–July 15.

Calliphora Desvoidy. Blue-bottle flies
BIOLOGICAL SURVEY OF

C. vomitoria var. nigribarris Shan. Common, July 11–Sept. 22.


Phormia R.-Desvoidy

P. terraenovae Desv. Bar Harbor; Salisbury Cove, July 22–Aug. 5.

Protocalliphora Hough

P. splendida form sialia Shan. & Dobro. S. W. Harbor, June 26. The larva is parasitic on nestling birds.

Lucilia Desvoidy. Green-bottle flies

L. illustris Meig. Several taken at Section 22, Aug. 6; Section 26 on Spirva, July 5, and Somesville, Sept. 15.

Pollenia R.-Desvoidy. Cluster fly

P. varia Meig. Stations F218 and F283.
P. sp. A specimen with the apical cell petiolate. Penikese, June 19.
P. sp. On catkins, Apr. 25; Breakneck Dr., June 2.

Opsodexia Townsend


Helicobia Coquillett


Agria R.-Desvoidy

A. affinis Fall. Echo Lake, July 12.
SARCOPHAGA Meigen

S. herminieri Desv. Echo Lake; S. W. Harbor, June 17–Sept. 6.
S. scoparia Pandell. Station F31. Laboratory, Sept. 30.
S. scoparia var. nearctica Par. S. W. Harbor; Echo Lake; Witch Hole Pond, June 21–Sept. 8.
S. sp. Corfield, Aug. 10.

OESTRIDAE. The Bot Flies

CEPHENOMYIA Latreille

Also spelled CEPHALEMYIA, CEPHALOMYIA, CEPHENOMYIA, CEPHALONOMYIA and CEPHALONOMIA by various authors.

C. sp. One of several pupal cases taken from the sinuses of a deer in May, ’44. The fly has never been seen here either by Dr. Brower or the author, although most carefully sought. The flies must be numerous.

TACHINIDAE

The Tachinids are, insofar as known, all parasitic on other insects, and besides being most beneficial in keeping the insect life in balance, are among the most interesting to collect and study. While, of course, the usual methods of sweeping, etc. are used in this family, I particularly recommend rearing, for in that way one gets perfect specimens and complete records.

Cylindromyia Meigen

C. dosiades (Walk.). Bar Harbor; Eden, July 22–Sept.

Argentoepalpus Townsend


Eutrichogena Townsend


Archytas Jaennicke

A. californica Wlk. Section 14 on Solidago, Aug. 11; New Mill Pd., Aug. 29; Stations F260 and F308.

Pararchytas Desvoidy

J. decisa Walk. Echo Lake; S. W. Harbor; Bar Harbor, July 12–Sept. 11.

Rhachogaster Townsend

R. dakotensis var. orientalis Town. S. W. Harbor, June 20–Sept. 6.
R. hispida Toth. Record of capture lost.
R. montana Town. S. W. Harbor, June 20–July 15.
R. piceifrons Town. Station F150.

Arctophyto Townsend

A. n.sp. Reared from larch, June 22, '43.
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CYRTOPHELLOBERA Rondani
C. horrida Coq. S. W. Harbor; N. E. Harbor, June 21–Aug. 11.

Gymnophania Brauer and Bergenstamm

Eulasiona Townsend

Lydina Desvoidy

Myiophasia Brauer and Bergenstamm

Linnaemya Desvoidy
L. haemorrhoidalis Fall. (L. picta Meig.). Common July 11–Sept. 6.

Mericia Desvoidy
M. arcuata Toth. Bar Harbor, June 7–21.
M. nigropalpis Toth. Long Pond, Aug. 21, F214.

Rhamphinina Bigot
R. confusa West. Station F215.
R. dubia West. Station F148.
R. harpasa Walk. Common, June 7–Aug. 14. The larva is parasitic on white grubs, the larvae of the May beetles (Phyllophaga).
R. neotibialis West. Station F261.
D. Futulis West. S. W. Harbor; Long Pond; Salisbury Cove, July 16–23.


G. Dubia West. S. W. Harbor, July 19, 1923.
G. fuliginosa Desv. Common, June 7–Sept. 10. Ex. currant fruit (Br.).

C. diversa Loew. Bubble Brook on blackberry blossoms, June 15.
C. occidua Walk. Common, June 18–Aug. 16.

Trichoclytia Townsend


Alophora Desvoidy
P. aeneoventris Will. Common, June 25–Aug. 16.

Voria Desvoidy
V. Americana V. d. W. Bar Harbor; Narrows, June 21–Aug. 11.

Cryptomeigenia Brauer and Bergenstamm
Clistomorpha Townsend


Eutrixa Coquillett


Phrynofrontina Townsend


Blondelia Desvoidy


Tritaxis Macquart


Winthemia Desvoidy


Compsilueia Boučé


Doryphorophaga Townsend

Phorocera Desvoidy

P. coccyx Aldr. & Webb. Duck Brook, Sept. 11.
P. hamata Aldr. & Web. Bar Harbor, June 12 (Br.).
P. sp. Bred from pitch pine sawfly material, June 21 (Br.).

Gymnochaeta Desvoidy


Pseudoantha Townsend

P. pristis Walk. Salisbury Cove; Eagle Lake, July 15–18. In U.S.N.M.

Nemorilla Desvoidy


Zenillia R.-Desvoidy

Z. (parexorista) affinis Fall. S. W. Harbor, June 16.
Z. (eusisyropa) blanda O. S. Green Mt.; Penikese, July 6–Aug. 17. Bred from *Depressaria* infesting cow parsnip.
Z. (parexorista) cheloxiae Bond. Penikese, July 12.
Z. eudryae Town. X. E. Harbor, July 13 (Minot).
Z. (parexorista) confinis Fall.
Z. futilis O. S. Station F268.
Z. helvixa Coq. S. W. Harbor; Penikese, Aug. 11–22.
Z. (phyryxe) vulgaris Fall. Penikese; Witch Hole Pond, July 23–Sept. 11.

Gonia Meigen

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Spallanzania Desvoidy


Peleteria Desvoidy

P. confusa Curt. Echo Lake; S. W. Harbor; Bar Harbor, July 12–Sept. 11.
P. iterans Walk. (P. tessellata of authors). S. W. Harbor, Sept. 6.

Microphthalmia Macquart

M. disjuncta Wied. Witch Hole Pond, Sept. 11.

Blepharigena Rondani


Leschenaultia Desvoidy

L. exul Town. Taken singly in various places, June.
L. jurinoides. Pars sphinx pupae, May 30. In U.S.N.M.

Phyllomyia Townsend

P. assimilis Town. This is Hypostena floridensis of authors not Townsend. Station F341.
P. columbia Curran. Pars. Ancylis comptana, June 10 (Br.).
P. polita Coq. Long Pond, July 16.

Eubrachymera Townsend


Spathimeigenia Townsend

S. aurifrons Curt. Bred from Neodiprion pini-rigidac, July 7 (Br.).
S. spinigera Town. Bred from lepidoptera larva, July 30.
Wagneria Desvoidy

W. helymus Walk. Beating spruce at Sea Wall, Sept. 22.

Sturmia Desvoidy

S. incompta v. d. W. Bred from Sphingidae pupae, July 13 (Br.).

Schizotachina Walker

S. convecta Walk. Salisbury Cove, Aug. 9, 1926.

Achaetoneura Brauer and Bergenstamm

A. aletiae Riley. Green Mt., July 25.
A. samiae Webber. In '37 and '38 (Br.) reared ex Samia cecropia.
A. schizurae Town. Lives on hill hovering in the woods, Aug. 3.
A. tenthredinidarum. Parasitizing Lygaeonematus ericksonii, Aug. 8, '27, Sahnan.

Exorista Meigen

E. melia Walk. Laboratory, June 22–Sept. 3.

Chaetopherps Coquillett

C. setosa Coq. S. W. Harbor, Sept. 3.
Anachaetopsis Brauer and Bergenstamm


Celatoria Coquillett


Elodia Desvoidy

E. barbata Coquillett (Methypostena). June 11 (Br.).

Bessa Desvoidy


Phytomyptera Rondani

P. leucoptera Johns. S. W. Harbor, July 26–29, bred from the cherry “ugly-nest” moth (Archips cerasivorana). Bar Harbor, Aug. 6, bred from the “oak ugly-nest” moth (Archips fervadona).

Actia Desvoidy

A. palloris Coq. N. E. Harbor, July 6 (Minot).

Psalidopteryx Townsend

E. floridensis Townsend. Long Pond; Green Mt.; Bar Harbor, June 16–Aug. 17.

Lispidea Coquillett
L. sp. pars. *Recurvaria thujella* in U.S.N.M.

Plectops Coquillett
P. usitata Coq. Gt. Heath (Br.) on terminal webbed leaves of willow. This is an unusual species which is apparently quite rare and valuable. In U.S.N.M.
P. melissipoda Coq. Laboratory, July 15.

Dexodes Brauer and Bergenstamm (*Nathelairia*)
N. aurifrons Coq. Bred from willow sawfly material, July 19 (Br.).
N. chaetoneura Coq. Same as above, Aug. 10.

Ochrocera Townsend
O. vaginalis Town. Bar Harbor, Aug. 10.

Spathidexia Townsend
S. dunningi Say. Sweeping at the Tarn, May 23.

Clausicella Rondani
C. tarsalis (Coq.). S. W. Harbor, Aug. 4. Scarce.

Lixophaga Townsend
L. gen. sp. near Bar Harbor, June 8, '36. Reared (Br.) ex sawfly.

Lydella Desvoidy
L. myoidea Desv. One specimen at Witches Hole, Aug. 27.
Leskiomima Brauer and Bergenstamm

L. n.sp.  Sea Wall, Aug. 3, '43, one specimen.

Thelaira Desvoidy


Genea Rondani


Phyllophilopsis Townsend


Pupipara

Hippoboscidae

Ornithoica Rondani

O. confluenta Say.  One taken from sparrow and three from robin that flew into Laboratory, Aug. The most widely recorded species.

Ornithomyia Latreille

O. fringillina Curtis (O. pallida Say).  Bar Harbor, July (Moore). Frequents song and chipping sparrows, junco, robin, etc.

O. anchineura Speiser.  On catbird, robin and many other birds.

Ornithoponus Aldrich

O. americana Leach. Frequents great horned owl, red-shouldered hawk, ruffed grouse, etc. Widely distributed.

Ornithoctona

O. strigilecula Ferris.  Rose-breasted grosbeak and others.

Melophagus

Melophagus Latreille

M. ovinus Linn.  The Sheep tick is on the few sheep here.
Order SIPHONAPTERA

Siphonaptera. Fleas


Dolichopsyllidae

Orchopeas Jordan

O. leucopus Baker. Bar Harbor, May 28, on white-footed mouse (Br.).

Opisodasys Jordan

O. sp. Bar Harbor, Nov. 10, red squirrel.
O. exoplus Roths. On Glaucomys sabrinus, flying squirrel, Bar Harbor, Sept. 7 (Br.).

Ceratophyllus Curtis

C. sp. Bar Harbor, May 14, on hermit thrush (Br.).

Hystrichopsyllidae

Peromyscopsylla I. Fox

P. sp. Bar Harbor, Aug. 17, on red-backed mouse (Br.).

Ischnopsyllidae

Myodopsylla Jordan and Rothschild

M. insignis Roths.? Bar Harbor, Sept. 11, on a bat (Br.).

Pulicidae

Xenopsylla Glinkiewicz

Xenopsylla? Bar Harbor, Oct. 13, on red squirrel.

Ctenocephalides Stiles and Collins

C. canis Curtis. Bar Harbor, Aug. 30 and Sept. 9, on dog.
C. felis Bouché. Bar Harbor, Aug. 19, on man (Br.).
Order HYMENOPTERA

Argidae

A. macleayi Leach. Bar Harbor; Green Mt.; N. E. Harbor, June 13–Aug. 23. The larva feeds on wild cherry, birch, mountain ash, etc.
A. pectoralis Leach. Echo Lake; Eden, June 27–July 13. The larva feeds on birch.
A. scapularis Klug. Eden, July 15. The larva feeds on white birch and elm.
A. sp. Eden, July 12.

Sterictiphora Billberg

S. zabriskei W. & M. Reared ex Portulaca oleracea. Aug. 16 (Br.).

Dipronidae

Monoctemus Dahlbom

M. melliceps Cresson? Bar Harbor, July (Br.), about Juniperus communis.

Neodiprion Rohwer

N. sp. About Juniperus communis, May 15 (Br.).
N. sp. Bred from red spruce (Pinus rubens), Aug. 27 (Br.).
N. banksianae Roh. Reared from Pinus rigida, Oct. 13, '38
Diprion Schrank

D. hercyniae Htg. Bar Harbor, July 19–Aug. 8 (Br.).
D. simile Htg. Introduced Pine Sawfly. Reared from Pinus strobus, May 15–June 8 (Br.).

Crabronidae

Crabro Geoffroy (Cimex Olivier)

C. americanus Leach. American sayfly or "Willow worm." Bar Harbor; Corfield; Green Mt. summit; Eden, July 13–Aug. 15. The larva feeds on willow, poplar, elm, etc. The large white larva is conspicuous on willow.
C. americanus var. albus (Nort.). Seal Cove (Sanford); Salisbury Cove; Corfield, June 20–July 24.
C. americanus var. laportei LePel. Eden, July 24.

Trichiosoma Leach

T. triangulum Kby. Newport Cove; Great Head; Corfield; Breakneck Road; Eden, June 16–July 23. The larva feeds on willow, cherry, alder, etc.
T. crassum Kby. Mt. Desert (Br.), June 22. One in U. S. N. M.

Pamphilidae. Leaf-rolling sawflies

Acantholyda A. Costa

A. lyda brunniceps Cress. Nurseries July 6 (Salman).
A. ochrocera (Nort.). Bar Harbor (Dr. Thorndike).
A. pini Roh. Reared from white pine, Aug. 2 (Br.).
A. pullata Cress. X. E. Harbor, Aug. 10 (Minot).

Cephalcia Panzer

C. fascippennis Cress. Bar Harbor, June 6 (Br.).
C. n.sp. Salisbury Cove, July 12.

Pamphilus Latreille

P. ochreatus Say. Bar Harbor, June 7 (Br.).
P. pallimacula Nort. S. W. Harbor, July 15.
P. rufofasciatus Nort. Newport Cove; Great Head, July 11.
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XIPHYDRIDAE

XIPHYDRIA Latreille


SIRICIDAE. The Horn Tails

SIREX Linnaeus

S. JUVENCUS CYANEUS Fab. Bred from spruce at Corfield Sept. 9-17.

UROCEBUS Geoffroy

U. ALBICORNIIS (Fab.). West side of the Island in July. The larva bores in conifers and a good way to take the adults is to go where spruce is being cut for pulp. West side of Island June 15—July 30. Reared from larch June '43. Its parasite is RHYSSA LINEOLATA (Kby.).


XERIS Costa

X. SPECTRUM (Linn.). One specimen on cord wood at Eden, June 24, '37. Rare.

X. CAUDATA Cresson? Bar Harbor, July 28 (Br.).

TREMEX Jurine

T. COLUMBA (Linn.). On August 31, 1936, I found a partially dead maple tree in which dozens of this species were ovipositing as were MEGARHYSSA ATRATA, M. NORTONI, and among them one M. GREENCI.

CEPHIDAE

JANUS Stephens


TEETHREDINIDAE. Typical sawflies

HEMITAXONUS Ashmead

H. ALBIDOPICCTUS Nort. Echo Lake; Eagle Lake, June 17—July 18.
H. dubitatus Nort. Bar Harbor, June 15. The larva feeds on the sensitive fern (*Onoclea sensibilis*).

**Aneugmenus** Hartig

A. flavipes Nort. Jordan Pond; S. W. Harbor, June 10–July 15. The larva feeds on brake (*Pteris aquilina*).

**Strongylogaster** Dahlbom

S. soriculatipes Cress. Bar Harbor (Br.), June 3.

**Dolerus** Jurine

D. albifrons Nort. Seal Cove, June 20.
D. sp. S. W. Harbor, June 21.

**Caliooa** O. Costa

C. cerasi Linn. Reared from pear (Br.) June.

**Metallus** Forbes

M. rubi Forbes. Reared from blackberry (Br.) Aug. 29.

**Fenusa** Leach


**Trichiocampus** Hartig

T. gregarius Dyar. Bar Harbor, June (Br.).

**Hemichroa** Stephens

H. americana Prov. Seal Cove, June 20 (Sanford).
H. amelanchieridis Roh. Bar Harbor, June 12 (Br.).

**Pristiphora** Latreille

P. bivittata Nort. S. W. Harbor, July 13. The larva feeds on *Spiraea*.
P. ericksonii Hartig. Raised by Salman from larvae Aug. 24 and of which some were parasitized by (*Achactoneura tenthredinidarum* Town). Bred from larch Aug.

P. geniculata Hartig. Abundant on mountain ash, June to August.


P. sp. near pallicoxa Roh. S. W. Harbor, July 29.


**Pachynematus** Kobow

P. corniger Nort. Echo Lake; Seal Cove; Bar Harbor, June 20–Aug. 18.

**Pickonema** Ross

P. alaskensis Roh. Bar Harbor on spruce, August.

P. dimmockii Cress. Larvae on spruce.

**Pteronidea** Rohwer

P. mendica Walsh. S. W. Harbor, Sept. 5 (Alexander).

P. odorata Dyar. Bar Harbor (Br.) June 14.

P. populi Marlatt. Occurs on poplar.

P. ribesii Scop. On currants, as name indicates, July 15.

P. similaris Nort. S. W. Harbor, June 11.


**Pontania** Costa

P. sp. S. W. Harbor, July 11.

**Euura** Newman


E. pisum Walsh. S. W. Harbor, July 11. The larvae form subsphaerical galls on the under side of the leaves of willow.

E. pomum Walsh. Willow apple gall. Bar Harbor; Salisbury Cove (Sanford). The larvae form galls on the leaves of willow.

Empria Lepeletier

E. multicolor Nort. Echo Lake; Seal Cove; S. W. Harbor, June 20–July 17. The larva feeds on white and yellow birch.

Ametastegia A. Costa

A. glabra Fallén. S. W. Harbor, July 11. The larva feeds on dock (Rumex).

Allantus Panzer

A. cinctus Linn. Reared from cultivated rose (Br.). June.

Macremphytus MacGillivray

M. intermedius Dyar. Bar Harbor (Br.), June and July.

Taxonus Hartig

T. apicalis Say. Upper Hadlock Pond; Bar Harbor, S. W. Harbor, June 10–July 15. The larva feeds on Rubus.
T. terminalis Say. Echo Lake; S. W. Harbor, June 22–July 15.

Dimorphopteryx Ashmead

D. oronis MacG. Salisbury Cove, July 25.
D. pinguis Nort. Salisbury Cove, July 14. The larva feeds on birch, cherry, maple, etc.
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BLENNOCAMPA Hartig


LAGIUM Konow


AGLOSTIGMA Kirby

A. DELTA Prov. Bar Harbor, June 28 (Br.).

TENTHREDO Linnaeus

T. MELLICOXA Prov. Long Pond; Bar Harbor, July 16–18.
T. MUTANS Nort. S. W. Harbor, July 15–18.
T. RUFOPECTUS Nort. N. W. Harbor, July 1–8 (Minot).
T. SECUNDA MacG. S. W. Harbor; Echo Lake, July 13–17.
T. TRICOLOR Nort. S. W. Harbor, July 15.
T. VERTICALIS Say. S. W. Harbor; Echo Lake; Bar Harbor, June 21–July 26.

PACHYPROTASIS Hartig

P. RAPAEE Linn. Echo Lake, July 12.
MACROPHYA Dahlbom

M. formosa Klug? Bar Harbor, June 10 (Br.).
M. incerta Nort. Jordan Pond; Echo Lake; S. W. Harbor, June 10–July 10.
M. nigra Nort. Echo Lake, July 12.

Braconidae

Coeloides Wesmael

C. sp. Seal Cove Brook, Sept. 8.
C. sp. Hulls Cove. Pars. scolitid ex Pinus resinosa Oct. (Br.).

Atanycolus Förster

A. sp. Bred from Saperda concolor gall, June 18 (Br.).

Spathius Nees

S. sp. Echo Lake; S. W. Harbor; Bar Harbor, June 15.

Iphiaulax Förster

I. eurygaster Brulle. Bred from oak twig pruner, June 6 (Br).

Microbracon Ashmead

M. montowesi Vier. Pars, of Paraclemensia acerifoliella. Mt. Desert, May 29 (Br.).
M. nanus Prov. S. W. Harbor, June 27.
M. pini Mues. Long Pond, June 17. Parasitic on the white pine weevil (Pissodes strobi).
M. n.sp. Muesebeck. Bar Harbor, Aug. 16.

Heterospilus Haliday

H. leptostylæ Roh. Pars, of borers in cherry. Mt. Desert, June 28 (Br.).
H. sp. Hatched ex larch July 1, 1944. In U. S. N. M.

Exothecus Wesmael


Phanomeris Förster


Noserus Förster

N.sp. Station F179, Aug. 24.
B. secundus Vier. Pars. of Phyllocoma nemorata Mt. Desert, June 21–28 (Br.). Bred from Bucculatrix canadensisella.

Rhysipolis Förster


Oncophanes Förster

O. betulæ Mües. Type locality. Reared from Phyllocoma nemorata, June 8, '33 (Br.).

Rogas Nees (= Aleides Wesmael)

R. canadensis (Cress.). Pars. on Catolata relicta and Phyllocoma nemorata. Mt. Desert, July 13–19 (Br.).
R. n. sp. Mt. Desert on pine, June 18 (Br.).

Chelonus Panzer

C. basilaris Say. Echo Lake, July 17.
C. fissus Prov. Narrows, July 27.
S. sericus Say. Bar Harbor; Salisbury Cove, July 24–Aug. 16.
S. sp. Salisbury Cove, Aug. 11.
S. sp. Pars. on Arbor vitae leaf-miners. Mt. Desert, July 25.
Ascogaster Wesmael

A. quadridentata Wesm. Reared (Br.). Pars on clothes moth. Nov.
A. n. sp. Tremont, June 20 (Br.).

Mirax Haliday

M. n. sp. Hunters Beach (Br.). Reared from Lithocolletis picturatella in Myrica cerifera.

Dinarmus Thomson

D. n. sp. Hatched four from larch June 30. Two in U.S.N.M.

Halticoptera Spinola


Microgaster Latreille

M. brevicauda Prov. Salisbury Cove; S. W. Harbor, July 14, 19.
M. canadensis Mues. Pars. on leaf-rollars of poplar. Mt. Desert July 11 (Br.).
M. melligaster Prov. (rubricoxa Prov.). Common on the marshes at the Narrows, July 27.
M. schizurae Mues. Pars. on the moths. Mt. Desert, June 27 (Br.).
M. n. sp. S. W. Harbor, May 25 (Br.).

Microplitis Förster

M. ceratomiæ Riley. S. W. Harbor; Bar Harbor, July 20–24. Parasitic on the larvae of Sphingidae, Ceratomiæ, Paonias and Sphinx.
M. sp. Pars. on Catocala antinympha. Mt. Desert, July 1 (Br.).

Apanteles Foerster

A. aristoteliae Vier. S. W. Harbor; Salisbury Cove, July 14, 15. Parasitic on Gelechia trialbamaeculella.
A. carpatus Say. Reared from swallows nest. Pars. on Tinca (Br.).
A. glomeratus Linn. Pars. on Ascia rapae. Mt. Desert, July 16 (Br.).
A. hyphantriae Riley. On poplar. Mt. Desert, July 8 (Br.).
A. melanopus Vier. Echo Lake; Salisbury Cove, June 17–July 18.
A. paralechiae Mues. Pars. on Arbor vitae leaf-miners. Mt. Desert, Aug. 5 (Br.).
A. parastichtidis Mues. Pars. on *Archips conflictana* and Arbor vitae leaf-miners. Mt. Desert, July 7 (Br.).
A. bufocoxalis Riley. Reared from fluffy egg mass, Aug. 5, on grass stem from (Bossard). One in U.S.N.M.
A. scitulus Riley. Pars. on *Apatela oblitina?* Sept. 14 (Br.).
A. thujae Mues. Type locality. Reared from Arbor vitae leaf-miner, Bar Harbor, July 15, '33 (Br.).
A. tischeriae Vier. S. W. Harbor, Aug. 11. Parasitic on *Tischeria*.
A. sp. Pars. on *Dicymolomia julianalis*, Aug. 16 (Br.).
A. n.sp. Pars. on Arbor vitae leaf-miner. July (Br.).

Agathis Latreille


Bassus Fabricius

B. bicolor Prov. Pars. on *Rhyacionia comstockiana*, July 6 (Br.). Bar Harbor; Salisbury Cove, Aug. 13–18.
B. n.sp. near bicolor Prov. Reared July 10, ex *Rhyacionia comstockiana* (Br.). In U.S.N.M.
B. brevicauda Mues. Pars. on *Coleophora* sp. *Myrica aspleni-folia* and *Coleophora cinerella*. May–Aug. (Br.).
B. calcaratus Cress. Pars on *Acrobasis comptoniella*, Aug. 5 (Br.).
B. cinctus Cress. Pars on *Coleophora cinerella*, June (Br.).
B. n.sp. Pars on Arbor vitae leaf-miner, Aug. 5 (Br.).
E. limitaris Say May 5. An early spring form.


O. lateralis Cress. Pars on Arbor vitae leaf-miner, July 24 (Br.).

O. n.sp. Pars on Recurvaria thujaella, July 13 (Br.).


E. gracile Prov. Pars on Arbor vitae leaf-miner, July, Aug. and Sept. (Br.).

E. sp. Bar Harbor, Aug. 15.


M. harrisi DeGant. Green Mt., July 25; Bar Harbor, Aug. 10.

M. uniformis Prov. Reared (Br.) May. Pars on Pacynematous alaskensis.

M. sp. Bar Harbor, June 7; Salisbury Cove, July 19.

Z. sp. Bar Harbor, June 7; S. W. Harbor, July 15.


O. fulvicollis Thoms. Pars on Chrysophora hermanella or lingulacella, July (Br.).

O. provancheri D. T. Green Mt., July 25.
O. sp. Same record as above.
O. n.sp. Pars on poplar leaf roller. July (Br.).
O. sp. near amplus Ashm. Reared (Br.) from miner on Impatiens balkamea.
O. sp. near mandibularis Gahan. Reared (Br.) Pars, miner of Delphinium, July 29.

**Meteorus Halliday**

M. communis Cress. Pars. on Gruptolitha sp. July 5 (Br.).
S. W. Harbor, July 11. Parasitic on Hadena and other moths.
M. hyphantriae Riley. S. W. Harbor; Bar Harbor, June 21–July 26. Parasitic on fall webworm, American tent caterpillar, tussock moth, etc.
M. indagator Riley. Pars. on Acrobasis comptoniella. July (Br.).
M. maximus Mues. Bred from Lepidopterus larvae from maple, June 15 (Br.).
M. niveitarsis Cress. Bred from Acrobasis comptoniella, July and Salebria contatella, Sept. 28 (Br.).
M. vulgaris Cress. Bred from Gruptolitha sp., July 5 (Br.).
Bar Harbor; S. W. Harbor, June 13–Sept. 6. Parasitic on various species of "cutworms," Agrotis ypsilou, Feltia subgothica, Lycophotia saucia, etc.

**Aphidius Nees**

A. sp. Reared from spruce tips.

**Coelinidea Vieeek**

C. sp. Echo Lake, June 17.
C.sp. S. W. Harbor, Aug. 23.
D. sp.    S. W. Harbor, July 29.

Aspilota Förster

A. petiolata Prov.? Det. C. F. W. M. Bar Harbor, June 23 (Br.).
A. sp. Det. C. F. W. M. Pars on B. canadensisella, July 1 (Br.).

Ichneumonidae


Scamrus Hartig

S. euurae (Ashm.). Reared from willow leaf gall, Aug. 12.
S. hispae (Harris). Pars, on C. salmani, R. thujaella, Dicy- 
molonia julianalis, etc., June, July and Aug.
S. pterophori (Ashm.). Reared (Br.), ex. micro lep. on white
S. sp. Salisbury Cove, July 15.

Alophosternum Cushman

A. follicola (Cush.) Bred from P. nemorata and L. coryli-
sella, June (Br.).
A. n.sp. (undescribed). Preying on P. nemorata larvae.

Calliephialtes Ashmead

C. comstockii (Cress.). Reared from Pinipestis zimmer-
manni, Aug. 16 (Br.).
C. hyalinipennis Vier. From borer infested fir, June 24–27
(Br.).

Ichneumon Linnaeus

I. macker (Cress.). Eden, Sept. 15.
I. manifestator Linn. Reared from larch, July 2.
I. mesocentrus (Grav.). N. E. Harbor (Minot); S. W. Harbor (Alexander), Aug. 23–Sept. 15.
I. pusio (Walsh.). Corfield and Penikese at light, July 30–Aug. 8.

Isenopus Förster
I. cœlebs (Walsh). Bar Harbor; S. W. Harbor, June 21–Sept. 6. Parasitic on the American tent and forest tent caterpillars, tussock moth, spruce bud worm, etc.

Tromatobia Förster
T. rufovariata (Cress.). N. E. Harbor; S. W. Harbor; Tremont, July 15–Aug. 23.

Zaglyptus Förster
Z. incompletus (Cress.). Bar Harbor, June 13–Sept. 9.

Delomerista Förster
D. novita (Cress.). Bar Harbor, Aug. 16.

Perithous Holmgren

Zabrachypus Cushman
Z. slossonae (Davis). Bar Harbor; S. W. Harbor; Echo Lake, June 13–July 17.

Oxyrrhexis Förster
O. carbonator (Grav.). Echo Lake, June 17–Sept. 23.

Polysphinx Gravenhorst
Ichneumonini

N. gen. and n.sp. Det. R.A.C. Reared from *P. nemorata* and *L. salicifoliella* (Br.).

*Coccygomimus Sausbare*

C. *aequalis* (Prov.). Bar Harbor; S. W. Harbor, Aug. 10–23. Parasitic on the tussock moth (*Hemerocampa*).

C. *aquilonicus* (Cress.). Bar Harbor, June 8–Aug. 10.

C. *nudus* Townes. Sept. 28 (Br.).

C. *pedalis* (Cress.). Corfield; Echo Lake; Eden; N. E. Harbor, June 6–Sept. 30. Parasitic on the American tent and Forest tent caterpillars (*Malacosoma*), Gypsy moth (*Porthezia*), etc.

C. *tenuicornis* (Cress.). Common, June 7–Sept. 11. Parasitic on *Aegeria*.

*Ephialtes Schrank*


*Itoplectis Förster*


I. *quadriringulatus* (Prov.). Reared from *Anchylopera sp*. June.

I. n.sp. Bar Harbor, July 5.

*Poemenia Holmgren*

P. *albipes* (Cress.). N. E. Harbor, July 12–Aug. 10 (Minot).


P. *vancouveriensis* (Prov.). S. W. Harbor, Sept. 5.

*Clistopyga Gravenhorst*

This genus is reported as parasitic on horn tails of the genera *Sirex* and *Zeris.*

R. *lineolata* (Kby.). Generally distributed in July and Aug. Reared from larch with *Urocerus albicornis*, which it parasitizes, June '43.

R. *persuasoria* (Linn.). Bar Harbor, Aug. 10.

Megarhyssa Ashmead

M. *atrata* (Fab.). Numbers were ovipositing on dead maple tree at the foot of Newport Mt. June 11. At the same time numbers of *M. nortoni* were at work as were numbers of *Tremex columba*. Generally distributed June–July.

M. *greenei* Viereck. One specimen of this scarce form was taken with those above June 11, '37.

M. *nortoni* (Cress.). Echo Lake; Bar Harbor, June 27–July 21. Numbers were ovipositing on the dead maple mentioned above. One small specimen taken June, '34. Common.

Theronia Holmgren

T. *atalantae* (Poda). Witch Hole Pond, Sept. 11.

T. *hilariis* (Say). Laboratory, Sept. 8.

Xorides Latreille (*Xylonomus* Gravenhorst)

X. *albopictus* (Cress.). Several hatching under the bark of a dead maple at the Tarn, May 23, '37. Supposed to be parasitic on *Saperda discoidea*.


Odontocolon Cashman

O. *atripes* (Roh.). Bar Harbor, June 21.

O. *aethiops* (Cress.). Bar Harbor, June 21.

O. *mellipes* (Say). Bar Harbor, June 21—Sept. 11.
O. sp. Corfield, June 15.
O. sp. Corfield, June 15.

**Coleocentrus Gravenhorst**

*C. rufus* Prov. July. Record of capture lost.
*C. rufus* Prov. var. Seal Harbor (David Rockefeller).
*C. sp.* N. E. Harbor, July 10 (Minot).
*C. n.sp.* One taken June 26 and one July 2, 1929. One in U.S.N.M. and other number 1990 in cabinet.

**Arotes Gravenhorst**

*A. amoenus* Cress. Echo Lake; Bar Harbor, June 17—July 22.
*A. vicinus* Cress. Bar Harbor, Robinson Mt. (Alexander), July 26—Sept. 3.

**Eclytus Holmgren**

*E. ornatus* Holm. Seal Cove, June 20.
*E. pleuralis* (Prov.). Echo Lake, July 18.

**Phytodietus Gravenhorst**

*P. fumiferanae* Roh. Bred from lepidopterus larvae, May 28 (Br.).
*P. vulgaris* Cress. Pars. on *Eulia pinatubana* and poplar leaf roller, June 4—July 27 (Br.). Common, July 15—Sept. 11.

**Netelia Gray**

*N. (parabatus) deceptor* (Morley). Bar Harbor, Oct. 3 (Br.).
*N. (paropheltes) barberi* (Cush.). Bar Harbor, Oct. 1 (Br.).
*N. (netelia) germinatus* (Say). Bar Harbor; Echo Lake; N. E. Harbor, June 7—July 20.
*N. (netelia) sayi* (Cush.). Bar Harbor (Br.), Nov. 5.
N. (Paropheltes) tarsata (Brischke). Bar Harbor, Aug. 29–Oct. 1 (Br.).
N sp. Aug. 18 (Br.).

**Grypocentrus Ruthe**

G. sp. Pars. sawfly on blackberry, Oct. 2 (Br.).

**Polyblastus Hartig**

P. fulvinealis Hall. Witch Hole Pond, Aug. 18.
P. pedalis (Cress.). Pars. on Croesus latilarsus (Br.). Echo Lake; S. W. Harbor, June 17–July 20.
P. tibialis (Cress.). S. W. Harbor, July 20.

**Labroctonus Förster**

L. sp. Bar Harbor; Green Mt., July 25–Aug. 18.
L. n.sp. Bar Harbor, Aug. 23 (Br.). In U.S.N.M.

**Scopius Förster**

S. analis (Cress.). S. W. Harbor; Long Pond, July 12–24.
S. subcrassus (Cress.). S. W. Harbor, June 25.

**Erromenus Holmgren**

E. dimidiatus (Cress.). Narrows; Bar Harbor; Salisbury Cove, June 9–July 23.
E. sp. near crassus (Cress.). Bred from sawfly material, May 26 (Br.).

**Tryphon Fallén**

T. davisi Tow. Bar Harbor, July 2 (Br.).

**Cosmoconus Förster**

C. canadensis (Prov.). Salisbury Cove; N. E. Harbor; Green Mt., July 19–Aug. 23.

**Exenterus Hartig**

E. affinis Roh. On pine, July 29. In U.S.N.M.
E. canadensis Prov. Reared July 29 (Br.).
Cteniscus Haliday

C. orbitalis Cress.  Echo Lake; S. W. Harbor, June 12–July 17.
C. ornatus (Walsh).  Long Pond; S. W. Harbor; Bar Harbor, June 13–Sept. 7.

Smicroplectrus Thomson

S. albilineatus Walsh.  June 15. In U.S.N.M.
S. annulipes Cress.  Record of capture lost.

Bathythrix Förster

B. triangularis Cress.  Bar Harbor, June 2 (Br.).

Mastrus Förster

M. subspinosus Prov.  Bar Harbor, June 12.

Otacustes Förster

O. crassus crassus (Prov.).  S. W. Harbor, July 30.

Isdromas Förster

I. washingtonensis Cush.  Bred from P. nemorata. May 28 (Br.).
I. sp.  Bar Harbor, Aug. 27 (Br.).

Diaglyptidea Viezeek

D. lavolei (Prov.).  Long Pond, July 16.

Gelis Thunberg

G. obscurus (Cress.).  Pars. on B. canadensiella. June 29 (Br.); S. W. Harbor, July 13.
G. tenellus (Say).  Bar Harbor; Salisbury Cove: S. W. Harbor, June 7–Sept. 3.
G. urbanus (Brues.).  Pars. on Diupirion polytomum. Anchylopera, P. nemorata. Station F290.
G. sp.  Pars. on P. nemorata.
G. sp.  Pars. on Arbor vitae leaf-miner, July 21 (Br.).
Sternocryptus Roman

S. bitinctus (Grav.). Reared (Br.) from Chrysophora lingulacella hermanella on chenopodium, Aug. 27.

Endasys Förster

E. pubescens (Prov.). General distribution June 8–July 30.
E. subclavatus (Say). General distribution July 11–Aug. 25.
E. rotundiceps (Prov.). Echo Lake, July 17.

Eriplanus Förster

E. micator (Grav.). Jordan Pond; Echo Lake; S. W. Harbor, June 10–July 16.

Phygadeuon Gravenhorst

P. americanus (Cush.). S. W. Harbor, June 27.
P. sp. Bar Harbor, June 22.
P. sp. Salisbury Cove, July 25.
P. sp. Sept. 23 (Br.).

Iselix Förster

I. sp. From weevils in blister rust pine, Sept. 14 (Br.).

Mesoleptus Gravenhorst

M. sp. S. W. Harbor, July 14.

Atractodes Gravenhorst

A. compressus (Cress.). Green Mt., Aug. 25.

Cubocephalus Ratzeburg

C. sp.  S. W. Harbor, July 30.
C. sp.  Bar Harbor, June 8.
C. sp.  Bar Harbor, Sept. In U.S.N.M.

**Aptesis Förster**

A. sp.  S. W. Harbor, June 21.
A. sp.  Mt. Desert (Br.), July 6.
A. sp.  Bar Harbor, Sept. 26 (Br.).  In U.S.N.M.

**Megaplectes Förster**

M. sp.  Bubble Pond Inlet, Station F100.

**Giraudia Förster**

G. sp.  S. W. Harbor, Sept. 8.

**Polytribax Förster**

P. *contiguus* (Cress.).  Bar Harbor; S. W. Harbor, June 22–25.
P. *crotchii* (Cress.).  Bar Harbor, May 5 (Br.).

**Rhemboius Förster**


**Demopheles Förster**


**Trychosis Förster**

T. sp.  Record of capture lost.
T. sp.  Bar Harbor, July 19 (Br.).
Gambris Förster

G. apicatus (Prov.). Bar Harbor; Narrows, July 5-27.
G. canadensis (Prov.). Mt. Desert, Sept. 8 (Br.).
G. extrematis (Cress.). Reared (Br.), July 28.
G. nuncius (Say). Witch Hole Pond, Sept. 11. Pars on *Telea polyphemus* and other large moths.
G. n.sp. near nuncius Det. R. A. Cushman 1938. Reared from *T. polyphemus*, July 16 (Br.).
G. ultimus (Cress.). Record of capture lost.
G. sp. N. E. Harbor, June 26 (Minot).

Agrothereutes Förster

A. cimbcivorus (Cush.). S. W. Harbor, July 28. Pars on *Cimex americana*.
A. lophryi (Nort.). N. E. Harbor (Minot); Bar Harbor, June 7-July 16. Pars, spruce sawfly. *Neodiprion abietis*.
A. major (Davis). Hunters Beach, Oct. 22. Reared from *Phyllotoma nemorata* (Br.), June 6-July 29.
A. sp. In U.S.N.M.

Ischnus Gravenhorst

I. atricollaris (Walsh). Bar Harbor; Eagle Lake; Echo Lake, June 11-Aug. 12.
I. sp. Bar Harbor, June 8.

Cryptus Fabricius

C. albitarsis albitarsis (Cress.). Bar Harbor; Eden, June 15-Sept. 2.
C. persimilis Cress. Narrows, June 27.

Mesotenus Gravenhorst


Echthrus Gravenhorst

M. discoidalis (Cress.). Mt. Desert (Br.), June 23.

_**Acroricus** Ratzehurg_

A. aequatus aequatus (Say). Bar Harbor; North East Harbor; South West Harbor, June 11–Aug. 10.

_**Phaeogenes** Wesmael_


P. epinotiae Cush. Record of capture lost.


P. hariolus (Cress.). Salisbury Cove, July 22.

P. sp. near hariolus (Cress.). Bred from *Acrobasis comp-toniella*, Aug. 7 (Br.).

P. hebe (Cress.). S. W. Harbor; Salisbury Cove, July 14–Aug. 10.

P. hebrus (Cress.). Salisbury Cove, July 18.

P. parvus (Prov.). Beaten from spruce, Sept. 18 (Br.).

P. vincibilis (Cress.). Echo Lake; Bar Harbor; S. W. Harbor, July 12–Aug. 10.


P. sp. Bar Harbor, June 17.

P. sp. Salisbury Cove; Bar Harbor, July 24–Sept. 10.

P. sp. Ectoparasite, June 5.

_**Centeterus** Wesmael_

C. fungor (Cress.). Bar Harbor; Salisbury Cove, July 27–Aug. 16. Pups. on spruce sawfly *Neodiprion abietis*.

_**Colpognathus** Wesmael_

C. helvus (Cress.). N. E. Harbor, Aug. 10 (Minot).

_**Dicaelotus** Wesmael_

D. sp. S. W. Harbor, Sept. 8.

D. sp. Beaten from spruce, Sept. 18 (Br.).
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PLATYLABUS Wesmael

P. clarus (Cress.).  Sept. 26 (Br.).
P. lineolatus (Prov.).  July 19 (Br.). In U.S.N.M.
P. vafier (Cress.).  Bar Harbor, June 22.
P. s.sp.  Bar Harbor, July 29.

ANISOBAS Wesmael


HOPLISMENUS Gravenhorst

H. rutilus (Cress.).  S. W. Harbor, July 29.

MELANICHNEUMON Thomson

M. brevicinctor (Say).  S. W. Harbor, Aug. 14 (Fernald).
M. disparilis (Cress.).  Mt. Desert (Br.), June 7.
M. mimicus (Cress.).  S. W. Harbor, Sept. 6.
M. nigripes (Prov.).  Bar Harbor, June 2.
M. rubicundus (Cress.).  S. W. Harbor; Bar Harbor, July 15-19.
M. subcyaneus (Cress.).  Bar Harbor, June 21.

CRATICHEUMON Thomson

C. acerbus (Cress.).  Bar Harbor; S. W. Harbor; Narrows, July 11–Aug. 18. Pars. on fall web worm.
C. paratus (Say).  Bar Harbor; Sand Beach; S. W. Harbor, June 15–Aug. 10.
C. proximus (Cress.).  N. E. Harbor, June 26 (Minot).
C. quintilis (Vier.).  Salisbury Cove; Bar Harbor, July 14–Sept. 11.
C. signatipes (Cress.).  Bar Harbor, July 24.
C. near signatipes (Cress.).  Salisbury Cove, July 17.
C. sublatus (Cress.). Salisbury Cove; Bar Harbor, July 17–Aug. 16.
C. unifasciatorius (Say). Salisbury Cove, July 14; S. W. Harbor, Aug. 22 (Fernald).
C. vesceus (Prov.). Bar Harbor; Echo Lake, June 13–17.
C. w-album (Cress.). S. W. Harbor; Bar Harbor; Echo Lake, July 20–Sept. 7.

Aoplus Tischbein

A. bioculatus (Cress.). S. W. Harbor, July 28.
A. cincticornis (Cress.). S. W. Harbor; Bar Harbor; Salisbury Cove, July 15–Sept. 6.
A. confirmatus (Cress.). N. E. Harbor, July 23 (Minot).
A. near vagans (Prov.). Bar Harbor, June 15.

Patroclus Cresson

P. montanus (Cress.). Salisbury Cove, July 23.
P. perluctuosus (Prov.). Bar Harbor, June 21.

Exephanes Wesmael

E. terminalis (Prov.). Bar Harbor, June 21.

Ectopimorpha Viereck


Pseudamblyteles Ashmead

P. comes (Cress.). Bar Harbor, July 17; Station F136.
P. comptus (Say). Aug. 27 (Br.).
P. milvus (Cress.). Sept. 25 (Br.).
P. sp. Bar Harbor, Sept. 25 (Br.).

Amblyteles Wesmael

A. bronteus (Cress.). Mt. Desert (Br.), July 1.
A. fraternus (Cress.). Echo Lake; S. W. Harbor (Fernald), June 27–July 19.
A. nubivagus (Cress.). Salisbury Cove, July 17.
A. near nubivagus (Cress.). S. W. Harbor, July 15.
A. ormenus (Cress.). Common, June 13–Aug. 29.
A. perannulatus Hopper. Aug. 27 (Br.).
A. n.sp. Reared from R. thujella, July 8–15 (Br.).

Spilichneumon Thomson


Ctenichneumon Thomson

C. near excultus (Cress.). Bar Harbor, July 15.

Pterocorus Förster

P. atrox (Cress.). Bar Harbor, June 9.
P. bimembris (Prov.). Salisbury Cove; Green Mt., July 23–Aug. 17.
P. centrator (Say). Mt. Desert (Br.), Apr. 13; Sand Beach, July 11.
P. cinctitarsis (Prov.). Salisbury Cove, July 23.
P. creperus (Cress.). S. W. Harbor, July 15.
P. devincitor (Say). Salisbury Cove; Echo Lake, July 17–Sept. 7.
P. feralis (Cress.). Echo Lake, July 12; Western Mt. under spruce bark, Sept. 30.
P. funestus (Cress.). Great Heath, June 21–Oct. 5.
P. instabilis (Cress.). Common June 20–July 25. Pars. on *Phyciodes tharos*.
P. laetus (Brullé). Catkins, Apr. 25, Station F300; Salisbury Cove, June 11–July 23.
P. maius (Cress.). Common July 12–Sept. 8.
P. nigrovariegatus (Prov.). Long Pond; S. W. Harbor, July 10–Aug. 21.
P. parvus (Cress.). Witch Hole Pond; Bar Harbor, July 5–30.
P. subdolus (Cress.). S. W. Harbor, June 18–Sept. 12.
P. vicinus (Cress.). Salisbury Cove, July 18.
P. sp. Bar Harbor, Aug. 7 (Br.). In U.S.N.M.

**Coelichneumon Thomson**

C. azotus (Cress.). N. E. Harbor, Aug. 11 (Minot).
C. caeruleus (Cress.). N. E. Harbor (Minot); Echo Lake, Sept. 7. Parasitic on tussock moth.
C. caeruleus (Cress.) var. One specimen, Station F340.
C. germanus (Cress.). Bar Harbor; S. W. Harbor; Long Pond, June 7–Aug. 27.
C. jejunus (Cress.). Green Mt., Aug. 17.
C. maurus (Cress.). Bar Harbor, June 21.
C. navus (Say). Pars. on sawfly from ash, June 20 (Br.).

**Protichneumon Thomson**

Gnamptopelta Hopper


Conocalama Hopper


Trogus Panzer

T. pennator (Fab.). Salisbury Cove, July 14–17. Parasitic on *Papilio polyxenes* and *turnus*.

Glypta Gravenhorst

G. canadensis Cress. N. E. Harbor, June 29 (Minot).
G. rufofasciata Cress. Salisbury Cove, July 19; Bar Harbor, Aug. 22.
G. varipes Cress. S. W. Harbor, July 22.

Amerisibia Förster


Lampronota Curtis

L. sp. near pleuralis Cress. Reared from *Sessia*, July 9–17 (Br.).
L. sp. Bar Harbor (Br.), May 23.

Lissonota Gravenhorst

L. sp. Pars. on *Pinipisteszimmermanni* (Br.), May 16.
PIMPLOPTERUS Ashmead

P. frigidus Cress. S. W. Harbor; Narrows, July 20–27. Pars. on sawfly Nematopus.
P. xigripes Prov. Echo Lake, July 17.
P. n.sp. Bar Harbor, Apr. 21 (Br.).
P. sp. Bar Harbor, Aug. 30 (Br.).

Asphragis Förster


SYZEUCTUS Förster

S. elegans (Cress.). Reared from Melalopa sp. June 29 (Br.).

Exetastes Gravenhorst

E. nervulus var. nervulus (Say). S. W. Harbor; Eagle Lake; Bar Harbor, June 21–July 19.
E. nervulus var. rufofemoratus Prov. S. W. Harbor, Narrows, July 15–Aug. 13.

Banchus Fabricius


Euceros Gravenhorst

E. thoracicus Cress. Bar Harbor; Echo Lake, July 10–18.
Rhórus Förster

R. (cyphánza) obscurellus (Cress.) Bar Harbor, June 22.
R. (cyphánza) tristis (Prov.) Reared (Br.), July 9.
R. (cyphánza) varifrons (Cress.) Pretty Marsh; Salisbury Cove; Bar Harbor, June 20–July 14.
R. sp. Reared from Pteronídea alaskensis (Br.), Apr. 19.
R. sp. Reared (Br.), July 6.
R. sp. Reared from Pteronídea populi (Br.), July 1.

Píon Schiödte

P. fucatus fucatus (Cress.) Common, July 22–Sept. 6.

Ctenopelma Holmgren

C. n.sp. near nigricorx (Prov.) Bar Harbor, June 14.

Xenoschesis Förster

X. cinctiventris (Ashm.). S. W. Harbor, July 10.
X. n.sp. Pars on Lyda P. banksiana, Sept. 1934. Pars. Lyda, Aug. 22 and 24, 1936 (Br.).
X. n.sp. Bred from Lyda sp. on P. rigida, VII 16, '37. Same sp. reared in 1935 and 1936 from Lyda (Br.).
X. n.sp. Echo Lake, July 19.

Homaspis Förster

H. slossonae Cush. Reared (Br.) ex Pinus rigida, June 29.

Notopygus Holmgren

N. sp. N. E. Harbor, Aug. 10 (Minot).
N. n.sp. About larvae of Lyda sp. on P. banksiana, Sept. 26 (Br.).

Opheltes Holmgren

BIOLOGICAL SURVEY OF

PERLISSUS Holmgren

P. concolor (Cress.). Mt. Desert (Br.), June 3.
P. decoloratus (Cress.). Long Pond, July 16.

LAPHYROSCOPUS Förster

L. sp. Echo Lake, June 17.

LATHROLESTES Förster

L. rufigaster Cush. Bred from sawfly material in blackberry, Oct. 2 (Br.).

PROTARCHUS Förster

P. magnus (Davis). Record of capture lost.

MESOLEUS Holmgren

M. antennatus Prov. Echo Lake, July 12.
M. canaliculatus (Prov.). S. W. Harbor, June 16–July 23.
M. striatus Davis. Long Pond, Sept. 7.
M. submarginatus (Cress.). Bar Harbor; S. W. Harbor, June 22–July 20.
M. sp. Pars, on D. polytonum.
M. sp. Bar Harbor (Br.), Aug. 20.
M. sp. S. W. Harbor, June 5.
M. sp. Bar Harbor, Aug. 18.
M. n.sp. Bar Harbor, July 22 (Br.). In U.S.N.M.
M. sp. Reared, Sept. 13 (Br.).

LAMACHUS Förster

L. contortionis Davis var. Sept. (Br.), det. R. A. C.
L. sp. Aug. 10. Pars. on noctuid (Br.).

SAOTIS Förster

S. mellipes (Prov.). Reared from sawfly on ash (Br.), June 8–20.

SYNOMELIX Förster

S. sp. S. W. Harbor, July 10.
THE MOUNT DESERT REGION

DIALGES Förster

D. frontalís Davis.  S. W. Harbor, June 25.

MESOLEPTIDEA Viereck

M. decens (Cress.)  Aug. 27 (Br.).

POLYTERUS Förster

P. sp.  Bar Harbor, Aug. 28 (Br.).  In U.S.N.M.

SYNDIPNUS Förster


HYPAMBLYS Förster

H. albopictus (Grav.).  Reared from pear slug (Br.), June 18.  Det. R. A. C.

HADRODACTYLUS Förster

H. elongatus (Cress.).  Echo Lake, July 12.
H. inceptus (Cress.).  Seal Cove, June 20.

EURYPROCTUS Holmgren

E. longipes (Prov.).  Long Pond, Sept. 7.

CALLIDOTES Förster

C. albopleuralis (Prov.).  Long Pond, Sept. 7.

CYLLOCERIA Schiödte

C. sexlineata (Say).  Common July 18–Aug. 21.

BLAPTICUS Förster

B. sp.  Pears on P. nemorata (Br.), June 15.

CATASTENUS Förster

C. sp.  Echo Lake, July 17.
Proclitus Förster

P. royi (Prov.). Bar Harbor, Aug. 10.

Plectiscidea Viereck

P. parva (Cush.). Echo Lake, July 17.
P. n.sp. Bar Harbor, Aug. 10.

Aperileptus Förster

A. gracilis (Prov.). Echo Lake; Long Pond, July 11–17.

Orthocentrus Gravenhorst

O. sp. N. E. Harbor, June 28 (Minot).

Stenomacrus Förster

S. undulatus (Davis). Bar Harbor, Aug. 10.
S. sp. Pars. on P. nemorata, July 7 (Br.).
S. sp. Pars. on P. nemorata, July (Br.).

Diplazon Nees

D. laetatorius (Fab.) Common, July 10–Aug. 13.
D. tetragonus (Thbg.). Bar Harbor; Echo Lake, June 7–17.
D. n.sp. Long Pond, Aug. 21.

Zootrephus Thomson

Z. bizonarius (Grav.). S. W. Harbor, July 15.

Promethes Förster

P. elongatus (Prov.). S. W. Harbor; Narrows, July 13–Aug. 13.
P. sulcator (Grav.). Bar Harbor, June 7–Aug. 10.
Syrproctonus Förster

S. agilis (Cress.). Salisbury Cove; Bar Harbor, Aug. 7–10.
S. foutsi Cush. Bar Harbor, June 15 (Br.).
S. humeralis Prov. Echo Lake, June 17.

Chorinaeus Holmgren

C. n.sp. Eagle Lake, July 18.

Periope Curtis

P. aethiops (Cress.). S. W. Harbor, Sept. 8.

Triclistus Förster

T. thoracicus (Ashm.). Bar Harbor, Aug. 25 (Br.).

Hypsicera Latreille


Exochus Gravenhorst

E. albifrons Cress. Reared ex Archips cerasivorana.
E. dorsalis Cress. N. E. Harbor (Minot), Aug. 10.
E. n.sp. S. W. Harbor, June 21.
E. sp. Reared from Ancylis and P. nemorata (Br.). June 2–July 5.

Pyracmon Holmgren

P. macrocephalum (Prov.). Reared (Br.).

Cymodusa Holmgren

Camptoplex Gravenhorst

C. drepressus Vier. Pars. of the maker of a gall on Solidago, May 31.
C. macer (Cress.). Bar Harbor, Sept. 10.
C. sp. near nolae (Ashm.). Bar Harbor, June 18.
C. sp. Reared probably from a lepidopterus leaf-miner (Br.), June 15.
C. sp. Mt. Desert, July 23 (Br.).

Camptolestis Förster

C. atypicus (Vier.). On willow catkins, Apr. 29. In U.S.N.M.
C. patsuketorum (Vier.). Bar Harbor, July 30.
C. sp. Bar Harbor, July 19 (Br.). In U.S.N.M.

Campoplegidea Vieck

C. assita (Nort.). Bar Harbor; Echo Lake, June 11–27.
C. glauca glauca (Nort.). Echo Lake, Sept. 7.
C. variabilis (Franklin). S. W. Harbor, July 20.
C. villosa (Nort.). Salisbury Cove, July 15.
C. vitticollis (Nort.). N. E. Harbor (Minot); Witch Hole Pond, July 26–July 30.

Horogenes Förster

H. aestivalis (Vier.). Little Duck Island (Br.), June 28.
A case bearer on currant.
H. solenobiae (Ashm.). Pars. of Solenobia washiella.
H. sp. S. W. Harbor; Echo Lake, June 17–22.
H. n.sp. Reared from lepidopterus larva on sumac leaves (Br.), Aug. 2.
H. sp. Reared from Tetralopha sp. (Br.), July 1.
H. sp. Bar Harbor, Aug. 30 (Br.).
H. sp. Reared from lep. poplar material (Br.).
THE MOUNT DESERT REGION

HYPOSOTER Förster

H. fugitivus fugitivus (Say). Bred from Schizura concinna, Sept. 26 (Br.).
H. pilosulus (Prov.). Bred from Hyppantria textor, Oct. 10 (Br.).
H. sp. Bar Harbor, May 2 (Br.). In U.S.N.M.

CAMPCTONUS Viereck

C. currani (Vier.). Mt. Desert, June 22.

OLESCAMEPE Förster

O. sp. Reared from sawfly on willow.
O. sp. Echo Lake, July 17.
O. sp. S. W. Harbor, July 15.

ZALEPTOPYGUS Viereck

Z. mellipes (Prov.). Echo Lake; Long Pond, July 12–17.

CREMASTUS Gravenhorst

C. forbesi Weed. S. W. Harbor, July 29.
C. rectus Prov. S. W. Harbor, Aug. 16.
C. sp. Salisbury Cove, July 25.
C. sp. Bred from Tetralopha and a leaf-webber on poplar, July (Br.).

LEPTOPYGUS Förster

L. borealis (Prov.). July 19 (Br.).
L. sp. Long Pond; Salisbury Cove, Aug. 21.

CRATOPHION Thomson

C. errabundus (Prov.). S. W. Harbor, Sept. 6.
BIOLOGICAL SURVEY OF

Tersiöochus Holmgren

T. n.sp. April 28 (Br.).

Aphanistes Förster


Erigorgus Förster

E. aclerivorus (Roh). Pars. on A. comptoniella.
E. curtus (Nort.). Bar Harbor (Br.), May 1.
E. lateralis Brullé. S. W. Harbor; Narrows, June 25–July 17.
E. semirufus (Nort.). S. W. Harbor, July 18.

Agrypon Förster

A. sp. Bar Harbor, June 17. Said to be pars. on Phyllooma nemorata. In U.S.N.M.

Labrorychus Förster

L. borealis (Ashm.). Echo Lake; S. W. Harbor; Salisbury Cove, June 17–Aug. 11.
L. prismaticus (Nort.). S. W. Harbor, July 31. Parasitic on Archips cerassivorana.

Atrometus Förster

A. clavipes (Davis). Great Heath. Reared gelechid webber on Myrica gale.

Therion Curtis

T. circumflexum (Linn.). Echo Lake; Salisbury Cove, June 17–Aug. 11.
T. fuscipenne (Nort.). Duck Brook, June 30.
T. morio (Fab.). Record of capture lost.
Ophion Fabricius

O. sp. Bred from Noctuid larva, Aug. 25 (Br.).

Enicospilus Stephens

E. arcuatus (Felt.). N. E. Harbor, Aug. 23 (Minot).
E. purgatus (Say). Echo Lake, July 12. Parasitic on Feltia and other moths.

Thyreodon Brullé

T. atricolor atricolor (Oliv.). Pars, on larvae of some of the Spingidae.

Cidaphus Förster

C. occidentalis Cush. Reared from spruce duff (Br.). May
C. paniscoides (Ashm.). Mt. Desert, Sept. 23.

Mesochorus Gravenhorst

M. atriventris Cress. S. W. Harbor; Bar Harbor, July 30–Aug. 10.
M. jucundus Prov. June 4 (Br.).
M. luteipes Cress. Eagle Lake; Bar Harbor, July 18–Aug. 18.
M. sp. Bred from a lepidopterus alder leaf-miner, June 6 (Br.).
M. n.sp. Bred from P. nemorata, June 28 (Br.).
M. n.sp. Mt. Desert, July 8 (Br.). In U.S.N.M.
M. sp. At light, Oct. 1.

Orthopelma Taschenberg

O. ovale (Prov.). June 2 (Br.).
Trigonalidae

Lycogaster Shuckard

L. costalis Cress. Duck Brook, July 30, 1919.

Aulacidæ

Odontaulacus Kieffer


Gasteruptidæ

The members of this family are parasitic on bees.

Gasteruption Latreille

G. montanum var. incertum Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, July 10–29.

Diapridæ

Paramesius Westwood


Ashmeadopria Kieffer

A. sp. Narrows, July 27.

Leptorhaptus Förster

L. sp. Long Pond, July 10.

Cinetus Jurine

C. n.sp. Bar Harbor, Aug. 18.
C. sp. Bar Harbor, Aug. 18.

Pantoclis Förster


Xenotoma Förster

X. sp. Pars. on P. nemovata. June (Br.).
Callegeratidae
Aphanogamus Thomson
A. n.sp. Bred from Arbor vitae leaf-miner, July 19 (Br.).

Megaspilus Westwood
M. fuscipennis Ashm. Bar Harbor, Apr. 28 (Br.).

Serphidae
Serphus Schrank (Proctotrupes Latreille)
S. sp. Bar Harbor, Aug. 18.
S. sp. S. W. Harbor; Bar Harbor, June 13–24.

Platygasteridae
Platygaster Latreille
P. sp. Pars. on diptera, June 5 (Br.).

Pelecinidae
Pelecinus Latreille
P. polyturator Drury. The females are very common in August, flying over lawns and ovipositing on the larva of the June beetle (Phyllophaga). Taken as late as Oct. 3. The males of this species are supposed to be very rare. One was collected in 1921 and three in 1922 at N. E. Harbor by A. R. Allen. On September 2 and again on the 7th, '33 we had a very strong south wind blowing downward. Several were seen flying around the laboratory, and I took seven. Dr. Brower, at the same dates, took them in Bar Harbor. Can it be that the males fly at a higher level and are not as rare as is supposed?

Cynipidae. The Gall Wasps
The members of this family are producers of galls.

Ibalia Latreille
I. maculipennis Hald.? Bred from a maple log infested with Tremex columba, July.
I. ensiger Norton. Pars. Siricid, July 3 (Br.). Ex larch.
Anacharis Dalman

A. sp. Pars. on the "lace wings," July 8.

Callaspidia Dahlbom

C. provancheri Ashm. S. W. Harbor, July 30.

Andricus Hartig


Callirhytis Förster

C. operator (O. S.) Acorn gall. Robinson Mt., Sept. 7. The gall is an oval larval cell between the nut and cup of the acorn. On the scrub oak (Quercus ilicifolia). The agamic generation.

C. scitulua Bass. Salisbury Cove; Bar Harbor. Irregular wood terminal swellings on the red oak (Quercus rubra).

C. tuberosua Bass. Robinson Mt. Irregular wood galls on the scrub oak.


Amphibolips Reinhard


Diastrophus Hartig

D. turgidus Bass. Forms a gall on raspberry. Bred May 23 (Br.).

Aylax Hartig

A. glechomae (Linn.). Cat-mint Gall. A globular gall on Nepeta glechoma. Great Head, Aug. '35.

Genus near the above. Bred from a gall on a herbaceous plant, July 5.
Gonaspis Ashmead

G. potentillae (Bass.). Section 40 sweeping June 19. The Cinquefoil Axil Gall.

Rhodites Hartig

The members of this genus produce galls on roses.
R. nebulosus Bass. General distribution on various roses.
R. rosae (Linn.). Bred from Polythalmous hairy rose gall Mech. (Br.).

Periclistus Förster

Members of this genus have been reared from galls on roses.
P. sp. Guests in an undeterminable over-wintered gall.

Ceroptres Hartig

C. sp. Inquilines in gall on oak.

Callimomidae (Torymidae)

Callimome Spinola (Torymus Dalm.)
C. chrysochlora O. S. Bred from Cynipid woody rose gall, May.
C. coccineum Huber. Bred June 24 (Br.).
C. sp. Echo Lake, July 17.

Monodontomerus Westwood

M. dentipes Boh. Pars. on Diprion simile? Bred June 23 (Br.).

Ormyrus Westwood

O. sp. Bred from an oak gall June 13 (Br.).
Syntomaspis Förster

S. sp. S. W. Harbor, Aug. 23.

Cryptopristus Förster

C. sp. Bar Harbor, Aug. 10.

Perilampidae

Perilampus Latreille

P. chrysopae Cwfd. Bred from what appears to be a Chrysopidae cocoon July 3 (Br.).
P. fulvicornis Ashm. S. W. Harbor, July 11; Northeast Branch, July 25.
P. stygicus Prov. Bar Harbor; Green Mt., July 17–Aug. 16.
P. sp. Bar Harbor; Green Mt., June 16–Aug. 10.
P. sp. On birch leaf, Sept. 14 (Br.).

Euperilampus Walker

E. triangularis (Say). Mt. Desert, July 4 (Br.).

Chalcididae

Brachymeria Westwood (Chalcis auct.)

B. compsilurae (Crawf.). Long Pond, July 16.

Chalsis Fabricius

C. ovata Say. Penikese, Sept. 5.

Spilochalcis Thomson

S. albifrons (Walsh). Bred from Exema dispar Sept. (Br.). Pars, on Arbor vitae leaf-miner.
S. side (Walk.). Pars. on Coleophora salmani July 17 (Br.). Penikese; Witch Hole Pond; S. W. Harbor, July 19–Sept. 6.
S. sp. Tremont, Aug. 23.
Leucospis Fabricius

*L. affinis* Say. Eden; Bar Harbor; S. W. Harbor; Station F264, all July.

Eurytomidae

**Eurytoma Illiger**

*E. gigantea* Walsh. Bred from *Eurosta solidaginis* July 1 (Br.).

E. sp. Bred from gall on *Quercus borealis* July 10 (Br.).

E. sp. S. W. Harbor, July 13.

E. n.sp. Reared ex *Populus tremuloides* (Br.). June 16, '38.

Harmolita Motschulsky

H. sp. Pars. lep. on spruce terminals, July 30.

Encyrtidae

**Pentacnemus Howard**

*P. bucculaticis* How. Bred from Arbor vitae leaf-miner July 4 (Br.) det. A. B. G.

Copidosoma Ratzeburg

*C. nanellae* Silv. Bred from Arbor vitae leaf-miners July 20 (Br.). Pars. on *Paralachia pini foliella*.

Encyrtus Latreille

*E. marilandicus* Gir. Station F343.

Eupelmidae

**Eupelmella Masi**

*E. vesicularis* (Retzius). Great Heath; Witches Hole; Bar Harbor, Sept. 12–25. Bred from Arbor vitae leaf-miner.

Microgastridae

**Harritys Thomson**

Lamprotatus Westwood


Pireninae

P. n. gen. sp. pars. Microlep, in white spruce terminals, July '38. In U.S.N.M.

Pteromalidae

Neocatolaccus Ashmead


Belonura Ashmead


Habrocytus Thomson

H. sp. Pars. on Coleophora salmani July 8 (Br.).

H. sp. Bred from Apatela sp. June 2 (Br.).

Pteromalus Swederus

P. puparum Linn. Bred from C. salmani Aug. 6 (Br.).

Psilonotus Walker

P. sp. det. A. B. Gahan, 1938. Par. of Myeloborus ramiperdi. Bar Harbor (Br.).

Rhopalicus Förster


Cecidostiba Thomson


Amblymerus Walker

A. vereitor Nort. Reared ex. spruce tips. In U.S.N.M.

A. sp. Bred from Myeloborus ramiperdi Aug. 2 (Br.).
Eurydinota Förster


Phaenacra Förster

P. sp. Reared from spruce tips. In U.S.N.M.

Hypsicamara Förster

H. lachni Ashm. Reared pars. lep. on spruce terminals July 30 (Br.). These associate with aphids.

Eunotus Walker


Cleonymidae

Trigonoderus Westwood


Eulophidae

Chrysocharis Förster

C. sp. Bred from oak leaf-miner July 8 (Br.).
C. sp. Bred from Lithocolletis salicisfoliella Aug. 2 (Br.).
C. n.sp. Bred from Arbor vitae leaf-miners Sept. 16–Oct. 16 (Br.).

Physcus Howard


Cirrospilus Westwood

C. flavicinctus Riley. Bred from Phyllocomia nemorata Sept. (Br.).
C. cinctithorax Gir. Pars. on Phyllocnistis populiella, Phyllonorycter tremuloidiella, Phyllocomia nemorata, Buculatrix canadensisella, etc. All summer.

Closterocerus Westwood

C. tricinctus (Ashm.). Pars. on Phyllocnistis populiella, Phyllonorycter tremuloidiella, July–Aug. (Br.).
BIOLOGICAL SURVEY OF

DEROSTENUS Westwood

D. n.sp. Pars. on Arbor vitae leaf-miners, P. nemorata, etc.

NEODEROSTENUS Girault

N. bifaxtatus Gir. det. A. B. Gahan, 1938. Pars. of Phyl-


PENTACNEMUS Howard

P. bucculatricis How. det. A. B. Gahan, 1934. Bar Harbor,

July 4, 1933; July 7, 1933. Ex. Arbor vitae leaf-miner (Br.).

ENTERON Dalman

E. n.sp. Pars. on sawfly (Br.).

PLEUROTROPIS Foerster

P. bucculatricis Gahan. Bred from P. populiella Sept.

(Br.).

P. lithocolletidis (Ashm.). Bred from Arbor vitae leaf-

miners July 17 (Br.). Pars. on P. populiella.

P. longfellowi Gir. Bred from Cameraria acerviella June 28

(Bl.).

P. sp. S. W. Harbor, July 13.

P. sp. Pars. on Col? on Viburnum cassinoides Aug. 6 (Bl.).

Hemadus

II. nubilipennis (Ashm.). Record of capture lost.

SECODELLA Girault

S. cushmani (Cwfd.). Bred from Arbor vitae leaf-miner

July 24 (Br.).

SYMPHESIS Förster

S. agromyzae Gahan. Reared from serpentine miner of Impatiens

Aug. 12 (Br.).

S. bimaculatus (Cwfd.). Green Mt.; Salisbury Cove. July

17–Aug. 21.
S. dolichogaster Ashm. Parastic on *Gracilaria fraxinella*. Bred July 26 (Br.).

S. lexingtonensis Gir. Pars. on the blotch miner of beech. July 21–31 (Br.).

S. maculipes (Cwfd.). Reared ex *Lithocolletis hamame-liella*.

S. metacomet (Cwfd.). Pars. *Cameraria acerelli*a. In U.S.N.M.

S. nigrifemora Ashm. S. W. Harbor, July 11.

S. nigripes Ashm. Reared from blotch miner on *Amelanchier* Aug. 8 (Br.).

S. rex Gir. Reared from blotch miner on willow, Sept. 16 (Br.).

S. n.sp. Reared from *Myeloborus ramiperda* mining twigs of *Pinus strobus* Aug. (Br.).

S. n.sp. Reared from gray birch, Aug. 7 (Br.).


**Microplectron Foerster**


**Tetrastichus Haliday**

T. chlamytis Ashm. Pars. *Exema dispar*. In U.S.N.M.

T. sp. Reared from gall on aster, Aug. In U.S.N.M.

T. sp. Reared from gall on *Populus tremuloides*.

**Cirrospiloideus Ashmead**

C. Johnsoni Gir. Narrows, June 24.

**Euplectrus Westwood**

E. bicolor Swed. Bred from a green Noctuid on grass, July 19 (Br.).

E. sp. S. W. Harbor, July 11.
**BIOLOGICAL SURVEY OF**

**Rhiconopeltidea Girault**

*R. amsterdamsensis* Gir. Ex. *Lithocolletis corylisella* (Br.).

**Horismenus Walker**

*H. microgaster* Ashm. Pars. on *P. populiella*.

*H. lixivorus* Cwfd. Same as above.

**Zagrammosoma Ashmead**

*Z. nigrolineata* Cwfd. Bred from Arbor vitae leaf-miner (Br.).

**Dichadocerus Westwood**

*D. u.sp.* Reared (Br.) ex Microlep. in white spruce terminals. In U.S. N. M. *eulophilus* in a syn. fide Dalla Torre.

**Trichogrammatidae**

**Trichogramma Westwood**

*T. minutum* (Riley). Pars. on eggs of *Pteronidea populi* Sept. Also on *P. nemorata* July–Sept.

**Mymaridae**

**Alaptus Haliday**

*A. caecilii* Girault. Bred July 31 (Br.).

**Psammocharidae. The Spider-hunting Wasps**

**Ageniella Banks**

*A. iridipennis* (Cress.). Bar Harbor, July 21.

*A. calcarata* (Cress.). Salisbury Cove, July 15–Aug. 11.

*A. sp.* Station F337. In U.S. N. M.

**Pseudagenia Kohl**

*P. nanella* Banks. N. E. Harbor, July 28 (Minot).

THE MOUNT DESERT REGION

Dipogon Fox

D. calipterus (Say). Carrying a spider on dead spruce, Sept. 28 (Br.); Eagle Lake, July 18.

Priocnemis Schiodte

P. alienatus (Smith). S. W. Harbor, July 28.
P. germanus (Cress.). Bar Harbor; Green Mt., Aug. 16–17.

Psammochares Latreille

P. astue Banks. S. W. Harbor; Bar Harbor; Salisbury Cove, July 15–24.
P. lasiope Banks. Bar Harbor; S. W. Harbor, July 26–Sept. 11.
P. (pomphilus) canadensis Banks. S. W. Harbor; Bar Harbor; Narrows, July 20–Aug. 13.
P. (marginatus) (Say). Green Mt., July 15.

Anoplocharis Banks

A. rectus (Banks). Green Mt.; Echo Lake, July 17.

Anoplius Dufour

A. ventralis Banks. Long Pond, July 16.

Anopliella Banks

A. xenebrosus (Cress.). Green Mt.; Narrows; S. W. Harbor; Bar Harbor, June 18–Aug. 3.

Sophropompilus Ashmead

E. biguttatus (Fab.). Bar Harbor; Salisbury Cove; N. E. Harbor; Station F133, July 15–Aug. 21. It provisions its nest with spiders (Epeira).

Ceropales Latreille

C. fraterna Smith. Eden; Green Mt., July 23–25. The species of the genus are parasitic in the nests of other genera of the family.

Chrysidae. The Gold or Cuckoo Wasps

The members of this family live as social parasites in the nests of the solitary wasps and bees.

Elampus Spinola

E. marginatus (Patton). Penikese July 13, Station F261.

Omalus Jurine

O. iridescens Nort. Has been recorded as the parasite of the Stigmus and of Chrysis nitidula. Echo Lake; Bar Harbor, July 16–24.
O. sinuosus (Say). Station F381.

Holopyga Dahlbom

H. aspera Brullé. Eden, July 24; Station F69.
H. ventralis (Say). Indian Point on flowers of wild fennel, Station F260.

Hedycrhum Perrin

H. dimidiatum (Say). Eden; S. W. Harbor; Chasm Brook, July 23–29.
Hedyceum Latreille

H. sp. Penikese on ground near holes Aug. 5.

Chrysidae Bischoff


Chrysis Linnaeus

C. (chrysogona) perpulchra Cress. One specimen taken at Section 28, July 20, 1937.
C. (chrysis) coerulans Fab. Bar Harbor; Corfield, June 16–Sept. 9.
C. (chrysis) nitidula Fab. Eden; Corfield, July 24–Sept. 6.
C. (chrysis) nitidula var. cessata du Busson. S. W. Harbor; Eden; Corfield, June 15–Sept. 23.
C. (chrysis) sp. Station F259.
C. (chrysis) sp. Station F260.
C. (chrysis) sp. Laboratory June 26.

Tiphiidae

Tiphia Fabricius

T. inornata Say. Eden on cord wood, July 2; sweeping July 23. Scarce. The larvae live on white grubs (Phyllophaga).


Myrmosa Latreille

M. unicolor Say. Eden, Aug. 11.

Mutillidae

Pseudomethoca Ashmead

P. frigida Smith. Record of capture lost.
P. coarctata pennsylvanica Buck. Bar Harbor; Tremont, Aug. 29-Sept. 4 (Br.).

CREMASTOGASTER Lund


STENAMMA Westwood

S. brevicorne (Mayr.). This is a rare ant nesting under stones in moss humus. A swarm of males were flying along the edge of a plantation of Pinus banksiana on Dikes Peak Oct. 2, '34 and specimens taken by (Br.).

MYRMICA Latreille

M. brevinodis Emery. Hodgdon Brook, Aug. 12; Station F181, Sept. 3.
M. scabrinodis var. fracticornis Emery. S. W. Harbor; Green Mt., Long Pond, July 11-Aug. 22.
M. scabrinodis schencki emeryana Forel. S. W. Harbor; Witch Hole Pond, Sept. 6-11; swarming on Robinson Mt., Sept. 2, '35.
M. sp. Section 26, Aug. 7.
M. sp. Section 15, sweeping, Sept. 6.

LEPTOTHORAX Mayr

L. acervorum canadensis Prov. S. W. Harbor, July 11.
THE MOUNT DESERT REGION

**Tapinoma Förster**

T. sessile (Say). S. W. Harbor, July 11–Sept. 6; Station F173.

**Dolichoderus Lund**

D. (hypoclinea) plagiatus Mayr. Section 26, Aug. 7.
D. plagiatus Mayr. var. S. W. Harbor, Sept. 6.

**Lasius Fabricius**

L. (acanthomyops) claviger Roger. Deer Brook, Station F218, one individual taken.
L. niger var. neoniger Emery. Corfield at melon bait. Said to be the most abundant ant and hence of all insects.
L. niger var. sitkaensis Pergande. Long Pond; Bar Harbor; Corfield, June 27–Sept. 15.

**Formica Linnæus**

F. fusca Linn. Common, June–Sept. This species makes large mounds. Near the foot of Western Mt. was a mound that measured $7 \times 11$ feet, with an average height of 2 feet. They spread very rapidly by forming small colonies.
F. fusca var. algida Wheeler. One specimen was swept on the top of Robinson Mt., Aug. 24, '34.
F. fusca var. subsericea Say. Around stones, New Mill Pond, July 12; flying at Jordan Pond, Aug. 12; swarming in large numbers, Seal Cove, Aug. 7.

F. neogagates Emery. S. W. Harbor; Bar Harbor, July 14–Sept. 6.

F. obscuriventris Mayr. One female taken but record of capture lost. Scarce.


F. sanguinea aserva Forel. Bar Harbor; S. W. Harbor; Green Mt.; Section 26, June 21–Aug. 7.

**Camponotus Mayr**

C. (Myrmecotoma) caryae (Fitch). One specimen taken on Robinson Mt., Aug. 24, '34.

C. herculeanus ligniperdus var. novaboracensis (Fitch). Common, June to Sept. Frequents old logs and stumps. Same habits as below.

C. herculeanus pennsylvanicus (DeGeer). The Carpenter Ant. Common. Nesting in old logs and stumps, it frequently migrates to farmhouses and becomes a pest both by riddling the woodwork and by visiting the kitchen for sweets. This craze for "parking" our woods by removing all logs, etc., is driving them into buildings.

C. herculeanus var. whymeri Forel. Bar Harbor; Narrows; Section 15 in log, June 16–Aug. 13.

C. sp. One female. Mt. Desert (Br.) Apr. 9.

**Bethylidae**

**Bethylus Latreille**

B. sp. Bar Harbor, July 6 (Br.).

B. n.sp. Gt. Heath, Sept. 25 (Br.).

**Cephalonomia Westwood**

C. sp. Gt. Heath, Sept. 25. One in U.S.N.M.

C. n. sp. Bar Harbor, July 20. In U.S.N.M.
This is *Isobrachium* Ashm, nec. Först.

P. sp. Mt. Desert, Sept. 10 (Br.).

**Vespidae. The Social Wasps**

_Eumenes_ Latreille. The Potter Wasps

E. _fraterna_ Say. Stations F133 and F259. Scarce.


**Ancistrocerus** Wesmael

A. _catskill_ var. _albophaleratus_ Sauss. Bar Harbor; Green Mt., July 18–25.

A. _antilope_ (Panz.). Bar Harbor; N. E. Harbor; S. W. Harbor, July 20–Aug. 22.

A. _catskill_ (Sauss.). Narrows (Salman), July 21.

A. _tigris_ (Sauss.). Bar Harbor; S. W. Harbor; Long Pond, Aug. 18–Sept. 7. Station F159. Section 16, Aug. 7.

A. _unifasciatus_ (Sauss.). Salisbury Cove, Aug. 11.

A. _waldenii_ (Vier.). Bar Harbor; Green Mt., June 7–July 25.

**Symmorphus** Wesmael

S. _albomarginatus_ (Sauss.). Bar Harbor, Aug. 16.

S. _canadensis_ (Sauss.). Witch Hole Pond, July 30.


**Odynerus** Latreille


**Vespula** Thomson

V. (dolichovespula) _adulterina_ (Buyss.) var. artica Rohwer. Northern hornet. Echo Lake; N. E. Harbor; Bar Harbor; Green Mt., July 12–29.
V. (dolichovespula) arenaria (Fabr.) (=diabolica (Sauss.)). Yellow-jacket. Common, June 21–Sept. 6.
V. (V.) austriaca (Paniz.). Bar Harbor, Aug. 16.
V. (V.) maculifrons (Buys.). Another Yellow Jacket.
V. (dolichovespula) norwegica (Fabr.) var. norvegicoides (Sladen). Bar Harbor, June 23; S. W. Harbor, Aug. 21.
V. (V.) rufa (L.) var. acadica (Sladen). N. E. Harbor, Aug. 11.
V. (V.) rufa (L.) var. consobrina (Sauss.). Small white-faced hornet. Common, June 20–Sept. 6. Builds its nest under ground and under boards, etc.

**Sphecidae**

**Astata** Latreille


**Larropsis** Patton

L. distincta Smith. Bar Harbor; Eden; S. W. Harbor, July 19–29. Most of the members of genus burrow in sand and provision their nests with Orthoptera.

**Chlorion** Latreille

C. (ammobia) ichneumoneum (Linn.). S. W. Harbor on Solidago, Aug. (Fernald).
C. phonyx atratum (Lep.). Conner’s Point, Aug. (Fernald).

**Podalonia** Spinola

P. violaceipennis LePel. Eden; Green Mt.; S. W. Harbor, July 11–25.
P. luctuosa (Sm.). Conner’s Point, Aug. (Fernald).
THE MOUNT DESERT REGION

**Sphex Linnaeus**

One of the most interesting Genera of insects, some of which use a pebble to pound down the soil on their burrows, which they provision with caterpillars.

S. *arvensis* Dahlb. Common, June 11–Aug. 23. All of the species in this genus build in bare ground and provision with spiders. They are one of our most interesting groups.

S. *aureonotatus* (Cam.). Fernald’s Point on *Salidago* Aug. (Fernald).

S. *xigricans* (Dahlb.). Several flying low over grass, Penikese, July 21.

S. *procerus* (Dahlb.). Conner’s Point on *Solidago* Aug. (Fernald).

S. sp. Mating pair. Middle Road, July.

**Sceliphron Klug**

S. *caementarium* Drury. Black and Yellow Mud-dauber. Salisbury Cove, July 24. These are the well-known mud-daubers which make nests in sheds, etc., and provision them with spiders.

**Chalybion Dahlbom**


**Alysson Panzer**

A. *oppositus* Say. Eden; Bar Harbor, July 19–Aug. 5.

**Nysson Latreille**


**Argogorytes Ashmead**

BIOLOGICAL SURVEY OF

Gorytes Latreille (Not auct.)

G. (gorytes) atricornis Pack. S. W. Harbor; Salisbury Cove; Bar Harbor, July 15–24. This genus is a soil nester that uses leaf-hoppers to provision.

G. (pseudoplisus) phaleratus Say. These wasps nest in sand and provision their nests with leaf-hoppers. In a sand bank at Eden, July 24.

G. (gorytes) simillimus Smith. Eden; S. W. Harbor; Bar Harbor, July 17–Aug. 20.

Bembix Fabricius

B. spinolae Lep. The Bembex nest in colonies in the sand and lay their egg on a paralyzed fly. They do not store food but feed their larvae from day to day on flies. Sand pit, Eden; Indian Point, the Feather Bed, Green Mt. 1000 ft., July 28–Aug. 21. A striking creature with its large green eyes and black and white striped body.

Philanthus Fabricius

P. bilunatus Cress. Penikese on flowers July 27.

Aphilanthops Patton

A. frigida (Smith). Sand pit on Sargent Drive, Aug. 21. Eden, July 23. This species makes its nest in the ground and provisions it with queen-ants.

Cerceris Latreille

C. arelate Banks. Newport Meadow flying, Sept. 4. Not common. The provisioning of this genus is done with beetles.


C. clypeata Dahlb. S. W. Harbor; Eden; Bar Harbor, July 20–24. These burrow and store beetles.

C. dentifrons Cress. Eden, July 18–24. Same as above.
TRYPOXYLON Latreille

T. frigidum Smith. Common, July 17–Sept. 6. The species of this genus vary in their nest building but provision them with spiders.


PSEN Latreille

P. (mimesa) basirufus (Pack.). Echo Lake; S. W. Harbor; N. E. Harbor, July 6–18.
P. (mimesa) pauper (Pack.). Bar Harbor, Aug. 16.

STIGMUS Panzer


PEMPHREDON Latreille

P. (pemphredon) angularis Fox. Bar Harbor and N. E. Harbor the first part of July. These also provision with aphids. They build in decaying wood.
P. (cemonus) inornatus Say. Upper Hadlock Pond; Bar Harbor, June 10–21.

PASSALOEUS Shuckard

P. mandibularis (Cres.). Bar Harbor; S. W. Harbor, June 17–July 29. These use old galleries in wood in which they put clay cells provisioned with aphids.

EUPLILIS Risso

E. (corynopus) coarctata (Scop.). Mt. Desert, Aug. 6 (Br.).
E. (corynopus) rufigaster (Pack.). Laboratory, Aug. 5.
Pemphitis Risso

P. (pemphitis) monticola Pack.  Eden, July 28; Salisbury Cove, July 28 (Pate).

Crossecerus LePeletier and Brullé

C. (blepharipus) wickhami (Ashm.).  Narrows; Echo Lake, June 27–Aug. 13; Bar Harbor, July 17 (Pate). All of this genus make burrows in the ground, stalks, wood, etc. Flies are the favorite insect for provisioning.

C. (blepharipus) nigricornis Prov.  Mt. Desert, June 12 (Br.).

C. (stictoptila) maculipennis (Sm.).  Echo Lake; N. W. Harbor, July 12–Aug. 10; S. W. Harbor, June 20 (Pate).

C. (blepharipus) tarsalis (Fox).  S. W. Harbor, July 21 (Pate).

Ectemnius Dahlbom


E. (clytochrysus) nigrifrons (Cress.).  Mt. Desert, July 14; Salisbury Cove, July 24 (Pate).

E. (lophocrabro) singularis (Sm.).  Stations F133 and F263; Bar Harbor, July 19 (Pate); nurseries and various places, July 15–Aug. 15.

E. (hypocrabro) chrysargyrus (LePel. & Br.).  Eden; Long Pond; S. W. Harbor; Bar Harbor, July 17–27.

E. (hypocrabro) trifasciatus (Say).  Bar Harbor, Aug. 9.

E. (hypocrabro) continuus (Fabr.).  Common, July 10–Aug. 30.


E. (ectemnius) corrugatus (Pack.).  S. W. Harbor, July 11.

Lestica Billberg

OXYBELUS Latreille

O. quadrinotum Say. This genus, instead of carrying the flies, which it used to provision, impales them on its sting. Penikese in bank, July.

HYLAEIDAE

COLETTES Latreille

C. armatus Patt. Record of capture lost. The members of this genus build nests in the ground, often in colonies.

HYLAEUS Fabricius

H. cressoni (Ckll.). Eden, July 15. Look for the nests of some of this genus in stems.
H. ellipticus (Kirby). Bar Harbor; Penikese, July 13–19.
H. thaspii (Robts.). S. W. Harbor, July 11.
H. ziziae (Robts.). Station F259.

ANDRENAE Fabricius

ANDRENA Fabricius

This genus burrows in bare ground. They sometimes are in colonies. I have seen females, that appeared to be guarding the opening against parasites, step aside to let another go in.

A. asteris Robts. Station F267, Sept. 5.
A. bipunctata Cress. Station F240, May 11.
A. carlini Ckll. Station F241, May 11.
A. clarkella Kirby. Station F241, April 21.
A. cockerelli Graen. Bar Harbor; Eden, June 7–9.
A. corni Robts. Station F236, May 11.
A. crataegi Robts. Section 28, July 11.
A. lata Vier. Bar Harbor, June 8, 1921. Type locality.
A. milwaukeensis Graen. Bar Harbor; Echo Lake, June 8–July 12; Witch Hole on blackberry flowers. This species is frequently stylopized.

A. miranda Smith. Eden, July 11.


A. placida Smith. Station F240, May 11.

A. salictaria Robts. Station F240, May 11.


A. tumida Vier. Echo Lake, July 12, 1918. Type locality.


A. weedi Viereck. Station F236, May 11.


A. wilkella Kby. S. W. Harbor; Bar Harbor, June 7–July 22. On flowers of the raspberry and gooseberry.

A. sp. Station F241, April 21.

A. sp. Station F301, April 25.

Calliopsis Smith


Epeolus Latreille

E. scutellaris Say. Fair Grounds, Aug. Station F159.

Triepeolus Robertson

T. donatus (F. Sm.). Section 28, June 17.

Halictus Latreille

These are gregarious mining bees which excavate their nests in old gravel pits and the like. In some cases several bees of a species will excavate galleries that lead to a common entrance which is guarded by a bee whose head is used as a portal.
H. arcuatus Robts. Bar Harbor; Narrows, July 18–Aug. 14; Station F259.
H. coriaceus Smith. Common, July 6–Aug. 17; Station F259.
H. provancheri D. T. Bar Harbor; S. W. Harbor; Middle Road; Newport Meadow; Stations F242 and F249, Aug. 15–Sept. 2.
H. rubicundus (Christ.). Mt. Desert, July 11; Section 23, Sept. 15.
H. zepyrhus Smith. S. W. Harbor; Echo Lake, July 10–17.

Halictoides Nylander

H. novaeangliae (Robts.). This small bee occurs in abundance in the southern part of the State, and is supposed to frequent only the flowers of Pickerel Weed (*Pontederia cordata*) and its life is supposed to conform in a way to the flower of this plant. I have examined thousands of blossoms in different parts of the Island in the past few years and failed to find any of the bees, but I swept one specimen in the swamp back of Schooner Head on August 28, 1936, which is interesting, because there is no Pickerel Weed in that swamp.
AUGOCHLORA Smith

A. pura (Say). Bar Harbor; Eden, June 9–July 25; under bark of yellow birch log at Station F151.
A. striata Prov. Common and widely distributed.

AUGOCHLORELLA Sandhouse

A. striata (Prov.). Common and widely distributed.

AGAPOSTEMON Guérin

A. vibescens Feb. Eden fairgrounds on wild roses, Station F259. This very beautiful species is not common.

MACROPIS Panzer

M. morsei Robts. S. W. Harbor; Echo Lake; Salisbury Cove, June 23–July 13.

NOMADA Fabricius

N. cressoni Robts. Bubble Brook on blackberry blossoms, June 15. Also social parasites of other bees.
N. sp. Station F267, Sept. 5.
N. sp. Outlet of Bubble Br. on catkins, May 19, in U.S.N.M.

SPECODES Latreille

S. arvensis Patt. Station F267, Sept. 5. This genus are social parasites of Halictus.
S. sp. Station F267, Sept. 5.
Anthophora Latreille


Melissodes Latreille

M. illata L. & C. Station F264, Aug. 10. All of this genus frequent the Compositae.
M. rustica (Say). Bar Harbor; S. W. Harbor; Salisbury Cove; Aug. 10–22.
M. sp. Near Icy Hill, Aug. 7.

Ceratina Latreille. The Little Carpenter Bees

C. calcarata Robts. Record of capture lost.
C. dupla Say. Bar Harbor, June 25. It makes its nest in the pith of briars, etc.
C. metallica H. S. Smith. Section 40 sweeping, June 19.

Megachilidae

Andronicus Cresson


Alcidamea Cresson

A. producta Cress. Bar Harbor, June 7. Nests in the pith of plants such as sumac.

Coelioxys Latreille

C. sp. Section 28, July 23.

MEGACHILE Latreille. The Leaf-cutting Bees

M. latimanus Say. Eden, Aug. 11, 1926.
M. mendica Cress. Southwest Harbor, Sept. 6.
M. relativa Cress. S. W. Harbor; Echo Lake; Bar Harbor, June 27–Sept. 13.
M. (anthemois) inermis Prov. Indian Point on flowers, July 28; S. end of Eagle Lake on Solidago, Aug. 16. Scarce.

OSMIA Panzer. The Mason Bees

These make a cement-like mass with sand, clay, vegetable fragments and a fluid which cements it together. The species vary in the kind of place that they select. Some use snail shells.

O. albiventris Cress. Echo Lake, June 17; Station F251.
O. proximus Cress. Bar Harbor, June 9; Echo Lake, June 17–July 12.
THE MOUNT DESERT REGION

Stelis Panzer


Bombidae

Bombus Latreille (Bremus Panzer). The Bumblebees

B. bimaculatus Cress.  “Mt. Desert,” July 30 (McAtee).
B. borealis Nyl.  S. de Mont Spring, July 3 (Salman). Scarce.
B. terricola Kby.  Common all summer.
B. vagans F. Sm.  With us all summer but in smaller numbers than the three next above.

Psithyrus Lepeletier. The Usurper Bees

P. ashtoni (Cress.).  Bar Harbor; S. W. Harbor; Narrows, June 7–Aug. 14.
P. laboriosus (Fab.).  S. W. Harbor, July 15.
P. fernaldae Franklin.  Bar Harbor; Tremont, July 19–Aug. 23.

Apidae

Apis Linnaeus

A. mellifera Linn.  Generally distributed. This is the common honey bee.
Class ARACHNIDA

Many of the following were collected by Dr. Charles H. Blake alone and also with the author.

Order CHELONETHIDA (Pseudoscorpiones)
(False or Book Scorpions)

Chthoniidae
Chthonius C. L. Koch

C. tetrachelatus (Preyssler). One specimen under a stone on Bar Island, August 15, 1931.

Chernetidae
Chelanops Nicolet


Hesperochernes Chamberlin

H. tamae (Beier). These are frequently carried into the laboratory in October attached to the legs of the fly Pegomyia lipsia and on no other. I have seen as many as two on one fly and three on another. This is the first record for this species in New England.

Chelifidae
Chelifer Geoffroy de St. Hilaire

C. cancroides (Linnaeus). One specimen taken in a house, August 10, 1931.

Neobisiidae
Microbium Chamberlin

M. brunneum (Hagen). Penikese sifting, June 25.
Order ARANEIDA (Spiders)

Uloboridae

Hyptiotes Walckenaer


Dictynidae

Dictyna Sundevall

D. arundinaceoides Keyserling. These spiders build conspicuous nests in dead goldenrod or similar plants. Generally distributed around the edges of fields. Stations F402, F242, Bass Harbor (Britcher), Town Hill, Nurseries. June 24–October 3.


D. phylax Gertsch and Ivie. Station F400.


Scotolathys Simon

S. pallida (Marx). Hill in Sec. 40, sifting. July 14, one female.

Amaurobius C. L. Koch

A. bennetti (Blackwall). Under bark on stumps and under logs and stones in woods. Mature females common from June to August; males not taken but appear in early spring.

A. borealis Emerton. Foot of Newport Mountain, Reservoir Road, Seal Harbor. Immature and mature females taken in sifting leaves, August 2–August 16.

Titanoeca Thorell


Dysderidae

Dysdera Latreille


Mimetidae

Mimetus Hentz

M. epeiroides Emerton. One young female, presumably this species. F269.

Ero C. Koch


Linyphiidae

Linyphiinae

Bathyphantes Menge


B. species. One female from Indian Point, August 25.
Drapetisca Menge

D. alteranda Chamberlin (socialis Emerton). On spruce trunks, two specimens. Duck Brook Path. Several females from bark of fir trees infested with bark louse, September 12, 1945 (A. E. Brower).

Frontinella F. Cambridge


Helophora Menge

H. insignis (Blackwell). Bass Harbor, August 21 (Britcher).

Lepithyphantes Menge

L. leprosa (Ohlert). One female, August 21, Bass Harbor (Britcher).
L. nebulosus (Sundevall). One female, Long Porcupine Island, Bass Harbor, August 21 (Britcher).
L. zebra Emerton. Hare Forest, sifting, August 10.

Linyphia Latreille

L. maculata Emerton. One immature, S476; one immature, S489.

Microneta Menge

M. viaria (Blackwall). Penikese, Cross Road Sal. Cove, Section 37, Foot of Newport Mountain, Hare Forest, taken by sifting leaves, June 25–August 10.

Pityohyphantes Simon

P. costata (Hentz). In similar situations as marginata, fairly common and widely distributed. Females, F400, June 23; F242; Bass Harbor, August 21 (Britcher).
P. limitanea (Emerton). One young female, Robinson Mountain, August 24. One immature female, Paradise Hill, on bush, August 15.

Tapinopa Westring

T. bilineata Banks. Rare. Corfield, Long Poreupine Island. Bass Harbor, August 21 (Britcher); one immature male, July 24 (Britcher).

Erigoninae

Ceraticelus Simon

C. fissiceps (Cambridge). Among leaves and on shrubs, very common. Duck Brook Path, Hulls Cove, Bass Harbor, August 21 (Britcher); F410.

Ceratinella Emerton


Ceratinopsis Emerton


Chorora Crosby and Bishop


Diplocephalus Bertkau

D. cristatus (Blackwall). One pair, Corfield.
THE MOUNT DESERT REGION

Gonatium Menge

G. rubens Menge. Bass Harbor, August 21, 1901 (Britcher).

Grammonota Emerton

G. pictilis (Cambridge). In woods, on the ground, on tree trunks. Duck Brook Path, Laboratory, Bass Harbor (Britcher), S65, S67, S64, F400, F409, males and females, June 23–August 21.

Hypselistes Simon


Islandiana Braendegaard


Maso Simon

M. sundevalli (Westring). Penikese, sifting, June 25.

Phlattothrata Crosby and Bishop

P. flagellata (Emerton). Seal Harbor, July 1, 1909, male type (J. H. Emerton).

Argiopidae

Acanthepeira Marx

A. stellata (Walc.anaer). One female, Eden (Northeast Branch).

Aranea Linnaeus

A. corticaria (Emerton). Two females, F122. One male, Indian Point, August 28, 1944; Bass Harbor, August 21 (Britcher).

A. displacata (Hentz). In woods, fairly common. Lake Wood, Corfield, Salisbury Cove, Robinson Mountain, Reservoir Road, F400, F401, June 23–August 24. Juvenile specimens frequently on white pine needles.


A. foliata Fourcroy. Bass Harbor, August 21 (Britcher).

A. nordmanni (Thorell). Rare. Corfield, Salisbury Cove, on beech in the Gorge, September 10, Bass Harbor, August 21 (Britcher).

A. rajj (Scopoli) (marmoreus Clerck; gigas Leach). Females, Salisbury Cove, Corfield, Bass Harbor (Britcher), S68, F218, Male, Flying Place, September 17.


A. solitaria (Emerton). One male on poplar tree, September 30, 1935, F158.

A. thaddirus (Hentz). One specimen, Eden (Northeast Branch).


A. undata Olivier (sericatus Clerck). Rare. Corfield, Hulls Cove.

A. trifasciata (Forskal). Quite common. Adult in late August and September. Eden (Northeast Branch), Salisbury Cove, Hulls Cove, Norway Drive, Somesville, Bass Harbor, Great Heath, one female, S70, females, F113, F122, F210, S70, male, August 17.

THE MOUNT DESERT REGION

Cyclosa Menge


Mangora Cambridge

M. placida Hentz. Half Moon Pond, Reservoir Road, June 1–July 2, Witch Hole on ferns, May 20, F416, three females.

Meta C. L. Koch

M. menardi (Latreille). Dark and damp cell in an abandoned house, immature female, August 17.

Metopeira F. Cambridge

M. labyrinthea (Hentz). Rare. Emery District, Heath south of Salisbury Cove. One female, F218.
M. palustris Chamberlin and Ivie. Indian Point, nest in bush, female, August 27.

Neoscona Simon

N. benjamina Walckenaer. Bass Harbor, August 21 (Britcher).

Pachygnatha Sundevall

P. xanthostoma Koch. Bass Harbor, August 21 (Britcher).
P. species, S32, September 7, 1935, one male.
S. variabilis Emerton. Low bushes, very abundant. Adult in July and August. The coloration amply justifies the specific name. Eden (Northeast Branch), Salisbury Cove, Norway Drive, Corfield, Duck Brook Path. Seven young females, F269.


Tetragnatha Latreille


T. laboriosa Heutz. F399, F418.


Theridiosoma Cambridge

T. gemmosum (L. Koch). In low, wet places, uncommon. Duck Brook Path, base of Newport Mountain, north end of Echo Lake, F420, two females.

Zilla C. L. Koch

Z. atrica (C. L. Koch). Quite common around the Corfield Laboratory. One male, in house, September 1, 1930. Bass Harbor, August 21 (Britcher).

Z. montana C. Koch. Bass Harbor, August 21, one female with cocoon in branch of spruce tree six or seven feet above ground, in woods (Britcher).

Z. x-notata C. Koch. Bass Harbor, August 21 (Britcher).
THE MOUNT DESERT REGION

Theridiidae

Crustulina Menge


C. borealis Banks. Penikese, one female, July 27.

Ctenium Menge

C. riparia (Keyserling). Great Head, sifting, female, August 11.

Dipoena Thorell

D. niger Emerton. Station F412, Town Hill, August 6.

Enoplognatha Pavesi

E. puritana Chamberlin and Ivie (marmorata Emerton). Lake Wood, one female.

Euryopis Menge

E. fuxebris Hentz. Head of Somes Sound, May 23.

Rhomphaea L. Koch

R. fictilium (Hentz). One specimen, Mount Kebo. One immature male, S66.

Steatoda Sundevall

S. bipunctata (Linnaeus). An European species, recorded sparingly from the northeastern United States and Canada, probably now established. Female, the Laboratory, the Shack, in old abandoned cellar, dim light, at Indian Point, S60, July 20–September 16, one male in Laboratory with Agelenopsis potteri in web.

T. aurantium Emerton. Two females, Salisbury Cove.
T. differens Emerton. Norway Drive, the Bowl, heath south of Salisbury Cove. Females, F194, F242, F406, F399; males, F406, June 23.
T. frondeum Hentz. Uncommon, but widely distributed in woods. Seal Harbor Brook, July 14, Bass Harbor, August 21 (Britcher).
T. kentuckvence Emerton. Female (dead) in ants nest, May 15.
T. maxillare Emerton. Male type from large sphagnum bog at Southwest Harbor, July 1, 1909 (J. H. Emerton), one female, F410.
T. montanum Emerton. Bass Harbor, August 21 (Britcher).
T. redimitum (Liaeus). Seal Harbor Brook, males and young female.
T. tepidariorum C. L. Koch. A cosmopolitan species abundant in and around houses and buildings. Corfield Laboratory, not uncommon in sheltered spots. Bass Harbor, August 21 (Britcher), two females from a dark and damp cellar in abandoned house, August 17, and three females from similar cellar on Indian Point, August 27.
T. zelotypum Emerton. On trees, uncommon. Corfield, S64, two immature, October 8, 1938, in swallow's nest.

Pisauridae

Dolomedes Latreille

D. scriptus Hentz. A female guarding her nest, taken on west side of Bubble Pond, August 9, 1932, Lake Wood. Female, Dam at Ripple Pond, July 1, 1935.
AGELENIDAE

AGELENOPSIS Giebel


A. utahana Chamberlin and Ivie. Opposite Newport Mountain, McFarland Hill, Seal Harbor Brook, August 1–August 12.

CICURINA Menge

C. brevis (Emerton). North end of Echo Lake, Jordan Mountain, under bark, foot of Newport Mountain, McFarland Hill, Seal Harbor Brook; frequently taken in sifting, August 2–September 2.

C. pallida Emerton. Foot of Newport Mountain, sifting, one female, August 2.


CORAS Simon

C. montanus (Emerton). Young male and female, July 20, 1936. F257.

CRYPHOCEA Thorell

C. montana Emerton. Base of Newport Mountain, Seal Harbor (J. H. Emerton), Lower Breakneck Woods Drive, mature female, August 13, sifting.

TEGENARIA Latreille

T. derhami (Scopoli). F402, one immature female of this common, cosmopolitan house spider.

HAHNIIIDAE

ANTISTEA Simon

A. brunnea (Emerton). One specimen. Duck Brook Path.
H. cinerea Emerton. Duck Brook Path, Great Head, sifting, females, August 11.

Neantesta Gertsch

N. eadula Emerton. The most common species of the sub-family. Sifted from dead leaves in the woods with the two preceding forms. Duck Brook Path, Ocean Drive, Lake Wood, base of Newport Mountain, north end of Echo Lake, Long Porcupine Island, Hare Forest, Great Head, Morrell Park, Reservoir Road, males and females in August.

Lycosidae

Lycosa Latreille

L. helluo Walckenaer. One specimen, Hulls Cove.

Pardosa C. L. Koch

P. lapidicina Emerton. Quite common among stones just above the high-water line. Corfield, Salisbury Cove, Bass Harbor, August 21 (Britcher).


P. modica (Blackwall) (brunnea Emerton). One specimen, Eden (Northeast Branch). One female, Station No. 172.


Pirata Sundevall

P. prodigiosa Keyserling (febriculosa Becker). One young male from Bar Harbor, July 3, 1938, presumably this species. Bass Harbor, August 21 (Britcher).

Tarentula Sundevall

TROCHOSA C. L. Koch


GNAFHOSIDAE (Drassidae)

DRASSIDES Westring

D. neglectus (Keyserling). Under stones, in warm, open, places. Lake Wood, the Hop, Bass Harbor, August 21 (Britcher).

DRASSYLLUS Chamberlin


D. rufulus Banks. Bass Harbor, August 21 (Britcher).

GNAPHOSA Latreille

G. muscorum (L. Koch). (gigantea Keyserling). McKinley, Morrison Farm under oak bark, Cross Road Sal. Cove, opposite Newport Mountain, Sec. 15, Sec. 37, frequent in sifting, July 14–October 5. Bass Harbor, July 24, many specimens beneath stones in cavities, some with egg sacs (Britcher).

HAPLODRASSUS Chamberlin

H. signifer (C. Koch). Cross Road Sal. Cove, foot of Newport Mountain, Reservoir Road, juvenile and immature in siftings, July 12–August 16.

HERPYLLUS Hentz

H. vasifer (Walckenaer). In houses. Rare. Hulls Cove, Bar Harbor.
BIOLOGICAL SURVEY OF

Zelotes Gistel

Z. ater (Hentz). (subterraneus of authors). Lake Wood, Hill in Sec. 40, opposite Newport Mountain, Great Head, Sec. 37, frequent in sifting, July 12–August 11. Bass Harbor, July 24, beneath stones, some with egg sacs (Britcher).

Clubionidae

Agroeca Westring

A. pratensis Emerton. Opposite and at foot of Newport Mountain, Penikese, Great Head, Lower Breakneck Woods Drive, Reservoir Road. Many young specimens taken in sifting, June 25–August 16.

Castianeira Keyserling

C. cingulata (C. L. Koch). An ant mimic. Hulls Cove, opposite and at foot of Newport Mountain, McFarland Hill, Reservoir Road, young and mature rather frequent in sifting leaves, August 1–August 16.

C. crocata Hentz. Bass Harbor, August 21 (Britcher).

Clubiona Latreille


C. obtusa Emerton. Stations F399 and F400, Bass Harbor, male, August 21 (Britcher).

C. pallens Hentz. Morrell Park, male, sifting, August 11.

C. riparia L. Koch. One specimen, Duck Brook Path. One female, Sta. No. 172; four females, F418.

Micaria Westring

M. montana Emerton. This also is an ant mimic. Rare. Salisbury Cove, Seal Harbor Brook, August 12, male taken in sifting, Bass Harbor, August 21, egg sac, July 24 (Britcher).

P. certus Gertsch. Seal Harbor Brook, July 14, male and female.


Scotinella Banks

S. divesta (Gertsch). Bass Harbor, August 21, 1901, female allotype, (Britcher).

S. pugnata (Emerton). (Pleurolithus). Lower Breakneck Woods Drive, one male, sifting, August 13.

Thomisidae

Coriarachne Thorell

C. versicolor Keyserling. Sec. 15 under bark, October 4, Sec. 63, S67, F402, F407. Common on houses and under bark.

Misumena Latreille


Misumenoides F. Cambridge

M. aleatorius (Hentz). In similar situations to the preceding species, common. Eden (Northeast Branch), Salisbury Cove, heath south of Salisbury Cove, Emery District, west of Lake Woods, Hulls Cove, Burnt Porepine Island.
M. asperatus Hentz. On sweet fern, June 23.

Oxyptila Simon

O. americana Banks. Great Head, Morrell Park, Sec. 37, young from sifting leaves, July 12–August 11.

Philodromus Walckenaer


P. placidus Banks. Station F400, F420 on pine, Reservoir Road, June 23–August 19.

P. praelustris Keyserling. Sections 64, 65, and 67.

P. rufus Walckenaer. Heath south of Salisbury Cove, Hulls Cove, Ocean Drive near the Sand Beach, S67, F400, F416, Laboratory, frequent on vegetation, May 18–August 18.

P. virescens Thorell. One young female, Emery Dist., September 7, 1937. Five young females, Sec. 15, September 5, 1937. (A western species not heretofore reported from any states east of Minnesota.)

Thanatus C. L. Koch


Tibellus Simon

T. oblongus (Walckenaer). Swept from grass, the most common member of the Philodrominae. West of Lake Wood, heath south of Salisbury Cove, Norway Drive, Hulls Cove, meadow east of Newport Mountains, Emery Dist., Nurseries, F218, Sec. 11, S61. Mature, June to October.

Tmarus Simon

Xysticus C. L. Koch

X. elegans Keyserling (*limbatus* Keyserling). Salisbury Cove, Hulls Cove, Robinson Mountain, in fungus, August 24, F208, F218, F122, Sec. 6, mostly females, F420, male.


X. ferox (Hentz). Ironbound Island.

X. gulosus Keyserling. Norway Drive, Sand Beach. One female, Indian Point, September 26, 1937.


X. triguttatus Keyserling. Indian Point, Eden (Northeast Branch), F334, Nurseries, June 24, males and females. One male on sweet fern, June 23.

X. ontariensis Emerton. Section 59.

Salticidae (Attidae)

Evarcha Simon


Habronattus Cambridge

H. splendens (Peckham) (*Pellenes*). Heath south of Salisbury Cove.

Icius Simon

I. elegans (Hentz). Heath south of Salisbury Cove.

I. formicarius Emerton. One young female, Bass Harbor, August 21 (Britcher).

I. similis Banks. One young female, Sec. 15, September 5, 1937, F399, F401, June 24.
BIOLOGICAL SURVEY OF

Metaphidippus Cambridge


M. flavipes (Peckham). Section 67.

M. ornatus (Banks). Penikese, beating oak, June 6.

Neon Simon


Paraphidippus F. Cambridge

P. marginatus (Walckenaer). An abundant species. Penikese, beating oak, Emery Dist., Indian Point, Town Hill, Sea Wall Bog, sweeping rank grass, Great Heath, F218, F210, F401, F416, S64, S68, many males and females. June 6–August 25. Female in Malacosoma nest, June 6, 1941.

Phidippus C. L. Koch

P. clarus Keyserling. Heath south of Salisbury Cove, Lake Wood, Reservoir Road, July 2, Nurseries, Sec. 37, sifting July 12, F422, F169.

P. whitmani Peckham and Peckham. Male, Penikese, June 6, beating bush, female, sweet fern, June 23, 1943.

Sitticus Simon

S. palustris (Emerton). Meadow east of Newport Mountain.

Salticus Latreille

Order PHALANGIDA (Opiliones)
(Daddy-long-legs or Harvestmen)

**Phalangidae**

**Caddo Banks**

*C. agilis* Banks. A small, very active species found among moss in very damp places. Duck Brook Path, path from Ocean Drive to Bowl, Long Porcupine Island. Adults appear early in July.

**Odiellus Roewer**

*O. pictus* (Wood). Our most abundant form, found chiefly in grass, at the foot of trees. Adults appear about the middle of July. Corfield, Duck Brook Path, Salisbury Cove, Hill in Sec. 40, Penikese, West Side, Seal Harbor Brook, Lower Breakneck Woods Drive, Reservoir Road, frequently taken in sifting leaves. June 25–August 13.

**Liobunum** C. L. Koch

*L. calcar* (Wood). Corfield, Norway Drive, Not common. Adult males appear as early as the first of July. Seal Harbor Brook, August 12, female, Lower Breakneck Woods Drive, August 13, male.

*L. politum* Weed. Duck Brook Path. Found in similar situations to *Caddo agilis*. Rather rare.

*L. longipes* Weed. Found very rarely with the preceding species.


**Phalangium** Linnaeus

*P. opilio* Linnaeus. A rare form here. One male taken at Corfield early in July. Also taken at Jonesport. F418, one male.
Order ACARINA (Mites and Ticks)

Eriophyidae (The Gall Mites)

Eriophyes Siebold

E. sp. On crumpled leaves, Corfield, August.

Ixodidae

Haemaphysalis Koch

H. leporis-palustris (Packard). On robin, song-sparrow and hermit thrush, June 6–September (Britcher).

Ixodes Latreille

I. sp. On red squirrel, August 9 (Britcher).
I. sp. A very small elongate form from mink.
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