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# BIOLOGICAL SURVEY OF THE MOUNT DESERT REGION

*Founded and directed by*  
**WILLIAM PROCTER**

PART VI

## THE INSECT FAUNA

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

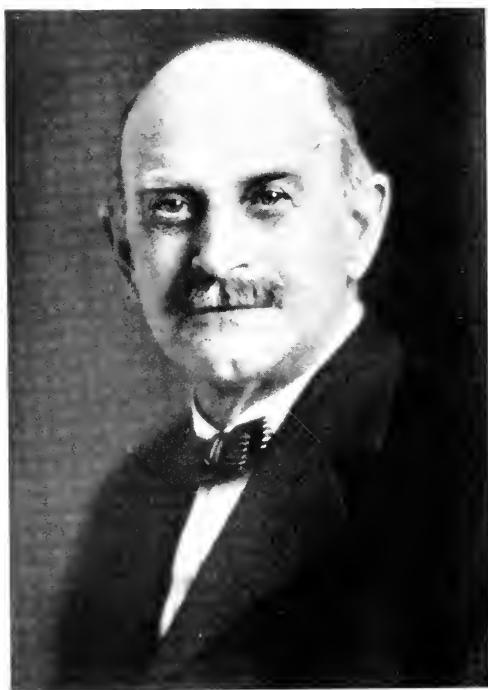
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*Member of the Board of Trustees of the  
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From the Laboratory of  
THE BIOLOGICAL SURVEY OF THE  
MOUNT DESERT REGION  
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Dedicated to  
the memory of

CHARLES WILLISON JOHNSON







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My friend, Dr. Charles P. Alexander, visited the Island about 12 years ago, and for the past 3 years has come with our friend, Mr. Walter Harrison, the botanist, in order to check up the Tipulidae. Some of the best times I have had have been their visits and our collecting trips, and the fact that Doctor Alexander has shown such an interest and written everything connected with that family, gives it the stamp of authority.

Dr. A. E. Brower of the Maine Forest Service has shown great interest in the work and has contributed many records taken through his breeding experiments on the parasitic hymenoptera and has also furnished many records of other species as well as material. Being an expert lepidopterist, the material in that order has had the advantage of his work in collecting and also determining species, which accounts for its being such a well-represented group. He is indicated in the text by (Br.).

Mr. C. A. Frost, Honorary Curator of Coleoptera, New England Society of Natural History, has shown his usual interest in promoting anything that has to do with entomology, and no matter what I have asked him, or when it was asked, he has been most kind in determining species. I give him my hearty thanks.

To the New England Society of Natural History I am indebted for the loan of books, and to their librarian, Miss Mary B. Cobb, who has the true understanding that a library should

be alive, and not a mere collection of books. To the same society, I am indebted for the picture of Mr. Johnson. To Mrs. William Quimby, for the exacting task of typing the manuscript.

With the exception of those mentioned above, no individual or institution has had anything whatsoever to do with this publication, and I feel obliged to make this statement because after Mr. Johnson passed on, certain individuals made statements of friendship and gave the impression that they had helped in his work, whereas, the facts were quite the opposite.

## THE ISLAND OF MOUNT DESERT

"An island full of hills and dells,  
All rumpled and uneven  
With green recesses, sudden swells,  
And odorous valleys driven  
So deep and straight, that always there  
The wind is cradled to soft air."

ELIZABETH BARRET BROWNING

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 re-quoting from Part I of the Survey.



Jordan Pond



A Glacial Boulder

"One<sup>1</sup> 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."

<sup>1</sup>"A preliminary catalogue of the plants growing on Mount Desert," by Edward L. Rand and John H. Redfield, p. 20. Cambridge, 1894.

Prof. M. L. Fernald,<sup>2</sup> 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 Pepper-bush, *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,<sup>3</sup> 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

<sup>2</sup> "An Acadian plant sanctuary." Sieur de Monts Publication, vol. 5, p. 6.

<sup>3</sup> "Scientific aspects of Mt. Desert Island." The Maine Naturalist, vol. 1, p. 100, 1921.

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.,<sup>4</sup> 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°.

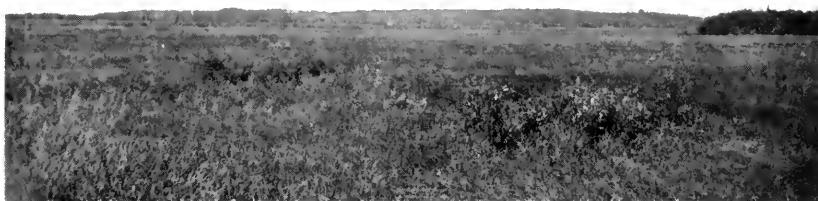
The distribution of most of the maritime insects is governed comparatively little by the corresponding vegetation, although the two frequently show a similar distribution. Temperature and a suitable environment are the principal factors. A low muddy shore with considerable marsh and pools of brackish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

<sup>4</sup>"The distribution of New England Odonata," Proc. Boston Soc. Nat. Hist., vol. 36, p. 110, 1921.

Sable Island.<sup>5</sup> "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."



View on Great Heath



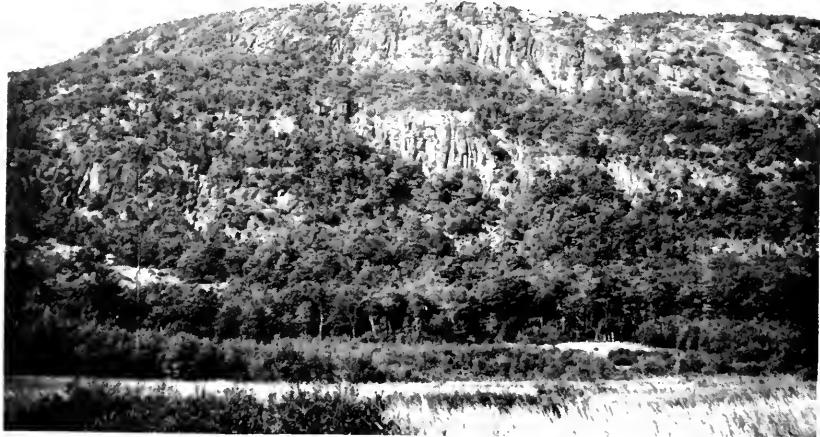
View on Great Heath

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.

<sup>5</sup> "Sable Island with a catalogue of its vascular plants," by Harold St. John, Proc. Boston Soc. Nat. Hist., vol. 36, p. 52, 1921.



The Tarn



Newport Meadow and Newport Mountain

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.

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



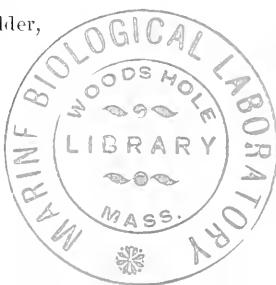
Swamp back of Schooner Head

these the vegetation is brush such as *Myrica gale*, *Kalmia*, and the like, while the floor of all of them is *Sphagnum*. 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.<sup>6</sup> A number of butterflies obtained by various collectors visiting Mount Desert are mentioned in Scudder's great work.<sup>7</sup>

<sup>6</sup> "Cicindelidae of Mt. Desert, Maine," by Edw. Doubleday Harris, Journal N. Y. Entom. Soc., vol. 9, p. 29, 1901.

<sup>7</sup> "Butterflies of eastern United States and Canada," by Samuel H. Scudder, 3 volumes, 1959 pages, and 89 plates, 1889.



The late Prof. H. C. Fernald and his son, Dr. H. T. Fernald, collected many insects on the Island, which are now in the collection of the Massachusetts Agricultural College, Amherst, Mass., while the summers of 1909 to 1911 were spent by the late Dr. Charles Sedgwick Minot at Northeast Harbor, who collected at lights, specializing in Lepidoptera. These are in the collection of the New England (Boston) Society of Natural History.

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.<sup>8</sup> 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. As a mark of affection I dedicate this book to his memory.

#### 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.

<sup>8</sup> 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.



View at Corfield

## CLASSIFICATION

Experience has taught me that when one looks up a form in a check list, he generally turns to another one, so I have thought it well to follow a recognized list in each of the orders. This naturally makes some of the sequence appear a bit out of date, but when all is said, one turns to the index, and this volume is primarily a check list of the insects that have been found here.

I have used in the general classification the List of the Insects of New York, etc. by M. D. Leonard et al. 1928, which has also been followed in the smaller orders, with the exception of the Ephemeridae, Plecoptera, and Trichoptera, which have been brought up to date to conform with the recent work done on them. In the Hymenoptera, the same list has been followed, but in the case of parasitic families, some latitude has been taken in listing them, for they are being constantly re-studied, and there is no stable sequence just at present. In the Microlepidoptera it has been used again, but the genera and families are listed in a reverse order so that they may conform to the Macrolepidoptera list, and the list that we hope will follow it, for these families. The Macrolepidoptera are listed as in the recent check list of the Lepidoptera of Canada, and the U. S. by J. McDunnough 1938.

The Catalogue of the Coleoptera of America etc. by Charles W. Leng 1920 has naturally been used for the beetles, while the Hemiptera of Connecticut, etc. by W. E. Britton et al. 1923, has seemed to me the most rational list to use for the Hemiptera. In the Diptera I have used The Families and Genera of North American Diptera by C. H. Curran 1934 in order to bring that order up to date. The Araenida have the latest classification through the kindness of Dr. W. J. Gertsch.

I have been careful to hold to the original names of places that have come down since they were first given and have paid no attention to some fanciful names recently given. The mountains on the island that have gone down in zoological literature under their original names have been renamed and with what imagination! One huge mass of granite now bears

the name of 'Flying Squadron'! That my course is necessary is apparent when one realizes that the National Park on the Island is now carrying the third name given to it since this list was started.

To students of distribution, variation, and the complexity of insect life, it is important to have a careful survey of the fauna of a region, giving the species found there at a certain time. With this purpose in mind, I have deliberately discarded all records that I do not personally know of, and the species here listed, with the exception of about twenty-five which have been entered for purely sentimental reasons, have been taken within the past 20 years. Where any doubt as to a species has come up, it has been determined by a specialist. Furthermore, principally in the cabinets here, and in Boston, Amherst, Washington, or in the collections of specialists who have helped me, any insect mentioned may be found, with the exception of the Mallophaga and two species of bird flies (Hippoboscidae). To acquire actual records of these would necessitate shooting of 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.

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.

In the following summary the larger and more prominent orders have received the attention. Many groups like the Aphidae, Coccidae, etc., require collecting by specialists. These will be collected, work continued in the larger groups, and the results published.

The abundance of the parasite wasps—Ichneumonidae—and the parasitic flies—Tachinidae—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-liee, 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.

#### COLLECTING

In order to stimulate interest in the collection and study of insects, I have included notes on how to collect, and where to look for many of the species, for it is my hope that more people will take the trouble to interest themselves in this class.

Aside from the aesthetic interest, insects are by far the most interesting of any live thing, when one looks into their habits and life history. Few people realize that man is absolutely dependent upon insects for his existence. Fewer still know anything about them.

Finally, I expect to issue supplements to this list from time to time, and I hope that anyone who wishes to include any insects taken on the Island will send me authentic records. Also in this list as in all others there must be some errors. Please call them to my attention so that corrections may be made in the supplements.

## SUMMARY OF INSECTS TAKEN ON MOUNT DESERT ISLAND

	<i>Families</i>	<i>Genera</i>	<i>Species, etc.</i>
Thysanura	2	2	2
Collembola	1	1	1
Orthoptera	5	23	43
Neuroptera	6	12	28
Ephemerida	6	15	42
Odonata	3	25	54
Plecoptera	2	9	27
Corrodentia	5	9	20
Mallophaga	4	21	105
Thysanoptera	2	2	2
Hemiptera	24	103	166
Homoptera	7	65	153
Coleoptera	68	468	888
Strepsiptera	1	1	2
Mecoptera	1	1	5
Triehoptera	9	37	62
Lepidoptera (macro)	18	360	787
Lepidoptera (micro)	29	193	587
Diptera	64	469	1370
Hymenoptera	40	387	1008
Acarina	1	1	1
Arachnida	13	71	112
Totals	311	2275	5465

## FIELD STATIONS

- 1 May 20-28 Corfield.
- 2 June 13-28 Road to Lakewood, old log.
- 3 June 13-23 Lake Wood, surface of lake.
- 4 June 13-28 Shack at Penikese, pine boards.
- 5 June 15-28 Laboratory.
- 6 June 13-28 Corfield at light.
- 7 Aug. 1-28 Near Eagle Lake.
- 8 June 18-28 Field on Breakneck Road, trap with molasses.
- 9 June 18-28 Breakneck Road, meat trap.
- 10 July 3-28 Corfield garden, flowers.
- 11 Aug. 13-28 Sand Beach. Orange and melon rinds at high water mark.
- 12 Aug. 10-27 Corfield.
- 13 Aug. 27 Traps of cantaloupe at Corfield.
- 14 Oct. 6-27 Stanley's Lobster Pound, Sea Wall. Old lobster, clam shells, and fish refuse.
- 15 Sept. 27 Traps of meat at Penikese.
- 16 Sept. 24-29 Penikese spruce grove, meat trap 3 ft. 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 Corfield at light. Locust in bloom, quite warm.
- 23 June 14-31 Opp. Penikese. Hay ready to cut, daisies, sweeping.
- 24 July 15-31 Small road off Norway Drive. Warm, beating alder bushes.
- 25 Aug. 1-31 Abel's beside road. Goldenrod, fern, spirea, warm and fair, sweeping.
- 26 Aug. 1-31 Seal Cove school house. Goldenrod, alder, spirea, warm and fair, sweeping.
- 27 Aug. 1-31 Road from Long Pd. to Beech Hill. Raspberry and fern, warm and fair, sweeping.
- 28 Aug. 15-31 Cor. Middle Rd. and one to Town Hil. 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.
- 32 Sept. 17-31 Lab. Vines on Lab. Hatch of flies; gentle rain; warm afternoon.
- 33 Sept. 18-31 S. W. Harbor ice pond. Under stones at edge of pond.
- 34 Sept. 19-31 E. side of road near Tarn. Meat trap.
- 35 Oct. 13-31 Field short distance up Breakneck Rd. Frosted vegetation A.M., warm, sweeping.
- 36 Sept. 10-31 Green Mt. Road. Traps, meat and fish.
- 37 Sept. 12-31 Corfield. Phlox in bloom. Light.
- 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.
- 41 June 12-32 Lee property, upper part. Very warm.
- 42 June 9-32 Penikese. Beating; the flies were on oak.
- 43 July 5-32 Lab. Spruce logs cut 1930, collected Oct. 31. Hatched in lab.
- 44 July 16-32 Road near Witch Hole. Clover, raspberry, bracken, bright and clear; sweeping.
- 45 Aug. 6-32 Corfield light. Room at garage from Aug. 4th.
- 46 Aug. 6-32 Witch Hole. From pads and flowers yellow water lilies.
- 47 Aug. 7-32 Henderson stable. General foliage, beating.
- 48 Sept. 30-32 Center trail, Western Mt. Vegetation about dead. Clear and cool.
- 49 Oct. 3-32 Woods opp. Penikese. Decayed toadstools, dry and black.
- 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. Spirea, 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.
- 59 Sept. 19-29 Penikese spruce grove. Meat trap set for a month 4 ft. from ground.
- 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.
- 63 Aug. 25-29 N. of road, salt marsh, N. E. Branch. Bright, clear, and warm.
- 64 Aug. 23-29 N. E. Branch W. of brook. Bushes and pasture.
- 65 Aug. 22-29 Burnt Porcupine Isl. Rocks, logs turning. Clear and 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.
- 69 Aug. 18-29 Corfield near dock. Night light. Cold for date.
- 70 Aug. 8-29 Opp. Penikese. Second crop clover. Sweeping. Clear and hot.
- 71 Aug. 8-29 Opp. Penikese. Dried grass.
- 72 July 27-29 Penikese. Sweeping grass and bushes around edge of field.
- 73 July 20-29 Road S. W. II. X McKinley, left side. Sweeping.
- 74 July 25-38 Witch Hole Br. Rank vegetation in woods. Sweeping for crane flies with Alexander and Harrison.
- 75 May 30-28 Breakneck Rd. before bridge. Trees just in leaf. Violets, rhodora, just out.
- 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.
- 81 June 8-28 Field on Sand Pt. X Sal. C. road. Lilaes out. Warm, sunny.
- 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.
- 85 June 15-28 Penikese. Warm. Bushes in bloom. Beating.
- 86 June 18-28 Path lower Breakneck Pd. Warm. Trees in full leaf. Flying in road.
- 87 Aug. 20-28 N. E. Branch near mouth. Intertidal, *Anurida maritima*; not very common, C. H. B.
- 88 Sept. 4-28 Penikese. Beating bushes, mostly alder.
- 89 Sept. 0-28 Sand Beach; sweeping grass, raspberry.
- 90 July 16-28 The Hop. Stones and rank grass and gull's nests.

- 91 June 22-28 Near Lake Wood. Logs.  
 92 June 23-28 Near Lake Wood. Cicindellids on road.  
 93 June 23-28 Witch Hole. In grass near meadow.  
 94 June 25-28 Sal. Cove, back of Card's.  
 95 June 25-28 Near Eagle Lake.  
 96 June 25-28 Sal. Cove, back of Card's. Hatched from fungus found under birch log.  
 97 July 7-28 Road Emery Dist. X Sal. Cove. Warm and sunny. Sweeping.  
 98 July 7-28 Bay Shore Drive. Warm and sunny; sweeping weeds.  
 99 June 12-29 Penikese. Full leaf after apple bloom, beating mostly oak.  
 100 July 27-38 Bubble Pond inlet. Warm, damp A.M. Sweeping crane flies with Harrison and Alexander.  
 101 July 28-38 Lower Breakneck Pond. Dark A.M., sweeping the bog with Alexander and Harrison.  
 102 Aug. 5-38 Clark Ridge. General vegetation; sweeping.  
 103 Aug. 15-38 Hunters Beach Brook, both sides from road to shore.  
 104 Sept. 10-28 Fields near Breakneck Dr. Sunny; sweeping.  
 105 July 5-28 In jar where *Malacosoma* were raised.  
 106 June 0-28 Town Hill collected June 1st, one-half grown; stopped eating June 30th. Cocoons July 2nd; hatched July 20th.  
 107 July 30-28 Sal. Cove—Card's in grass, by sweeping.  
 108 July 30-28 Corfield in grass.  
 109 July 20-28 Corfield around porch.  
 110 July 30-28 Clark Cove near Morris Camp. Grass.  
 111 Aug. 8-29 Shore along Sea Wall. Rank grass, gale, sweet fern.  
 Sept. 10-28 Corfield near Lab. Many flying. First time seen.  
 112 Sept. 10-28 Morell Park. Solidago, asters, etc.  
 113 Sept. 19-28 Abandoned house on Norway Drive, beetle and hymen nest under board.  
 114 Sept. 19-28 Morell Park. Solidago, weeds, aster.  
 115 Sept. 19-28 Near Rhodora Meadow, skating on puddle in road.  
 116 Sept. 22-28 Field back of Eden Fair Grounds. Solidago, etc.  
 117 Aug. 25-28 Corfield in grass.  
 118 June 24-29 Abandoned house Norway Drive, 3 P.M., dark and foggy, sweeping.  
 119 July 27-29 Eden at curve; S. side of road, sweeping grass and weeds.  
 120 July 4-29 Field S. end Norway Dr. White daisy, paint brush, etc. Cool and windy, bright.  
 121 June 26-29 Long Porcupine, breaking up rotten logs, mostly birch.  
 122 Aug. 10-28 Long Porcupine under stones when cutting path.  
 123 Sept. 25-28 Saw mill ground beyond Indian Point Sec. 15, sweeping various bushes, etc.  
 124 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.  
 127 Sept. 15-33 Near Henderson stable. Meat trap.  
 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.
- 136 Aug. 1-33 Cross Rd. to Sal. Cove swamp. Carrot blossoms.
- 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.
- 149 Aug. 21-33 Cedar swamp Eagle Lk. X N. E. H. Rd. Moss, rotten logs in dark swamp. Meat trap.
- 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.
- 155 Sept. 14-33 Blair property. Meat trap from Aug. 25th.
- 156 Sept. 14-33 Entrance to Abel's. Meat trap on burnt-over land.
- 157 Aug. 10-33 Penikese wood shed. Trap, baited with bacon.
- 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 *Heracium*, 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.
- 174 July 27-34 Penikese in hollow. Sweeping bushes. Warm and dry.
- 175 Sept. 1-34 See. 28. Sweeping. Clear, cool, solidago, etc.
- 176 Sept. 3-34 Swamp back of beach opp. Rummell Isl. W. side. Weeds, cranberry, beach pea, warm P.M.
- 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 See. 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 See. 15, yellow birch log.
- 184 Sept. 13-34 Sect. 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.
- 194 June 12-35 Witches Hole X Breakneck, sweeping and netting. Warm A.M. after rain.
- 195 June 14-35 Bubble Pond. Blackberries in bud. C. P. A. and Harrison for crane flies.
- 196 June 16-35 Breakneck Brook from road to top. Full spring. C. P. A. and Harrison.

- 197 June 17-35 Canada Brook. Brook ruined by C. C. C. boys. C. P. A. and Harrison.
- 198 Jnne 18-35 New Mill Meadow and Witches Hole, flying along road. C. P. A. and Harrison.
- 199 June 22-35 Somes Sound Inlet; full spring, C. P. A. and Harrison, warm A.M.
- 200 June 24-35 Duck Brook, warm, chauliodes sericeornis swarming. C. P. A. and Harrison.
- 201 June 28-35 Breakneck Rd. to Witches Hole, full June, damp and warm.
- 202 June 29-35 Pond beside Indian Pt. X Somesville Rd. Rushes, netting. Very warm P.M.
- 203 July 2-35 Witches Hole, flying over pond A.M.
- 204 July 2-35 New Mill Pond, flying over marsh, A.M.
- 205 July 12-35 New Mill Pond, white lilies just out. Collecting Grimidae, also rocks at dam for Dryops.
- 206 July 12-35 Witches Hole Creek, heavy and dark, turning stones for Dryops.
- 207 July 18-35 Brook from Eagle Lake dam to road.
- 208 July 23-35 Section 20. Fern, spirea, grass; very hot and sultry.
- 209 July 27-35 Brook at B. H. X Mt. Desert line W. side. Ferns mostly. Clear and warm.
- 210 July 29-35 Marshwood, sweeping fern, kalmia, bayberry. Warm and clear.
- 211 July 30-35 Carriage road Bubble Br. to Chasm Br. Sweeping all day, warm and bright.
- 212 July 31-35 Dugout peat swamp on S. W. H. X Seal Cove road. After Dytiscus larvae that were eating trout. Beetles just hatched. With Br.
- 213 Aug. 3-35 Path E. from foot of Breakneck Rd. Ferns, grass, swamp wooded.
- 214 Aug. 7-35 Seal Cove B. Wild carrot and ferns.
- 215 Aug. 9-35 Seal Cove B. Wild carrot.
- 216 Aug. 24-35 Abel's. Rank and green weeds. Warm and clear.
- 217 Aug. 29-35 Top of Breakneck Br. Turning stones, brook very low.
- 218 Sept. 3-35 Deer Br. from Jordan Pond to top. Rock brook with low water, very steep, dense dark woods.
- 219 Sept. 11-35 Bay Shore Drive. Solidago, white aster, etc. Clear, sunny.
- 220 Sept. 15-35 Canon Brook from top to bottom. Very dry after drought, moss dead. All specimens taken between 1000 and 800 alt.
- 221 Sept. 19-35 Bay Shore Drive. Warm after rain. Sweeping mise.
- 222 Sept. 23-35 Brook and cedar swamp at Mt. D. X B. H. line W. side. Ferns, sphagnum, etc., clear, temp. 50.
- 223 Sept. 24-35 Woods N. S. de M. Spring. Ferns, moss, etc., for crane flies.
- 224 Sept. 23-35 Corfield cellar, in fire wood.
- 225 Oct. 4-35 Inlet of Bubble Pond. Swamp, clear and warm.
- 226 Oct. 5-35 Gt. Heath. Out in the heath, Br.
- 227 Oct. 5-35 Gt. Heath. Woods around N. side, Br.
- 228 Oct. 8-35 Somesville X N. E. H. road at Brown Mt. path. Clear after freeze night before.
- 229 Oct. 6-35 Breakneck Br. at top. Overcast, sweeping sides; ferns almost gone.

- 230 Oct. 6-35 Breakneck Br. E. of road. Heavy wooded swamp.  
 231 Oct. 8-35 Sand Pit Sargent Dr. Sweeping; clear after heavy frost.  
 232 Oct. 10-35 Duck Brook. Warm day, after frost.  
 233 Oct. 1-35 North shore of Eagle Lake. Meat trap in moss.  
 234 Oct. 17-35 Marshwood, sweeping open places after frost.  
 235 Oct. 17-35 Marshwood. Manure piles in fields.  
 236 May 11-35 Bar Harbor Br. Willow catkins.  
 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.  
 240 May 11-35 B. II. Br. Willow catkins.  
 241 Apr. 21-34 Old Beaver Dam, Br. From willow catkins.  
 242 Apr. 21-34 Camp Grounds, Br. From willow catkins.  
 243 June 13-36 Road by Half Moon Pond. Full early foliage. Warm A.M. after rain.  
 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.  
 252 July 18-36 Tremont X Mt. Desert Line. Woods, ferns, sweeping.  
 253 July 18-36 Tremont X Mt. Desert Line. Woods, stream, A.M.  
 254 July 15-36 Camp Grounds, sweeping.  
 255 July 21-36 Bay Shore Drive. Spirea, wild carrot. Tabanids in road.  
 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.  
 259 July 26-36 Eden Fair Grounds. Warm and clear A.M. after storm. Wild roses beside road.  
 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.  
 264 Aug. 10-36 Road Witches Hole and Half Moon Pd. Goldenrod. Very hot A.M.  
 265 Aug. 18-36 Wood road E. of Feno 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., insects 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.
- 272 June 9-38 Ireson Hill, wet spot with stones. Carabidae.
- 273 Aug. 27-38 Half Moon Pd. Brook. Cool windy evening. Sweeping.
- 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.
- 285 Aug. 22-37 Bartlett's Isl. Landing Pretty Marsh, turning stones at top of shore with Brower.
- 286 Aug. 22-37 Center Schoolhouse, swamp opp., searching sphagnum moss with Brower. Very hot.
- 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.
- 290 Sept. 30-37 Western Mt. Summit. Blueberry and low bushes. Clear with frosts.
- 300 Apr. 25-36 Around Breakneck, beating catkins; cold and windy.
- 301 Apr. 25-36 Lower Breakneck, catkins, cold and windy.

## 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

## Class INSECTA

### Order THYSANURA

#### LEPISMIDAE

THERMOBIA Bergroth

T. DOMESTICA Pck. Bar Harbor, May 18 (Br.).

#### CAMPODEIDAE

CAMPODEA Westwood

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

## COLLEMBOLA

#### PODURIDAE

ANURIDA Laboulbene

A. MARITIMA Guer. On seashore between tide marks. North-east Branch, July-Aug.

### Order ORTHOPTERA

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

#### BLATTIDAE. Cockroaches

BLATTELLA Caudell

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

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.

## ORCHELIMUM Serville

*O. GLADIATOR* Brun. Meadow Grasshopper. Meadow south of Eden, Aug. 9-11; Penikese, Aug. 2; Mt. Desert (Br.), Aug. 28. Not common.

## CONOCEPHALUS Thunberg

*C. FASCIATUS* (DeG.). Slender Meadow grasshopper. S. W. Harbor, Sept. 6. Station F184, Sept. 13. Occurs from July 15 to frost.

*C. BREVIPENNIS* (Seud.). 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.

## CEUTOPHILUS Seudder

*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* Seud. 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.
- C. NIGRICANS Scud. Yellow-bellied Camel Cricket. Bar Harbor, Aug. 19–Sept. 13 (Br.).

## 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 FASCIATUS (DeG.). Striped Grass-cricket. Bar Harbor; Narrows, Aug. 13–14. Bay Shore Drive meat trap, Sept. 11. Penikese, Oct. 3.

- N. PALUSTRIS Blatchley. Sphagnum Cricket. Common in Sphagnum bogs. Witch Hole Pond; Tremont, Aug. 18–23.

- N. CAROLINUS Scud. Carolina Ground Cricket. Bar Harbor, Aug. 14.

## OECANTHUS Serville

- O. NIGRICORNIS Wlk. Dusky Tree-cricket. Mt. Desert (Br.), Aug. 28; Section 15 sweeping goldenrod, etc., Sept. 6, and (Br.) Sept. 16.

## ACRIDIDAE. The Short-horned Grasshoppers

## CHLOEALTIS Harris

- C. CONSPERSA Harr. Sprinkled Locust. Long Pond, Aug. 21. Found sparingly in pastures.

## ORPHULELLA Giglio-Tos

- O. SPECIOSA (Scud.). Pasture Locust. Eden, Aug. 11; Penikese, July 31; near Nurseries (Br.), Aug. 11.

## CHORTIPPUS Fieber

*C. CURTIPENNIS* (Harr.). Meadow Locust. Common, July 16–Aug. 23.

## 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.

## CHORTOPHAGA Saussure

*C. VIRIDIFASCIATA* (DeG.). Green-striped Locust. Salisbury Cove, June 9. Not common.

## CAMNULA Stål

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

## DISSOSTEIRA Seudder

*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 with gray to cinnamon color variation.

## CIRCOTETIX Seudder

*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.

## MELANOPUS Stål

- M. MEXICANUS ATLANTIS (Riley). Lesser Migratory Locust. Common, Aug. 13 until frost from top of Green Mt. to sea level.
- 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. BOREALIS (Fieb.). Northern Meadow Locust. Eden; Bar Harbor, June 9–July 29.
- M. KEELERI LURIDUS (Dodge). Broad-necked Locust. One specimen taken at Section 20 sweeping grass, Sept. 13.
- 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.).

## ACRYDIIDAE. The Grouse or Pygmy Locusts

## NOMOTETTIX Morse

- N. CRISTATUS CRISTATUS (Send.). Crested Pygmy Locust. Bar Harbor; Eden; S. W. Harbor; June 13–Aug. 18. Stations F31, F48, and F210. An immature one taken Oct. 10. Common on light soils.

## ACRYDIUM Geoffroy

- A. GRANULATUM GRANULATUM Kby. Granulate Pygmy Locust. Bar Harbor, (Br.) May 4; Bar Harbor, June 8–13; Witches Hole, Sept. 20.
- A. GRANULATUM var. INCURVATUM Hancock. Broad-shouldered Angulate Pygmy Locust. Beach Mt., 800 ft. Sept. 12 (Alexander).

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

*A. SUBULATUM GRANULATUM* (Linn.). Bar Harbor, (Br.) May 15-June 27.

*A. ORNATUM* Say. Ornate Pygmy Locust. Bar Harbor, June 27.

TETTIGIDEA. Scudder

*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 with Brower, Aug. 21.

Order NEUROPTERA

SIALIDAE

*SIALIS* Latreille

*S. INFUMATA* Newn. • 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.

*S. sp.* Eden, June 26, 1934. Scarce.

CHAULIODES Latreille

*C. FASCIATUS* Walk. Sieur de Monts Spring, Corfield, June 21. Scarce.

*C. RASTRICORNIS* Rham. Corfield at light, June 29-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.

## SISRIDAE

SISYRA Burmeister

S. VICARIA var. UMBRATA Needh. S. W. Harbor, Sept 3 (Alexander).

CLIMACIA McLachlan

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

## SYMPHEROBIIDAE

SYMPHEROBIUS Banks

S. AMICULUS Fitch. N. E. Harbor, July 1–Aug. 10 (Minot).

## HEMEROBIIDAE

HEMEROBIUS Linnaeus

H. CONJUNCTUS Fitch. N. E. Harbor, Aug. 18.

H. HUMULI Linn. N. E. Harbor, July 17 (Minot).

H. HYALINATUS Fitch. N. E. Harbor, Aug. 25.

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).

## BORIOHYIA Banks

B. DISJUNCTA Banks. S. W. Harbor; N. E. Harbor, Aug. 24–Sept. 27.

B. LONGIFRONS Walk. Common, June 10–Aug. 29

## MICROMUS Rambur

M. ANGULATUS Steph. S. W. Harbor, June 24.

M. MONTANUS Banks. N. E. Harbor, Sept. 4 (Minot).

M. POSTICUS Walk. S. W. Harbor, Aug. 29 (Alexander).

## CHrysopidae

CHrysopa Leach

C. OCULATA Say. S. W. Harbor; Eden, June 27–Aug. 22.

C. NIGRICORNIS Burm. Bar Harbor; Eden, July 10–Aug. 11.

C. YPSILON Fitch. Eden, July 18.

## MELEOMA Fitch

*M. EMUNCTA* Fitch. N. E. Harbor, Aug. 10.

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

*M. VERTICALIS*. Bar Harbor, June 7–July 16.

## 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.).

## 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.

## EPIHEMERA Linnaeus

*E. SIMULANS* Walk. Echo Lake, July 17–Sept. 7.

## LEPTOPHLEBIIDAE

## 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. CUPIDA Say. Bald Mt. evidently blown from Seal Cove Pond, June 6.

L. JOHNSONI McD. Bar Harbor, June 11–July 1.

L. NEBULOSA Wlk.

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).

## EPHEMERELLIDAE

## EPHEMERELLA Walsh

E. DEFICIENS Morgan. Duck Brook and Ripple Pond outlet, July 3–4 (Spieth).

E. DOROTHEA Ndm. June 12 (Br.).

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. AMICA. Gt. Heath, Aug. 22.

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

## BAETIDAE

## BAETIS Leach

B. PLUTO McD. Duck Brook, July 3 (Spieth).

B. PYGAEMUS 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. HAGENI* Eaton. Bar Harbor, July 1–Sept. 7 (Br.). Great Heath, Aug. 22.

*C. FLUCTUANS* Wlsh. Aug. 17 (Br.).

*C. FERRUGINEUS* Walsh. Bar Harbor, July 29.

CLOEON Leach

*C. RUBROPICTUM* McD. Echo Lake, July 4 (Spieth).

*C. sp.* Echo Lake (Br.).

SIPHONURIDAE

AMELETUS Eaton

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

SIPHONURUS Eaton

*S. BERNICE* 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. HUMERALIS* Morgan. Duck Brook, July 3 (Spieth).

STENONEMA Traver

*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

## AESCHNIDAE. Dragon flies

GOMPHUS Leach

**G. EXILIS** Selys. Witch Hole Pond; Bar Harbor, June 6–July 30. Common about the shores of ponds.

**G. SPICATUS** Hagen. Witch Hole Pond; Bar Harbor, June 11–July 30. Same habitat as above.

GOMPHAESCHNA Selys

**G. FURCILLATA** Say. Prefers to "hawk" along roads adjacent to ponds. Breakneck to Witch Hole road, June 7. Common.

BOYERIA McLachlan

**B. VINOSA** Say. They fly up and down woodland brooks. Seal Cove Brook, Sept. 8.

ANAX Leach

**A. JUNIUS** Drury. Various places back of south shore of the island in September. Hatched in laboratory Aug. 28.

AESCHNA Fabricius

**A. UMBROSA** Walk. Frequents shady brooks. Bar Harbor, Aug. 10; N. E. Harbor, Sept. 6 (Merrill). Bubble Br., Oct 1.

**A. INTERRUPTA** Walk. Witch Hole, Oct. 10.

**A. CLEPSYDRA** Say. On most swamps from June 15 to Sept. Bar Harbor, Aug. 16.

**A. CANADENSIS** Walk. Its habitat is the marsh from June 15. Bar Harbor, Aug. 16.

CORDULEGASTER Leach

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

**C. DIASTATOPS** Selys. On all the streams during the warm weather. S. W. Harbor, June 20.



## LIBELLULIDAE. The Skimmers

## DIDYMOPS Selys

D. TRANSVERSA Say. A wide ranging form that is common on all part of the island from the middle of June to August.

## TETRAGONEURIA Hagen

T. CYNOSURA Say. Echo Lake, July 12. A strong flying form over ponds.

T. SPINIGERA Selys. Breakneck Road; Witch Hole, June 6-12. A northern form.

## SOMATOCHLORA Selys

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

## CORDULIA Leach

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

## DOROCORDULIA Needham

D. LIBERA Selys. Found around the boggy borders of ponds from the first of June to August.

D. LEPIDA Hagen. Same as that above.

## NANNOTHEMIS Brauer

N. BELLA Uhler. Witch Hole Pond, June 13. Lower Breakneck Pond, July 8.

## CELITHEMIS Hagen

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

## LIBELLULA Linnaeus

L. SEMIFASCIATA Burmeister. An early form that frequents the brooks.

L. QUADRIMACULATA Linn. June the first to August on ponds as well as brooks.

L. EXUSTA Say. Witch Hole Pond; Long Pond, June 13-26. On the ponds.

## PLATHEMIS Hagen

P. LYDIA Drury. An all summer form that stays on the ponds.  
Bar Harbor, June 11-July 20.

## SYMPETRUM Newman

- S. RUBICUNDULUM Say. Common; Echo Lake; Bar Harbor;  
Tremont, Aug. 9-Sept. 8. Found on the wet meadows.
- S. COSTIFERUM Hag. Bar Harbor, Aug. 18. Not as common  
as the above.
- S. OBTRUSUM Hag. Narrows; Witch Hole Pond, Aug. 13-18.  
Feather Bed Alt. 1000, Sept. 14.
- S. VICINUM Hagen. Bar Harbor, Aug. 10. See. 28, Oct. 17.  
A beautiful autumnal species.

## LEUCORRHINIA Brittinger

- L. INTACTA Hagen. Common from the first of June to Aug. 1.
- L. GLACIALIS Hagen. Echo Lake; Beaver Dam; Witch Hole;  
New Mill Meadow, June 18-July 24.
- L. FRIGIDA Hagen. Echo Lake; Witch Hole Pond, June 13-  
July 30. Common.
- L. PROXIMA Calvert. Witch Hole Pond; Bar Harbor; New  
Mill Pond; Indian Point, June 11-July 24.
- L. HUDSONICA Selys. Canada Brook, June 17; New Mill  
Meadow, June 18; Witch Hole, July 2; New Mill Pond,  
July 2.

## HELOCORDULIA Needham

- H. UHLERI Selys. A bog loving species and flying from June  
to the end of July.

## BASIAESCHNA Selys

- B. JANATA Say. Common at New Mill Meadow, Witch Hole  
and other ponds and streams in early summer.

## AGRIONIDAE. The Damsel flies

## AGRION Fabricius

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

## 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 X Mt. Desert line, Sept. 22. Rare.

*L. UNGUICULATUS* Hagen. A pond and marsh form. Sea Wall, Aug. 24–Sept. 8.

*L. FORCIPATUS* Rambur. Bar Harbor, July 24. New Mill Pond, Aug. 29. Frequents secluded spots.

*L. UNCATUS* Kirby. Bar Harbor; S. W. Harbor, July 13–29.

*L. VIGILAX* Hagen. Witch Hole, June 13. Not common.

*L. DISJUNCTUS* Selys. Bar Harbor, July 29.

## ARGIA Rambur

*A. VIOLACEA* Hagen. Eagle Lake, July 18. Bubble Brook, July 20.

*A. MOESTA* (Hag.). Long Pond, June 20; Outlet Eagle Lake; Bubble Brook, July 18–20.

## 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

*C. CONDITUM* Hagen. Seems to prefer small ponds. Bar Harbor, June 11.

## ENALLAGMA Charpentier

*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. BOREALE* Selys. Breakneck Road; Witch Hole, June 6. Common.

*E. CYNATHIGERUM* Charp. A common widely distributed form.

*E. EBRIUM* Hagen. This species travels far from the ponds. Common.

*E. exsulans* Hagen. A stream species. N. E. Harbor (Merrill).

*E. civile* Hagen. Another common all summer species.

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

*ISCHNURA* Charpentier

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

Order CORRODENTIA

PSOCIDAE

*Psocus* Latrielle

*P. confraternus* Banks. S. W. Harbor; Duck Brook, Aug 20–Sept. 11.

*P. hageni* Banks. Green Mt.; N. E. Harbor (Minot), Aug. 17–18.

*P. leidyi* Aaron. Beach Mt., Sept. 12 (Alexander).

*P. moestus* Hag. S. W. Harbor, Aug. 26–Sept. 12 (Alexander).

*P. novaescotiae* Walk. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).

*P. quietus* Walsh. S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).

*P. perplexus* Walsh. Common, July 30–Aug. 30.

*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).

*GRAPHOPSOCUS* Kolbe

*G. cruciatus* Linn. Bar Harbor, June 17–25.

## CAECILIIDAE

CAECILIUS Curtis

C. AURANTIACUS Hag. Echo Lake; Witch Hole Pond; S. W. Harbor, July 21–Sept. 12. Flying in the evening at Corfield, Oct. 22.

C. sp. Beach Mt., Sept. (Alexander).

## POLYPSCUS Hagen

P. CORRUPTUS Hag. Bar Harbor; S. W. Harbor, July 12–Sept. 12.

## PERIPSOCUS Hagen

P. MADESCENS Walsh. S. W. Harbor (Alexander); Long Pond, Aug. 26–Sept. 9.

P. MADIDUS Hag. Witch Hole Pond; S. W. Harbor; Beach Mt., July 30–Sept. 12.

## MYOPSOCIDAE

LICHENOMIMA Enderlein (*Myopsocus* Hagen)

L. LUGENS Hag. Salisbury Cove, July 15.

L. SPARSUS Hag. Duck Brook, Aug. 18.

## MESOPSOCIDAE

ELIPSOCUS Hagen

E. CANADENSIS Prov. Long Pond; Seal Cove; Bar Harbor, Sept. 7–10.

## PHILOTARSUS Kolbe

P. n. sp. (Chapman). S. W. Harbor; Beach Mt., Aug. 31–Sept. 12 (Alexander).

## LEPIDOPSOCIDAE

ECHMEPTERYX Aaron

E. HAGENI (Pack.). Station F287, Aug. 28.

## 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. MEDIA Walk. Long Pond, June 25-27.

P. sp. Long Pond, June 15.

## ALLOPERLA Banks

A. LATERALIS Banks. Valley Cove, Breakneck Br., June 16.

Canyon Brook, June 23-July 25 all (Alex.) Bar Harbor, June 15-July 20.

A. MEDIANA Banks. Bar Harbor, June 14. Echo Lake, June 22. Breakneck Brook, June 16 and Canyon Brook, June 23 (Alex.).

A. IMBECILLA Say. Breakneck Br., Duck Br. and Sea Wall Bog, June 16 (Alex.).

## CHLOROPERLA Newman

C. CYDIPPE Newn. Echo Lake, July 12. Duck Br., June 16.

## ISOPERLA Banks

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

I. MONTANA Banks. Bar Harbor, June 8. Duck Brook, June 16, Breakneck Brook, June 16 (Alexander).

## PERLINELLA Banks

P. DRYMO Newn. Jordan Pond, June 16.

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

## ACRONEURIA Pictet

- A. ABNORMIS* Newn. Corfield at light, July 6, 1936. Scarce.  
*A. LYCORIAS* Newn. Long Pond, July 20.  
*A. PENNSYLVANICA* (Rambur). Record of capture lost.

## NEMOURIDAE

## NEMOURA Latreille

- N. PUNCTIPENNIS* Clssn. Canyon Brook, June 23 and Valley Cove, June 19 (Alexander).  
*N. SERRATA* Claas. Bar Harbor, June 8.  
*N. SINUATA* Wu. Breakneck Brook, June 16; Canyon Brook, June 23 (Alexander).  
*N. VENOSA* Banks. Long Pond, Witch Hole Brook and Bubble Pond, June 27-July 25 (Alexander). Seal Harbor Brook, Aug. 22.  
*N. sp.* Bar Harbor, May 25 (Br.). Bar Harbor, June 7; Witch Hole Brook, July 12.  
*N. n.sp.* Valley Cove, June 19 and Canyon Brook, June 23 (Alexander).

## LEUCTRA Stephens

- L. DECEPTA* Clssn. Valley Cove, Bubble Pond, Breakneck Brook, and Canyon Brook, June 19-July 26 (Alexander).  
*L. DUPLICATA* Clssn. Duck Brook, Bubble Pond, and Canyon Brook, June 16-July 25 (Alexander).  
*L. GRANDIS* Bks. Breakneck Brook and Duck Brook, June 16 (Alexander). Reported previously from North Carolina.  
*L. TENUIS* Clssn. Duck Brook, Aug. 22.  
*L. TRUNCATA* Pictet. 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 MALLOPHAGA

## MENOPONIDAE

## MENOPON Nitzsch

*M. GALLINAE* Linn. Common chicken louse.

*M. STRAMINEUM* Nitz. Infests domestic fowls.

*M. CROCATUM* Nitz. Occurs on American woodcock.

*M. EXPANSUM* Osb. Occurs on bobolink.

## COLPOCEPHALUM Nitzsch

*C. FUSCIPES* Piaget. Infests various gulls.

*C. PICEUM* Denny. Found on great black-backed gull.

*C. OCHRACEUM* Nitz. Occurs on pectoral sandpiper.

*C. PUSTULOSUM* Piaget. Infests belted kingfisher.

*C. SUBPACHYGASTER* Piaget. Occurs on great horned owl.

## ACTORNITHOPHILUS Ferris

*A. AFFINE* Nitz. Found on spotted sandpiper.

*A. FUNEBRE* Kell. Infests various gulls.

*A. MINUS* Kell. & Chap. Occurs on sanderling.

*A. TIMIDUS* Kell. On golden and black-bellied plovers.

## MYRSIDEA Waterston

*M. AMERICANA* Kell. Occurs on common crow.

*M. CUCULARIS* Nitz. Occurs on starling.

*M. CRASSIPES* Piaget. Found on Baltimore oriole.

*M. DISSIMILIS* Kell. Infests purple martin.

*M. INTERRUPTA* Osb. Found on common crow.

*M. INCERTA* Kell. Occurs on various passerines.

*M. RUSTICA* Nitz. Infests purple martin.

## TETROPHTHALMUS Grosse

*T. INCOMPOSITUS* Kell. & Chap. Occurs on double-crested cormorant.

## DENNYUS Neumann

*D. DUBIUS* Kell. Occurs on chimney swift.

*D. TRUNCATUS* Olfers. Also found on chimney swift.

## TRINTON Nitzsch

*T. LITURATUM* Nitz. Infests duck and geese.

*T. QUERQUEDULAE* Linn. Occurs on the various wild ducks.

## PSEUDOMENOPON Mjöberg

*P. PACIFICUM* Kell. Found on grebes.

*P. TRIDENS*. On horned grebe.

## LAEMOBOTHRIIDAE

## LAEMOBOTHRION Nitzsch

*L. NIGRUM* Burm. Occurs on coots.

*L. TITANS*. On bald eagle.

## RICINIDAE

## RICINIS De Geer

*R. ANGULATUS* Kell. Found on kingbird.

*R. FRENATUS* Nitz. Occurs on golden-crowned kinglet.

*R. LINEATUS* Osb. Found on ruby-throated hummingbird.

## PHILOPTERIDAE

## GONIODES Nitzsch

*G. DAMICORNIS* Nitz. Infests domestic pigeon.

## LIPEURUS Nitzsch

*L. CAPONIS* Linn. Infests domestic fowls.

*L. HETEROGRAPHUS* Nitz. Also on domestic fowls.

## PHILOPTERUS Nitzsch

*P. AGELAII* Osb. Found on red-winged blackbird.

*P. AURITUS* Seop. Occurs on hairy woodpecker.

*P. BUTEONIS* Pack. Infests red-shouldered hawk.

*P. COLYMBINUS* Drury. Found on loon.

*P. CORVI* Osb. Occurs on crow.

*P. CURSOR* Nitz. Frequents various species of owls.

*P. DISTINCTUS*. Infests the American raven.

*P. FUSCOVENTRALIS* Osb. Occurs on wood pewee.

- P. *FUSIFORMIS* Drury. Infests knot and sandpipers.
- P. *GONOTHORAX* Giebel. Occurs on various gulls.
- P. *HALIETI* Osb. Found on bald eagle.
- P. *LATIROSTRIS* Burm. Occurs on black-billed cuckoo.
- P. *MELANOCEPHALUS* Nitz. Infests terns.
- P. *NUDIPES*. On the barn owl.
- P. *PUSTULOSUS* Nitzsch. On the parasitic jaeger.
- P. *PLATYSTOMUS* Nitz. Found on hawks and eagles.
- P. *QUISCALI* Osb. Occurs on grackles and crows.
- P. *SUBFLAVESCENS* Geof. Occurs on northern strike, crossbills.  
From a purple finch and white-throated sparrow. (Br.).
- P. *SIALIS* Osb. Infests bluebird.
- P. *SYMII*. On the barred owl.
- P. *TRANSPOSITUS* Kell. Found on cowbird.

## ANATOECUS Cummings

- A. *DENTATUS* Scop. Common on ducks and geese.

## EUSTRIGIPHILUS Ewing

- E. *BUBONIS* Osb. Infests great horned owl.
- E. *CEBLEBRACHYS* Nitz. Infests snowy owl.

## CUCULOECUS Ewing

- C. *coccygii* Osb. Occurs on yellow-billed cuckoo.

## DEGEERIELLA Neumann

- D. *ACTOPHILA* Kell. & Chap. Found on sanderling.
- D. *ALCAE* Denny. Occurs on dovekie.
- D. *AMERICANA* Kell. & Chap. Found on grebes.
- D. *AMPLYS*. Found on the bald eagle.
- D. *BRACHYTHORAX* Nitz. Occurs on cedar waxwing.
- D. *COMPLEXIVA* Kell. & Chap. Found on sanderling.
- D. *CORDATA* Osb. Occurs on Hudsonian godwit.
- D. *CYCLOTHORAX* Nitz. Infests English sparrow.
- D. *DISCOCEPHALA* Nitz. Occurs on bald eagle.
- D. *EUPREPES* Kell. & Chap. Occurs on turnstone.

- D. FURVA Nitz. Found on plovers and phalaropes.
- D. FUSCA Nitz. Occurs on hawks and eagles.
- D. GRACILIS Nitz. Found on purple martin.
- D. ILLISTRIS Kell. Occurs on red-winged blackbird.
- D. LATIROSTRIS Burm. Occurs on black-billed cuckoo.
- D. NEBULOSA Burm. Infests the starling.
- D. NORMIFER Grube. On the parasitic jaeger.
- D. OPACA Kell. & Chap. Found on semipalmated plover.
- D. ORARIA Kell. Occurs on golden plover.
- D. ORNATA Grube. Infests various gulls.
- D. ORNATISSIMA Gieb. Occurs on red-winged blackbird.
- D. ORPHEA Osb. Occurs on catbird.
- D. PALLIDULA Harrison. Occurs on rose-breasted grosbeak.
- D. PRAESTANS Kell. Occurs on terns.
- D. PICTURATUS Osb. Occurs on meadow lark.
- D. ROTUNDATA Osb. Infests crow.
- D. SECONDARIA Osb. Also infests crow.
- D. SIMPLEX Kell. Found on robin.
- D. STRAMINEA Denny. Occurs on flicker and other woodpeckers.
- D. TYRANNA Osb. Occurs on kingbird.

## RALLICOLA Johnston and Harrison

- R. CUSPIDATA Scop. Occurs on coot.
- R. BISETOSA Piaget. Occurs on rails.

## ORNITHOBIAUS DENNY

- O. CYGNI Linn. Infests swan.
- O. GONIOPLEURUS Denny. Occurs on the Canada goose.

## ESTHIOPTERUM Harrison

- E. ANSERIS Linn. Occurs on geese.
- E. ARDEA Linn. Found on herons and bitterns.
- E. BOTAVRI Osb. Occurs on the American bittern.
- E. COLUMBAE Linn. Infests domestic pigeon.
- E. CRASSICORNE Scop. Common on several species of ducks.
- E. INFUSCATUM Osb. Occurs on woodcock, etc.

*E. LONGICORNE* Piaget. Found on double-crested cormorant.

*E. LURIDUM* Nitz. Occurs on coot.

*E. MERGI-SERRATI*. On the red breasted merganser.

*E. near PELAGICUM* (Denny). From Leach's petrel (Br.).

#### TRICHOLOPEURUS

*T. PARALLELUS* (Osborn). Occurs on deer (Br.).

### Order THYSANOPTERA. Thrips

#### PHLOEOTHRIPIDAE

##### ANTHOTHIRIPS Uzel

*A. VERBASCY* Osb. Duck Brook, June 13.

TAENIOTHRIPS Amyot & Serville

*T. SIMPLEX* Morr. On gladiolus, Bar Harbor.

### Order HEMIPTERA

The arrangement of forms in this Order follows that of the Hemiptera of Connecticut, W. S. Britton. State G.N.H.S. Bulletin No. 34, 1923.

#### Suborder PARASITICA

##### HAEMATOPINIDAE

The species of this family occur on various animals and many undoubtedly are here on their particular hosts. Three examples are given as found—one from a wild animal, one from a household pet, and one from a pest.

LINOGNATHUS Enderlein

*L. PILIFERUS* Burm. The common dog-louse.

## POLYPLAX Enderlein

P. SPINULOSA (Burmeister). Occurs on rats, etc.

## HAEMODIPSUS Enderlein

H. VENTRICOSUS (Denny). Occurs on the rabbits.

## CORIXIDAE. The Water-boatman

## ARCTOCORISA Wallengren

A. DECOROTELLA Hungf. S. W. Harbor, July 14-18.

A. CONOCEPHALA Hungf. S. W. Harbor, July 15.

A. VULGARIS Hungf. Salisbury Cove, Aug. 10.

A. SERIATA Abbt. Salisbury Cove, Aug. 11.

A. NITIDA var. MINOR Abbt. Salisbury Cove, July 18-Aug. 10.

A. MAEROPALA Hungf. S. W. Harbor, June 18.

A. INTERRUPTA Say. Bar Harbor; Salisbury Cove; Stations F129 and F137, June 14-Aug. 10.

TRICHOCORIXA Kirkaldy (*Corixa* Geoffroy)

T. VERTICALIS Fieber. Large numbers of them were in the brackish pools at the Narrows Aug. 1934 but I have not seen any since.

## NOTONECTIDAE. The Back-swimmers

## NOTONECTA Linnaeus

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

N. IRRORATA Uhler. Penikese; Station F212, July 25-31. Scarce.

## 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.

## GERRIDAE. The Water-striders

## GERRIS Fabricius

*G. ARGENTICOLLIS* Parsh. 'Mt. Desert,' July 28 (McAtee).

*G. BUENOI* Kirk. Salisbury Cove; Bar Harbor, Aug. 10, 11.

*G. MARGINATUS* Say. Ice pond, Manset; S. W. Harbor, June 18-July 13. Common.

*G. REMIGIS* Say. Duck Brook; Bar Harbor; Manset, June 11-Aug. 18. Common.

*G. (LIMNOPORUS) RUFOSCUTELLATUS* Latr. 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.

## VELIIDAE

## RHAGOVELIA Mayr

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

## REDUVIIDAE

## REDUVIUS Fabricius

*R. PERSONATUS* (Linn.). The Kissing Bug or Masked Bed-bug 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. 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 Bng. All summer it is found from clover to *Solidago* where it goes to the flowers to catch insects.

## BARCE Stål

B. ANNULIPES Stål. Tremont, Aug. 23. Under stones in early spring. Sweeping edges of fields best place for them.

## TINGIDAE. The Lace-bugs

## CORYTHUCHA Stål

C. JUGLANDIS Fitch. Common, June 7–Sept. 2.

C. MARMORATA Uhler. Narrows; Sea Cove Brook, July 14–Sept. 8. Frequents *Solidago*.

## GALEATUS Curtis

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

## LEPTOBYRSA Stål

L. 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.

## MELANORHOPALA Stål

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

## MESOVELIIDAE

## MESOVELIA Mulsant and Rey

M. BISIGNATA Uhler (*M. mulsanti* auct.). 'Mt. Desert,' July 30 (McAtee).

## ARADIDAE. The Flat-bugs

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

## ARADUS Fabricius

A. QUADRILINEATUS Say. Bar Harbor, July 22-27. Under bark.  
A. SIMILIS Say. Jordan Pond, June 9; The Beehive, Aug. 13  
(Sanford).

A. ABBAS Bergroth. Salisbury Cove, July 14.

A. NIGER Stål. S. W. Harbor, July 11? Under bark of dead pine. S. W. Harbor under bark of dead pine, July 11; Boyd Road under spruce bark, Oct. 4.

## CIMIDIDAE

## CIMEX Linnaeus

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

## ANTHOCORIDAE. The Flower Bugs

## ANTHOCORIS Fallen

A. BOREALIS Dallas. Bar Harbor; Eden; S. W. Harbor, June 11-Sept. 6.

## TRIPHLEPS Fieber

T. INSIDIOSA (Say). Bar Harbor; S. W. Harbor, July 11-Sept. 6. Swept from various flowers where it feeds upon aphids, etc.

## SALDIDAE. The Shore-bugs

## SALDULA Van Duzee

S. INTERSTITIALIS Say. Narrows, Aug. 13. Around sedges in swamps.

S. MAJOR Prov. Bar Harbor; S. W. Harbor, June 11-July 15. Same habitat as above.

S. PALLIPES Fab. Narrows, Aug. 13. Common on salt marshes.

## LAMPRACANTHIA Reuter

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

## MIRIDAE. Leaf-bugs

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

## PLAGIOGNATHUS Fieber

- P. ALBONOTATUS var. COMPAR Kngt. Eden, Aug. 10.  
 P. ALBONOTATUS Kngt. Bar Harbor; Eden, July 13–19.  
 P. ANNULATUS NIGROFEMORATUS Kngt. Corfield, Aug. 12.  
 P. BREVIROSTIS Kngt. Penikese, Sept. 15.  
 P. CHRYSANTHEMI Wolff. Bar Harbor; S. W. Harbor, July 8–14. Food plant is *Chrysanthemum leucanthemum*.  
 P. OBSCURUS Uhler. Bar Harbor, July 19–Aug. 10.  
 P. OBSCURUS FRATERNUS Uhler. Record of capture lost.  
 P. POLITUS var. PALLIDICORNIS Kngt. Bar Harbor, July 17–Aug. 10.

## RHINOCAPSUS Uhler

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

## PSALLUS Fieber

- P. MORRISONI Knight. Sweeping *Solidago*, *Myrica*, etc.  
 P. PARSHLEYI var. FUSCATUS. Bar Harbor; S. W. Harbor, Eden, July 20–Aug. 10.

## LOPUS Hahn

L. DECOLOR Fall. Breeds in sedges. Eden; Bar Harbor, July 15–Aug. 15.

## MACROTYLUS Fieber

M. SEXGUTTATUS Prov. Echo Lake, July 12. Frequents asters.

## 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.

## MACROLOPHUS Fieber

M. SEPARATUS Uhler. Green Mt., July 25.

## HYALIODES Reuter

H. VITRIOPENNIS (Say). Feeds on plant lice.

## MONALCORIS Dahlbom

M. FILICIS Linn. Bar Harbor, June 11–July 22. Found on ferns.

## DERAEOCORIS Kirchbaum

D. APHIDIOPHACUS Kngt. Bar Harbor, June 17. Not common.

D. FASCIOLUS Kngt.

## STRONGYLOCORIS Blanckhard

S. STYGICUS Say. Eden; Bar Harbor, July 15–17. Species of *Solidago* are the food plants.

S. sp. Mt. Desert, Aug.

## ORTHOCEPHALUS Fieber

O. MUTABILIS Fall. Bar Harbor; S. W. Harbor; Salisbury Cove, June 11–July 15. Food plant is *Chrysanthemum leucanthemum*.

## ILNACORA Reuter

I. MALINA Uhler. Eden, July 13. Food plant *Solidago rugosa* growing in shaded damp places.

## LOPIDEA Uhler

L. MEDIA Say. Breeds on *Solidago* and probably other plants.

## MECOMMA Fieber

M. AMBULANS Fall. Eden; Bar Harbor; S. W. Harbor, July 15–Sept. 13.

## ORTIOTYLUS Fieber

O. CATULUS Van D. S. W. Harbor, July 13. Breeds on *Gnaphalium*.

O. FLAVOSPARSUS Sahl. S. W. Harbor, July 13. Food plant *Chenopodium album*.

## CERATOCAPSUS Reuter

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

## PILOPHORUS Westwood

P. STROBICOLA Knight. Record of capture lost.

## PITHANUS Fieber

P. MAERKELI H.-Sch. Bar Harbor; S. W. Harbor; Eden, June 22–July 19. Found on grasses.

## COLLARIA Provancher

C. MEILLEURII Prov. S. W. Harbor, July 13. Taken by sweeping in damp places.

## MIRIS Fabricius

M. DOLABRATUS Linn. S. W. Harbor; Eden; Station F130, July 11–Oct. 7. Found on timothy and other grasses.

## TRIGONOTYLUS Fieber

T. RUFICORNIS Geoff. Eden; Narrows, July 15–27. Feeds on oats and the like.

## STENODEMA Laporte

- S. TRISPINOSUM Reut. Occurs on grasses in moist meadows.  
 S. W. Harbor; Bar Harbor, July 13–Aug. 14.
- S. VICINUM (Prov.). Same habitat as above. Narrows; Bar Harbor; S. W. Harbor, July 27–Sept. 6.

## PLATTYLELLUS Reuter

- P. BOREALIS Knight. Eden, July 10.
- P. CIRCUMCINCTUS Say. Bar Harbor, July 20.
- P. INSIGNIS Say. S. W. Harbor, Aug. 23.

## NEOBORUS Reuter

- N. AMOENUS (Reut.). Food plants are the various kinds of ash. S. W. Harbor, July 24.

## COCOBAPHES Uhler

- C. SANGUINAREUS Uhl. Clearing near hill Norway Drive on *Solidago*, Aug. 18. Common in Connecticut but rare in Maine.

## CAPSUS Fabricius

- C. ATER (Linn.). Bar Harbor; Eden, 11–July 15. Feeds on various grasses as do the others in the genus.
- C. ATER var. SEMIFLAVUS (Linn.). Bar Harbor; S. W. Harbor; Eden, June 11–July 15.
- C. ATER var. TYRANNUS (Fab.). Bar Harbor, June 11.

## LYGUS Hahn

- L. BELFRAGII Reuter. Record of capture lost.
- L. CAMPESTRIS Linn. Breeds on the plants of the *Umbelliferae*. Narrows; S. W. Harbor, Aug. 13–Sept. 6.
- L. COMMUNIS Knight. S. W. Harbor, July 13.
- L. HIRTICULUS Van D. Common, July 6–Sept. 3.
- L. OMNIVAGUS Knight. Bar Harbor, July 19.
- L. PABULINUS Linn. Breeds on *Impatiens*. Echo Lake, July 17.

**L. PRATENSIS** Linn. Tarnished plant-bug. Common, June 27–Sept. 27. It feed on a great many vegetables and flowering plants. Is the most common of the Miridae and is found almost everywhere.

**L. PRAETENSIS** var. **OBLINEATUS** (Say). Same as above but not so common.

**L. PRAETENSIS** var. **STRIGULATUS** (Walk.). Same as above.

**L. VANDUZEEI** Knight. Common, July 13–Sept. 27.

**L. VANDUZEEI** var. **RUBROCLARUS** Knight. S. W. Harbor, July 13.

**L. VITTICOLLIS** Reut. N. E. Harbor (Minot); Echo Lake, July 6–17.

**POLYMERUS** Hahn (*Poecilocystus* of authors)

**P. OPACUS** Knight. S. W. Harbor, July 19.

**P. VENATICUS** Uhler. Breeds on *Solidago altissima*. ‘Mt. Desert’ is a record C.W.J. had.

**POECILOCAPSUS** Reuter

**P. LINEATUS** Fab. Bar Harbor; S. W. Harbor, Station F247, July 2–20. Breeds on variety of plants especially *Rumex* and *Ribes*.

**ADELPHOCORIS** Reuter

**A. RAPIDUS** Say. S. W. Harbor, July 11. Breeds on *Rumex*.

**CALOCORIS** Fieber

**C. NORVEGICUS** Gmel. Eden; Bar Harbor, July 20–Aug. 19.

**C. NORVEGICUS** (Gmel.). Eden; Bar Harbor, July 18–19. Swept from grass.

**NEUROCOLPUS** Reuter

**N. NUBILUS** Say. Record of capture lost.

## PHYTOCORIS Fallén

P. EXIMIUS Reut. Is a predaceous form as are others in this group. Bar Harbor; N. E. Harbor (Minot), July 20–Aug. 19.

P. JUNCEUS Kngt. Record of capture lost.

P. NEGLECTA Kngt. Found under bark of trees. Feeds on Psocids and other soft bodied forms. N. E. Harbor, July 26 (Minot).

## 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) PROPINQUUS Reut. Inhabits very damp locations. Mouth of Northeast Creek, July 25.

N. (NABICULA) ROSEIPENNIS Reut. Both the long and the short winged forms are commonly taken in sweeping.

N. (NABICULA) 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.

## NEIDIDAE

## NEIDES Latreille

N. MUTICUS (Say). Bar Harbor, Sept 3 (Br.); Stations F130 and F239, Oct. 3–7. General sweeping for these.

## LYGAEIDAE

## LYGAEUS Fabricius

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

## 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.

*N. ERICAE* (Schilling). Frequent on garden and field crops. Hides under weeds in fall. Narrows, Tremont, Aug. 13–23.

## ISCHNORHYNCHUS Fieber

*I. GEMINATUS* (Say). Tremont; S. W. Harbor, Aug. 23–30.

## CYMUS 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.

*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. LEUCOPTERUS* var. *HIRTUS* Mont. Chinch bug. Eden, July 13. It is about the Island in small numbers. Nymphs, probably of this species, were found at Station F181.

## GEOCORIS Fallén

*G. BULLATUS* (Say). Bar Harbor, July 6 (Sanford).

*G. ULIGINOSUS* (Say). S. W. Harbor, Sept. 6.

## PHLEGYAS Stål

*P. ABBREVIATUS* (Uhler). Eden; Station F208, July 13–23.

## LIGYROCORIS Stål

- L. DIFFUSUS (Uhler). To be looked for under boards, etc.  
 Salisbury Cove; S. W. Harbor, July 13–Sept. 6.
- L. SYLVESTRIS Linn. (*L. contractus* Say). S. W. Harbor; Paradise Hill; Stations F173 and F208, June 18–Sept. 6.

## DRYMUS Fieber

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

## EREMOCORIS Fieber

- E. FERUS (Say). S. W. Harbor, July 25.

## CORIZIDAE

## CORIZUS Fallén

- C. CRASSICORNIS (Linn.). S. W. Harbor; Bar Harbor; Section 16; Station F173, June 30–Sept. 13. Common.

## COREIDAE

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

## MEROCORIS Perty

- M. DISTINCTUS Dallas. Taken by sweeping weeds. Salisbury Cove, Aug. 7, 1926. Searee.

## ALYDIDAE

## PROTENOR Haglund

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

## ALYDUS Fabricius

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

## PENTATOMIDAE

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

## SCIOCORIS Fallén

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

## PERIBALUS Mulsant and Rey

P. LIMBOLARIUS Stål. Feeds on goldenrod and other plants. Eden, June 9; S. W. Harbor, July 20.

## CHLOROCHROA Stål

C. UHLERI Stål. Willow, juniper, etc. Stations F58, F112, F116, F231 and other places on lupin, willow, alder from June 15–Oct. 8.

## MORMIDEA Amyot and Serville

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

## EUSCHISTUS Dallas

E. EUSCHISTOIDES (Voll.) (*E. fissilis* Uhl). Abundant in the fall and taken by sweeping goldenrod, clover, etc. Hibernates as an adult. Bar Harbor, July 20–Aug. 13.

E. TRISTIGMUS (Say). Bar Harbor; Witch Hole; Tremont, June 15–Sept. 20. Feeds on pine, elder, mullein, goldenrod, etc. Common.

E. TRISTIGMUS var. LURIDUS Dallas. Stations F173 and F208; Bay Shore Drive; filter beds on poplar, July 23–Sept. 7.

## COENUS Dallas

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

## NEOTTIGLOSSA Kirby

N. UNDATA (Say). Hibernates as an adult and feeds on mullein (*Asclepias*). Common, July 17–Sept. 12.

## 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.

## BANASA 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

E. CRUCIATUS (Say). A northern form which frequents alder. Common, July 15–Sept. 27.

## PERILLUS Stål

P. EXAPTUS (Say). S. W. Harbor, Aug. 24.

## APATETICUS Dallas

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

A. BRACTEATUS (Fitch). Narrows, Aug. 13. Sweeping rank vegetation.

## PODISUS Herrich-Schaeffer

- P. MACULIVENTRIS (Say). Station F216. Scarce.
- P. MODESTUS (Dallas). Bar Harbor; S. W. Harbor; Eden; Seal Cove Brook, June 11-Oct. 1. Taken by sweeping. Variation in size.
- P. PLACIDUS Uhler. Bar Harbor; Nurseries, June 10-July 19.
- P. SERIEVENTRIS Uhler. Duck Brook, Oct. 10. Scarce. Beating tree foliage is the best way to take these.

## CYNIDAE

## GALUPHA Amyot &amp; Serville

- G. ATRA (Amyot & Serville). Occurs in small numbers in many places and best taken by general sweeping.

## CORIMELAENA White

- C. PULICARIA (Germar). Bar Harbor; Salisbury Cove (Sanford), Aug. 10, 11. Frequents the fruits and flowers of raspberry, blackberry, etc.

## SEHIRUS Amyot &amp; 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.

## SCUTELLERIDAE

## HOMAEMUS Dallas

- H. AENEIFRONS Say. Common June 20-Sept. 15. Best taken by sweeping *Solidago*.

## EURYGASTER Laporte

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

## STYGNOCORIS Douglas &amp; Scott

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

## Suborder HOMOPTERA

## FULGORIDAE

CIXIUS Latreille

- C. COLEPIUM Fitch. Bar Harbor, Aug. 10–Sept. 3.  
C. MISCELLUS 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.  
C. PINI Fitch. Bar Harbor; Salisbury Cove, S. W. Harbor,  
July 15–Aug. 26. Lives on huckleberry.

## BRUCHOMORPHA Newman

- B. OCULATA Newn. Long Pond, Aug. 21.

## LAMENIA Stål

- L. VULGARIS (Fitch). Witch Hole Pond; Bar Harbor; Green  
Mt., July 11–Aug. 17.

## KELISIA Fieber

- K. AXIALUS Van D. Tremont, Aug. 23.

## MEGAMELANUS Ball

- M. SPARTINI Osb. Salisbury Cove, July 25. Bar Harbor,  
June 11.

## PHYLLODINUS Van Duzee

- P. NERVATUS Van D. Bar Harbor; Salisbury Cove; Echo Lake,  
July 15–24.

## LACCOCERA Van Duzee

- L. VITTIPENNIS Van D. S. W. Harbor, Aug. 20. Robinson Mt.  
beating, Aug. 24. All females. Males needed for specific  
determination. Rare.

## STOBAERA Stål

- S. TRICARINATA (Say). Salisbury Cove, July 25.

## LIBURNIELLA Crawford

*L. ORNATA* Stål. Eden, July 15. Widely distributed.

## LIBURNIA Stål

*L. PELLUCIDA* (Fab.). Echo Lake; Green Mt.; Bar Harbor, July 12-30.

*L. PUELLA* Van D. Salisbury Cove, July 25.

## CICADELLIDAE. The Leaf-hoppers

## AGALLIA Curtis

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

*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. PROVANCHERI* Van D. Green Mt., July 25.

## MACROPSIS Lewis

*M. SORDIDA* (Van D.). S. W. Harbor, July 24. A northern form. Willow is one of the foods.

## ONCOPSIS Burmeister

*O. SOBRINTUS* (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. NIGRINASI* (Fitch). Bar Harbor; Eden; S. W. Harbor, July 13-Aug. 30. Hazel and *Viburnum*.

## ONCOMETOPIA Stål

*O. LATERALIS* (Fab.). Long Pond; See. 31; Somes Sound Inlet F31, Aug. 2-Sept. 16. Low pastures on grasses, etc.

## CICADELLA Latreille

C. GOTHICA (Signoret). Echo Lake; Eden; S. W. Harbor, July 15–Sept. 6. Section 26, Stations F35 and F187, July 15–Sept. 6.

## 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 (Foerster). Paradise Hill, Oct. 6.

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

## DRAECULACEPHALA Ball

D. MOLLIPES (Say). Echo Lake, July 12–July 25. General but not common and found on grasses and sedges in both dry and wet localities.

D. NOVABORACENSIS (Fitch). Tremont; S. W. Harbor; Eden; Station F130, July 23–Sept. 10.

## EVACANTHUS Le Peletier &amp; Serville

E. ACUMINATUS (Fab.). A woodland species to be looked for on low plants. Bar Harbor, July 19. Scarce.

## GYPONA Germar

G. OCTOLINEATA (Say). 'Mt. Desert,' July 30 (McAtee). Sweep mixed grasses and shrubs for these.

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

## ACUCEPHALUS Germar

A. NERVOSUS (Sehr.). 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.

*MESAMIA* Ball

*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. CARINATUS* Osb. Bar Harbor, July 24. In open woodland.

*S. IMMIXTUS* (Say). Bar Harbor; S. W. Harbor, July 20–Sept. 6. A very mixed feeder.

*S. SCALARIS* Van D. S. W. Harbor, Sept. 6. In meadows.

*S. LOBATUS* Van D. S. W. Harbor; Long Pond, Sept. 3–7.

*S. AURONITEUS* Prov. S. W. Harbor, Sept. 6. A common form on goldenrod in wooded areas.

*PLATYMETOPIUS* Burmeister

*P. ACUTUS* (Say). Common all summer in the fields and also on blueberry.

*P. MAGDALENSIS* Prov. Tremont, Aug. 23. A late summer form on the blueberry.

*DELTOCEPHALUS* Burmeister

*D. CONFIGURATUS* Uhler. Sec. 28, July 18. Common everywhere.

*D. INIMICUS* (Say). Feeds on almost every plant and can become a pest. Common and widespread. Penikese; Bar Harbor, July 14–19.

*D. SAYI* (Fitch). A hardy species that prefers tall grasses and grain but can persist under various conditions. S. W. Harbor, July 13; Dry Mt., Aug. 31 (Osborn).

*D. DEBILIS* Uhler. 'Mt. Desert,' July 30 (McAtee). 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. SIMPLEX Van D. Sec. 28; Narrows, July 25-27. Lives around the edges of swamps. Feeds upon *Spartina patens*.
- D. FLAVOVIRENS G. & B. Penikese, July 15.

## EUSCELIS Brullé

- E. CUNEATUS Sand. & De L. Tremont, Aug. 23. It is to be found around the edges of swamps.
- E. STRIOLUS Fallen. Tremont, S. W. Harbor, Aug. 23. Same habitat as the above.
- E. EXTRUSUS (Van D.). Bar Harbor, July 30. Another low-land species.
- E. ANTHRACINUS (Van D.). S. W. Harbor; Sec. 28, June 27-July 15. This one is a high and dry form. Upland pastures is a good place.
- E. ARCTOSTAPHYLI (Ball). Tremont, Aug. 23. Bearberry is its food plant.
- E. STRIATULUS Fallen. Echo Lake, July 12. On blueberry and the like in bogs in the late summer. Sometimes abundant.
- E. HUMIDIS Osb. Tremont, July 23.

## EUTETTIX Van Duzee

- E. JOHNSONI Van D. S. W. Harbor, Aug. 26 (Alexander). On undergrowth in open woods.

## 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. *FULVIDORSUM* (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.

THAMNOTETTIX Zetterstedt

- T. *BELLI* (Uhler). Eagle Lake, July 18. A shrub feeding northern form.
- T. *KENNICOTTII* (Uhler). S. W. Harbor, Sept. 3 (Alexander). Trees and shrubs particularly on oaks are the places to search.
- T. *CLITERLLARIUS* (Say). Saddle-backed leaf-hopper. Bar Harbor, July 20. Common.
- T. *SMITHI* Van D. See. 28, July 15. Found in open fields where there is moisture.
- T. *DECIPiens* Prov. S. W. Harbor, Aug. 26. Another lowland form.
- T. *MELANOGASTER* (Prov.). S. W. Harbor; Echo Lake, Aug. 26-29 (Alexander). A common grass feeder.
- T. *CHLAMYDATUS* (Prov.). Long Pond; Eagle Lake, Bar Harbor, July 16-27. Large shrubs like young birch and hazel are good places to beat.
- T. *EBURATUS* Van D. Bar Harbor, Aug. 10; S. W. Harbor, Sept. 3 (Alexander). Cutover land on mixed growth is where to find these.
- T. *INORNATUS* Van D. Record of capture lost. A common species.
- T. *SUBCUPRAEUS* Prov. Tremont, Aug. 23; Echo Lake, Sept. 7.
- T. *WALDANUS* Ball. Bar Harbor, July 24.

CHLOROTETTIX Van Duzee

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

## CICADULA Zetterstedt

- C. SLOSSONI Van D. S. W. Harbor, July 13–Aug. 20. In wet pastures on *Juncus*.  
 C. SEXNOTATA (Fallén). S. W. Harbor, July 13. A general feeder.

## BALCLUTHA Kirkaldy

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

## EMPOASCA Walsh

- E. OBTUSA Walsh. 'Mt. Desert,' July 30 (McAtee). Feeds on the willow.  
 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. FLAVESCENS (Fab.). Bar Harbor, July 24. Recorded from pine and in areas where pines grow.  
 E. QUERCI var. GILLETTEI Van D. (*TYPHLOCYBA bifasciata* G. & B.). Bar Harbor; S. W. Harbor, July 24–Sept. 5. Look on oak trees.

## TYPHLOCYBA Germar

- T. VANDUZEI (Gillette). Bar Harbor, Aug. 10. Found on ferns.  
 T. FLAVOSCUTA (Gillette). Bar Harbor; Echo Lake; S. W. Harbor, July 12–Sept. 5. Another fern feeder.  
 T. NIGRA (Osb.). Bar Harbor, July 10–Aug. 31. Ferns in cool moist woods.

## EMPOA Fitch

- E. QUERCI var. GILLETTEI Van D. (*T. bifasciata* G. & B.). Bar Harbor; S. W. Harbor, July 24–Sept. 5. Feeds upon wild cherry.  
 E. COMMISURALIS Stål. Bar Harbor, Aug.

## ERYTHRONEURA Fitch

- E. OBLIQUA (Say). Long Pond, Sept. 7, 1922. Sweeping grape vines is productive.
- E. COMES var. ziczac Walsh. S. W. Harbor, July 13. On woodbine (*Ampelopsis*).
- E. ELEGANS McA. Corfield woodbine (*Ampelopsis*), Sept. 8.
- E. VULNERATA Fitch. Corfield on woodbine (*Ampelopsis*), Sept. 8.
- E. sp. Corfield on woodbine (*Ampelopsis*), Sept. 8.
- E. sp. Corfield on woodbine (*Ampelopsis*), Sept. 8.

## 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.

## CAMPYLENCHIA Stål

- C. LATIPES (Say). Bar Harbor; S. W. Harbor, July 24-Aug. 21.

## ENCHENOPA Amyot &amp; Serville

- E. BINOTATA (Say). Robinson Mt., Aug. 24. Scaree.

## CERESA Amyot &amp; 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.

## CARYNOTA Fitch

- C. MARMORATA (Say). Corfield, July 15. Scaree.
- C. STUPIDA (Walk.). Salisbury Cove, July 15, on birch (Olsen).
- C. PORPHYREA Fairm. Corfield, July.

## TELEMONA Fitch

- T. AMPELOPSIDIS (Harris). Corfield, Aug. 8.
- T. TREMULATA Ball. One specimen taken on Center Trail Western Mt., Sept. 30, '32. Rare.
- T. sp. Corfield, Aug. 19.

## CYRTOLOBUS Goding

- C. INTERMEDIUS* (Emmons). Bar Harbor, June 21.  
*C. sp.* Corfield on spruce, June 28.

## OPHIDERMA Fairmaire

- O. FLAVA* Goding. Bar Harbor, June 21.

## PUBLILIA Stål

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

## CERCOPIDAE. The Spittle Bugs

The frothy masses will disclose the place of the nymphs.

## APHROPHORA Germar

- A. QUADRINOTATA* Say. S. W. Harbor, Sept. 6.  
*A. near IRRORATA* Ball. Station F104, Sept. 10.  
*A. SIGNORETTI* Fitch. Bar Harbor; Salisbury Cove; N. E. Harbor, July 11–Aug. 24.

## LEPYRONIA Amyot &amp; Serville

- L. QUADRANGULARIS* (Say). Sec. 31; Sec. 16; Gt. Heath; Paradise Hill, Aug. 2–Oct. 7.

## PHILAENUS Stål

- P. SPURMARIUS* Linn. Common and showing following variations.

var. *USTULATUS* Fall. The common form: July 13–Aug. 21.  
 var. *LEUCOPHTHALMUS* Linn. S. W. Harbor; Echo Lake; Narrows, July 13–Aug. 29.

var. *LEUCOCEPHALUS* Linn. S. W. Harbor, July 13.

var. *LINEATA* Fab. S. W. Harbor; Long Pond; Narrows; July 15–27.

var. *PALLIDUS* Zett. S. W. Harbor; Salisbury Cove, July 13–14.

- P. LINEATUS* Linn. S. W. Harbor; Salisbury Cove, July 13–15.

## PHILARONIA Ball

*P. BILINEATA* Say. The grass spittle bug. Narrows, July 27–Aug. 13.

*P. BILINEATA* var. *ORBICULARIS* Ball. Narrows, July 19–Sept. 12.

## CLASTOPTERA Germar

*C. OBTUSA* Say. The alder spittle bug. Witch Hole Pond; Long Pond, July 30–Aug. 21.

*C. PROTEUS* Fitch. Bar Harbor; S. W. Harbor, July 30–Aug. 21. var. *VITTATA* Ball. Bar Harbor, Aug. 18.

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

var. *ANCEPS* McAtee. Tremont; S. W. Harbor, Aug. 23–25.

var. *HYPERICI* McAtee. S. W. Harbor, Aug. 23.

var. *SAINTCYRI* Prov. S. W. Harbor, Aug. 23.

## CICADIDAE. Misnamed the Locust

## TIBICEN Latreille

*T. CANICULARIS* (Harris). Found during August but not common.

## OKANAGANA Distant

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

## PSYLLIDAE (or CHERMIDAE)

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. VERNALIS* Fitch. Seal Cove Brook, Sept. 8.

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

## APIALARA Foerster

*A. VEAZIEI* Patch. 'Mt. Desert,' July 30 (McAtee).

## TRIOZA Foerster

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.

## PSYLLA Geoffroy

P. ANNULATA Fitch. 'Mt. Desert,' July 30 (McAtee). The nymphs live on maple.

P. FLOCCOSA Patch. 'Mt. Desert,' July 30 (McAtee). The nymphs live on the growing twigs of alder.

P. CARPINICOLA Crawf. Salisbury Cove; S. W. Harbor, July 15-Aug. 30.

P. TRIMACULATA Crawf. Salisbury Cove; S. W. Harbor, July 15-Aug. 30.

P. GALEAFORMIS Patch. The nymphal stages are passed on alder (*Aldus*). Section 26; Station F179, Aug. 7-24.

P. QUARRILINEATA Fitch. Station F241, April 21.

P. STRIATA Patch. Station F179, Aug. 24.

## APHIDIDAE. Plant-lice

## ERIOSOMA Leach

E. LANIGERUM Hausm. Woolly aphid. Bar Harbor. The brood from the over-wintering eggs form the leaf clusters known as 'rosettes' on the elm, then migrate to the apple and thorn, and return to the elm in the fall.

## PROCIPHILUS Koch

P. TESSELLATA Fitch. Woolly alder aphid. Migrates between the maple and alder.

## MELAPHIS Walsh

M. RHOIS Fitch. Large rounded galls on the leaves of the staghorn sumach. 'Mt. Desert' (J. G. Jack).

## PEMPHIGUS Hartig

P. POPULI-CAULIS Fitch. Bar Harbor; Salisbury Cove, Aug.

Forms galls at the base of the leaves of poplar.

P. RHOIS Fitch (*Melapis* Walsh). Pear-shaped or round reddish leaf 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 bred proved to be *Pipiza* sp.

## HORMAPHIS Osten Sacken

H. HAMAMELIDIS Fitch. Bar Harbor. Forming conical galls on the leaves of the witch hazel (*Hamamelis virginica*) and migrating to birch (*Betula*).

## CHERMES Linnaeus

C. ABIEIS Linn. Spruce gall aphid. Bar Harbor. Forms the 'pineapple gall' on spruce.

C. STROBILIOBIUS Kaltenbach. The woolly larch gall. Salisbury Cove.

## COCCIDAE. Seale insects

## LEPIDOSAPHE Shimer

L. ULMI Linn. (*Mytilas pis pomorum* auct.). Oyster-shell bark seale. Common, ash, mountain ash, and willow.

## LEUCANIUM Burmeister

L. QUERCIFEX Fitch. Oak seale. Bar Harbor and Salisbury Cove on red oak.

## MYZOCALLIS Passerini

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

## XYLOCOCULUS

X. BETULAE Perg. Found on birch all the year.

## CRYPTOCOCCUS

C. FAGI Baer. Found on beech all the year.

## 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 Linnaeus

- C. PURPUREA Oliv. (42). Taken on bare patches in a field Sec. 28, May 26. One taken Aug. 28. Scarce.
- C. PURPUREA var. LIMBALIS LeC. (42c). Sec. 24, June 12-July 2; sandpit near Sea Wall, Aug. 24. Scarce.
- C. LIMBALIS var. SPRETA LeC. (45b). Bar Harbor, May 18 (Br.).
- C. DUODECIMGUTTATA Dej. (49). Frequents the borders of moist places. Newport Cove; Bubble Brook; Eagle Lake, June 15-Sept. 13. Not common.
- 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). Frequents 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. The molasses trap is very successful.

*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 and they have never been found either before or since, although carefully searched for. Their food is land snails.

*NOMARETUS* LeConte

*N. BILOBUS* (Say) (134). This species has never been taken 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.

*SPHAEODERUS* Dejean

*S. LECONTEI* Dej. (162). This form is taken with the one above and for the same reason is scarce on the Island. A mating pair was found at Hunter's Brook, June 10, '36. (Br.).

*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. SERRATUS* Say (171). Scarce. Corfield, Aug. 30; Echo Lake, July 12 (J. H. Emerton). Habitat is under logs in damp localities.

*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

- L. CAERULESCENS (Linn.) (241). Ice Pond, S. W. Harbor, Sept. 8.

## 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. Mt. Desert, May 18 (Br.), S. de Monts Spring travelling, May 25.

## NEBRIA Latreille

- N. SAHLEBERGI Fisch. (276). Edge of Echo Lake, July 17.

- N. PALLIPES Say (292). Taken from rubbish close to running water which it frequents. Long Pond, July 16.

BEMBIDION Latreille (*Bembidium* auct.)

- B. SCOPULINUM (Kby.) (573). Look for the Bembids on banks along the water's edge and in trash around stumps and logs, preferably damp. This is a distinctly northern form. One taken at Witches Hole, Sept. 1, '37.

- B. TETRACOLUM Say (588). Under stone Seal Wall, Oct. 6.

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

- B. PATRUELE? Dej. (651). Station F171, May 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. QUADRIMACULATUM (Linn.) (737). A specimen in the N. E. Scty. Natl. Hist. is labeled Mt. Desert, July, 1894. Grt. Heath, July 10; Mt. Desert, May 24 (Br.).
- B. sp. Sea Wall bog, July 9 (Br.).

## TACHYURA Mots.

- T. NEBULOSA? (Chd.) (803). Pretty Marsh under stone, Aug. 21.

## 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

- T. INORNATA Say (*Tachys nana* auct. nec. Gyll.) (892). Under bark yellow birch Indian Pt., Aug. 28. Under bark spruce Boyd Road, Oct. 4.

## PATROBUS Dejean

- P. LONGICORNIS (Say) (901). Sec. 34 at meat trap, Sept. 19. Beach Hill under stones, Sept. 27.

## MYAS Dejean

- M. CORACINUS (Say) (929). Under logs in woods, loamy soil. Lake Wood, June 13. B. H., July 17.

## CYLINDROCHARIS Casey

- C. ROSTRATA (Newn.) (933). Hunters Beach Brook, June 19. Molasses trap Indian Pt., July 15. Not common.

## PTEROSTICHUS Bonelli

- P. REJECTUS LeC. (1005). One specimen taken in grass around pine and spruce logs Breakneck Road, May 30, '28.
- 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.

*GASTRELLARIUS* Casey

*G. HONESTUS* (Say) (1024). Long Porcupine Isl., mating pair, July 21. Hunters Beach Trail in birch logs, July 30. Duck Brook in birch log just hatched, Aug. 14. Mt. Desert, Sept. 18 (Br.).

*EUFERONIA* Casey

*E. STYGICA* (Say) (1089). Rhodora Meadow, May 21. Pretty Marsh, Aug. 21; Corfield, Aug. 30. Meat trap Middle Road, Sept. 20.

*E. CORACINA* (Newn.) (1093). Boyd Road under bark, May 24. Green Mt. summit, Aug. 5. Corfield, Aug. 20. Long Porcupine Isl. under stones, Sept. 13. Upper Breakneck Pond meat trap, Sept. 21-Oct. 10.

*E. LACHRYMOSA* (Newn.) (1097). Sept. 8, meat trap Sec. 37. Little Round Pond under bark, Sept. 21.

*POECILUS* Bonelli

*P. LUCUBLANDUS* Say (1162). Station F171 under wet stones, June 28. Breakneck Rd. molasses trap, June 8. Witches Hole meat trap, June 11. Corfield, July and Aug. Beech Hill under stones, Sept. 9.

*OMASEUS* Ziegler

*O. LUCTUOSUS* (Dej.) (1175). Little Round Pond under wet wood, July 21. S. W. Harbor ice pond, Sept. 18, under stones.

*O. CORVINUS* (Dej.) (1176). Corfield, Aug. 10-14.

*DYSIDIUS* Chaudoir

*D. MUTUS* (Say) (1178). One specimen taken in birch logs Long Porcupine Isl., June 26, '29.

*MICROMASEUS* Casey

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

*BOTHRIOPTERUS* Chaudoir

- B. *PENNSYLVANICUS* (LeC.) (1188). In forest duff, May 18 (Br.). Meat trap Upper Breakneck Rd., Sept. 10. Corfield, Oct. 20.
- B. *OBLONGONOTATUS* (Say) (1190). Beaten from bushes N. E. Branch, Aug. 23. Meat trap Penikese, Sept. 16. Seabee.
- B. *ADSTRICHTUS* (Esch.) (1192). The only time taken was under stones on Long Porcupine Isl., Aug. 10, '29.
- B. *LUCZOTI* (Dej.) (1194). B. H., May 5. Corfield tree at night, May 11. B. H., June 10 (Br.); S. W. Harbor, July 13; Long Porcupine Isl., Aug. 10.

*LEIOCNEMIS* Zimmerman

- L. *AVIDA* (Say) (1262). Beech Hill under stones, Sept. 27.

*BRADYTUS* Stephens

- B. *APRICARIUS* (Payk.) (1267). Lake Wood, Aug. 8. Beech Hill, under stones, Sept. 27.

*CFLIA* Zimmerman

- C. *REMOTESTRIATA* Dej. (1309). Sand Pit near Sargent Drive, Aug. 31. Seabee.

*AMARA* Bonelli

- 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.). Seabee.

*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; Bar Harbor, Sept. 10. (Br.).

## PRISTODACTYLA Dejean

- P. IMPUNCTATA (Say) (1489). Mt. Desert, July 15 (Br.) ; Duck Br., Aug. 2; Long Porcupine, Aug. 10; Half Moon Pond, Aug. 10; Mt. Desert, Aug. 20 (Br.).

## 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. EXTENSICOLLIS (Say) (1522). Frequents the shores of ponds. Eagle Lake under stones, Aug. 15. North end of Long Pond under stones, Sept. 27, and in large numbers Oct. 10.

- P. TENUIS (Linn.) (1539). Witches Hole path in June.

- P. MUTATUS G. & H. n.m. (1541). Station F171 under wet stones, May 28. Pretty Marsh Landing at tide mark, Aug. 22; Little Round Pond under wet wood, July 21.

- P. MELANARIUS (Dej.) (1542). Rhodora Meadow flying, May 25. Mt. Desert, May 2 (Br.); S. W. Harbor, June 18. North shore Eagle Lake melon bait, Oct. 1.

- P. AFFINIS (Kby.) (1546). Corfield, July 16. It frequents beaches. Scarce.

- P. METALLESCENS LeC. (1551). Mt. Desert, May 1 (Br.); N. E. Branch under wet stones, July 27; Salisbury Cove, Aug.

- P. CUPRIPENNIS (Say) (1553). Mt. Desert, May 2 (Br.); Station F171 under wet stones, May 28.

- P. HARDYI Chd. mss. LeC. (1554). Willow catkins, May 11 (Br.). Bar Harbor, June 22; Corfield, Aug. 10.

- 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. BOGMANNI (Gyll.) (1573). Corfield, June 18. Mt. Desert, June 1-Aug. 30 (Br.). N. E. Harbor, Aug. 10 (Minot).

- P. SORDENS Kby. (1582). Mt. Desert, May 2 (Br.); Penikese - beating alder, Sept. 20.
- P. RUFICORNIS LeC. (1584). S. W. Harbor, July 13.
- P. RETRACTUS (LeC)? (1585). Long Porcupine under stones, Aug. 10.
- P. LENIS Dej. Pretty Marsh Landing under stones at tide line, Aug. 22.

## LEBIA Latreille

- L. VIRIDIS Say (1655). Found on flowers from the early spring until frost. Common.
- 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. PUMILA Dej. (1658). S. W. Harbor, Aug. 20; Outlet of Eagle Lake sweeping *Solidago*, Aug. 25.
- L. ORNATA Say (1667). Goldenrod is a favorite flower. Taken in small numbers on all parts of the Island by sweeping.
- L. FUSCATA Dej. (1672). Bar Harbor, July 10. Not common.
- L. FURCATA LeC. (1677). Pemetic Mt., Aug. 4 (Sanford).

## DROMIUS Bonelli

- D. PICEUS Dej. (1691). Search under bark for this. Corfield at light, July 18-Aug. 26; Mt. Desert, Oct. 13 (Br.). Not common.

## METABLETUS Sch.-Goeb.

- 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. CRIBRICOLLIS Dej. (1738). N. E. Harbor, July (Minot).
- 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.

## CHLAENIUS Bonelli

C. PENNSYLVANICUS Say (1817). These beautiful and beneficial beetles are found beneath rubbish along margins of ponds. S. W. Harbor; Station F171; Witches Hole Pd., June 18–Aug. 6.

C. SERICEUS Forst. (1846). Same habits as above and generally distributed over the Island, May 28–Sept. 3.

## ANOMOGLOSSUS Chaudier

A. EMARGINATUS (Say) (1856). Beneath rubbish in damp places is the habitat. But one specimen taken, Bar Harbor, Sept. 10, '29.

## HARPALUS Latreille

H. VIRIDIAENEUS Beauv. (1903). Rhodora Meadow under stones, May 2 (Br.); Rhodora Meadow, flying, May 25; Corfield, June 27.

H. PENNSYLVANICUS DeG. (1925). Beach Hill under stones, Sept. 27.

H. LATICEPS LeC. (1934). Sandy upland woods is the habitat. One specimen taken Corfield, July 19, '27.

H. PLEURITICUS Kby. (1944). S. W. Harbor, July 20–Aug. 21; Penikese meat trap, Sept. 3.

## SELENOPHORUS Dejean

S. OPALINUS LeC. (2013). Beneath bark in dry places. Echo Lake, June 17.

## TRIPLECTRUS LeConte

T. RUSTICUS (Say) (2071). Station F171, June 28. Scarce.

## ANISODACTYLUS Dejean

A. HARRISH LeC. (2087). Narrows, June 9; S. W. Harbor, June 18.

A. NIGERRIMUS Dej. (2088). Rhodora Meadow flying, May 25. Scarce.

A. INTERPUNCTATUS Kby. (2091). Frequents sandy localities. S. W. Harbor, June 18.

*ANADAPTUS* Casey

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

*TRICHOCELLUS* Ganglbauer

T. *BOREELLUS* Casey (2145). S. W. Harbor, July 13.

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

*TACHYCELLUS* Moraw.

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.

*STENOLOPHUS* Dejean

S. *OCHROPEZUS* (Say) (2218). Station F171 under wet stones, June 28.

S. *FULIGINOSUS* Dej. (2220). Bar Harbor, May 1; Mt. Desert, May 12 (Br.); Station F171 under wet stones, June 3-28. S. W. Harbor, July 13.

S. *PLEBJUS* Dej. (2234). Station F171 under wet stones, June 3-28.

S. *CONJUNCTUS* (Say) (2238). Sandy places. Comes to light when flying in spring. This whole genus hibernates and may be taken by sifting. Mt. Desert, July 18 (Br.).

*TACHISTODES* Casey

T. *PAUPERCULUS* (Dej.) (2247). Station F171 under wet stones, June 28. Mt. Desert, Sept. 17 (Br.).

T. *PARTIARIUS* (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. RUFICOLLIS* DeG. (2318). All in the genus live in shallow pools where they may be taken crawling on aquatic plants. Ireson Hill Pd., Sept. 30; New Mill Pd., Aug. 7.

## 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. Scraping the edges of pools will get the others.

## 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.

## COELAMBUS Thomson

*C. INAEQUALIS* (Fab.) (2403). Rare, having been taken but once. Three specimens at station F186, Sept. 1, '34.

## HYDROPORUS Clairville

*H. UNDULATUS* Say (2447). Ireson Hill Pd., July 12. Pond near N. E. Branch. Sept. 1 scraping aquatic plants.

*H. NIGER* Say (2514). New Mill Pond, Aug. 7; S. W. Harbor, July 14. Seabee.

*H. STRIOLA* Gyll. New Mill Pd., Aug. 7. Seabee.

*H. sp.* One individual taken New Mill Pond, Aug. 7, '34.

*AGABUS* Leach

- 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. GAGATES* Aubé. (2580). S. W. Harbor; Bar Harbor, June 25-July 11. Also one taken in the spring on Green Mt. summit.
- A. sp.* Witches Hole Brook, Aug. 14.
- A. sp.* In almost dry brook flowing into S. W. shore of Eagle Lake, Aug. 15.

*ILLYBIUS* Erichson

- I. SUBAENEUS* Er. (2589). S. W. Harbor ice ponds, July 14. Pond at Nurseries, July 29.
- I. ANGUSTIOR* (Gyll.) (2595). S. W. Harbor ice ponds, July 14.
- L. BIGUTTULUS* (Germ.) (2598). Common in small ponds and pools from Aug. 1 to Sept.

*COPTOTOMUS* Say

- C. INTERROGATUS* (Fab.) (2610). Not common. Taken at New Mill Pond in Ang. and at Station F186 in Sept.

*RHANTUS* Lae.

- R. BINOTATUS* (Harr.) (2616). Two individuals taken in New Mill Pond, July 21-34 indicating scarcity.

*COLYMBETES* Clairville

- C. SCULPTILIS* Harr. (2632). Pond near Bar Harbor, June 9, '27.

## 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. Thordike.)

## ACILIUS Leach

- A. SEMISULCATUS Aubé (2651). Probably the most generally distributed of this family, being in most of the small ponds from the 1st of July until October.

## GRAPHODERES Thomson

- 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

- D. NIGRIOR Robts. (2679). Not common. New Mill Pond, July 21, '34.
- D. AMERICANUS Say. (2680). Record of capture lost.
- D. HORNII Robts. (2681). Ice ponds in Manset, June 11 and New Mill Pond, Aug. 7.

*GYRINUS* Geoffroy

- G. FRATERNUS?* Coup. (2686). One female taken Aug. 7, '34 in New Mill Pond which Chamberlain says may be this species.
- G. AENEOLUS* LeC. (2687). One specimen taken Aug., '32, of which the record of capture has been lost. Scarce.
- G. DICHROUS* LeC. (2689). On Aug. 7, '34 a large number of both sexes were taken in New Mill Pond. Not taken in other ponds.
- G. AFFINIS* Aubé (2696). A male and a female taken in New Mill Pond, Aug. 7, '34, but not taken elsewhere.
- G. BOREALIS* var. *LUGENS* LeC. (2707a). Ice ponds Manset, July 15. On Aug. 7, '34 a large number of both sexes were taken in New Mill Pond.
- G. PUGIONIS* Fall. (19255). Salisbury Cove, July 29–Aug. 10. Not common.
- G. ASSIMILIS* Aubé. Record of capture lost.

## HYDROPHILIDAE. The Water Seavenger Beetles

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

*HELOPHORUS* Fabricius

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

*BEROSUS* Leach

- B. *STRIATUS* (Say) (2784). Pond in Eden, Aug 13 and New Mill Pond, Aug. 7. Not common.

## HYDROPHILUS DeGeer

- H. *OBTUSATUS* Say (2795). On July 24–26 a few were taken in a pond near Bar Harbor. Scarce.

*TROPISTERNUS* Solier

- T. *GLABER* (Hbst.) (2805). Witches Hole; Salisbury Cove, June 13–Aug. A rather scarce species.
- T. *MIXTUS* (LeC.) (2806). Station F137, Sept. 30; Station F137, Oct. 5. Not common.

## HYDROBIUS Leach

**H. GLOBOSUS** (Say) (2810). Found under stones and around roots in brooks Stations F128, F284, and F287, Aug. 14-28.

## ANACAENA Thomson

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

ENOCHRUS Thomson (*Philhydrus* Solier)

**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. REFLEXIPENNIS** (Zimm.) (2843). In a pool at the Narrows, Aug. 17.

## CYMBIODYTA Bedel

**C. FIMBRIATA** (Melsh.) (2850). Several specimens taken in a pool at the top of Breakneck Br., Aug. 29, '35, and a few at the Narrows, Aug. 13, '30. Scarce.

**C. BLANCHARDI?** Horn. (2851). Under stones in brooks. Station F284, Aug. 14, one specimen taken.

**C. VINDICATA?** Fall. (19277). Mt. Desert, May 1 (Br.).

## 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. 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. MINISCULUM** Melsh. (2891). Trash, fungi, etc. wet leaves. On a bone, Aug. 19 (Br.).

## CRYPTOPLEURUM Mulsant

*C. MINUTUM* (Fab.) (2899). S. W. Harbor, July 15. Not common. Frequent fungi and carrion that is not 'strong.'

## 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. SAYI Lap. (2912). Breakneck Rd., June 18. Penikese, Sept. 16, meat traps.
- N. ORBICOLLIS Say (2913). Breakneck Rd. meat trap, June 14. Penikese, Sept. 19.
- N. PUSTULATUS Hersch. (2918). Penikese meat trap. Aug.
- N. VESPILOIDES Hbst. (2919). S. W. Harbor on dead shrew; Salisbury Cove on dead snake, July 11 (Sanford); Corfield, Aug. 10; Penikese, Sept. 19, meat traps.
- N. TOMENTOSUS Web. (2920). Witches Hole. Green Mt., Sept. 10-15, meat traps.

## SILPHIA Linnaeus

- 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. LAPONICA Hbst. (2923). Station F153, Aug. 31; Station F156, Sept 15; Section 34, Sept. 19, all meat traps.
- S. NOVEBORACENSIS Forst. (2927). Green Mt. Bay Shore Drive, Sept. 8; Station F156, Sept. 15. Common and widely distributed.
- S. AMERICANA Linn. (2928). Common and widely distributed, June to Oct. Use meat traps.

## CHOLEVA Latreille

- C. LURIDIPENNIS (Mann.) (2947). Taken once in meat trap Station F155, Sept. 1.
- C. BASILLARIS (Say) (2951). Frequents dried carrion and bones. S. W. Harbor on dead shrew, July 18.
- C. CLAVICORNIS (LeC.) (2952). Meat trap section 28, Aug. 7.
- C. HORNIANA? Blanch. (2953). Same habits as above. Section 26, Aug. 7.

## PRIONOCHAETA Horn

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

## HYDNOBIUS Schmidt

- H. sp. Station F231, Oct. 8.

## AGATHIDIUM Illiger

- A. ONISCOIDES 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). Bred 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 Pselaphids.

## EUCONNUS Thomson

- E. BICOLOR (LeC.) (3063). Mt. Desert, Sept. 25 (Br.).

## CONNOPHRON Casey

- C. sp. Record of capture lost.

## ORTHOPTERIDAE (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.

## STAPHYLINIDAE. The Rove or Short-winged Scavenger Beetles

They feed on decaying animal and vegetable matter 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.

## ANTHOBIA Stephens

A. CONVEXUM Fauv. (3339). Frequents 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.

## ACEDOTA 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.

## OXYTELUS Gravenhorst

O. LAQUEATUS Marsh. (3576). Mt. Desert, Aug. 18 (Br.).

## 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 and Mt. Desert, July 2 (Br.).

S. AGEUS Csy. (3795). Mt. Desert, July 4 (Br.).

S. FLAVICORNIS Er. (3832). Look under leaves for these. S. W. Harbor, July 13.

## PAEDERUS Fabricius

P. LITTORARIUS Grav. (3952). Tremont, May 25 (Br.).

## LATHOBIUM Gravenhorst

L. SIMILE LeC. (3981). A scavenger. Jordan Pond, July 4 (Sanford).

L. SIMPLEX LeC. (3985). A scavenger. Corfield, Sept. 23-Oct. 10. Melon bait.

## NUDOBIAU Thomson

N. CEPHALUS (Say) (4285). Pretty Marsh under stones, Aug. 21.

## GYROHYPNUS Mannerheim

G. OBSCURUS (Er.) (4308). Corfield in lawn, Aug. 11. This is species *vera* according to Fall. Another very dark individual was taken May 3 (Br.).

## BAPTOLINUS Kraatz

B. MACROCEPHALUS (Nordm.) (4351). Mt. Desert, Sept. 18 (Br.).

## PHILONTHUS Curtis

P. POLITUS (Linn.) (4384). Penikese on bones, June 9. Aug. 26-Sept. 19.

P. FURVUS Nordm. (4386). Narrows, Aug. 13. Mt. Desert (Br.), Sept. 17.

P. FUSCIPENNIS Mann. (4396). Bar Harbor, Aug. 10.

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 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.).

*STAPHYLINUS* Linnaeus

- S. BADIPES* LeC. (4526). Corfield, July 16. Scarce.
- 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 stink-horn fungus.
- S. CINNOMOPTERUS* Grav. (4545). Station F110, July 30; Bar Harbor, Aug. 10; Fair Grounds, Aug. 25.
- S. VIOLACEUS* Grav. (4546). Wild Cat Valley, Aug. 8 (Sandford). Scarce.
- S. VIRIDANUS* Horn (4548). Bar Harbor, Aug. 10; Breakneck Rd., Aug. 21-Sept. 3, meat trap. Local in distribution.
- S. PRAELONGUS* Mann. (4550). Clark Cove in stump, July 30. Prettymarsh under stones, Aug. 21 (Br.). Indian Point, Oct. 21.

*OXYPHUS* Kraatz

- O. ATER* (Grav.) (4551). Station F285, Aug. 21; S. W. Harbor, Sept 5 (Alexander); Mt. Desert, Sept. 8 (Br.).

*ONTHOLESTES* Gangl.

- 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.

*QUEDIUS* Stephens

- Q. LAEVIGATUS* (Gyll.) (4575). Bar Harbor, Aug. 14.
- Q. MESOMELINUS* (Marsh) (4600). Corfield, May 25; Mt. Desert, June 4 (Br.); Toad hole under bark of dying maple, Sept. 6; Mt. Desert, Sept. 17-20 (Br.).

## OXYPORUS Fabricius

- O. VITTATUS Grav. (4634). Western Mt. in toadstool, Sept. 13; Paradise Hill in toadstools, Sept. 27.
- O. FASCIATUS Horn. (*bicolor* Fauv.) (4635). Duck Brook; Echo Lake, Sept. 3-11 on decaying fungi. Mt. Desert, Aug. 21 in *Polyporus* (Br.).
- O. BICOLOR Fauv. (4636). Echo Lake; Long Pond; Bar Harbor, Aug. 29-Sept. 11.
- O. LATERALIS Grav. (4637). Bar Harbor. Record of date lost.

## TACHINUS Gravenhorst

- T. MEMNONIUS Grav. (4652). Green Mt., Sept. 14 and Corfield, Sept. 21-24 with melon bait. Local in distribution.
- 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.
- T. PICIPES Er. (4666). Narrows; Bar Harbor, July 13-Aug. 10.
- T. LIMBATUS Melsh (4668). Corfield with melon bait, Sept. 12 and north shore of Eagle Lake in meat trap, Oct. 1. Searee.
- T. PALLIPES Grav. (4670). North end Eagle Lake in meat trap, Sept. 20; Mt. Desert, Sept. 18 (Br.). Searee.

## TACHYPORUS Gravenhorst

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

## CONOSOMA Kraatz

- C. KNOXI LeC. (4695). Bred from fungi, Sept. 20 (Br.).
- C. IMBRICATUS Casey (4698). Bred from white birch, June 11; Narrows, Aug. 3 (Sanford).

*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. *ANTICUS* Horn. (4724). A northern form. Sweeping lower Breakneck bog.
- B. *TRINOTATUS* Er. (4727). In poplar log Newport Meadow, June 12.

*BRYOPORUS* Kraatz

- B. *RUFESCENS* LeC. (4737). Lives beneath bark and debris. Mt. Desert, Aug. 29–Sept. 20 (Br.).

*MYCETOPHORUS* Mannerheim

- M. *PICTUS* Horn (4743a). Mt. Desert on fungi, Sept. 22 (Br.).

*BOLITOCHARA* Mannerheim

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

*GYROPHENA* Mannerheim

- G. *FLAVICORNIS* Melsh. (4961). From dry toadstool Penikese, Oct. 3. In U. S. N. M. Rare.

*ATHETA* Thomson

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

*ALEOCHARINAE*

Large series of these have been taken on fungi and set aside, for as E. A. Chapin says, "at present nothing can be done with these."

## ALEOCHARA Gravenhorst

- A. CURTULA? Goeze (5763). Mt. Desert, Sept. 17. (Br.).  
 A. LUSTRICA Say (5764). Station F155 in meat trap. Searee.  
 A. LATA Grav. (5766). Found under carrion. Penikese in meat trap, Sept. 16.  
 A. sp. Salisbury Cove, July 25.

## BARYDOMA Thomson

- B. BIMACULATA Grav. (5806). Salisbury Cove, Aug. 11; Penikese in meat trap, Sept. 19.

## 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.

## BRACHYGLUTA Thomson

- B. ABDOMINALIS? (Aubé.) (6730). Pretty Marsh Landing under stone with ants, Aug. 21.

## RYBAXIS Sauley

- R. CONJUNCTA LeC. (6310). Great Heath, Oct. 5, '35, sweeping (Br.).

## PILOPIUS Casey

- P. CONSOBRINUS (LeC.) (6367). Pretty Marsh Landing under stone with ants, Aug. 21.

## TYRUS Aubé

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

**SCAPHIDIIDAE.** 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

**B. CONCOLOR** (Fab.) (6515). Lives on the earlier toadstools. Not common. S. W. Harbor, July 13.

**HISTERIDAE.** The Hister Beetles

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

**HISTER** Linnaeus

**H. FOEDATUS** LeC. (6586). Station F266, Aug. 21.

**H. FURTIVUS** LeC. (6601). Penikese, Aug. 11. Scarce.

**H. DEPURATOR** Say (6606). Found in decaying fungi and other matter. Taken in meat traps. Common throughout the year.

**PLATYSOMA** Leach

**P. DEPRESSUM** LeC. (6653). Taken under bark of both hard-wood and pine trees. Lake Wood; Hulls Cove, July and Aug. Not common.

**P. COARCTATUM** LeC. (6659). Salisbury Cove under bark, June 25 (Blake).

**PSILOSCELIS** Mars.

**P. HARRISI** LeC. (6684). Base of Newport Mt. flying, June 11. Scarce.

## 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).
- S. CONFORMIS LeC. (6838). Occurs on carrion, more scarce than preceding species. North end Eagle Lake, meat bait, Sept. 20.

## LYCIDAE

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

## CAENIELLA Ckll.

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

## CELESTES Newman

- C. BASALIS LeC. (6931). Eden; Echo Lake; N. E. Harbor, July 15-Aug. 23.

## EROS Newman

- E. AURORA Hbst. (6939). Mt. Desert, May 25-June 10 (Br.). Scarce. Look under dry logs for these.

## 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.

## LUCIDOTA Laporte

- L. ATRA (Fab.) (6971). On trees in shady woods. Bar Harbor; N. E. Harbor; Echo Lake, June 16–July. Common.
- 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.
- L. DECIPIENS (Harr.) (6979). Penikese on grass, July 3–15.

## 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.
- P. SCINTILLANS (Say) (6999). Eden, June 15–July 20.

## PHOTURIS LeConte

- P. PENNSYLVANICA (DeG.) (7013). Common in July and taken by sweeping bushes.

## CANTHARIDAE. The Blister Beetles

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

## CHAULIOGNATHUS Hentz

- C. PENNSYLVANICUS DeG. (7051). Common on *Solidago* and allied plants. Station F264 mating, 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.
- P. PUNCTATUS LeC. (7072). Bar Harbor, June 14. Scarce.
- P. PINIPHILUS (Esch.) (7078). S. W. Harbor, July 14. Scarce.

CANTHARUS Linnaeus (*Telephorus* Schaeffer)

- 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. NIGRITULUS LeC. (7100). Bar Harbor; S. W. Harbor; Eden, July 10-15.
- C. SCITULUS Say (7106). S. W. Harbor; Salisbury Cove; Bar Harbor, July 13-24.
- C. ROTUNDICOLLIS Say (7113). Section 23 beating mixed shrubs, June 23. Bar Harbor; N. E. Harbor, July 7-20.
- C. CURTISI Kby. (7114). Long Pond; Bar Harbor; N. E. Harbor, June 27-July 20.
- C. TUBERCULATUS var. ARMIGER Couper (7119a). On alder and shrubs edging marshes. Bar Harbor, June 24; Station F70, Aug. 8. Scarce.
- 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.

## SILIS Latreille

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

## MALTHODES Kiesenwetter

- M. CONCAVUS LeC. (7178). Bar Harbor, July 24.
- M. FRAGILIS LeC. (7179). S. W. Harbor, July 13.

## 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 (Er.) (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

T. DUBIUS (Fab.) (7585). Bar Harbor, June 10, '28. Very rare.

ENOCLERUS Gahan

E. NIGRIPES var. RUFIVENTRIS Spin. (7591b). Taken on spruce logs, July 3-Oct. 10; Eden; Sec. 23; Western Mt.; Corfield.

TRICHODES Herbst

T. NUTTALLI Kby. (7629). 'Mt. Desert' (J. C. Merrill).

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. LECONTEI Wolc. (7648). Frequents low herbage. Penikese on *Solidago*, July 18; Green Mt. 1200 ft. on scrub, July 20.

*H. PALLIPENNIS* Say (7677). Robinson Mt., Aug 24; Jordan Pond, Sept. 3; foot of Sargent Mt. N. side. All taken sweeping bushes. Penikese beaten from oak, Sept. 10. Long Pond; Echo Lake, Aug. 21–Sept. 3.

ISOHYDNCERA Chapin

*I. CURTIPENNIS* (Newn.) (7688). Salisbury Cove, July 12.

ZENODOSUS Wolcott

*Z. SANGUINENSIS* (Say) (7694). Mt. Desert (Br.), July 7. Scarce.

CORYNETIDAE

PHYLLOBAENUS Spinola

*P. DISLOCATUS* Say (7696). Bar Harbor (Moore). Can be taken by beating dead branches.

NECROBIA Latreille

*N. VIOLENCEA* (Linn.) (7729). Penikese, July 16–Sept. 7. Eden on dried bones of a horse, July 14.

LYMEXYLIDAE

HYLECOETUS Latreille

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

CEPHALOIDAE

Beating and sweeping rank herbage will show results.

CEPHALOON Newman

*C. LEPTURIDES* Newn. (7747). Taken at light and on weeds Corfield, June 29–July 9. Shows variation in color.

TYPITIUM Casey

*T. UNGULARE* (LeC.) (7748). Echo Lake, July 17.

## NACERDA Stephens

N. MELANURA Linn. (7763). Corfield flying at dusk, Aug. 5.

## OEDEMERIDAE. The Oedemerid Beetles

## ASCLERA Stephens

A. RUFICOLLIS (Say) (7800). Occurs on some spring flowers and on willow and wild plum, Witches Hole, June 13.

## 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; See. 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. ERRANS Fall (7864). Bar Harbor, July 20.

M. NIGRICANS (Melsh.) (7879). Mt. Desert, July 20 (McAtee).

M. MARGINALIS (Say) (7901). Bar Harbor, Aug. 10.

M. sp. Green Mt. summit sweeping bushes, July 26.

## ANASPIS Geoffroy

- A. FLAVIPENNIS Hald. (7942). Found on flowers, especially those of the huckleberry, blueberry, and *Crataegus*. On catkins May 4. Generally distributed.
- A. RUFa Say (7943). Sweeping flowering bushes in July. Green Mt. summit, July 26; Long Pond, July 16.

## MELOIDAE. The Oil and Blister Beetles

## MACROBASIS LeConte

- M. UNICOLOR (Kby.) (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.

## MELOE Linnaeus

- 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.

## PYROCHROIDAE. The Fire-colored Beetles

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

## SCHIZOTUS Newman

- S. CERVICALIS Newn. (8224). Taken from under loose bark, white birch Upper Hadlock Pond, June 10. Rare.

*DENDROIDES* Latreille

- D. *BICOLOR* Newn. (8225). N. E. Harbor, July 17, under bark.  
Not found often. Scarce.
- D. *CONCOLOR* Newn. (8226). Taken the first part of July at  
light, Corfield; Bar Harbor; N. E. Harbor, June 17-July 7.

## ANTHICIDAE. The Ant-like Flower Beetles

*ANTHICUS* Paykull

- A. *CERVICALIS*. 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.'

*ADELOCERA* Latreille

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

*PITYOBIUS* LeConte

- P. *ANGUINUS* LeC. (8617). Mt. Desert, June 30-July 6 (Br.).

*LIMONIUS* Eschscholtz

- L. *AEGER* LeC. (8631). Hunters Beach Brook sweeping fern,  
June 19; Penikese beating, June 21.

## ATHOUS Eschscholtz

- 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 (Hentz) (8706). Lower Breakneck on catkins, Apr. 25. Rare.
- L. RESPLENDENS (Esch.) (8707). S. W. Harbor, June 25.
- L. SJAELANDICUS (Mull.) (8708). Witches Hole, June 13.
- L. CYLINDRIFORMIS (Hbst.) (8721). Mt. Desert, May 12-23 (Br.).
- L. APPRESSUS (Rand.) (8729). Record of capture lost.
- L. TARSALIS (Melsh) (8738). Penikese sweeping, June 17; Stations F240, F242 and F301. Common.
- L. SPINOSUS (LeC.) (8739). Near Bar Harbor (Burton).
- L. FALSIFICUS (LeC.) (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. AEREIPENNIS (Kby.) (8777). Under bark and sweeping. Common.
- L. NIGRICORNIS (Panz.) (8778). Echo Lake, July 12.
- L. ARATUS (LeC.) (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 Germar (*Asaphes* Kirby)

*H. MEMNONIUS* (Hbst.) (8814). Corfield, July 22-Aug. 14 at light; Station F133, Sept. 24.

*H. BILOBATUS* (Say) (8817).

CRYPTOHYPNUS Eschscholtz

*C. ABBREVIATUS* (Say) (8826). Lower Breakneck on catkins, Apr. 25.

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

*D. LATERALIS* Esch. (8878). Beaten from blackberry flowers, tamarack, etc. Stations F24, F85, F124, F237, F243 and F268. Common.

SERICUS Eschscholtz

*S. INCONGRUUS* (LeC.) (8882). Mt. Desert, May 22 (Br.).

*S. HONESTUS* Rand. (8884). Bar Harbor, June 8-22.

AGRIOTES Eschscholtz

*A. MANCUS* (Say) (8885). Beetles in this genus are best taken by beating. Stations F94 and F130.

*A. STABILIS* (LeC.) (8886). Echo Lake, June 27; Penikese beating, June 20.

- A. *fuscosus* (LeC.) (8888). S. W. Harbor; Long Pond; Bar Harbor, June 27-July 19.
- A. *fuscosus* var. *collaris* (LeC.) (8888a). Station F240, May 11. Scarce.
- A. *ferrugineipennis* LeC. (8890). Bar Harbor, June 16.
- A. *limosus* (LeC.) (8894). S. de M. Spring flying, May 25; S. W. Harbor; Echo Lake, July 11-17.
- A. *quebecensis* Brown. S. de M. Spring flying, May 25; Stations F190, F242 and F245.

## BETARMON Kiesenwetter

- B. *bimarginatus* (Rand.) (8904). S. W. Harbor, July 11; Green Mt. 1200 ft., July 20.

## ELATER Linnaeus

- E. *ruficollis* Say (8943). Viburnum and various plants Bar Harbor, July 10; Mt. Desert, May 11 (Br.); frequents *Viburnum*.
- E. *apicatus* Say (8953). Under bark willow log Station F261, July 30. Scarce.
- 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 Eschscholtz

- 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* (LeC.) (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.
- M. *sagittarius* (LeC.) (9059). Elm. Hulls Cove beating, July 14. Frequents elm.

## CARDIOPHORUS Eschscholtz

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

## MELASIDAE

## MICRORHAGUS Eschscholtz

*M. IMPERFECTUS* LeC. (9156). Bar Harbor, July 29.

## EPIPHANIS Eschscholtz

*E. CORNUTUS* Esch. (9175). One specimen taken July 5, '36 (Br.). Very rare.

## THROSCIDAE. The Pseudo Click Beetles

## AULONOTHROSCUS Horn

*A. CONSTRICTOR* Say (9195). Bar Harbor; Long Pond, June 16–July 16.

## 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.

## CHALCOPHORA Solier

*C. VIRGINIENSIS* (Drury) (9316). Usually occurs on pine where larva lives. Bar Harbor (Moore); Penikese, June 9.

*C. LACUSTRIS* LeC. (9317). On cord wood and fresh cut logs, June 15–July 10 in sun. Fairly common.

*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. CAUDATA LeC. (9334). Mt. Desert (Br.), Aug. 28.
- D. PROLONGATA LeC. (9335). Upper Breakneck on poplar. June 7; Mt. Desert (Br.), June 25; Eden on cord wood, July 3.
- D. CHRYSSEA Melsh. (9346). Penikese on ground, May 29; Eden on cord wood, June 24-July 5.

## BUPRESTIS Linnaeus

- B. SULCICOLLIS (LeC.) (9360). Corfield, July, 1929. Specimen left in the N. E. Sety. Natl. History. Very rare.
- B. STRIATA IMPEDITA Say (9363a). On pine July-Aug. (Br.).
- 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).

## MELANOPHILA Eschscholtz

- M. ACUMINATA (DeG.) (9381). Larva infests partly dead spruce. Bar Harbor; S. W. Harbor, Aug. 18-24; Mt. Desert, July 11 (Br.).
- M. AENEOLA Melsh. (9384). On red pine in July (Br.).
- 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. PUSILLA Cast. (9448). Bar Harbor, July 29. Larva infests pine and spruce.
- 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. 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. W. S. Fisher says that *femorata* is composed of a number of closely allied species and a revisional study is necessary before names can be given these forms.
- C. SCABRIPENNIS Cast. (9468). Found from latter part of June to end of July sun bathing on freshly cut wood of all kinds.

#### AGRILUS 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, July 11 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. Not common.
- A. LATERALIS (Say) (9514). Eden; S. W. Harbor, July 14-21.
- 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 Perrin (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.

## PSEPHENIDAE

## PSEPHENUS 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.

## 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; Break-neck Brook, and outlet of New Mill Pond, July 7-Aug. 24.

## 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.

## DASCYLLIDAE. The Soft-bodies Plant Beetles

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

## EURYPOGON Motschulsky

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

*MACROPOGON* Motschulsky

*M. RUFIPES* Horn (9658). Canyon Brook 1000 ft., July 20; Half Moon Pond, July 21; Mt. Desert (Br.), Aug. 10.

## HELOIDAE

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

*HELODES* Latreille

*H. MACULICOLLIS* Horn (9686). June, '35 (Alexander).

*H. PULCHELLA* Guer. (9687). Sweeping scrub on Green Mt. 1200 ft., July 20.

*CYPHON* Paykull

*C. RUFICOLLIS* (Say) (9692). Taken by beating leaves of bushes and trees Bar Harbor, June 22.

*C. OBSCURUS* Guer. (9696). Occurs on grass in low areas. Seal Cove Brook on wild carrot and ferns, Aug. 8. Disappears with frost.

*C. COLLARIS* (Guer.) (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. 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. Witches Hole (Br.), Sept. 12.

*PRIONOCYPHON* Redtenbacher

*P. DISCOIDEUS* (Say) (9703). Corfield at light, July 23; Bar Harbor, July 20. Scarce.

*P. LIMBATUM* LeC. (9704). Corfield at light, July 24. Not common.

*SCIRTES* Illiger

*S. TIBIALIS* Guer. (9708). Beaten from bushes at edge Witches Hole, July 30. Edges of ponds, natural habitat.

## DERMESTIDAE

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

## BYTURUS Latreille

- B. UNICOLOR Say (9718). Feeds on the flowers of blackberry and raspberry. The white 'raspberry fruit worm' found on the inside of the berry is the larva. Bar Harbor, July 10.

## DERMESTES Linnaeus

- D. CYLINDRICUS Casey (9726). Corfield, May 30. Scarce.  
D. TALPINUS Mann (9730). Penikese meat trap, Sept. 19, '29. Scarce.  
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.

## 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 LeC. (9785). Bar Harbor, Apr. 20 (Br.).

## ANTHRENUS Latreille

- A. SCROPHULARIAE (Linn.) (9829). Buffalo Carpet Beetle. Corfield eating center of white daisy, July 2. 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 *Dax verticellata* Bar Harbor, July 8 (Br.); Eagle Lake; Great Pond, July 16-Aug. 10. Sweeping.

## BYRRHIDAE. 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.

## BYRRHUS Linneaus

B. AMERICANUS LeC. (9869). Taken in logs Lake Wood, June 13. Corfield flying, July 7; S. W. Harbor, July 13; Green Mt., Aug. 17.

## CYTILUS Erielson

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

OSTOMIDAE (*Trogossitidae*). 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.

## CALITYS Thomson

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

## THYMALUS Latreille

T. MARGINICOLLIS Chev. (10010). Bred from white birch fungus *Polyporus betulinus*, July 27. Common.

## TENE BROIDES Piller &amp; Mitterpacher

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

## 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; Mt. Desert, Sept. 12-27 (Br.).

*CARPOPHILUS* Stephens

*C. HEMIPTERUS* (L.) (10042). A fruit and sap eater. Bar Harbor (Br.), Sept. 1.

*NITIDULA* Fabricius

*N. RUFIPES* (L.) (10067). Eden, July 14. Not common.

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

*E. TERMINALIS* Mann. (10081). Corfield, Sept. 12 with melon bait.

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

*STELIDOTA* Erichson

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

*S. OCTOMACULATA* (Say) (10099). Occurrence like above. Not common. Lake Wood, June 21.

*CRYPTARCHA* Shuckard

*C. AMPLA* Er. (10129). A sap eating beetle. Taken with melon and meat bait various places, June 28-Sept. 22. Common.

GLESCHROCHILUS Reitter (*Ips* of authors)

- G. FASCIATUS (Oliv.) (10137). Taken all summer from sap and fermenting fruit. Common.
- G. QUADRISIGNATUS var. VERA (Say) (10137). Same as above, Corfield, Sept. 12. Rare.
- G. SANGUINOLENTUS (Oliv.) (10138). Same as above. Corfield melon bait, Sept. 12. Not common.
- G. QUADRISIGNATUS (Say) (21854). Same as above as to food. Not common. Corfield, Sept. 12.
- G. SIEPMANNI Brown (21855). Corfield melon bait, Sept. 22. Not common.

## RHIZOPHAGIDAE

Under bark is the place to search for these.

## RHIZOPHAGUS Herbst

- R. REMOTUS LeC. (10152). Mt. Desert under bark, Sept. 18 (Br.).

## MONOTOMIDAE

## MONOTOMA Herbst

- M. PRODUCTA LeC. (10158). Taken from seaweed gathered on the beach at S. W. Harbor, Sept. 20.

## CUCUJIDAE

## SILVANUS 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 the bark of freshly felled ash and poplar trees. One specimen taken from spiderweb, June 7, '36 (Br.). Rare.

## EROTYLIDAE. The Pleasing Fungus Beetles

## TRITOMA Fabricius

- T. MACRA LeC. (10332). Breakneck Road on fungus under white birch bark (Br.), Sept. 19. Some in pupal cases.  
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.

## DERODONTIDAE

## LARICOBIAUS Rosenhauer

- L. ERICHSONI Rosenh. (10350). Mt. Desert, Apr. 26 (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. AMERICANUS LeC. (10360). Occurs on the flowers and leaves of the arrow-arum *Peltandra virginica* L. Bar Harbor, June 13–Aug. 18. On flowers of *Castalia odorata* (Br.).  
T. sp. Bar Harbor, July 8, '36. (Br.).

## ANTHEROPHAGUS Latreille

- A. CONVEXULUS LeC. (10372). Said to occur on flowers. Taken by sweeping Echo Lake, July 12.

## CRYPTOPHAGUS Herbst

- C. CELLARIS Scop. (10385). Taken in meat trap Penikese, Sept. 16. Rare.  
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."

**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.

**MYCETOPHIAGIDAE. The Hairy Fungus Beetles**

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

**TYPHAEA** Curtis

*T. FUMATA* (Linn.) (10509). Taken with melon bait Corfield, Sept. 12. Rare.

**COLYDIDAE. 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. CLYPEALE* Csy. (10602). From poplar log Newport Meadow, June 19.

**LATHRIDIIDAE. The Minute Brown Seavenger Beetles**

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

## LATHRIDIUS Herbst

L. LIRATUS LeC. (10631). Witches Hole, June 13; sweeping Sec. 16, Aug. 17. Not common.

## CORTICARIA Marsham

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

C. FERRUGINEA Marsh. (10694). Taken when sweeping damp places near Great Pond, July 16. Scarce.

## 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 cerasivorana*), Aug. 27 and beaten from spruce, Aug. 10 (Br.).

M. CALVICOLLIS Mann. (10713). Taken from toadstool roots Eden, Aug 7. Not common.

## 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.

## ENDOMYCHUS Panzer

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

## PHALACRIDAE. The Shining Flower Beetles

Sweeping is the method here.

## PHALACRUS Paykull

P. POLITUS Melsh. (10773). Mt. Desert (Br.), Sept. 17.

## OLIBRUS Eriehson

- O. SEMISTRIATUS LeC. (10780). Swept from *Solidago*, Sec. 16, Aug. 14. Common.
- 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. TENEBROSUS Muls. (11055). S. W. Harbor, Aug. 20.
- S. NANUS LeC. (11079). Breakneck Road on willow catkins, May 11.
- S. QUADRITAENIATUS LeC. (11111). Sweeping at Witches Hole, Aug. 18.
- S. MYRMIDON Muls. (11112). Mt. Desert (Br.), July 21.
- S. sp. Bar Harbor, May 10.

## 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. Wide-spread in small numbers.

## COCCEINELLA 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. NOVEMNOTATA Hbst. (11184). The Nine-spotted Lady-beetle hibernates under mullein leaves and logs. Richardson Brook beating, July 2. Searce.
- 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. BIPUNCTATA (Linn.) (11193). Often hibernates in buildings. A very beneficial insect. Common and generally distributed.
- A. FRIGIDA Schnied (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.

## ANISOCALVIA Crotch

- A. DUODECIM-MACULATA (Gebl.) (11200). Twelve-spotted Lady-beetle. Eden, July 27.
- 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.

- N. RANDALLI Csy. (11209). Bar Harbor (Br.), July 13. Scarce.

## CHILOCORUS Leach

- C. BIVULNERUS Muls. (11217). The Twice-stabbed Lady-beetle is quite a flier on the first spring days. Hibernates in rubbish. Penikese beating apple, Aug. 14.

- ALLECULIDAE (Cistelidae). The Comb-clawed Bark Beetles  
Searching under bark and beating especially dead branches  
is best here.

## HYMENORUS Mulsant

- H. NIGER (Melsh.) (11246). Found in the dead branches of oak. N. E. Harbor (Minot).

- H. PILOSUS (Melsh.) (11251). Occurs on and under the bark of willow. Bar Harbor, July (Moore).

## ISOMIRA Mulsant

- I. QUADRISTRIGATA Couper (11311). Occurs on shrubs along the border of marshes and best taken by beating. Common, June 20-Aug. 10.

## CAPNOCHROA LeConte

C. FULIGINOSA (Mels.) (11320). Beating bushes Dry Mt., July 17 (Sanford). Scarce.

## MYCETOCHARA Berthold

M. BICOLOR Coup. (11336). On fungi under bark. Corfield, July 17.

## ANDROCHIRUS LeConte

A. ERYTHROPENUS (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 betulinus*).

## BLAPSTINUS Latreille

B. METALLICUS (Fab.) (12207). Frequents rubbish in sandy places. Corfield, June 7.

## BOLITOTHERUS Candéze

B. CORNUTUS (Panz.) (12295). Bar Harbor, Jordan Pond, July 21-Sept. 1. Bred from 'shining tree fungus' (*Fomes lucidus*).

## DIAPERIS Geoffroy

D. MACULATA Oliv. (12305). Lives in the white birch tree fungus (*Polyporus betulinus*). Jordan Pond; Seal Harbor, June 10-Aug. 6.

## SCAPHIDEMA Redtenbacher

S. AENEOLUM (LeC.) (12311). Beaten from spruce, Aug. 23 and Sept. 12 (Br.).

## TRIBOLIUM MacLeay

T. FERRUGINEUM (Fab.) (12343). Taken in flour, Apr. 28, '37  
(Br.). Scaree.

T. OBSCURUS Linn. Bar Harbor, July 7 (Br.).

## SCOTOBATES Horn

S. CALCARATUS (Fab.) (12386). Occurs under bark of dead logs. Also under stones. Sieur de Monts Spring, July 22; See. 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 Labricius

U. CERAMBOIDES (Linn.) (12411). Under old board Norway Drive, Sept. 19; under bark of spruce log Boyd Road, Oct. 10; Robinson Mt. (Sanford).

## TENEBRIUS 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.

T. PICIPES Hbst. (12415). In nest of *Campouotus herculeanus* in maple log. Newport Meadow, June 12. Scaree.

## 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

## ARTHOMACRA 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.

## ABSTRULA Casey

- A. TESSELLATA (Melsh.) (12521). Occurs in decaying twigs. Corfield, Aug. 10. Rare anywhere.

## 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.

## EMMESA Newman

- E. CONNECTENS Newn. (12554). Beaten from shrubs Robinson Mt., June 26, '27. Rare.

## SERROPALPUS Hellenius

- S. BARBATUS (Schall.) (12568). Said to frequent wounds on conifers. Bar Harbor (Moore), (Br.), Aug. 17. Rare.

## DIRCAEA Fabricius

- D. QUADRIMACULATA (Say) (12570). Beaten from spruce, Aug 10 (Br.).

## PHLOEOTRYA Mulsant

- P. VAUDOUERI Muls. (12571). Occurs under bark. Taken on fir trunk, July 7, '36 (Br.). Rare.

## MICROTOMUS LeConte

- M. SERICANS LeC. (12576). Said to occur on elm. Salisbury Cove, June 15. Scarce.

## SYMPHORA LeConte

S. FLAVICOLLIS (Hald.) (12577). Taken on leaves and under bark. Long Pond, July 16.

## CANIFA LeConte

C. PUSILLA (Hald.) (12586). Beaten from foliage of shrubs. Echo Lake, June 27, Sept. 1. Scarce.

## 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. AMERICANUM Lap. (12601). Occurs in houses where it breeds in animal substances. Has been found in old insect boxes. Bar Harbor, July 26 (Br.).

## PTINUS Linnaeus

P. BRUNNEUS Dufts. (12612). In a house in Bar Harbor.

P. FUR L. (12613). An Old World species very dangerous to museum specimens. In laboratory June and July.

P. JAPONICUS. Corfield in lab., June 24-July 23.

## ANOBIIDAE

Look for them in dead branches, dried fungi, etc., and sift for them.

## ERNOBIUS Thomson

E. MOLLIS (Linn.) (12649). Occurs on pine. S. W. Harbor; N. E. Harbor; Green Mt., June 22-July 25. General distribution.

*MICROBREGMA* Seidl

*M. EMARGINATUM* (Duft.) (12711). Corfield flying, June 3-9.  
Scarce.

*COELOSTETHUS* LeConte

*C. NOTATUS* (Say) (12712). Look for them on dead branches  
of oak. Corfield, July 23.

*DORCATOMA* Herbst

*D. DRESDENSIS* Hbst. (12839). From fungi, June 6 (Br.).

*PTILINUS* Geoffroy

*P. RUFICORNIS* Say (12864). Destroying woodwork in house,  
July 1-4 (Br.).

## LYCTIDAE. 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.

*LYCTUS* Fabricius

*L. PLANICOLLIS* LeC. (12940). Found in dead limbs. Bred  
from hickory handle, May 20 (Br.); June 9.

## 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

*C. FUSCIPES* Mellie (12972). Occurs beneath bark on logs and  
on fungi. Salisbury Cove, June 25. Not common.

## XESTOCIS Casey

X. LEVETTI Casey (12997). It lives in the dry shining tree fungus (*Fomes lucidus*) on decaying hemlock logs. Bar Harbor; Jordan Pond, July and Aug.

## OCTOTEMNUS Mellié

O. LAEVIS Casey (13037). Under bark on log Salisbury Cove, June 25. Searee. Look for it under moss on logs.

## 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.

## APIODIUS Illiger

- A. FOSSOR (Linn.) (13107). Bar Harbor, June 11; Eden flying, June 30.
- A. HUMATUS Say. (13109). Mt. Desert (S. Henshaw).
- A. FIMETARIUS (Linn.) (13119). Occurs generally on horse and cow dung. Common. An introduced species.
- A. GRANARIUS (Linn.) (13131). Occurs on fungi and dung. Bar Harbor (Moore). Searee.
- 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. Scarce.

## 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. EGERIEI Germ. (13294). Also frequents fungi. S. W. Harbor, Sept. 5 (Alexander). Scarce.

G. SPLENDIDUS (Fab.) (13299). Frequents 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. Bred from a suit of old clothes (Br.). Scarce.

T. UNISTRIATUS Beauv. (13338). On dried bones July and Aug. General distribution.

## SERICA MacLeay

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. LECONTI 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).

## DIPIOTAXIS Kirby

- D. TRISTIS Kby. (13409). Found under bark, but feed at night. Penikese under board May 30; Witches Hole sugaring, Aug. 12; Penikese in geranol trap, Aug. 20. Not common.
- D. LIBERTA (Germ.) (13410). Bar Harbor (Moore), Ironbound 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. ANXIA LeC. (13516). Bar Harbor, June 11. Rare.

## 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. DILUTA Fall (13652). Eden, June 25, on wild roses. Scarce.

## LIGYRUS Burmeister

L. RELICTUS (Say). Corfield at light, Sept. 14. The adults fly at night and are attracted to light, while the larvae live in rotting vegetation.

## 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. CASTANEAEE 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. DELICATULA Casey (14009). Lives in openings of trees and found wandering always singly. Corfield, July 20–Aug. 11. One bred Aug. 15 from grub found in white birch log the previous Oct.

TRICHIOTINUS Casey (*Trichius* auct.)

T. AFFINIS (G. & 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.

## CERUCHUS MacLeay

C. PICEUS (Web.) (14058). One taken dead by Brower under bark of red oak while on a bird census Dec. 23, '37.

## PLATYCYERUS 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).

## 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 larva infests pine and spruce. Long Pond, June 11-20; Corfield, July. Scarce.

## TETROPIUM Kirby

T. CINNAMOPTERUM Kby. (14124). Bar Harbor, July 22 (Br.). The larva feeds on conifers.

## CRIOCEPHALUS Mulsant

C. AGRESTIS (Kby.) (14132). Larvae live in the roots of pine and spruce. Bar Harbor, June 17 (Br.); Corfield at light, Aug. 13. A long distance flier. Scarce.

## 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.

## HAPALOSALIA Casey

H. SPHAERICOLLIS (Say) (14310). Bar Harbor, N. E. Harbor, June 8-July 6.

## CENTRODERA LeConte

C. DECOLORATA (Harris) (14311). Occurs on beech and maple. Mt. Desert (Br.), July 9.

## 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 (Br.), 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.

## ANTHOPHILAX LeConte

A. MALACHITICUS (Hald.) (14416). Taken flying in spruce woods Witches Hole, May 28; Bubble Brook in woods, June 21. Not common.

A. VIRIDIS LeC. (14417). Frequents the spruce. Long Pond; Echo Lake, June 27–July 17.

## JUDOLIA Mulsant

J. SEXMACULATA (L) (14424). Taken sweeping Bar Harbor, June 24 (Br.); Echo Lake, July 12–17.

ANOPLODERA Mulsant (*Brachyleptura* Casey)

A. (BRACHYLEPTURA) RUBRICA (Say) (14438). The larva lives in beech. Norway Drive on *Spirea*, July 3, '34 and July 7, '36. Scarce.

A. (BRACHYLEPTURA) 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. (BRACHYLEPTURA) 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. (*STRANGALEPTA*) *VITTATA* Swn. (14469). This species has been bred from larch by M. W. Blackman. Common on flowers in July.
- A. (*BRACHYLEPTURA*) *NITENS* 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.

*PARALLELINA* Casey

- P. *SUBARGENTATA* (Kby.) (14459). Eagle Lake and Bar Harbor, July 18.

*CHARISALIA* Casey

- C. *CAPITATA* (Newn.) (14464). July 3, '33. Record of place lost. Rare.

*STRANGALEPTA* Casey

- S. *LINEOLA* (Say) (14465). Upper Hadlock Pond; Bar Harbor, June 10-July 17. Mt. Desert (Br.), June 20.

- S. *PUBERA* (Say) (14466). Bar Harbor, June 11. Rare.

*STRANGALIA* Serville

- S. *SUBHAMATA* (Rand.) (14482). Taken at light Corfield, July 28; Green Mt., Mt. Desert (Br.), July 10. Although a species of northern (July 21) range, it is rare here.

- S. *PLEBEJA* (Rand.) (14487). Bar Harbor, July 19-28.

*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. *PROXIMA* Say (14525). Occurs on the foliage of maple and on flowers Bar Harbor, July 19-29.

- L. *BIFORIS* Newn. (14530). Duck Brook; Green Mt.; N. E. Harbor, July 30-Aug. 19.

- L. *MUTABILIS* Newn. (14532). The larva lives in beech. Bar Harbor; S. W. Harbor, June 8-July 25. Great variation in color and size.

- L. *PEDALIS* LeC. (14534). S. W. Harbor; Great Pond, July 15-16; Jordan Pond, July 6.

**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.

**T. ACUTICAUDA** Casey (14544). S. W. Harbor, July 20. Rare.

**DESMOCERUS** Serville

**D. PALLIATUS** (Forst.) (14574). Elder-borer. The larvae live in the stems of elder (*Sambucus canadensis*), and the adults occur on the flowers and foliage from June 15–July 25. Common.

**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.).

**CALIDIUM** 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. DIMIDIATUS* (Kby.) (14640). Larva breeds in oak, larch, hemlock and spruce. On damp logs, July 1 (Br.); Echo Lake, July 17.

*CYLLENE* Newman

*C. ROBINIAE* (Forst) (14671). Bred from locust, Aug. 20.

*CALLOIDES* LeConte

*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. MURICATULUS* (Kby.) (14713). Larvae reported from spruce, larch and pine. Breakneck Brook, June 16. Bar Harbor; S. W. Harbor; Long Pond, July 16-29.

*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* Laich

*C. MARGINICOLLIS* Cast. (14734). Bar Harbor on rocket-plant, Aug. 5 (Br.).

*CYRTOPHORUS* LeConte

*C. VERRUCOSUS* (Oliv.) (14741). Larva reported from a variety of hardwoods, cherry and apple preferred. The adults live in flowers. Mt. Desert, June 23, '27 (Salman.) Scarce.

*PSENOCECUS* LeConte

*P. SUPERNOTATUS* (Say) (14894). Larva reported from elm, currant and Virginia creeper. Bar Harbor, June 22 (Br.).

*P. SUPERNOTATUS* var. *TRISTIS* Csy. (14894a). Same as above. Bar Harbor on beech log on woodpile, Aug. 2 (Br.).

*MONOCHAMUS* Serville (*Monohammus* auct.)

*M. NOTATUS* (Drury) (14901). Gray Pine Borer. Prefers pine, but infests spruce. The 'sawyer' of the lumbermen. General but not common.

*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.

*MICROGOES* Casey

*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.

## LEPTOSTYLUS LeConte

L. COLLARIS (Hald.) (14954). Bar Harbor, Aug. 2 (Br.).

## ASTYLOPSIS Casey

A. MACULA (Say) (14960). Bar Harbor, Aug. 2 (Br.).

A. GUTTATA (Say) (14961). Mt. Desert, July 21 (Br.).

## 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.

## GRAPHSURUS Kirby

G. PUSILLUS Kby. (15026). On log Eden, June 23. Scarce.

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. OBLIQUA Say (15109). The Alder Borer. In spite of the large growth of alder on the Island, this insect is scarce. Tremont, Aug. 23. Penikese at light, Sept. 10.

S. CANDIDA Fab. (15112). The Round Headed Apple Borer. Bores in apple and most pomaceous trees and shrubs. Taken in old orchards and at light. July 25-Aug. 21. Fairly common.

S. CALCARATA Say (15113). The Poplar Borer. Blackened scars on the limbs and trunk show where this insect has been working. Penikese at light, Aug. 11. Bar Harbor, Aug. 20. Not common.

- S. DISCOIDEA Fab. (15116). The Hickory Borer. Bred from hawthorn, July 12, '35 (Br.).
- S. CONCOLOR var. UNICOLOR Felt & Jout. (15123a). This insect also infests poplar. Bred from stem gall on *Populus tremuloides*, June 10 (Br.).

OBEREAE 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 (Br.).
- O. GRACILIS (Fab.) (15154). Bar Harbor, July 23 (Br.).

CHRYSOMELIDAE. 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

- D. HIRTICOLLIS Kby. (15194). The Donacia breeds 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. Eden, Aug. 10. Scarce.
- D. PROXIMA Kby. (15198). Little Round Pond, June 18; Tarn, July 28; Witches Hole, June 7–Sept. 11. Not common.
- D. CINCTICORNIS Newn. (15198a). Upper Breakneck Pond on (*Nymphaea advena*), July 28–Aug. 3. Scarce.
- D. PALMATA Oliv. (15199). The Tarn one specimen, July 28; Witches Hole, Aug. 6; much variation in color.
- D. RUFESCENS Lac. (15201). New Mill Pond, July 25. Upper Breakneck Pond, July 29. Shows great variation in size and in color. Not common.

- D. PISCATRIX Lac. (15202). Witches Hole, July 15; The Tarn, July 28. Shows considerable color variation.
- D. SUBTILIS var. FULGENS LeC. (15203). If this variety is valid, there is a record of Bar Harbor, July 24.
- D. SUBTILIS Kunze. (15203). A single specimen taken at Beaver Dam Pond flying, Sept. 24, '37; Bar Harbor, July 20-29.
- 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. DISTINCTA LeC. (15211). Bar Harbor, June 11.
- D. PUSILLA Say (15213). Witches Hole, June 13.
- D. METALLICA Ahrens (15215). Bar Harbor, June 11.
- D. EMARGINATA Kby. (*biimpressa* Melsh.) (15216). Penikese on wild mustard, June 4; Upper Hadlock Pond, June 10; Station F244, June 18.
- D. RUFA Say (15218). Rhodora Meadow flying, May 25; Witches Hole, June 13; Half Moon Pond sweeping the shore bushes, June 18.
- D. LIEBECKI Schffr. (20163). Witches Hole mating, July 28 and Upper Breakneck Pond, Aug. 3. In white water lily flowers both places. Show no variation. Scarce.

## 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 (Br.), June 16.
- O. ATRA var. HEPATICA Say (15219b). Witches Hole flying, June 2.
- O. ATRA var. CHILDRENI Kby. (15219c). Station F240 (Br.), May 11.
- O. ATRA var. TIBIALIS Kby. (15219d). 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.

## LEMA Fabricius

L. BRUNNICOLLIS Lac. (15239). A tamarack swamp is the habitat of these. Eden, July 15.

## CHLAMYS Knoch

C. GIBBOSA (Fab.)? (15297). Salisbury Cove, July 15, larva. C. CRIBRARIA LeC. Sweeping along roadsides will take these in Aug. and Sept. Common.

## 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 Lac. (15306a). Same as above. Brower has bred this from birch. Found on *Compositae* July 15 to frost.

## PACHYBRACHYS Redtenbacher

P. ATOMARIUS (Melsh.) (15407). S. W. Harbor, Sept. 3 (Alexander).

P. RELICTUS Fall. (15415). Robinson Mt. at Station F179, Aug. 24.

P. OBSOLETUS Suffr. (15433). Bar Harbor (Br.), July 6.

P. OTHONUS (Say) (15451). Eden, July 15, 1925. Scarce.

P. AUTOLYCUS var. DIFFICILIS Fall (15453a). New Mill Meadow sweeping, July 22.

P. HEPATICUS (Melsh.) (15470). S. W. Harbor, July 20.

## 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. QUADRIMACULATUS 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.
- C. INCERTUS Oliv. (15505). Breakneck Pond, Sept. 8. Feeds on the leaves of cranberry, hazel, etc.

## 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. CERINUS LeC. (15538). Bar Harbor (Moore).

## XANTHONIA Baly

- X. DECEMNOTATA (Say) (15573). Foliage of beech, elm, and oak. Bar Harbor (Br.), Sept. 12.
- X. 10-NOTATA var. IMMACULATA. Penikese beaten from oak, Sept. 10.

## ADOXUS Kirby

- A. OBSCURUS (Linn.) (15604). Station F73; S. W. Harbor; Long Pond, July 19–Aug. 21.
- A. VILLOSUS Schrank (15604b). Stations F173, Aug. 2 and F212, July 31.

## PARIA LeConte

- P. CANELLA (Fab.) (15626). Newport Meadow sweeping goldenrod, etc., Sept. 22.
- P. CANELLA var. QUADRIGUTTATA LeC. (15626d). Willow catkins, May 11; Long Pond, June 6.

## 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. SIMILIS Rogers (15665). Found in dry localities. Hibernates in rubbish. Newport Meadow sweeping wild rose, Oct. 5. Rare.
- C. ELEGANS (Oliv.) (15669). Prefers moisture. Look for it around *Solidago*. On *bidens* (Br.), Aug. 15; Station F137.
- C. SCALARIS LeC. (15671). Found on the foliage of elm, linden, etc. Stations F237 and E199.
- C. ROWENA Knab. (15673). Bar Harbor, June 12. Rare.
- C. PHILADELPHICA (L) (15674). Common. It feeds on (*Spireae*) and alder. Stations F122 and F199.
- C. PHILADELPHICA var. SPIREAE (Say) (15674a). As the name indicates, it prefers (*Spireae*). Mt. Desert, July (McAtee).
- C. BIGSBYANA (Kby.) (15677). Eden, July 15; 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.

## GASTROIDEA Hope

G. POLYGONI (Linn.) (15701). Sweeping grass and *Polygonum*. The latter is its food plant. Bar Harbor, June 17.

## LINA Megerle

L. INTERRUPTA (Fab.) (15708). Bar Harbor, June; Mt. Desert (Br.), June 15. The variety with all legs red was also taken. Bar Harbor (Br.), June 7.

L. TREMULAE (Fab.) (15709). An introduced European species. Bar Harbor, July 10.

## PHYLLODECTA Kirby

P. VULGATISSIMA (Linn.) (15717). Eagle Lake; Seal Harbor (Stowell), July 18–Aug. 15. It feeds on willow and poplar.

P. AMERICANA Schaeffer (21385). One specimen taken. Station F278, June 23.

## 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.

G. CAVICOLLIS (LeC.) (15746). Feeds on the leaves of wild cherry. Penikese, June–July beating.

G. NYMPHAEAE (Linn. (15751). On the leaves of *Nymphaeae advena* in the ponds, July and Aug.

G. DECORA (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. 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 15; Green Mt. summit, Aug. 5.
- G. PERPLEXA Fall (20198). Penikese, June 20; Green Mt. summit, Aug. 5; Swamp opposite Schooner Head, Sept. 22.

## MONOXIA LeConte

- M. PUNCTICOLLIS (Say) (15755). Salt marsh at Narrows, Aug. 3-Sept. 12.

## DIABROTICA Chevrolat

- 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.

## PHYLLOBROTONICA Redtenbacher

- 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) (15865a). Bar Harbor, May 18 (Br.).
- A. LIMBALIS Melsh. (15886). Beating oak foliage.
- 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. PENNSYLVANICA (Illig.) (15895). Found in moist meadows.  
Bar Harbor (Br.), May 12.
- D. QUINQUEVITTATA (Say) (15896). To be looked for on willow  
and poplar. Bar Harbor, Sept. 13; Penikese sweeping,  
Oct. 1.
- D. COLLATA (Fab.) (15911). Sweeping in low places. Pretty  
Marsh Landing, Aug. 21.
- 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 (*Haltica*) 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 Ill. (15920). Bar Harbor, June 13; Station F239  
at Sunken Heath.
- A. ROSAE Woods (15921). Feeds on wild rose. S. W. Harbor,  
July 11.
- A. SYLVIA Mall. (*torquata* Woods nec. LeC.) (20222). Green  
Mt. summit sweeping bushes, July 26; swept from blueberry  
(Br.), Sept. 26.

## CHALCOIDES Foudras

- C. HELXINES (L) (15968). Feeds on poplar and willow and is  
generally distributed. May is the optimum month.

## · 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.

## CHAETOCNEMA Stephens

C. MINUTA Melsh. (16006). Prefers the foliage of marshes and brook banks. Mt. Desert (Br.), Aug. 15.

## SYSTEMA Clark

S. PALLICORNIS Schffr. (16023). Common on various plants especially *Polygonum*. Stations F61 and F63; Great Heath; Green Mt., Aug.

## LONGITARSUS Latreille

L. ERRO? Horn (16045). Bar Harbor (Br.), Sept. 12. Scarce.

L. MELANURUS Melsh. (16049). Beating and sweeping roadsides. Section 26, Aug., Station F62, Sept.

L. INSOLENS Horn (16051). Tremont, Sept. 4. Scarce.

## PHYLLOTRETA Foudras

P. SINUATA (Steph.) (16065). Bar Harbor, July 24.

P. ROBUSTA LeC. (16068). Bar Harbor, July 24.

## DIBOLIA Latreille

D. BOREALIS Chev. (16086). Occurs on plantain (*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.).

## ANOPLITIS Chapuis

A. INAEQUALIS (Web.) (16105). Common and generally distributed, July 12–Sept. 20. Taken by sweeping.

CHALEPUS Thunberg (*Odontota* auct.)

C. DORSALIS Thunb. (16113). Hibernates beneath locust bark (*Robinia*) in the leaves of which the larvae mine. Beaten from clover, etc. Bar Harbor.

## MICRORHOPALA Baly

M. XERENE (Newn.) (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.

M. EXCAVATA (Oliv.) (16133). Common, July 11—Sept. 6.

## CHELYMORPHA Boheman

C. CASSIDEA (Fab.) (16139). This beautiful species, ‘turtle-shaped’ as its name describes it, feeds on the morning glory, (*Convolvulus sepium var. americanus*) and is also found on milkweed in other places. The beetles were all reddish brown in July and light yellow in Aug.

CHIRIDA Chapuis (*Coptocycla* 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 purpurata* Say. Mating at Station F169, June 25.

## PSYLLIODES Latreille

P. PUNCTULATA Melsh. (16089). Feeds on the leaves of dock and rhubarb and is common.

MYLABRIDAE (*Bruchidae*). The Pea and Bean Weevils

Look for them on legumes and on *Convolvulus sepium*.

## CASSIDA Linnaeus

C. RUBIGINOSA Müll. (16145). One taken by (Br.) sweeping. Gt. Heath, June 20, '37.

## MYLABRIS Müller

M. sp. Probably *prosopis*. On laboratory window, June 15.

PLATYSTOMIDAE (*Anthribidae*)

GONOTROPIS LeConte

G. GIBBOSUS LeC. (16278). One specimen taken July, 1937.  
Very rare.

EURYMYCTOR LeConte

E. FASCIATUS (Oliv.) (16279). S. W. Harbor, June 21.

ALLANDRUS LeConte

A. BREVICORNIS Frost (20248). S. W. Harbor, July 19.

EUPARIUS Schönherr

E. (CRATOPARIS) MARMOREUS (Oliv.) (16299). On laboratory window, May 30, '35. Rare.

## BELIDAE

ITYCERUS 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

AULETES Schönherr

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.

RHYNCHITES Herbst

R. BICOLOR Fab. (16348). The Rose Curelio is found on roses, blackberries and raspberries, occasionally doing damage. Scarce.

R. CYANELLUS LeC. (16359). Occurs on the leaves of the willows. Great Pond, July 16, sweeping.

R. PERPLEXUS Blatch. ? (16362). Sweeping fern and *spiraea*; Sec. 20, July 23.

*ATTELABUS* Linnaeus. Leaf-rolling weevils

- A. *BIPUSTULATUS* Fab. (16367). This species rolls the leaves of oak. Bar Harbor beating June 16. Rare.
- A. *RHOIS* 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

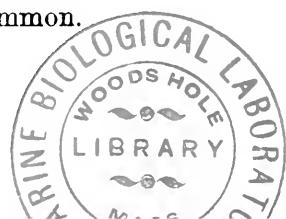
- A. *FINITIMUM* Fall (16380). Seal Cove Brook sweeping wild carrot and ferns, Aug. 7, '35; Station F214.
- A. *PENNSYLVANICUM* Boh. (16392). Narrows, Aug. 3, sweeping.
- A. *WALSHI* Sm. (16423). Recorded as occurring on white birch and in the galls of a willow. S. W. Harbor; Bar Harbor; Long Pond, July 15–Sept. 7.

*POLYDRUSUS* Germar

- P. *IMPRESSIFRONS* Gyll. (16622). Bar Harbor, June 11–Aug. 10.

*HORMORUS* Horn

- H. *UNDULATUS* (Uhler) (16635). General sweeping best way with these. Seal Harbor (Stowell), Aug. 9. Not common.



## 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.

## STROPHOSOMA Billberg

S. CORYLI (Fab.) (16641). Bar Harbor, May 27 (Br.).  
S. MELANOGRAMMA Forst. Great Heath beating (Br.).

## BARYNOTUS Germar

B. SCHOENHERRI Zett. (16671). S. W. Harbor, June 24; Seal Harbor, Aug. 9 (Stowell).

## BARYPEITHES Jaequelin-Duval

B. PELLUCIDUS (Boh.) (16672). A European species. Bar Harbor (Moore) Eden, June 25.

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.

## PHYLLOBIUS Germar

P. GLAUCUS Scop. (16726). A few swept Station F195 and one beaten from cedar Sec. 26, June 24, '37. I am told by the U. S. N. M. that these are not the true *P. glaucus* but resemble a Japanese form.

## SITONA Germar

S. FLAVESCENS Marsh. (16727). Taken by sweeping along the borders of marshes. Salisbury Cove, July 15. Edge of Gt. Heath on Middle Road, Aug. 24. Scarce.

S. HISPIDULUS (Fab.) (16728). Known as the Clover Leaf Curelio. The larva feeds on the roots of clover and other legumes. A real pest in places. Bar Harbor; Shea's Corner, Sept. 7.

S. TIBIALIS Hbst. (16738). Bar Harbor; Eden, June 13-July 15.

## 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.

## 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. INDISTINCTUS (Dietz)? (16803). Pretty Marsh, June 20.

H. SPARSUS (Say) (16821). Sifted from trash early spring. Newport Cove sweeping, July 11.

## PISSODES Germar

P. STROBI (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 (Br.).
- P. AFFINIS Rand. (16868). Similar to the above species, but larger. Salisbury Cove; Bar Harbor, etc., June 9–July 29.

#### HYLOBIUS Germar

- H. PALES Boh. (16873). Eden, Aug. 12 (Br.).
- H. CONFUSUS Kby. (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 LeC. (16914). Bar Harbor, Apr. 21–May 2 (Br.).

#### ONYCHYLIS LeConte

- O. NIGRIROSTRIS (Boh.) (17022). Taken on willow catkins, Apr. 21. Scarce.
- O. LONGULUS LeC. (17023). Found on pickerel weed (*Pontederia*), *Sagittaria* and other pond plants. Scarce.

#### PROCTORUS LeConte

- P. ARMATUS (LeC.) (17056). Willow catkins (Br.), May 11. Rare.

## TYCHIUS Germar

T. PICIROSTRIS (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. PICEAE Buch. On evergreens, Sept. 12 (Br.).

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 travel-  
ing. Infesting the acorns of red oak Eden, July 18; Robin-  
son Mt. in Sept.

## TACHYPTERELLUS Fall and Cockerell

T. QUADRIGIBBUS (Say) (17186). The Apple Curelio. Infests  
the fruit of both the apple and the thorn. Bar Harbor,  
June 17. Richardson Brook beating, July 2.

## ANTHONOMUS Germar

A. PROFUNDUS LeC. (17202). Frequents the huckleberry.  
Eagle Lake, July 18.

A. SYCOPHANTA Walsh (17212). Mt. Desert, May 26, and bred  
from gall on willow, Aug. 2 (Br.). Scarce.

A. CORVULUS LeC. (17217). Sweeping, June 23 (Br.).

A. SIGNATUS Say (17219). The Strawberry Weevil is a feeder  
on strawberry, blackberry and raspberry on which the fe-  
male 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 *spirea* 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. SUBFASCIATUS LeC. (17267). Bar Harbor; S. W. Harbor,  
 Aug. 10-30.

#### PSEUDOANTHONOMUS Dietz

- P. CRATAEGI Walsh. (17299). Parasitic in some galls and seed  
 pods. Swept from *Kalmia* S. W. Harbor, July 13.
- P. sp. Beaten from cherry, Aug. 18 (Br.).

#### ELLECHIUS Stephens

- E. BIPUNCTATUS (Linn.) (17333). Taken on willow blossoms  
 which it frequents. May 11. Also by (Br.).
- 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. EPHIPPIATUS (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. 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.

#### ACALPTUS Schönherr

- A. CARPINI (Herbst) (17251). Introduced from Europe. Occurs on the flowers of willow. Taken May 11, Otter Creek valley; Bar Harbor, May 4-10 (Br.). All on catkins.

## PIEZORHINUS Schönherr

P. SCUTELLATUS (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 LeC. (17360). Bar Harbor, July 22.

## LIMNOBARIS Bedel

L. RECTIROSTRIS (LeC.) (17646). Said to be in wet places on rushes. Corfield, June 23. Scarce.

## GELUS Casey

G. OCULATUS (Say) (17699). Taken by beating along edges of marshes. Bar Harbor (Br.), May 11. Scarce.

## 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. TENUIPES (LeC.) (17744). Eden, July 15. Said to breed in the buds of the primrose family.

A. NEBULOSUS (LeC.) (17753). Sweeping vegetation near wet places. S. W. Harbor; Salisbury Cove, July 13-15.

## CEUTORHYNCHUS Germar

C. MARGINATUS (Payk.) (17767). Taken from dead leaves in Fawn Pond, May 30. Said to frequent lettuce and dandelion. Scarce.

C. CYANIPENNIS Germ. (17783). Found on wild cruciferous plants. Bar Harbor, July 19.

C. SEPTENTRIONALIS Gyll. (17817). Taken on "hedge mustard" (*Sisymbrium officinale*) Bar Harbor, July 19. Scarce.

## PELENOMUS Thomson

P. SULCICOLLIS (Fähr.) (17828). Frequents smartweed (*Polygonum*) from which it was swept. N. E. Harbor, July 26. Not common.

## RHINONCUS Schönherr

R. PYRRHOPUS Boh. (17842). Occurs on different species of dock (*Rumex*). Bar Harbor, July 19-24.

## CONOTRACHELUS Schönherr

C. NENUPHAR (Hbst.) (17851). Known as the Plum Curelio. Breeds in plum, cherry, and the like. Bred from cherry 'black-knot' (Br.). Common.

## CRYPTORHYNCHUS Illiger

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. Bred from willow as late as July 17.

## RHYNCOLUS Germar

R. BRUNNEUS Mann. (18070). On cedar stump, June 27 (Br.).

## SPHENOPHORUS Schönherr

S. COSTIPENNIS Horn (18114). Breeds in the roots of grass-like plants. Wet meadow south of Penikese, July 14 Scarce.

## SCOLYTIDAE. The Bark Beetles

These are to be found in dead trees. Caging dead limbs is an easy way to collect them.

## POLYGRAPHUS Erichson

P. RUFIPENNIS (Kby.) (18193). The Spruce Bark Beetle. It infests dying and felled spruce. N. E. Harbor; S. W. Harbor, June.

## DENDROCTONUS Erichson

D. VALENS LeC. (18231). The Turpentine Beetle. Corfield flying, June 16. Dug from dead spruce Bar Harbor, Oct. 8 (Br.).

## LEPERISINUS Reitter

L. ACULEATUS (Say) (18252). The host is ash from which it was taken, Corfield, Sept. 13; Indian Point, Sept. 23.

## TRYPODENDRON Stephens

T. RETUSUM (LeC.) (18306). On poplar catkins, Apr. 26 (Br.).

T. BIVITATTUM (Kby.) (18309). Mt. Desert, May 7 (Br.).

## GNATHOTRICHUS Eichhoff

G. MATERIARIUS (Fitch) (18400). The Pine Wood Stainer. Excavates galleries in the sapwood and heartwood of dying and recently felled pine and spruce. Bar Harbor, June 16.

## CONOPHTHORUS Hopkins

C. CONIPERDA (Sz.) (18410). Bar Harbor, May 4 (Br.).

## PITYOPHTHORUS Eichhoff

- P. RAMIPERDA Sw. (18421). Bred from white pine twigs, Aug. 19.
- P. PATCHI Blackman (20668). Taken on Pitch Pine (Sanford).
- P. PULICARIUS (Zimm.) (18423). Bred from white pine twigs, Aug. 19, 1919 (M. W. Blackman).
- P. BIOVALIS Blackm. (20669). Bred from white pine twigs, Aug. 19, 1919 (M. W. Blackman).

## 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.

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. AMERICANUS Hopk. (18538). Occurs in fir and spruce. Long Pond, July 16.
- 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 thaspii* Groen.

## Order MECOPTERA

## PANORPIDAE. Scorpion flies

The way to take the members of this family is by sweeping, particularly near brooks and in gulleys.

## PANORPA Linnaeus

P. MACULOSA Hag. Bar Harbor; Green Mt., Aug. 10-17.

P. NEBULOSA Westw. Bar Harbor (Br.); Chasm on Sargent Mt.; Station F242, April 24-Aug. 9.

P. RUFESCENS Ramb. S. W. Harbor; Duck Brook, June 24-July 13.

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

## HYDROPSYCHIDAE

ARCTOPSYCHE McLachlan

A. APICALIS Banks. Long Pond, July 16.

CHEUMATOPSYCHE Wallengren

C. ANALIS (Bks.). Bar Harbor, June 7 (Br.).

## HYDROPSYCHE Pictet

H. sp. Duck Brook; Bar Harbor, July 30.

OXYETHIRA Eaton

O. sp. Mt. Desert (Br.), Aug. 30.

O. sp. Mt. Desert, Aug. 19 (Br.).

## LEPTOCERIDAE

LEPTOCELLA Banks

L. EXQUISITA Walk. Great Pond, June 20.

MYSTACIDES Latreille

M. sp. Echo Lake, July 12.

OECETIS McLachlan

O. FUMOSA (Bks.). Penikese at light, July 11.

O. INCONSPICUA (Walk.). S. W. Harbor, July; Witch Hole Pond, July 30; Corfield at light, July 10-12.

TRIAENODES McLachlan

T. FLAVESCENS Banks. Echo Lake, July 12.

T. sp. Mt. Desert, July 7 (Br.).

## LIMNEPHILIDAE

ANISOGAMUS Banks

A. DIVERGENS Walk. Record of capture lost.

## APATANIA Kolenati

A. STIGMATELLA (Zett.). Edge of Great Heath sweeping, Oct. 7, '32. One specimen taken.

## ASTENOPHYLAX McLachlan

A. ARGUS (Harris). Record of capture lost.

## CABORIUS Navas

C. PUNCTATISSIMUS (Wlk.). One specimen taken at Witches Hole Brook beating, Sept. 1, '37.

## CHILOSTIGMA McLachlan

C. MISSUM Milne. Record of capture lost.

## GLYPHOPSYCHE Banks

G. BELLUS Bks. Bar Harbor, May 11-26 (Br.).

## GLYPHOTAElius Stephens

G. HOSTILIS (Hagen). Penikese at light June 1-Aug. 8.

## LIMNEPHILUS Leach

L. COMBINATUS Walk. Penikese at light, Aug. 7.

L. CONSOCIA Walk. S. W. Harbor; N. E. Harbor, July 26-Aug. 23.

L. DESPECTUS Walk. Bar Harbor; S. W. Harbor, June 24-July 21; Corfield at light, Oct. 15.

L. EXTERNUS Hag. Hatched from larvae from Ireson Hill Pond, Aug. 27.

L. INDIVISUS Walker. Little Round Pond sweeping, June 18.

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.

L. ORNATUS Bks. Penikese and Corfield at light, June 14-July 23.

L. SUBMONILIFER Walk. Duck Brook; McKinley swamp; Penikese and Corfield at light, Sept. 12-Oct. 6. Our most common form.

## NEOPHYLAX McLachlan

- N. CONCINNUS (M'L). Bar Harbor (Br.); Corfield, Sept. 12–Oct. 18; S. W. Harbor (Alexander); Seal Cove, Sept. 5–8.  
 N. sp. Seal Cove Brook, Oct. 1.  
 N. sp. Bubble Pond Inlet, Oct. 4.

## 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.

## STENOPHYLAX Kolenati

- S. GUTTIFER (Wlk.). Echo Lake; Duck Brook; Corfield at light; Sargent Mt. Pond; Seal Cove Brook, Sept. 3–Oct. 6.  
 S. SCABRIPENNIS (Rambur). Bar Harbor (Br.); Witches Hole Brook; Canyon Brook at 1000 ft., Aug. 27–Sept. 23.

## DRUSINUS Betten

- D. VIRGINICUS (Bks.). Mt. Desert, June 6 (Alexander).

## MOLANNIDAE

## MOLANNA Curtis

- M. sp. Bar Harbor (Br.), July 7.

## PHILOPOTAMIDAE

## PHILOPOTAMUS Leach

- P. DISTINCTUS (Walk.). Duck Brook, July 30; Corfield, Aug. 3.  
 P. sp. Outlet of Ripple Pond, Aug. 18.

## CHIMARRHA Leach

- C. ATERRIMA Hag. Bubble Brook; Bar Harbor; Long Pond;  
 Seal Cove Brook, June 10–Sept. 8.  
 C. sp.

## DOLOPHILELLA Banks

D. MOESTUS (Bks.). Somes Sound Inlet; Witch Hole; Break-neck Brook; Bubble Brook, June 14-23 (Alexander).

## PHRYGANEIDAE

## BANKSIOLA Martynov

B. CONCATENATA Walker. Penikese at light, June 14-July 15.  
B. DOSSUARIA Say. N. E. Harbor, July 1 (Minot).

## OLIGOSTOMIS Martinov

O. CANADENSIS Banks. S. W. Harbor; Corfield at light, July 10-15.

## PHRYGANEA Linnaeus

P. CINEREA Walk. N. E. Harbor, Aug. 24 (Minot).  
P. SAYI Milne. Penikese at light; June 21.

## PTILOSTOMIS Martinov

P. SEMIFASCIATA Say. Penikese and Corfield at light; S. W. Harbor; June 2-28.

## PSYCHOMYIDAE

## HOLOCENTROPUS McLachlan

H. INTERRUPTUS Banks. S. W. Harbor, June 20.  
H. sp. Bar Harbor, June 21.

## NYCTIOPHYLAX Brauer

N. VESTITUS (Hag.). Corfield, Aug. 10.

## PHYLOCENTROPUS Banks

P. CRASSICORNIS (Wlk.). S. W. Harbor bog, June 12 and Bar Harbor, July 7 (Br.).  
P. LUCIDUS (Hag.). Echo Lake; Bar Harbor, July 17-30;  
Hunters Beach Brook sweeping ferns, June 19.

*PLECTROCNEMIA* Stephens

*P. CONFUSA* Hagen. Corfield, Aug. 15.

*POLYCENTROPUS* Curtis

*P. ALBIPUNCTATUS* Bks. Bar Harbor, July 6-7 (Br.). Station F251, July 18.

*P. CONFUSUS* Hag. Bar Harbor, July 21.

*P. sp.* Bar Harbor; Witches Hole, July 22-30.

## RHYACOPHILIDAE

*RHYACOPHILA* Pietet

*R. INVARIA* Wlk. Long Pond, July 16.

*R. TORVA* Hag. Canyon Brook 1000 ft. elevation, July 20. Bar Harbor; Duck Brook, June 7-30.

## SERICOSTOMATIDAE

*HELICOPSYCHE* Hagen

*H. BOREALIS* Hag. Echo Lake, July 17.

*LEPIDOSTOMA* Rambur

*L. AMERICANA* Banks. Bar Harbor, July 17.

*L. FROSTI* (Milne). Bar Harbor, Aug 16 (Br.).

*L. sp.*

## LEPIDOSTOMATINAE

*L. gen. sp.* Bar Harbor, July 7 (Br.).

## Order LEPIDOPTERA. (Macrolepidoptera)

## 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 Swallow-tail. 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.

## COLIAS Fabricius

C. *EURYTHEME* BdV. form *KEEWAYDIN* Edw. (41).

C. *EURYTHEME* BdV. (41). Orange Sulphur-butterfly. A western species that is occasionally found in New England. Mr. Scudder on the distribution of this species in his "Butterflies of New England," says: "Mt. Desert, Me., a single specimen seen (Thaxter)." Again on page 1132, he says: "Mr. Thaxter was attracted to the specimen which he took at Mt. Desert by the orange color of the wings, and says the butterfly was apparently dancing in nuptial pas de deux with a companion; they twirled high into the air beyond reach, but soon separated and came to earth again, when one was captured."

C. *EURYTHEME* BdV. form *ARIADNE* Edw. (41).

C. *PHILODICE* Godt. (42). Clouded Sulphur-butterfly. Common, July-Sept. The larva feeds on a number of the *Leguminosae*, but prefers the clovers.

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" (Seudder). 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 Linn. (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 Linn. (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.

## SATYRIDAE

## 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

*S. EURYDICE* Joh. (106). The Common Grass Nymph. Bar Harbor; Eden; S. W. Harbor, July 10-24. The larva feeds on grasses.

MINOIS Hübner

*M. ALOPE MARITIMA* Edw. (117a). The Wood Nymph. Common throughout the Island July 15 into Aug. The larva feeds on grasses.

*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.

*A. APHRODITE* Fab. (167). The Silver Spot. July and August. Larva feeds on violets. Not as common as the following species.

*A. ATLANTIS* Edw. (171). The Mountain Silver Spot. The most common butterfly of the Island during July and August. The larva feeds on violets.

BRENTTHIS Hübner

*B. MYRINA* Cram. (200). The Silver-bordered Fritillary. Common throughout the Island during July and August. The larva feeds on violets.

*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 Scudder

E. PHAETON Drury (217). The Baltimore. Meadow south of Salisbury Cove, July 14–18, 1923. The larva feeds on turtle head (*Chelone glabra*).

## MELITAEA Fabricius

M. HARRISII Scud. (256). Harris's Checker-spot. Common, Bar Harbor and S. W. Harbor, June 9–25. The larva feeds on asters and turtle-head (*Chelone glabra*).

## PHYCIODES Hübner

P. NYCTEIS Doubl. & Hew. (263). The Silver Crescent. Common, Bar Harbor; Jordan Pond and S. W. Harbor, June 7–25. The larva feeds on asters and other *Compositae*.

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.

P. COMMA Harr. (286). The Comma Butterfly. Not common. Ironbound Isl. (Blaney). The form *dryas* was taken at Salisbury Cove, July 14. Larva feeds on nettle, etc.

P. FAUNUS Edw. (288). The Green Comma. Not common. Bar Harbor, July 29; Seal Harbor (D. Rockefeller). The larva feeds on birch, currant and gooseberry.

P. PROGNE Cram. (294). The Gray Comma. Eden, July 14; Bar Harbor, Aug. 10. The larva feeds on currant and gooseberry. Bred by (Br.).

## NYMPHALIS Kluk

- N. J-ALBUM BdV. & LeC. (295). The Compton Tortoise. Quite common at S. W. Harbor, Aug. 20.
- N. MILBERTI Godart. (297). Milbert's Butterfly. Ironbound Isl. (Blaney). Larva feeds on nettle (*Urtica dioica*). Bar Harbor, July 26 (Br.).
- 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 (*Anaphalis*) 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 Seudder

- B. ARTHEMIS Drury (321). Banded Purple. Common. Bar Harbor; Echo Lake; S. W. Harbor; Long Pond, July 1-Sept. 7. The larva feeds on birch, willow and poplar.

B. ARTHEMIS Dru. 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. Seudder says: "It is not at all improbable that *ursula* (*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.)

B. ARCHIPPUS Cram. (325). The Viceroy. Not common. Bar Harbor, Aug. 15. The larva feeds on willow and poplar.

#### LYCAENIDAE

##### STRYMON Hübner

- S. MELINUS Hbn. (373). Hulls Cove, June 12; Mt. Desert, May 22–Aug. 2 (Br.).  
 S. EDWARDSHI Saund. (385). Mt. Desert, Aug. 9 (Br.).  
 S. CALANUS Hbn. (386). The Banded Hair-streak. Bar Harbor (Br.); Eden, July 18–24. The larva feeds on oak and thorn (*Crataegus*). Scarce.

##### INCISALIA Seudder

- I. AUGUSTUS Kby. (403). Brown Elfin. Eden in June.  
 I. POLIOS Cook & Wat. (409). Mt. Desert, June 25 (Br.).  
 I. NIPHON Hbn. (413). Banded Elfin. 'Mt. Desert' (Seudder). The larva feeds on pine.

##### ERORA Seudder

- E. LAETA Edw. (418). Bar Harbor, May 19 (Br.).

##### FENISECA Grote

- F. TARQUINIUS Fab. (419). The Wanderer. Near Bar Harbor (Burton). The larva is carnivorous, feeding on the woolly aphids *Prociphilus tessellata* on the alder and *P. imbricator* on the beech.

## LYCAENA Fabricius

- L. EPIXANTHE BdV. & LeC. (434). The Least Copper. Meadow south of Salisbury Cove in July. Larva feeds on cranberry.
- L. HYPOPHLAEAS BdV. (435). The American Copper. Common. Bar Harbor; S. W. Harbor, July 10–Aug. 24. Larva feeds on field sorrel (*Rumex acetosella*).

## EVERES Hübner

- E. COMYNTAS Godart. (447). The Tailed Blue. Near Bar Harbor. The larva feeds on clover and other leguminous plants.

## PLEBEIUS Kluk

- P. SAEPIOCUS form INSULANUS Blkmre. (453b). Mt. Desert, June 29–July 5 (Br.).

## LYCAENOPSIS F. &amp; 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.

## HESPERIDAE

## THORYBES Scudder

- T. PYLADES Scud. (505). Station F244, June 18.

## ERYNNIS Schrank

- E. ICELUS Scud. & Burg. (541). Corfield; S. W. Harbor; Echo Lake; Station F243, June 12–July 24. The larva feeds on poplar.

## CARTEROCEPHALUS Lederer

- C. PALAEMON Pall. (563). Bar Harbor, June 7–22.

*HESPERIA* Fabricius

- H. COMMA* race MANITOBA Scud. (584b). Mt. Desert, Aug. 12–18 (Br.). This race is moving eastward.
- H. LEONARDUS* Harr. (591). Norway Drive, Sept. 10 (Br.). Rare and local in old fields.
- H. SASSACUS* Harr. (598). Echo Lake, July 12. 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 Isl. (Blaney).

*CATIA* G. & S.

- C. OTHO* A. & S. (621). Echo Lake, July 12.

*POANES* Seudder

- P. НОВОМОК* (Harris) (624). Echo Lake; N. E. Harbor; S. W. Harbor, June 17–July 10. This species has dimorphic females. The larva feeds on grasses.

*ATRYTONE* Seudder

- A. BIMACULA* G. & R. (641). Bar Harbor (Br.); Penikese, June 30–July 15.
- A. RURICOLA* Bdv. (642). Bar Harbor, July 13–Aug. 3 (Br.).

*AMBLYSCIRTES* Seudder

- 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 (Br.).

## SPHINGIDAE. The Sphinx Moths

With the exception of *Hemaris*, they all are attracted to light.

## PHLEGETHONTIUS Hübner

P. QUINQUEMACULATA Haw. (697). Found dead in a greenhouse, Oct., 1937 (Br.).

## DOLBA Walker

D. HYLAEUS Dru. (703). Penikese at light, June 28. Larva feeds on blueberry and privet. Scarce.

## CERATOMIA Harris

C. UNDULOSA Walk. (707). The Waved Sphinx. Bar Harbor, July 29. Hulls Cove, June 22. The larva feeds on ash, lilac, privet, etc. Not common.

## 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. KALMIAE Abb. & Sm. (727). The Laurel Sphinx. Common, July 30-Aug. 14. The larva feeds on laurel, ash and lilac.

S. GORDIUS Cram. (728). The Gordian Sphinx. Bar Harbor: Penikese at light, June 7-Aug. 30. The larva feeds on huckleberry, birch, *Rosacea*. Abundant in 1937.

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

L. BOMBYCOIDES Walk. (736). The Bombyx Sphinx. Penikese at light, June 18-July 9. The larvae is said to feed on pine. Scarce.

## SMERINTHUS Latreille

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 R. &amp; J.

P. MODESTA Harr. (745). The Big Poplar Sphinx. Common. Large hatch 1935. Penikese, June. The larva feeds on poplar and willow.

## AELLOPOS Hübner

A. TITAN Cram. (765). The White-banded Day-sphinx. Penikese, July. Scarce and its northern limit.

## 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. GRACILIS Grt. & Rob. (768). The Graceful Clear-wing. Great Clearing; Witch Hole Pond; S. W. Harbor (Br.) in June. The most scarce of the three species.

H. DIFFINIS Bd. (770). The Snowberry Clear-wing. Common, June 12-July 17. The larva feeds on snowberry (*Symporicarpus*), *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

D. PHOLUS Cram. (780). Azalea Sphinx. The caterpillar feeds on *Azalea* and *Viburnum*. Penikese at light, June 7; Bar Harbor, July 19 (Br.).

## AMPHION Hübner

A. NESSUS Cr. (785). The Nessus Sphinx flies just before sunset. The caterpillar feeds on wild grape, *Ampelopsis*, *Rhodora* and *lilae*. Scarce. Bar Harbor, July 6 (Br.).

## CELERIO Oken

C. GALLI var. INTERMEDIA Kby. (798a). The Galium Sphinx. N. E. Harbor, Aug. 15 (Minot); Penikese at light, June 22. The larva feeds on fire weed (*Epilobium*). Scarce.

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.

## SATURNIDAE

## 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.

P. COLUMBIA Smith (806). Eden at light, June 15. Not common. The caterpillar feeds on the larch.

## ACTIAS Leach

A. LUNA Linn. (811). Luna Moth. Generally distributed and increasing in numbers during the past five years. June 20-Aug. 1.

## TELEA Hübner

T. POLYPHEMUS Cram. (812). The American Silk-worm. Common. The larvae is a general feeder on deciduous trees.

## CITHERONIIDAE

ANISOTA Hübner

- A. VIRGINIENSIS Drury (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 Fab. (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.

## AMATIDAE

SCEPSIS Walker

- S. FULVICOLLIS Hbn. (871). Sea Wall on goldenrod, Station F159; Penikese at light, Sept. 11–23. The moths frequent the blossoms of *Solidago* in the late summer.

## LYCOMORPHA Harris

- L. PHOLUS Drury (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*.

CTENUCHA Kirby

- C. VIRGINICA Charp. (884). Common, July 10–Aug. 15. The larva feeds on grasses.

## NOLIDAE

SARBENA Walker

- S. MINUSCULA Zell. (897). Corfield, June 25; Bar Harbor, June 22–July 17 (Br.).

## ARCTIIDAE

LEXIS Wallengren

- L. BICOLOR Gr. (905). Corfield and Penikese at light; Bar Harbor (Br.), Aug. 4–12.

## CRAMBIDIA Packard

C. PALLIDA Pek. (906). The Pale Lichen Moth. Bar Harbor, July 27–Aug. 18 (Br.).

## CLEMENSIA Packard

C. ALBATA Pack. (952). The Little White Lichen Moth which is generally distributed. Bar Harbor, Aug. 16.

## 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 TREATII Grt. (1016a). Corfield at light; Bar Harbor (Br.), July 6–14.

E. AURANTIACA form QUINARIA Grote. (1019). Paradise Hill and Penikese at light; S. W. Harbor (Br.), July 13–Aug. 14.

E. AURANTIACA var. RUBICUNDARIA Hbn. (1019a). Common, July 16–Aug. 24. The larva feeds on a variety of plants.

E. BREVICORNIS Wlk. (1019b). S. W. Harbor, July 21–25 (Br.).

E. FERRUGINOSA form IMMACULATA Reak. (1023). N. E. Harbor (Minot); July 26.

## 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*.  
P. ASSIMILANS Wlk. (1029). Penikese at light, May 25–Aug. 5.

## APANTESIS WALKER

- A. VIRGO Linn. (1033). The Virgin Tiger Moth. Common, July 27–Aug. 16. The larva feeds on plantain, lettuce, etc.
- A. INTERMEDIA Streh. (1034). Bar Harbor (Br.); Corfield at light, Aug. 9–10. Scarce.
- A. PARTHENICE Kby. (1035). N. E. Harbor, Aug. 29 (Minot).
- 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.

## 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 Wlk.

- 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.

## ESTIGMENE Hübner

- E. ACRAEA Drury (1070). The Acraea Moth. Bar Harbor; S. W. Harbor; Eden, June 9–25. The larva is a general feeder. Common.
- E. PRIMA Slosson (1072). Bar Harbor (Br.); Penikese and Corfield at light, June 14–July 7.
- E. CONGRUA Wlk. (1073). Corfield at light, June 22.

## HYPHANTRIA Harris

- H. TEXTOR Harr. (1074). The Northern or Spotless Fall Webworm. Bar Harbor; Penikese at light; N. E. Harbor, June 19–July 18. The larvae form webs on various fruit and shade trees in late August and early September.

## 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

A. CAJA AMERICANA Harr. (1098d). The Great Tiger Moth. Bred July 27–31 from female captured at light (Br.).

## 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.).

## PHALAENIDAE

## COLOCASIA Ochsenheimer

C. FLAVICORNIS Sm. (1122). Bar Harbor, July 2 (Br.).

C. PROPINQUILINEA Grt. (1123). Bar Harbor, June 17–July 10 (Br.).

## PANTHEA Hübner

P. ACRONYCTOIDES Wlk. (1125). Bar Harbor, June 24 (Br.).

P. FURCILLA Pack. (1130). Common in July. The larva feeds on larch and pine.

## CHARADRA Walker

C. DERIDENS Guen. (1135). Bar Harbor, June 14–July 13 (Br.); Penikese at light, June 2–30. The caterpillar makes a case for itself by drawing two leaves together with strands of silk.

## RAPHIA Hübner

R. FRATER Grt. (1141). Generally distributed from middle of July-Aug. 1. The curious larva feeds on poplar and willow.

## 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 10 (Br.).
- A. DACTYLINA Grt. (1151). Corfield and Penikese at light. Bar Harbor; N. E. Harbor; S. W. Harbor; July 16-28. The larva feeds on alder, birch and willow.
- A. LEPUSCULINA Gn. (1153). Bar Harbor, July 1-27 (Br.).
- A. LEPUSCULINA Gn. var. (1153). Bar Harbor, June 27 (Br.).
- A. LEPORINA VULPINA Grt. (1154a). Bar Harbor, July 20-Aug. 8. (Br.) Rare.
- A. INNOTATA Gn. (1155). The Unmarked Dagger Moth. N. E. Harbor; S. W. Harbor, July 15-20. Penikese at light, July 26; Bar Harbor, July 14 (Br.); Corfield sugaring, Aug. 8.
- A. TRITONA Hbn. (1159). Bar Harbor, July 28 (Br.). Scarce.
- A. GRISEA Wlk. (1160). The Gray Dagger Moth. The larva feeds on apple, birch, elm and willow. Bar Harbor, July 10-25 (Br.).
- A. HASTA Guen. (1176). The Dart Dagger Moth. Penikese at light, June 27.
- A. MORULA Grt. (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. HAMAMELIS Gn. (1193). Bar Harbor, July 8-13 (Br.); Penikese at light, July 3.
- 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. IMPRESSA Walk. (1204). The Printed Dagger. Larva feeds on blackberry, currant, hazel, plum and willow. Penikese at light, July 26; Bar Harbor, July 31-Aug. 14 (Br.).
- A. LITHOSPILA Grt. (1209). The Streaked Dagger. The larvae in this region feed on oak. Bar Harbor, Aug. 8 (Br.).
- A. LANCEOLARIA Grt. (1216). Bar Harbor (Bliss Field) (Br.). Larva taken on *Spiraea latifolia*. Larva determined by S. E. Crumb.

## HARRISIMEMNA Grote

- H. TRISIGNATA Wlk. (1223). Mt. Desert, July 10 (Br.). The larva feeds on the lilac and winterberry. Rare.

## EUXOA Hübner

- E. DETERSA Wlk. (1272). Bar Harbor, Sept. 22 (Br.).
- E. PERPOLITA Morr. (1292). S. W. Harbor; Corfield at light; Bar Harbor (Br.), Aug. 13-Sept. 10.
- E. VELLERIPENNIS Grt. (1296). Bar Harbor, Aug. 23 (Br.).
- E. MIMALLONIS Grt. Aug. 8 (Br.). A rare species.
- E. MESSORIA Harr. (1310). Eden; N. E. Harbor; Bar Harbor (Br.), Aug. 15-Sept. 6. The larva is one of the most troublesome of the early cutworms. Common.
- E. MESSORIA ab. TRIABILIS Grt. (1310). Bar Harbor (Br.), Aug. 23-Sept. 9.
- E. SCHOLASTICA McD. (1315). Mt. Desert, Aug. 17 (Br.).
- E. FUMALIS Grt. (1321). Bar Harbor, Aug. 9-28 (Br.).
- E. TESSELLATA Harr. (1341). Striped Cutworm. Bar Harbor, Aug. 25 (Br.).
- E. DECLARATA Wlk. (1351). Bar Harbor, Aug. 25-31 (Br.).
- E. REDIMICULA Morr. (1371). Eden, Aug. 24. The larva attacks the buds of blueberry.
- E. OCHROGASTER Guen. (1378). Penikese, Aug. Bar Harbor, Sept. 1-5 (Br.).

*AGROTIS* Oehsenheimer

- A. *VETUSTA* Walk. (1416). The Spotted-legged Cut-worm. Penikese, Sept.
- A. *MOLLIS* Walk. (1419). N. E. Harbor (Minot); Bar Harbor (Br.), July 12–Aug. 25.
- A. *VENERABILIS* Walk. (1425). Bar Harbor; N. E. Harbor; Penikese and Corfield at light through the month of September.
- A. *VOLUBILIS* Harr. (1432). Bar Harbor, Sept. 24 (Br.).
- A. *YPSILON* Rott. (1435). Bar Harbor, July 22; Corfield sugar-ing and at light, June 6–Aug. 5. The larva is one of the troublesome cutworms. A very common species.
- A. *SUBPORPHYREA* Wlk. (1437). S. W. Harbor bog, July 19 (Br.).

*FELTIA* Walker

- F. *DUCENS* Walk. (1442). The larva is one of the most com-mon cutworms and feeds on almost everything. Common.
- F. *SUBGOTHICA* Haw. (1445). The Dingy Cutworm. Penikese at light; Bar Harbor (Br.), Aug. 9–30.
- F. *ANNEXA* Treit. (1450). The Granulated Cutworm. Bar Harbor, Oct. 28 (Br.).
- F. *GENICULATA* Grt. & Rob. (1451). Salisbury Cove, Aug. 12; S. W. Harbor, Sept. 18 (Br.).

*ACTEBIA* Stephens

- A. *FENNICA* Tausch (1452). The Black-lined Cutworm. Bar Harbor, Aug. 6–17 (Br.).

*SPAELOTIS* Boisduval

- S. *CLANDESTINA* Harr. (1472). The Well-marked Cutworm. Bar Harbor, July 6 (Br.). Penikese under bark, July 5. Corfield, July. Anything edible seems to satisfy this cut-worm.

## EUROIS Hübner

- E. OCCULTA* Linn. (1475). N. E. Harbor, July 19–27 (Minot). In this section it is a blueberry feeder. A distinctly northern species.
- E. ASTRICTA* 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

- O. PLECTA* Linn. (1480). Corfield at light, July. Scarce.

## EUAGROTIS McDunnough

- E. LUBRICANS* Gn. var. (1482). Bar Harbor, Aug. 23 (Br.).  
*E. ILLAPSA* Wlk. (1483). Bar Harbor, July 12 (Br.); Corfield at light, July 25.

## METALEPSIS Grote

- M. FISHII* Grt. (1493). Mt. Desert, April 27 (Br.).  
*M. SALICARUM* Wlk. (1494). Mt. Desert, April 26 (Br.).

## PERIDROMA Hübner

- P. MARGARITOSA* form *SAUCIA* Hbn. (1496). The Variegated Cut-worm. Bar Harbor, Aug. 31 (Br.).

## PSEUDOSPAELOTIS 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. c-nigrum* Linn. (1511). The Spotted Cutworm. Bar Harbor, Sept. 12 (Br.); Corfield at light, Sept. 15.
- G. SMITHI* Snell (1512). N. E. Harbor, July 12. Corfield at light, Sept. 1.
- G. NORMANIANA* Grt. (1513). Bar Harbor, Aug. 8–18 (Br.).
- G. COLLARIS* G & R (1522). Bar Harbor (Br.); Penikese at light, Aug. 13–Sept. 6.
- G. BICARNEA* Guen. (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. TENUICULA* Morr. (1525). Bar Harbor, Aug. 23–31 (Br.).
- G. OPACIFRONS* Grt. (1527). Bar Harbor, Aug. 24 (Br.).

## ANOMOGYNA Staud.

- A. PERQUIRITATA* Morr. (1555). Penikese at light, Aug. 13.
- A. ELIMATA* Gn. (1561). N. E. Harbor, July 23. Corfield, Sept. 15. S. W. Harbor (Br.), Sept. 4.
- A. ELIMATA GRISATRA* Sm. (1561a). Bar Harbor, Aug. 24 (Br.). Corfield at light, Aug. 25.
- A. ELIMATA BADICOLLIS* Grt. (1561b). N. E. Harbor (Minot); Bar Harbor (Br.), July 17–Sept. 13.
- 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 10 (Br.).
- A. PRASINA* Fab. (1570). The Green-winged Dart-moth. N. E. Harbor, July 19 (Minot); Bar Harbor (Br.); Corfield, July 14–Aug. 20. Has a wide range in the north.

## PROTOLAMPRA McDunnough

- P. RUFIPECTUS Morr. (1571). Bar Harbor, Aug. 24 (Br.).  
 P. BRUNNEICOLLIS Grt. (1572). Bar Harbor, Aug. 23 (Br.).  
     Food plants are low ones and include dandelion, sweet fern,  
     and blueberry.  
 P. sp. Bar Harbor, Sept. 9 (Br.).

## CRYPTOCALA Benjamin

- C. ACADIENSIS Beth. (1575). S. W. Harbor; N. E. Harbor;  
 Eden, Aug.

## EUERETAGROTIS 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 form BRUNNEIPENNIS Grt. (1602). Bar Harbor, Aug.  
     7-20 (Br.). Penikese at light, last of Aug.  
 R. CUPIDA var. (1602). Bar Harbor, Aug. 24 (Br.).  
 R. ANCHOCELIOIDES Guen. (1604). S. W. Harbor, Sept. 8.

## UFEUS Grote

- U. SATYRICUS Grt. (1611). Somesville, under bark of dead  
 spruce, Sept. 28. Bar Harbor (Br.), Oct. 9. Scarce.

## SCOTOGRAMMA Smith

- S. TRIFOLII Rott. (1633). Penikese at light, last of Aug.  
 S. TRIFOLII ALBIFUSA Wlk. (1633a). Bar Harbor, Aug. 16 (Br.).

## POLIA Ochsenheimer

- P. NIMBOSA Gn. (1663). Bar Harbor, July 5 (Br.). Scarce.
- P. IMBRIFERA Guen. (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. GRANDIS BdV. (1672). Penikese at light, June 23-July 19.
- P. SUBJUNCTA 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, July 6 (Br.).
- P. ATLANTICA Grt. (1677). Record of capture lost.
- P. LEGITIMA Grt. (1683). Penikese at light July 13.
- P. TACOMA Strk. (1684). Penikese at light, June 7.
- P. RUGOSA Morr. (1685). Penikese at light, June 15. Bar Harbor, June 8-July 4 (Br.).
- P. LILACINA Harv. (1687). Penikese and Corfield at light; Bar Harbor (Br.), June 24-July 31.
- P. LILACINA var. Record of capture lost.
- P. ADJUNcta BdV. (1691). Bred Aug. 26 (Br.).
- P. ASSIMILIS Morr. (1693). Penikese at light, July 2-Aug. 1.
- P. LUTRA Gn. (1699). Penikese at light, June 14; Bar Harbor, July 1 (Br.).
- P. DETRACTA Wlk. (1709). Bar Harbor, July 2 (Br.). Food plants include service berry, gray birch and blueberry.

## LACINIPOLIA McDunnough

- L. MEDITATA Grt. (1712). Penikese at light, Aug. 6; Bar Harbor, Aug. 18 (Br.). Very rare.
- L. LUSTRALIS Grt. (1714). Penikese at light, June 23.
- L. ANGUINA Grt. (1716). Bar Harbor, June 30-Sept. 11 (Br.).
- L. RENIGERA Steph. (1738). Bar Harbor, Sept. 2 (Br.).
- L. LOREA Guen. (1744). Bar Harbor, June 22 (Br.). Sweet fern and *Spirea* are the favorites among its food plants.
- L. OLIVACEA Morr. (1745). Bar Harbor, Aug. 19 (Br.).

## SIDERIDIS Hübner

- S. ROSEA Harv. (1800). Penikese at light, June 2.  
 S. RUBEFACTA Morr. (1802). Narrows; Penikese at light; Bar Harbor (Br.); Otter Cliffs, June 28–July 9. Scarce.

## TRICHLITA Grote

- T. SIGNATA Walk. (1821). N. E. Harbor; Salisbury Cove; Corfield at light, July 31–Aug. 17.  
 T. SIGNATA form IGNA B. & B. (1821). Bar Harbor, Aug. 7 (Br.).

## ORTHOIDES Guenée

- O. OVIDUCTA Gn. (1855). Mt. Desert, June 16–July 7 (Br.).  
 O. CRENULATA Butl. (1871). N. E. Harbor, Aug. 5 (Minot).  
 O. CYNICA Guen. (1872). Record doubtful but should be found here.  
 O. VECORS Guen. (1876). S. W. Harbor; N. E. Harbor, July 13–Aug. 23.

## ERIOPYGA Guenée

- E. CONTRAHENS Wlk. (1886). Mt. Desert, Aug. 7 (Br.).  
 E. FURFURATA Gpt. (1890). Bar Harbor, July 25 (Br.).

## NEPHELODES Guenée

- N. EMMEDONIA Cram. (1895). The Bronzed Cutworm. Common, July 13–Sept. 6. The larva feeds on *Solidago*, etc.  
 N. EMMEDONIA form VIOLANS Guen. (1895). Penikese, Aug. 20–Sept. 1.

## MORRISONIA Grote

- M. EVICTA Grt. (1903). Bar Harbor, May 8–21 (Br.).  
 M. EVICTA form VOMERINA Grt. (1903). Bar Harbor, May 13–18 (Br.).

## XYLOMYGES Guenée

- X. DOLOSA Grt. (1914). Bar Harbor, May 29–Aug. 20 (Br.).

## ORTHOSSIA Oehsenheimer

- O. RUBRESCENS* Wlk. (1937). Bar Harbor, May 5 (Br.). Scarce.  
*O. REVICTA* Morr. (1940). Bar Harbor, Apr. 26 (Br.).  
*O. HIBISCI* Gn. (1943). Bar Harbor, Apr. 27 (Br.).

## CROCIGRAPHIA Grote

- C. NORMANI* Grt. (1950). Mt. Desert, April 27 (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

- P. ALBILINEA* Hbn. (1962). Penikese at light, June 15. N. E. Harbor, Aug. 10 (Minot). The larva feeds on grasses and grain.  
*P. ALBILINEATA DIFFUSA* Wlk. (1962a). Penikese at light, June 15.

## LEUCANIA Oehsenheimer

- L. PSEUDARGYRIA* Guen. (1973). N. E. Harbor, July 22 (Minot).  
*L. PSEUDARGYRIA* form *CALLIDA* Grt. (1973). Bar Harbor, July 6 (Br.).  
*L. INERMIS* Fbs. (1975). Bar Harbor, June 27–July 7 (Br.).  
*L. COMMOIDES* Guen. (1977). Penikese at light, July 13–Aug. 20.  
*L. MULTILINEA* Walk. (1982). N. E. Harbor (Minot); Bar Harbor (Br.); Corfield at light, July 13–30.  
*L. LATIUSCULA* H. S. (1991). Bar Harbor, Aug. 31, 1935 (Br.). Very rare.  
*L. INSUETA* Guen. (1992). S. W. Harbor, July 13. Penikese at light, June 28.  
*L. UNIPUNCTA* Haw. (1994). The Army Worm. Corfield at light and bait during August.  
*L. LUTEOPALLENS* Sm. (1995). S. W. Harbor; Eden, July 13–Aug. 25. The larva feeds on grasses.

## CUCULLIA Schrank

- C. INTERMEDIA Spey. (2038). Penikese at light, May 26; Station F190, June 2; Eden, Aug.
- C. FLOREA Guen. (2041). Bar Harbor, Aug. 27 (Br.).
- C. POSTERA Gn. (2042). Bar Harbor, July 18-30 (Br.).
- C. OMISSA Dod? (Det. Benjamin) (2043). Bar Harbor, July 14 (Br.).
- C. ASTEROIDES Guen. (2044). Bar Harbor, Aug. 23 (Br.).
- C. CONVEXIPENNIS Grt. & Rob. (2046). N. E. Harbor; Penikese and Corfield at light, June 20-Aug. 25.

## ONCOCNEMIS Lederer

- O. PIFFARDI (2116). S. W. Harbor; Bar Harbor (Br.); Penikese at light, Sept. 26.

## APHARETRA Grote

- A. DENTATA Grt. (2156). Eden, Aug. 7; Bar Harbor, Aug. 2-14 (Br.).

## FERALIA Grote

- F. JOCOSA Gn. (2183). Bar Harbor, May 18 (Br.). Scarce.
- F. JOCOSA Gn. from JOCOSIDES Strand. In a hemlock grove, May 8 (Br.). A dark form of JOCOSA, presumably this.
- F. MAJOR Sm. (2185). Bar Harbor, May 11 (Br.). Usually frequents pine woods.
- F. COMSTOCKI Grt. (2186). Corfield and Penikese at light, June 1-6.

## BOMBYCIA Stephens

- B. ALGENS Grt. (2207). Bar Harbor (Br.); Penikese at light, Aug. 17-Sept. 27. A rare form anywhere.

## BRACHYLOMIA Hampson

- B. DISCINIGRA Wlk. (2209). Bar Harbor, Aug. 30 (Br.). A very rare form.

## HILLIA Grote

- H. IRIS Zett. (2211). Penikese at light, Sept. 27.

## LEMMERIA B &amp; B

L. DIGITALIS Grt. (2214). Bar Harbor, Sept. 25 (Br.).

## LITHOLOMIA Grote

L. NAPAEA Morr. (2215). Bar Harbor, Apr. 20–26. Narrows, Oct. 14, flying.

## LITHOMOIA Hübner

L. SOLIDAGINIS Hbn. (2216). Penikese at light; N. E. Harbor (Minot), Sept. 1–29.

## GRAPTOLITHA Hübner

G. BETHUNEI G & R (2220). Bar Harbor, Apr. 27–Sept. 10 (Br.).

G. INNOMINATA Sm. (2221). Bar Harbor, Oct. 10 (Br.).

G. PETULCA Grt. (2222). Mt. Desert, Aug. 29–Oct. 9 (Br.). It webs white birch.

G. FERREALIS Grt. (2223). Mt. Desert, May 7–Sept. 9 (Br.).

G. DISPOSITA Morr. (2225). Penikese and Corfield at light, June 3–6.

G. TEPIDA Grt. (2241). Bar Harbor, May 8 (Br.).

G. GEORGII Grt. (2244). Bar Harbor, July 21 (Br.).

G. LATICINERA Grt. (2245). Bar Harbor, Apr. 23 (Br.).

G. UNIMODA Lint. (2247). Bar Harbor, Apr. 28 (Br.).

G. FAGINA Morr. (2248). Bar Harbor, Apr. 30 (Br.); Corfield at light, Oct. 11.

G. PEXATA Grt. (2252). Bar Harbor, May 1 (Br.).

G. THAXTERI Grt. (2258). Bred from *Myrica gale*, Sept. 20 (Br.).

## XYLENA Oehsenheimer

X. NUPERA Lint. (2259). Mt. Desert, Apr. 30 (Br.). Corfield at light, Sept. 16.

X. CURVIMACULA Morr. (2260). Bar Harbor, May 1–10 (Br.).

X. CINERITIA Grt. (2263). Bar Harbor, Apr. 30 (Br.).

## XYLOTYPHA Hampson

- X. CAPAX Grt. & Rob. (2265). N. E. Harbor (Minot), Sept. 1-24.
- X. ACADIA B. & Benj. (2266). Bar Harbor, Sept. 24. Bar Harbor, Aug. 3 (Br.). A recently described species. Few in collections. Rare.

## PLATYPOLIA Grote

- P. ANCEPS Steph. (2268). Bred from broad leaved aster (*A. macrophyllus*), Sept. 18 (Br.). Corfield at light, Oct. 1.

## FISHEA Grote

- F. ENTHEA Grt. (2283). Bar Harbor, Oct. 6 (Br.).

## ANYTUS Grote

- A. PRIVATA Wlk. (2285). Penikese at light, Aug. 13-Sept. 11.
- A. PROFUNDA form TELTOWA Sm. (2288). Bar Harbor, Aug. 31-Sept. 6 (Br.).

## HARPAGLAEA Hampson

- H. SERICEA Morr. (2289). Bar Harbor, Sept. 26 (Br.).
- H. PASTILLICANS Morr. (2291). Bar Harbor, Sept. 20-25 (Br.).

## EPIGLAEA Grote

- E. APIATA Grt. (2294). Eden, Aug. Penikese at light; Bar Harbor (Br.), Sept. 21-27.

## METAXAGLAEA Frane.

- M. INULTA Grt. (2296). N. E. Harbor, Sept. 24 (Minot). Bar Harbor, Sept. 19-23 (Br.).

## EUPSIGIA Hübner

- E. TRISTIGMATA Grt. (2303). Bar Harbor, Oct. 30 (Br.).  
 E. SIDUS Gn. (2304). Bar Harbor, Apr. 16–19 (Br.); Corfield,  
     Oct. 16. Larva feeds on various low plants.  
 E. MORRISONI Grt. (2305). Bar Harbor, Oct. 30 (Br.).  
 E. DEVIA Grt. (2306). Bar Harbor, Apr. 26 (Br.).

## PARASTICHTIS Hübner

- P. DISCIVARIA Wlk. (2309). Bar Harbor, Aug. 6–18 (Br.).

## RUSINA Stephens

- R. BICOLORAGO Gn. (2312). Mt. Desert, Oct. 14 (Br.).

## XANTHIA Ochsenheimer

- X. LUTEA Strom. (2316). N. E. Harbor; Corfield at light, Aug.  
     7–Sept. 27.

## ANATHIX Frane.

- A. RALLA Grt. & Rob. (2317). N. E. Harbor (Minot); Bar  
     Harbor (Br.), Aug. 11–Sept. 27.  
 A. PUTA G & R (2318). Bar Harbor, Aug. 29–Sept. 9 (Br.).

## EUCIRRHOEDIA Grote

- E. PAMPINA Gn. (2321). Echo Lake; Penikese at light; West-  
     ern Mt.; Corfield, July 7–Sept. 13.

## HOMOGLAEA Morrison

- H. HIRCINA Morr. (2324). Bar Harbor, Apr. 20 (Br.).

## SEPTIS Hübner

- S. VERBASCOIDES Gn. (2328). Bar Harbor, July 24–Aug. 6  
     (Br.).  
 S. NIGRIOR Smith (2329). Eden, middle of Aug.  
 S. LIGNICOLORA Guen. (2335). S. W. Harbor; Penikese at light,  
     July 20–23.  
 S. VULTUOSA Grt. (2344). S. W. Harbor (Mrs. Palmer).  
 S. ARCTICA Bd. (2351). Common, July 8–Sept. 10. The larva  
     is one of the destructive cutworms.  
 S. ALIA Guen. (2353). Eden, Aug. 9.

- S. ALIA* form *RORULENTA* Sm. (2353). Bar Harbor, July 21 (Br.).
- S. INORDINATA* Morr. (2355). Corfield and Penikese at light, June 23–Aug. 5.
- S. IMPULSA* Gn. (2362). Bar Harbor, July 18 (Br.).
- S. INDOCILIS* Wlk. (2364). Bar Harbor, Aug. 2 (Br.).
- S. FINITIMA* Gn. (2365). Corfield at light, July 1–22.

AGROPERINA Hampson

- A. LATERITIA* Hufn. (2366). Corfield, July 13; Bar Harbor, June 30–July 6 (Br.). General but scarce.
- A. DUBITANS* Walk. (2368). S. W. Harbor; Eden; N. E. Harbor, July 10–Sept. 4.
- A. DUBITANS COGITATA* Sm. (2368a). S. W. Harbor; Eden; N. E. Harbor, July 10–Sept. 4.

CRYMODES Guenée

- C. DEVASTATOR* Brace (2375). The Glassy Cutworm. Common, July 20–Aug. 15. The larva is one of the destructive cut-worms.

LUPERINA Boisduval

- L. STIPATA* Morr. (2387). N. E. Harbor (Minot); Bar Harbor (Br.); Penikese at light, July 31–Sept. 12.

OLIGIA Hübner

- O. MODICA* Guen. (2412). Eden; N. E. Harbor, Aug. 7–30.
- O. BRIDGHAMI* G. & R. (2420). N. E. Harbor; Penikese at light, Aug. 3–17.
- O. MINUSCULA* Morr. (2421). Bar Harbor, July 9–Aug. 23 (Br.). Rare.
- O. DIVERSICOLOR* Morr. (2422). Bar Harbor (Br.); Penikese at light, Aug. 23–Sept. 15.
- O. ILLOCATA* Walk. (2423). N. E. Harbor (Minot); Bar Harbor (Br.), Sept. 12–27.
- O. MACTATA* Guen. (2424). N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 24–Sept. 6.
- O. FRACTILINEA* Grt. form *VULGIVAGA* Morr. (2426). Bar Harbor, Aug. 3–18 (Br.).

## EREMOBINA McDunnough

*E. CLAUDENS* Wlk. (2430). Bar Harbor, Aug. 24–Sept. 2 (Br.).

## ARCHANARA Walker

*A. OBLONGA* Grt. (2439). Bar Harbor, Sept. 17 (Br.).

## HYPOCOENA Hampson

*H. INQUINATA* Guen. (2448). Eden, early Aug.

## IPIMORPHA Hübner

*I. PLEONECTUSA* Grt. (2453). Penikese; Bar Harbor (Br.), Aug. 3–26.

## HELIOTROPHA Lederer

*H. RENIFORMIS* Grt. (2457). Bar Harbor, Aug. 16 (Br.). This is the typical or light form. The dark form is *atra*.

*H. RENIFORMIS* form *ATRA* Grt. (2457). Bar Harbor, Aug. 16–Sept. 10 (Br.).

## APAMEA Ochsenheimer

*A. VELATA* Walk. (2458). N. E. Harbor, July 22 (Minot); Bar Harbor, July 17 (Br.).

*A. AMERICANA* Speyer (2459). Common, Aug. 15–Sept. 15. The larva bores into various grasses.

*A. INTEROCEANICA* Sm. (2460). Bar Harbor, Aug. 24–Sept. 23 (Br.).

## HYDROECIA Guenée

*H. IMMANIS* Guen. (2473). The larvae lives in the shoots and stems of hops and the adults appear in Aug., Penikese.

*H. MICACEA* Esp. (2474). Bar Harbor (Br.). Penikese at light, Aug. 13–Sept. 6.

## PAPAIPEMA Smith

*P. INQUAESITA* G. & R. (2481). Bar Harbor, Sept. 14 (Br.).

*P. MARGINIDENS* Gn. (2484). Bar Harbor (Br.); Penikese at light, Sept. 3–23.

- P. LYSIMACHIAE Bird. (2508). Mt. Desert, Sept. 9–17 (Br.).  
 P. PTERISII Bird. (2509). Corfield and Penikese at light, Sept. 1–Oct. 12.  
 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.

## PHLOGOPHORA Treitschke

- P. IRIS Gu. (2535). Corfield and Penikese at light, May 31–June 27. Not a common moth.  
 P. PERICULOSA Gn. (2536). N. E. Harbor, Aug. 13–19 (Minot); Corfield and Penikese at light, Aug. 9–13.  
 P. PERICULOSA form v-BRUNNEUM Grt. (2536). N. E. Harbor; Eden; Corfield at light, Aug. 1–19.

## CONSERVULA Grote

- C. ANODONTA Gn. (2537). Bar Harbor, July 16 (Br.).

## EUHERRICHIA Grote

- E. MONETIFERA Guen. (2540). S. W. Harbor; Eden, June 21–Aug. 9; Corfield at light, July 13–Aug. 3.

## MACRONOCTUA Grote

- M. ONUSTA Grt. (2546). The Iris Borer. Bar Harbor (Br.); Penikese at light, Sept. 18–Oct. 9.

## CHYTONIX Grote

- C. PALLIATRICULA Gn. (2554). The Cloaked Marvel. Bar Harbor, July 2 (Br.). Favors oak.  
 C. PALLIATRICULA Guen. form IASPIS Guen. (2554). N. E. Harbor, July 12 (Minot).

## LEUCONYCTA Hampson

- L. DIPHTEROIDES Guen. (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

- A. FALLAX H.-Sch. (2578). S. W. Harbor; N. E. Harbor (Minot), July 15–30; Corfield and Penikese at light, July 23–25. The larva feeds on poplar and *Viburnum*.

## AMPHIPYRA Oehsenheimer

- A. PYRAMIDOIDES Guen. (2584). The Copper Underwing. Corfield at light, Aug. 25–Oct. 11. The larva feeds on wild cherry, apple, poplar, etc.
- A. TRAGOPOGINIS Linn. (2585). Bar Harbor (Br.); N. E. Harbor (Minot), Aug. 8–21.

## DIPTERYGIA Stephens

- D. SCABRIUSCULA Linn. (2587). Penikese at light, July 20.

## DELTA Saalm

- D. RAMOSULA Guen. (2589). Corfield, June 14; N. E. Harbor; Bar Harbor (Br.), June 14–Sept. 22.

## 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.
- E. FESTIVOIDES Guen. (2647). N. E. Harbor; June 29; Bar Harbor (Br.), June 27-July 6.

## PLATYPERIGEA Smith

- P. MULTIFERA Walk. (2655). N. E. Harbor, Aug. 18-Sept. 5  
(Minot); Bar Harbor, Aug. 23 (Br.). Penikese at light,  
Aug. 27.

## 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

- B. MALANA Fitch. (2669). Bar Harbor, June 22-Aug. 9. The larva feeds on apple.

- B. LABECULA Grt. (2671). Penikese and Corfield at light, July 7-9.

## PRODENIA Guenée

- P. ORNITHOGALLI Gn. (2678). The Cotton Cutworm. Bar Harbor, Aug. 6-23 (Br.).

- 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.

- L. FRUGIPERDA S & A form OBSCURA Riley (2682). Bar Harbor, Aug. 5-Sept. 6 (Br.).

## MAGUSA Walker

M. ORBIFERA Wlk. (2684). Bar Harbor, Aug. 6 (Br.).

## ENARGIA Hübner

E. DECOLOR Wlk. (2685). Bar Harbor, Sept. 11 (Br.).

## COSMIA Oehsenheimer

C. CANESCENS Behr (2687). Corfield and Penikese at light,  
Aug. 18-20.

C. CANESCENS form ORINELLA Straud. (2687). Bar Harbor,  
July 30 (Br.).

## AMOLITA Grote

A. FESSA Grt. (2694). Bar Harbor, July 10-19 (Br.).

## BELLURA Walker

B. GORTYNOIDES Wlk. (2708). Hulls Cove (Br.). Larva taken  
crawling over yellow water lily. Larva determined by S. E.  
Crumb.

## ACHATODES Guenée

A. ZEAE Harr. (2711). Bar Harbor, Aug. 10 (Br.). The larva  
is a stem feeder of elder *Sambucus* and cornstalks. Com-  
mon south but scarce here.

## PYRRHIA Hübner

P. UMBRA Hufn. form EXPRIMENS Wlk. (2715a). Bred from  
rosebud, June 17-21 (Br.). Corfield at light, July 7.

## EUTRICOPIS Morrison

E. NEXILIS Morr. (2871). Bar Harbor, May 18 (Br.).

## HELIOTIUS Oehsenheimer

H. OBSOLETA Fab. (2932). The Corn Ear-worm. Mt. Desert,  
Aug. 28 (Br.). Penikese at light, Aug.

H. OBSOLETA form UMBROSA Grt. (2932). Bar Harbor, Sept. 23  
(Br.).

## RHODOPHORA Guenée

R. FLORIDA Guen. (2941). Primrose Moth. Eden, July 17. The larva feeds on the buds and seed capsules of the evening primrose.

## SCHINIA Hübner

S. NUNDINA Dru. (2990). Bar Harbor, Aug. 1 (Br.). A strikingly marked species.

S. ARCIGERA Gn. (3018). Bar Harbor, Sept. 2–25 (Br.).

## CRYPHIA Hübner

C. PERVERTENS B. & McD. ? (3099). Mt. Desert, July 19 (Br.).

## EXYRA Grote

E. ROLANDIANA Grt. (3106). Southwest Harbor, July 18 (Br.).

ERASTRIA Oehsenheimer (*Lithacodia* Grt.)

E. BELLICULA Hbn. (3117). Station F204, July 2.

E. MUSCOSULA Gn. (3118). Salisbury Cove; N. E. Harbor, Aug. 7–15. Bar Harbor (Br.), Aug. 6–15.

E. ALBIDULA Guen. (3119). S. W. Harbor; Eden, June 21–Aug. 7.

E. CONCINNIMACULA Guen. (3122). N. E. Harbor (Minot); Corfield at light; Bar Harbor (Br.), June 10–Sept. 5.

E. CARNEOLA Guen. (3124). Bar Harbor; Eden, June 11–Aug. 7.

## NEOERASTIA McDunnough

N. APICOSA Haw. (3126). N. E. Harbor, July 24 (Minot).

## CAPIS Grote

C. CURVATA Grt. (3129). Bar Harbor (Br.); Corfield at light, July 6–20.

## TARACHIDIA Hampson

T. CANDEFACTA Hbn. (3176). Mt. Desert, July 20–Aug. 24 (Br.).

## MARATHYSSA WALKER

*M. INFICITA* Walk. (3223). N. E. Harbor, July 13 (Minot).  
Bar Harbor, July 11–Sept. 8 (Br.).

## CHARACOMA Walker

*C. NILOTICA* Rog. (3234). Bar Harbor, June 30–Sept. 5 (Br.).

## SARROTHRIPIUS Curtis

*S. REVAYANA* Scop. (3235). Corfield, July 20. Scarce.

## BAILEYA Grote

*B. OPHTHALMICA* Gn. (3239). Corfield at light, June 27. Scarce.

## AUTOGRAPHA Hübner

- A. MONTANA Hbn. (3246a). Bar Harbor, July 4 (Br.). A very rare form with few specimens in collections.
- A. FALCIFERA Kby. (3252). The Celery Looper. Penikese at light, May 25.
- A. FALCIFERA Kby. form SIMPLEX Guen. (3252). The Celery Looper. Eden; Narrows, Bar Harbor, Penikese at light, July 30. Witch Hole Pond, July 30–Sept. 20.
- 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.
- A. U-AUREUM Guen. (*vaccinii* H. Edw.) (3258a). N. E. Harbor (Minot); Penikese, July 18; Bar Harbor, July 19 (Br.).
- A. OCTOSCRIPTA Grt. (3260). S. W. Harbor, July 29; Bar Harbor (Br.); Corfield at light, July 29–Aug. 6.
- A. EPIGAEA Grt. (3264). Corfield at light, July 13; Bar Harbor, July 18 (Br.).
- A. AMPLA Walk. (3265). Echo Lake; N. E. Harbor (Minot), July 17–Aug. 11; Penikese at light, June 30–July 3.
- A. SELECTA Walk. (3266). N. E. Harbor, Aug. 29 (Minot); Bar Harbor, July 27 (Br.). Scarce.

- A. BRASSICAE Riley (3269). Bar Harbor, July 21–Aug. 8 (Br.).  
 A. PUTNAMI Grt. (3273). Narrows; Bar Harbor (Br.), June 9–Sept. 21.  
 A. CONTEXTA Grt. (3275). S. W. Harbor, July 10–15.  
 A. OXYGRAMMA Geyer (3277). Bar Harbor, Sept. 19 (Br.).  
 A. BILOBA Steph. (3279). Bar Harbor (Br.), Corfield at light, July 28–30.  
 A. oo Cram. (3280). Bar Harbor, Oct. 9 (Br.).  
 A. PRECATIONIS Guen. (3281). N. E. Harbor, Aug. 13–24 (Minot); Corfield at light, June 6–Aug. 4. A general feeder on weeds.  
 A. BIMACULATA Steph. (3285). N. E. Harbor, July 31–Aug. 11 (Minot).  
 A. MAPPA Grt. & Rob. (3286). N. E. Harbor, Aug. 24 (Minot); Bar Harbor, July 19 (Br.).  
 A. FLAGELLUM Wlk. (3291). Bar Harbor, July 18 (Br.). A northern form from the Canadian northwest and rare in collections.

## PLUSIA Oehsenheimer

- P. AEREOIDES Grt. (3295). N. E. Harbor; Penikese, July 7–Sept. 4. The larva feeds on *Spirea*.  
 P. BALLUCA Geyer. (3297). N. E. Harbor, July 26–31 (Minot); Penikese at light, July 19–31.

## EOSPHOROPTERYX Dyar

- E. THYATIROIDES Guen. (3300). N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 14.

## PALEOPLUSIA Hampson

- P. VENUSTA Wlk. (3304). Corfield at light, July 20.

## CHRYSANYMPHA Grote

- C. FORMOSA Grt. (3305). N. E. Harbor, July 31 (Minot); Bar Harbor, July 7–14 (Br.). Rare.

## CATOCALA Sehrank

- C. ANTINYMPHA Hbn. (3316). N. E. Harbor (Minot); Penikese at light; Section 30 sugaring, July 19–Sept. 10.
- C. COELEBS Grt. (3317). Bar Harbor (Br.); Section 20, sugaring, Aug. 1–10.
- C. COELEBS form PHOEBE Hy. Edw. (3317). Bar Harbor, Aug. 10 (Br.).
- C. SUBNATA Grt. (3338). Bar Harbor, Aug. 10 (Br.).
- C. ILIA Cram. (3342). Witch Hole and Corfield sugaring, Aug. 6–10.
- C. ILIA form CONSPICUA Worth (3342). Bar Harbor (Br.).
- C. ILIA form NORMANI Bartsch (3342). Bred in July (Br.).
- C. CEROGAMA Guen. (3343). N. E. Harbor, Aug. 15.
- C. RELICTA Walk. (3344). Witch Hole Pond sugaring, Aug. 5. 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 Walk. (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. BRISEIS Edw. (3357). Bar Harbor, Aug. 4 (Br.).
- C. SEMIRELICTA Grt. (3361). Bar Harbor, Aug. 19 (Br.).
- C. CONCUMBENS Walk. (3373). Penikese at light and Section 30 sugaring, Aug. 1–21.
- 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.
- C. CRATAEGI Saund. (3396). Penikese at light, Aug. 9.

- C. PRAECLARA Grt. & Rob. (3399). N. E. Harbor, Sept. 6.  
 C. BLANDULA Hlst. (3401). Bar Harbor (Br.), Penikese at light, Aug. 4-9.  
 C. AMICA race LINEELLA Grt. (3412a). Bar Harbor, Aug. 18 (Br.).

## EUPARTHENOS Grote

- E. NUBILIS Hbn. (3414). Bar Harbor; Penikese, June 11-July 25. The larva feeds on locust.  
 E. NUBILIS form FASCIATA Beut. (3414). Bar Harbor, June 20 (Br.). Penikese at light; Bar Harbor (Br.), June 20-July 7.

## PARALLELIA Hübner

- P. BISTRARIIS Hbn. (3422). N. E. Harbor; Green Mt.; Corfield; Penikese, June 3-Aug. 8. The larva feeds on maple.

## EUCLIDINA McDunnough

- E. CUSPIDEA Hbn. (3426). Penikese in June.

## CAENURGINA McDunnough

- C. CRASSIUSCULA Haw. (3430). Common, July-Aug. The larva feeds on grasses.  
 C. ERECHTEA Cram. ? (3431). July-Aug. The larva feeds on grasses, clover, etc.

## DORYODES Guenée

- D. BISTRALIS Geyer (3460). Penikese at light, July 19.

## ZALE Hübner

- Z. LUNATA Dru. (3474). Bar Harbor, Oct. 7 (Br.).  
 Z. AERUGINOSA Gn. (3480). Corfield at light, June 22.  
 Z. MINEREA form NORDA Sm. (3484a). Penikese and Corfield at light, May 30.  
 Z. DUPLICATA Beth. (3490). Penikese at light; Bar Harbor (Br.), May 18-25.  
 Z. HORRIDA Hbn. (3501). Sparingly at light in June.

## 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

*S. ADUMBRATA* Behr. (3578). Mt. Desert, July 8 (Br.).

*S. ADUMBRATA ALLENI* Grt. (3578b). Bar Harbor, June 23 (Br.).

## ANTICARSIA Hübner

*A. GEMMATILIS* Hbn. (3590). Velvet Bean Caterpillar. Bar Harbor, June 16 (Br.).

## CALPE Treitschke

*C. CANADENSIS* Bethune (3608). Bar Harbor (Br.); Corfield at light, July 6-20. A northern form.

## SCOLIOPTERYX Germar

*S. LIBATRIX* Linn. (3615). Bar Harbor (Br.). Penikese at light, April 29-June 22. The larva feeds on willow and poplar. A very widely distributed insect.

## ALABAMA Grote

*A. ARGILLACEA* Hbn. (3616). The Cotton-worm Moth. Ranges from Argentina to Canada and sometimes migrates in swarms. Common in September.

## PANGRAPTA Hübner

*P. DECORALIS* Hbn. (3650). Common, June 18-Aug. 7. The larvae of this small moth feeds on blueberry, etc.

## METALECTRA Hübner

- M. DISCALIS* Grt. (3651). Bar Harbor, July 10 (Br.).  
*M. QUADRISIGNATA* Walk. (3652). N. E. Harbor, July 10–Aug. 24 (Minot).

## SPARGALOMA Grote

- S. SEXPUNCTATA* Grt. (3684). Bar Harbor, July 6 (Br.).

## BOMOLOCHA Hübner

- B. BALTIMORALIS* Guen. (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. DECEPTALIS* Walk. (3692). S. W. Harbor; Eden, July 28–Aug. 25.  
*B. TOREUTA* Grt. (3698). N. E. Harbor, June 26 (Minot).

## LOMANALTES Grote

- L. EDUCTALIS* Walk. (3703). N. E. Harbor (Minot); Bar Harbor (Br.); Corfield at light, May 30–July 11.

## PLATHYPENA Grote

- P. SCABRA* Fab. (3705). Bar Harbor, July 26. The larva feeds on clover, beans, and other legumes.

## HYPENA Schrank

- H. HUMULI* Harr. (3706). Penikese at light, Aug. 10–27.

## DYSPTYRALIS 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

R. PROPINQUALIS Guen. (3732). N. E. Harbor; Bar Harbor; Penikese, July 17–Aug. 7.

## CAMPYLOCHILA Stephens

- C. AMERICALIS Guen. (3734). N. E. Harbor; Eden; Paradise Hill at light, July 3–Aug. 25. The larva feeds on clover.
- 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. ROTUNDALIS Wlk. (3737). Mt. Desert, July 18–Aug. 10 (Br.).
- C. DIMINUENDIS B. & McD. (3740). Bar Harbor, Aug. 7 (Br.).
- C. LUBRICALIS Geyer. (3746). N. E. Harbor; Eden, July 14–Aug. 1. The larva feeds on grasses. Common.

## PHALAENOPHANA Grote

P. PYRAMUSALIS Walk. (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. INCONSPICUALIS Grt. (3755). Bar Harbor (Br.); Corfield at light, July 7–Aug. 18. Scarce.
- E. PEDIPILALIS Gn. (3759). Corfield at light, June 22.
- E. JACCHUSALIS Wlk. (3763). Mt. Desert, July 22 (Br.).
- E. OCHREIPENNIS 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 (Br.); Penikese at light, June 28–July 4.

## PHILOMETRA Grote

- P. METONALIS* Walk. (3770). Echo Lake; N. E. Harbor; Eden; Bar Harbor (Br.), July 4–Aug. 7.  
*P. HANHAMI* Sm. (3772). Bar Harbor, July 23 (Br.).

## HORMISA Walker

- H. ABSORPTALIS* Walk. (3773). N. E. Harbor; Salisbury Cove; Bar Harbor (Br.), July 13–23.  
*H. ORCIFERALIS* Wlk. (3776). Mt. Desert, July 11–23 (Br.). A southern species.

## RENTIA Guenée

- R. FACTIOSALIS* Wlk. (3783). Mt. Desert, Aug. 1 (Br.).  
*R. FLAVIPUNCTALIS* Geyer. (3789). Eden; Bar Harbor (Br.), July 25–Aug. 7.  
*R. SOBRIALIS* Walk. (3793). Bar Harbor, July 20–Aug. 8 (Br.).

## BLEPTINA Guenée

- B. CARADRINALIS* Guen. (3797). Eden; Bar Harbor (Br.), July 10–18.

## PALTHIS Hübner

- P. ANGULALIS* Hbn. (3807). Bar Harbor; Echo Lake; Corfield at light; Bar Harbor (Br.), June 10–July 12.

## NOTODONTIDAE

## ICHTHYURA Hübner

- I. APICALIS* Wlk. (3822). Corfield and Penikese at light, June 22–July 11.  
*I. STRIGOSA* Grt. (3826). Bar Harbor, June 16–July 2 (Br.).  
*I. ALBOSIGMA* Fitch. (3827). Bar Harbor (Br.). Penikese at light, May 23–25.

## DATANA Walker

- D. MINISTRA* Dru. (3829). Yellow-necked apple-worm. The larvae are gregarious and appear in Aug.

## HYPERAESCHRA Butler

*H. STRAGULA* Grt. (3843). Bar Harbor, July 22 (Br.). Rare.

## ODONTOSIA Hübner

*O. ELEGANS* Strk. (3847). Mt. Desert, July 6 (Br.). Rare.

## NOTODONTA Ochsenheimer

*N. BASITRIENS* Wlk. (3849). Bar Harbor, July 7 (Br.).

*N. SIMPLARIA* Graef. (3850). Bar Harbor, July 29 (Br.).

## PHEOSIA Hübner

*P. RIMOSA* Pack. (3851). Bar Harbor; N. E. Harbor (Minot); Corfield and Penikese at light, July 10–Aug. 23. The larva feeds on poplar.

## LOPHODONTA Packard

*L. FERRUGINEA* Pack. (3853). N. E. Harbor (Minot); Penikese at light, July 10–19. The larva feeds on oak, maple, linden, etc.

*L. ANGULOSA* Abb. & Sm. (3854). Penikese at light, June 23–July 19. The larva feeds on oak.

## NADATA Walker

*N. GIBBOSA* A & S (3857). Corfield and Penikese at light, June 21–July 7. A variable and widely described species which has tempted varietal descriptions.

## SYMMERISTA N. &amp; D.

*S. ALBIFRONS* Abb. & Sm. (3859). N. E. Harbor (Minot); Penikese at light, June 28–July 20. The larva feeds on oak, maple, etc.

## DASYLOPHIA Packard

*D. ANGUINA* A. & S. (3880). Penikese at light, July 15. The larva feeds on locust.

*D. THYATIROIDES* Wlk. (3881). Bar Harbor, July 12 (Br.).

## HETEROCAMPA Doubleday

- H. UMBRATA Wlk. (3902). Mt. Desert, July 4 (Br.). Rare.  
H. BIUNDATA Wlk. (3906). Penikese at light; Bar Harbor (Br.). July 2–Aug. 2.  
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

- F. MARTHESIA Cramer (3910). Penikese at light, June 21–Aug. 13. Not common.

## DICENTRIA H. S.

- D. LIGNICOLOR Wlk. (3912). Bar Harbor (Br.); Penikese at light, July 17–19.

## SCHIZURA Doubleday

- S. SEMIRUFESCENS Wlk. (3919). Bar Harbor (Br.); Penikese at light, July 12–22.  
S. IPOMOAE form CINEREOFRONS Pack. (3920). Bar Harbor, July 12 (Br.).  
S. IPOMOAE Doubl. (3920). Bar Harbor (Br.); Penikese at light, Aug. 5–8.  
S. CONCINNA A. & S. (3921). The Red-humped Apple-worm. Bred July (Br.). The larva feeds upon Rosaceae.  
S. BADIA Pck. (3923). Mt. Desert, July 19–Aug. 1. The larva feeds upon Viburnum.  
S. UNICORNIS A. & S. (3924). N. E. Harbor (Minot); Bar Harbor (Br.), July 14–Aug. 11. The larva feeds on orchards, shade trees, and Rosaceae.  
S. APICALIS G. & R. (3926). Bar Harbor, July 12 (Br.).

## CERURA Schrank

- C. BOREALIS Bdv. (3933). Bar Harbor, Sept. The larva feeds on willow.
- C. OCCIDENTALIS Lind. (3934). Bar Harbor (Br.); Penikese at light, July 10-12.
- C. CINEREA Wlk. (3935). Bar Harbor, July 2 (Br.). Rare.
- C. MODESTA Hudson (3937). Bar Harbor, Aug. 5 (Br.). Rare.

## GLUPHISIA Boisduval

- G. SEPTENTRIONALIS Walk. (3939). N. E. Harbor (Minot); Bar Harbor (Br.); Penikese at light, June 23-Aug. 19. The larva feeds on willow, poplar and birch.
- G. LINTNERI form AVIMACULA Hudson (3940). Mt. Desert, May 18 (Br.).

## LIPARIDAE

## NOTOLOPHUS 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.

## HEMEROCAMPA Dyar

- H. LEUCOSTIGMA Abb. & Sm. (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

- O. ATOMARIA Wlk. (3958). Bar Harbor, July 18-Aug. 8 (Br.).
- O. ATOMARIA form PARALLELLA G & R (3958). Bar Harbor, July 14-30 (Br.).

## LIPARIS Oehsenheimer

*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.

## EUPROCTIS Hübner

*E. CHRYSORRHOEA* Linn. (3968). The Brown-tail Moth. Abundant during 1911-1914, but has now practically disappeared. One specimen was taken at Salisbury Cove, July 16, '23, and I have heard of an infestation in N. E. Harbor which Mr. Reginald Robbins stamped out. At light, Bar Harbor, July 24, '35. (Br.)

## LASIOCAMPIDAE

## TOLYPE Hübner

*T. VELLEDA* Stoll. (3978). A common form at light in September.

*T. LARICIS* Fitch. (3987). Penikese at light; Bar Harbor (Br.), July 19-Aug. 30. Not common.

## 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

## HABROSYNE Hübner

- H. SCRIPTA Gosse (4004). Witch Hole Pond sugaring; Corfield at light, May 30-Aug. 6. Scarce.

## PSEUDOTHYATIRA Grote

- P. CYMATOPHOROIDES Gn. (4007). Bar Harbor, July 17-Aug 4 (Br.). The larva feeds on birch, maple and oak.
- 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 Walk. (4019). N. E. Harbor (Minot); Corfield at light, July 10-Sept. 5. The larva feeds on *Viburnum*.
- O. ROSEA form IRRORATA Pack. (4019). N. E. Harbor, July 10; Bar Harbor (Burton).

## DREPANA Schrank

- D. ARCUATA Walk. (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.
- D. BILINEATA Pack. (4021). N. E. Harbor (Minot); Corfield and Penikese at light, May 28–July 19. The larva feeds on birch.

## GEOMETRIDAE

## BREPHOS Zinek

- 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 Hbn.

- 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 Gn. (4048). Penikese at light; Bar Harbor, June 7–19 (Br.).
- N. RUBRIFRONTARIA Pack. (4049). Bar Harbor; Penikese at light, June 18–25.

## SYNCHLORA Guenée

- S. AERATA Fab. (4070). Near Bar Harbor (Burton); Bar Harbor (Br.), July 1–4. The larva feeds on blackberry and raspberry.
- S. RUBRIFRONTARIA Pek. (4074). Bar Harbor, June 30–July 7 (Br.).

## CHLORISSA Stephens

- C. SUBCROCEATA Wlk. (4088). Rhodora Meadow, June 6 (Br.). Rare.

## MESOTHEA Warren

M. INCERTATA Wlk. (4089). Mt. Desert, May 5–20 (Br.).

Blueberry is one of the food plants.

## CHLOROCHLAMYS Hulst

C. CHLOROLEUCARIA Gn. (4095). Bar Harbor, May 16–Aug. 4 (Br.).

## SCOPULA Schrank

S. CACUMINARIA Morr. (4140). Bar Harbor, July 7, 1936 (Br.).

Was *purata* but this is not the Guenée *purata*, but is the old one. A rare form anywhere.

S. QUADRILINEATA Pack. (4143). Bar Harbor, June 22–July 3 (Br.).

S. ENUCLEATA Guen. (4149). Bar Harbor (Br.); Penikese at light, July 10–Aug. 15. The larva feeds on blueberry, *Rhexia* and *Galium*.

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.).

S. INDUCTATA Guen. (4158). Penikese from first week in July to last of Aug. Corfield, July 25.

## STERRHA Hübner

S. ROTUNDOPENNATA Pek. (4195). Bar Harbor, June 23–28 (Br.). Rare.

## HAEMATOPIS Hübner

H. GRATARIA Fab. (4204). Bar Harbor, Aug. 10 (Br.). The larva feeds on chickweed.

## PLEUROPRUCHA Moesch

P. INSULARIA Guen. (4206). N. E. Harbor, July 20–30 (Minot). The larva feeds on oak, *Galium*, etc.

## COSYMBIA Hübner

- C. MYRTARIA Gn.? (4209). Record of capture lost.
- C. PENDULINARIA Gn. (4211). General and quite common during Aug. The larva feeds upon birch, *Vaccinium* and *Comptonia*.
- C. PENDULINARIA form NIGRICARIA Rothke (4211). Bar Harbor, June 6 (Br.).

## ACASIS Dupouchel

- A. VIRIDATA Pack. (4221). S. W. Harbor, June 24; Corfield at light, May 30.

## NYCTOBIA Hulst

- N. LIMITARIA Wlk.? (4223). Bar Harbor, May 11 (Br.).
- N. ANGUILINEATA G. & R. (4223.1). Bar Harbor (Br.); Corfield at light, May 11-30.
- N. sp. Bar Harbor, May 1 (Br.).

## 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

- L. NIVIGERATA Walk. (4226). N. E. Harbor (Minot); Bar Harbor (Br.), July 19-Aug. 15.

## NEODEZIA Warren

- N. ALBOVITTATA Gn. (4235). N. E. Harbor; Long Pond, June 15-27.

## OPOROPHTERA Hübner

- O. BRUCEATA Hlst. (4239). Bar Harbor, Nov. 1 (Br.).

## OPORINIA Hübner

- O. HENSHAWI Swett (4243a). Corfield at light; Pretty Marsh, flying in woods, Oct. 3-11.

## TRIOPHOSA Stephens

T. AFFIRMARIA Wlk. (4244a). Bar Harbor, May 11-Oct. 10 (Br.).

## 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 3-23 (Br.). Pupae under spruce, Bar Harbor, Nov. 11 (Br.).
- E. COLORADENSIS Hlst. (4272). Corfield at light; Bar Harbor (Br.), May 31-June 30.
- E. FLETCHERATA Tayl. (4280). Bar Harbor, Aug. 17 (Br.).
- E. PALPATA Pack. (4287). Bar Harbor, July 1 (Br.).
- E. ERPATA Pears.? det. McD. (4288a). Bar Harbor, May 19 (Br.).
- E. SATYRATA Hbn.? (4319). Bar Harbor, June 11 (Br.).
- E. TAYLORATA Swett. (4320). N. E. Harbor; Eden, June 29-Aug. 1.
- E. CHAGNONI Swett (4322). Bar Harbor, June 26 (Br.).
- E. RUSSELLIATA Swett.? (det. McDunnough) (4323). N. E. Harbor (Minot); Bar Harbor (Br.), June 22-Aug. 1.
- E. STRATTONATA Pack. (4324). S. W. Harbor, July 21.
- 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.
- E. GELIDATA Moesch. (4333). Bar Harbor, Aug. 8 (Br.).
- E. WINNATA Tyl.? (det. McD.) (4336a). Corfield at light, July 10.
- E. SOBRINATA Hbn. (4342). Bar Harbor, Aug. 30-Sept. 19 (Br.).
- E. INTERRUPTOFASCIATA Pack. (4342a). N. E. Harbor; S. W. Harbor; Eden, July 8-Sept. 24. The larva feeds on juniper.

- E. FILMATA Pears. (4348). Bar Harbor, Apr. 26 (Br.).  
 E. RAVOCOSTALIATA Pack. (4383). Bar Harbor, Apr. 28–May 10 (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

- H. INTESTINATA Guen. (4393). N. E. Harbor; Eden; Bar Harbor (Br.), July 27–Sept. 5.

## LYGRIS Hübner

- L. DIVERSILINEATA Hbn. (4401). Bar Harbor; Eden, Aug. 10–Sept. 9. The larva feeds on *Ampelopsis*.  
 L. DIVERSILINIATA 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.  
 L. DESTINATA Moesch. (4405). Penikese, July 20–30.  
 L. EXPLANATA Walk. (4406). N. E. Harbor; Eden; Station F66; Corfield at light, Aug. 15–20.  
 L. EXPLANATA form CUNGERATA Walk. (4406). N. E. Harbor, July 31–Aug. 16 (Minot).  
 L. XYLINA Hulst. (4407). Mt. Desert, July 24–Aug. 3 (Br.).

## DIACTINIA Warren

- D. ALBOLINEATA Pck. (4410a). Bar Harbor (Br.); N. E. Harbor, Aug. 2–21.

## PLEMYRIA Hübner

- P. GEORGII Hulst. (4412). N. E. Harbor (Minot); Penikese at light; Bar Harbor (Br.), Aug. 6–26.

## DYSSTROMA Hübner

- D. TRUNCATA Hufn. (4413). N. E. Harbor; S. W. Harbor; Eden, July 20–Sept. 8; Bar Harbor, Aug. 23–31 (Br.). The larva feeds on strawberry.
- D. CITRATA Linn. (4416). Beech Hill, flying, Sept. 15.
- D. HERCILIATA Guen. (4420). Bar Harbor, July 9 (Br.).

## THERA Stephens

- T. CONTRACTATA Pack. (4431). N. E. Harbor (Minot), Sept.

## HYDRIOMENA Hübner

- H. PLUVIATA Guen. (4477). Bar Harbor, June 13.
- H. PERFRACTA Swett. (4478). Record of capture lost.
- H. RENUNCIATA Wlk. (4485). Penikese and Corfield at light, May 30–June 23.
- H. COERULATA Fab. (4485). N. E. Harbor; S. W. Harbor; Echo Lake, July 6–17. The larva feeds on alder.
- H. RUBERATA Freyer (4492). Bar Harbor, May 18 (Br.).

## XANTHORHOE Hübner

- X. LACISTRATA Guen. (4509). N. E. Harbor; Bar Harbor (Br.), April 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 *Cucurbitaceae*, wild and cultivated.
- X. FERRUGATA Clerk. (4516). N. E. Harbor; S. W. Harbor; Corfield, July 15–24. The larva feeds on *Polygonum*.
- X. FERRUGATA form UNIDENTARIA Haw. (4516). N. E. Harbor (Minot); Penikese, July 20–Aug. 10.
- X. IDUATA Guen. (4527). S. W. Harbor, July 10–15. Bar Harbor (Br.), July 10–27.
- X. ABRASARIA CONGREGATA Wlk. (4530a). Bar Harbor, June 29 (Br.).

## PERCNOPTILOTA Hulst

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

E. AURATA Pack. (4540). N. E. Harbor, July 25–Aug. 25. Scarce.

## MESOLEUCA Hübner

M. RUFICILLATA Guen. (4546). N. E. Harbor (Minot); Bar Harbor (Br.), June 7–Aug. 9. The larva feeds on birch.

## SPARGANIA Guenée

S. MAGNOLIATA Guen. (4555). Bar Harbor; and also (Br.) Aug. 2–16.

S. LUCTUATA OBDUCTATA Moesch. (4556a). S. W. Harbor, July 16.

## 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.

E. CENTROSTRIGARIA Woll. (4559). Bar Harbor, July 25–Oct. 21 (Br.).

E. MULTIFERATA Walk. (4561). N. E. Harbor, June 29–Aug. 5 (Minot). The larva feeds on *Polygonum* and *Epilobium*.

## CAMPYLOGRAMMA Stephens

C. STELLATA Guen. (4572). Bar Harbor, Sept. 8 (Br.). Occurred only in the year taken.

## EULYPE Hübner

- E. HASTATA Linn. (4573). Echo Lake; Corfield at light, June 15–20. S. W. Harbor bog, June 5 (Br.).
- E. HASTATA Linn. var. (4573). S. W. Harbor, June 5 (Br.).
- E. HASTATA GOTHICATA Guen. (4573a). Common; unusually abundant in 1923. June 13–July 20. The larva feeds on birch, willow, blueberry, etc.

## PERIZOMA Hübner

- P. BASALIATA Wlk. (4575). Tremont and Bar Harbor, July 25–Aug. 17 (Br.).

## EAROPHILA Gumpb.

- E. VASILIATA Gn. (4587). Bar Harbor (Br.) ; Corfield at light, May 13–June 15.

## VENUSIA Curtis

- V. CAMBRICA Curt. (4589). N. E. Harbor; S. W. Harbor; Eden, June 22–Aug. 24. The larva feeds on mountain ash (*Pyrus americana*).

- V. COMPTARIA Wlk. (4592). Bar Harbor, May 2 (Br.).

## HYDRELIA Hübner

- H. INORNATA Hlst. (4596). Bar Harbor, July 24 (Br.).

## EUDULE Hübner

- E. MENDICA Wlk. (4599). Common, June 21–July 26. The larva feeds on violets.

## BAPTA Stephens

- B. SEMICLARATA Walk. (4605). S. W. Harbor, June 25; Bar Harbor, June 6 (Br.).
- B. VESTALIATA Guen. (4606). Jordan Pond; Corfield and Penikese at light, May 27; N. E. Harbor, June 10–July 8. The larva feeds on apple, oak, etc.
- B. GLOMERARIA Grt. (4608). Bar Harbor, June 22 (Br.).

## DEILINIA Hübner

- D. VARIOLARIA Guen. (4612). N. E. Harbor; Eden; Bar Harbor (Br.), July 15–22. The larva feeds on willow.
- D. ERYTHREMARIA Scop. (4614). N. E. Harbor (Minot); Bar Harbor, July 10–29 (Br.).

## ISTURGIA Hübner

- I. TRUNCATARIA Wlk. (4658). Mt. Desert, May 18–23 (Br.).

## PHYSOSTEGANIA Warren

- P. PUSTULARIA Guen. (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).

## SEMIOTHISA Hübner

- S. MINORATA Pck. (4670). Corfield at light, July 6.
- S. BISIGNATA Wlk. (4671). Station F192; Corfield at light; Bar Harbor (Br.), June 7–July 17.
- S. GRANITATA Gn. (4680). Bar Harbor (Br.); N. E. Harbor; Long Lond; Penikese and Corfield at light, June 9–Aug. 4.
- S. GRANITATA form DISPUNCTA Wlk. (4680c). Mt. Desert, July 20 (Br.).
- S. OWENI Swett. (4681). Bar Harbor (Br.); Corfield at light, June 22–July 6.
- S. SEXMACULATA Pack. (4687). Bar Harbor, 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 Wlk. (4712). Bar Harbor, July 17 (Br.).
- S. MELLISTRIGATA Grt. (4726). Corfield at light; Bar Harbor (Br.), June 15–Aug. 1.
- S. sp. Bar Harbor, June 29 and Aug. 15 (Br.).

## ITAME Hübner

- I. ARGILLACEARIA Pack. (4748). N. E. Harbor (Minot); Bar Harbor, June 24–July 28 (Br.).
- I. SULPHUREA Pck. (4751). Corfield at light; Mt. Desert, June 10–Aug. 19. Rare.
- I. FULVARIA Vill. (4752). S. W. Harbor; Witch Hole Pond; Section 28, June 25–July 14.
- I. ANATARIA Swett. (4759). N. E. Harbor; Corfield at light, July 13–Aug. 26.
- I. BITACTATA Wlk. (4771). Bar Harbor, July 18 (Br.).
- I. VIRGINIALIS Hlst. (4785). Bar Harbor, June 11–July 18 (Br.).

## HESPERUMIA Packard

- H. SULPHURARIA Pack. (4801). Penikese at light; Mt. Desert (Br.), July 29–Aug. 23 (rare).

## EMATURGA Lederer

- E. AMITARIA Guen. (4802). S. W. Harbor (Br.); Echo Lake, June 18–22. The larva feeds on bearberry (*Arctostaphylos Ura-ursi*).

## EUFIDONIA Packard

- E. NOTATARIA Walk. (4803). S. W. Harbor; Corfield, June 16–July 17. The larva feeds on larch, pine, etc. Common.
- E. DISCOSPILATA Wlk. (4804). Corfield at light; Bar Harbor (Br.), June 7–July 20.

## ORTHOFIDONIA Packard

- O. TINCTARIA Walk. (4805). N. E. Harbor (Minot); Bar Harbor (Br.), June 6–July 9.
- O. TINCTARIA FLAVIVENATA Hlst. (4805a). Bar Harbor, May 1–3 (Br.).

## PARAPHIA Guenée

- P. UNIPUNCTATA Haw? (4807). Corfield at light; Bar Harbor (Br.), May 30–July 17. Variable in color and markings.
- P. SUBATOMARIA Wood. (4809). Bar Harbor, July 6 (Br.). A variable form.

## MELANOLOPHIA Hulst

M. SIGNATARIA Wlk. (4857). Corfield at light; Bar Harbor (Br.), May 10-30.

## PROTOBOARMIA McDunnough

P. INDICATARIA Walk. (4875a). Corfield and Penikese at light, June 27-July 1. Common.

## 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 Gn. (4908). Penikese at light; Bar Harbor, June 30-July 16 (Br.).

## ANACAMPTODES McDunnough

A. LARVARIA Guen. (4912). N. E. Harbor, June 26-July 6 (Minot). The larva feeds on willow, wild cherry, etc.

A. EPHYRARIA Wlk. (4916). Bar Harbor, Aug. 19 (Br.).

A. HUMARIA Gn. (4917). Corfield at light, May 29-June 6.

A. VELIVOLATA Hlst. (4918). Bar Harbor, June 6 (Br.).

## AETHALURA McDunnough

A. ANTICARIA Wlk. (4945). S. W. Harbor; Bar Harbor (Br.), May 26-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 ABRAXIA Wlk. (4946). Bar Harbor, May 12 (Br.).

## NACOPHORA Hulst

N. QUERNARIA A & S (4953). Bar Harbor, June 9–July 6 (Br.).  
Rare.

## PHIGALIA Duponchel

P. TITEA Cram. (4958). The Half-winged Geometer. Mt. Desert, April 29 (Br.).

## ERANNIS Hübner

E. TILIARIA Harr. (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 Guen. (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 Hbn. (4995). N. E. Harbor, July 18–22 (Minot). The larva feeds on jewel weed (*Impatiens*).  
 E. OBTUSARIA var. (4995). Bar Harbor, July 25 (Br.).  
 E. EFFECTA Walk. (4996). N. E. Harbor (Minot); Penikese at light, June 21–July 21. Common. The larva feeds on rose.  
 E. EFFECTA Wlk. var. (4996). Paradise Hill at light, July 22.

- E. JOHNSONARIA Fitch. (4997). Eden, July 16; Corfield at light, June 17–July 16. The larva feeds on oak, cherry, etc.  
 E. ASTYLUSARIA Wlk. (5001). Penikese at light, June 22.  
 E. MARGINATA Minot (5002). Corfield at light; Bar Harbor (Br.), May 23–June 6.  
 E. IRRARIA B. & McD. (5006). Mt. Desert, July 1–17 (Br.).

## 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 Lamarek

- C. PERLATA Guen. (5015). Bar Harbor; Long Pond; N. E. Harbor; Corfield at light, June 16–Aug. 24.  
 C. PERLATA Guen. (5015). Bar Harbor, Aug. 26–Sept. 1 (Br.).  
 Small form.

## GUENERIA Packard

- G. BASIARIA Walk. (5016). Long Pond, July 16; Station F190, June 2.

## HOMOCHLODES Hulst

- H. FRITILLARIA Guen. (5022). S. W. Harbor; Bar Harbor (Br.); Corfield at light, May 11–July 15.

## APAECASIA Hulst

- A. DETERSATA Guen. (5023). Bar Harbor, June 8 (Br.). Section 28, June 25.  
 A. ATROPUNCTATA Pek. (5024). S. W. Harbor, June 5 (Br.).  
 A. SUBAEQUARIA Wlk. (5025). Station F191, June 6; Bar Harbor, May 17–25 (Br.). Frequents damp places.

## PRIOCYCLA Guenée

*P. ARMATARIA* H.-Sch. (5028). N. E. Harbor, July 4 (Minot).  
The larva feeds on currant, birch, maple, etc.

## PLAGODIS Hübner

*P. SERINARIA* H.-Sch. (5030). Jordan Pond; Bar Harbor (Br.); Corfield at light, June 10–13.  
*P. KEUTZINGARIA* Pek. (5032). Bar Harbor, May 23–June 2 (Br.).  
*P. ALCOOLARIA* Gn. (5038). Penikese at light, May 27.  
*P. PHLOGOSARIA* Guen. (5040). Bar Harbor, Aug. 15 (Br.).

## ANAGOGA Hübner

*A. PULVERARIA* Linn. (5042). Bar Harbor (Br.); Jordan Pond; Long Pond; June 7–July 16. The larva feeds on maple, willow, birch, etc.

## 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. S. (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.

## METARRANTHIS Warren

*M. HYPOCHRARIA* H.-Sch. (5046). Corfield at light; Bar Harbor (Br.), June 13–22. The larva feeds on apple, etc. Quite variable in markings.  
*M. WARNERI* Harr. (5048). Corfield at light, June 15.

- M. DUARIA* Guen. (5050). N. E. Harbor; Corfield at light; Jordan Pond, June 10–26. The larva feeds on oak.
- M. DUARIA form HAMARIA* Guen. (5050). Bar Harbor, June 13 (Br.).
- M. OBFIRMARIA* Hbn. (5052). Bar Harbor, June 4 (Br.).

*METANEMA* Guenée

- M. INATOMARIA* Guen. (5054). Bar Harbor; Corfield at light, June 17–July 21. The larva feeds on poplar.
- M. DETERMINATA* Walk. (5055). N. E. Harbor, July 25–Aug. 25 (Minot).

*SELENIA* Hübner

- S. ALCIPHEARIA* Wlk. (5057). Bar Harbor, May 18 (Br.). Very scarce.

*ENNOMOS* Treitschke

- E. SUBSIGNARIUS* Hbn. (5059). July 10 (Br.). Scarce here but not south.

*PERO* Herrich-Schaeffer

- P. HONESTARIUS* Walk. (5072). S. W. Harbor; Penikese at light, May 25–July 15. The larva feeds on maple.
- P. MORRISONARIUS* Hy. Edw. (5080). S. W. Harbor; N. E. Harbor, July 15–Aug. 20.
- P. MARMORATUS* Grossb. (5082). A female at light, Penikese, June 30.
- P. sp.* Penikese, June 15 and Corfield, June 29.

*NEPYTIA* Hulst

- N. CANOSARIA* Walk. (5109). N. E. Harbor; Echo Lake; Corfield and Penikese at light, Aug. 16–Sept. 11. The larva feeds on pine, spruce and larch.
- N. CANOSARIA form PINIARIA* Pek. (5109). Bar Harbor, Aug. 26–Sept. 22 (Br.).

## CARIPETA Walker

- C. DIVISATA Walk. (5125). Corfield at light; N. E. Harbor; Eden, June 24–Aug. 23. The larva feeds on hemlock.
- C. PINIATA Pack. (5126). Salisbury Cove, July 18.
- C. ANGUSTIORATA Walk. (5128). Bar Harbor, Aug. 12; Corfield at light, July 13. The larva feeds on white pine. Not common.

## ELLOPIA Treitschke

- E. ENDROPIARIA Grt. & Rob. (5144). N. E. Harbor; Bar Harbor (Br.), June 20–30. The larva feeds on oak, etc.
- E. FISCELLARIA Gn. (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.
- E. FISCELLARIA form JOHNSONI Swett. (5146). N. E. Harbor; S. W. Harbor; Bar Harbor, Sept. 8–29.
- E. FISCELLARIA form PECCATARIA Swett. (5146). Bar Harbor, Sept. 13.

## 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.
- C. CATENARIA RUBIFERARIA Swett (5152a). Bar Harbor (Br.); Witch Hole Pond, Sept. 20–24.

## SICYA Guenée

- S. MACULARIA Harr. (5161). Penikese and Corfield at light, July 28–Aug. 10. Very variable.
- S. MACULARIA form SOLFATARIA Guen. (5161). N. E. Harbor, July 13 (Minot).

## DEUTERONOMUS Prout

- D. MAGNARIUS Guen. (5170). N. E. Harbor (Minot); Corfield; Penikese, Sept. 1–24. The larva feeds on birch, maple, elm, etc.

## APICIA Guenée

- A. CONFUSARIA Hbn. (5184). Bar Harbor (Burton); Eden, July 24–Aug. 7. The larva feeds on clover.
- A. CONFUSARIA form METROCAMPARIA Guen. (5184). Penikese at light, July 7–16.

## TETRACIS Guenée

- T. CROCALLATA Gn. (5197). Corfield at light, June 17.
- T. LORATA Grt. (5198). N. E. Harbor; Penikese at light, June 22–July 30. Bred from birch, June 16 (Br.). The larva feeds on sweet fern (Comptonia).

## ABBOTTANA Hulst

- A. CLEMATARIA A. & S. var. (5199). Bar Harbor, May 12–18 (Br.); Penikese at light, May 30; a somewhat variable species.

## ANTEPIONE Packard

- A. ARCASARIA Wlk. (5200). S. W. Harbor, June 12. A form that is scarce in the north.

## PROCHOERODES Grote

- P. TRANSVERSATA Drury (5211). N. E. Harbor; Bar Harbor; Penikese, Aug. 17–Sept. 13. The larva feeds on maple, currant, apple, etc. Common.
- P. TRANSVERSATA INCURVATA Guen. (5211a). N. E. Harbor (Minot); Eagle Lake, flying, Aug. 15–Sept. 1.

## LEPIDOPTERA (Microlepidoptera)

## PTEROPHORIDAE. The Feather Wings

ADAINA Tutt

A. DECLIVIS Meyr. Bar Harbor, July 30 (Br.).

## OIDAEMATOPHORUS Wallengren

O. ELLIOTTII Fern. Bar Harbor, Aug. 1 (Br.).

O. EUPATORII Fern. Mt. Desert, Sept. 16 (Br.).

O. HOMODACTYLUS Walk. N. E. Harbor; Bar Harbor (Br.),  
July 22–Aug. 25. The larva feeds on *Solidago*.

O. MATHEWIANUS Zell. Bar Harbor, Aug. 1 (Br.).

O. MONODACTYLUS Linn. Mt. Desert, July 18–29 (Br.).

O. STRAMINEUS Wlsm. Bred July 30 (Br.).

## TRICHOPTILUS Walsingham

T. LOBIDACTYLUS Fitch. Mt. Desert, July 5–Aug. 7 (Br.). Host  
is goldenrod.

## OXYPTILUS Zeller

O. TENUIDACTYLUS Fitch. Eden; Station F80, June 4–July 15.  
The larva feeds on blackberry.

## PLATYPTILIA Hübner

P. CARDUIDACTYLA Rly. Bar Harbor, Sept. 27 (Br.).

P. PALLIDACTYLA Haw. Common, July 10–25. The larva bores  
into stems of yarrow.

## PYRALIDIDAE

## PEORIA Ragonot

P. APPROXIMELLA Walk. N. E. Harbor (Minot); Bar Harbor  
(Br.); Penikese at light, July 1–27.

## PLODIA Guenée

P. INTERPUNCTELLA Hbn. The Indian Meal Moth. The larva is said to feed upon any thing edible and is very destructive to stored grain. Bred by (Br.).

## MOODNA Hulst

M. OSTRINELLA Clem.? Bar Harbor, Aug. 3 (Br.).

M. sp. possibly PELVICULELLA Hlst. Bar Harbor, July-Aug. (Br.).

M. n.sp. Bar Harbor, July 21-30 (Br.).

## EPHESTIODES Ragonot

E. INFIMELLA Rag. Bar Harbor, July 16-24 (Br.).

## EPHESTIA Guenée

E. KUEHNIELLA Zell. The Mediterranean Flour Moth. A wide spread species which is a great pest wherever flour is stored. Common.

## HOMOEOSOMA Curtis

H. MUCIDELLUM Rag. N. E. Harbor, Sept. 5 (Minot). Bar Harbor, July 24-Aug. 5 (Br.). The larva lives in the flowers of *Gnaphalium*.

H. STYPTICELLUM Grt. Bar Harbor, July 18 (Br.).

## CANARSIA Hulst

C. ULMARIARROSORELLA Clem. Eden; N. E. Harbor; Bar Harbor (Br.), July 1-Sept. 5. The larva is found on elm.

## VITULA Ragonot

V. BASIMACULATELLA Rag. Bar Harbor, July 25 (Br.).

V. n.sp. Bar Harbor, July 25 (Br.).

## ETZOPHERA Zeller

E. OCHRIFRONTELLA Zell. Bar Harbor, July 20 (Br.).

## ELASMOPALPUS Blanchedard

E. LIGNOSELLUS Zell. The Lesser Corn-stalk Borer. Bar Harbor, Aug. 14–Sept. 16 (Br.).

## LAODAMIA Ragonot

L. FUSCA Haw. Penikese in Aug. The larva feeds on willow and *Vaccinium*.

## IMMYRLA Dyar

I. PASSADAMIA Dyar. Bar Harbor, July 20 (Br.).

## SALEBRIA Zeller

S. BASILARIS Zell. Bar Harbor, July 23 (Br.).

S. CARNELLA Hlst. Bar Harbor, July 19 (Br.).

S. CONTATELLA Grt. Bred from *Robinia*, July 7 (Br.). Corfield at light, July 28.

S. CONTATELLA QUINQUEPUNCTELLA Grt. Bred June 29–July 1 (Br.). The larva feeds on locust, forming a web between two leaves.

## MEROPTERA Grote

M. PRAVELLA Grt. Eden; N. E. Harbor, July 16–Aug. 10. The larva forms a web between two leaves of willow.

M. UNICOLORELLA Hulst. N. E. Harbor; Eden, July 21–Aug. 25.

## TLASCALA Hulst

T. FINITELLA Wlk. Mt. Desert, July 19–27 (Br.).

## GLYPTOCERA Ragonot

G. CONSOBRINELLA Zell. Bar Harbor; N. E. Harbor; Bar Harbor (Br.), July 10–25.

## DIORYCTRIA Zeller

D. ABIETELLA Fab. Bred from blister rust pine, Aug. 3–12 (Br.).

D. ZIMMERMANI Grt. Zimmerman's Pine Moth. Bred from blister rust pine, Aug. 8 (Br.).

## ACROBASIS Zeller

- A. BETULELLA Hust. Eden, July 25; bred from birch, Bar Harbor, July 16–27 (Br.). The larva feeds on white birch.
- A. COMPTONIELLA Hulst. Bar Harbor (Br.); Corfield at light, July 25–27.
- A. INDIGENELLA Zell. Apple Leaf crumpler. N. E. Harbor, Aug. 31 (Minot); Bar Harbor (Br.), July 16–Aug. 31.
- A. MYRICELLA B. & McD.? Bred from *Myrica gale*, July 21–29 (Br.).
- A. RUBRIFASCIELLA Pack. N. E. Harbor, Aug. 15 (Minot); Penikese at light, Aug. 13. The larva feeds on alder.
- A. SCITULELLA. Penikese at light, June 30.
- A. TRICOLORELLA Grt. Bar Harbor, July 8–21 (Br.).
- A. VACCINII Riley. Bar Harbor, July 18–21 (Br.).

## MYELOIS Hübner

- M. LEUCOPHALLA. Eden, Aug. 25.
- M. OBNUPSELLA Hulst. N. E. Harbor (Minot); Bar Harbor (Br.), June 7–Aug. 20.
- M. ZONULELLA Rag. Mt. Desert, Aug. 8 (Br.).

## MINEOLA Hulst

- M. TRICOLORELLA Grt. Bar Harbor, July 6 (Br.).
- M. AMPLEXELLA Rag.? S. W. Harbor, July 4, '38.

## TETRALOPHA Zeller

- T. ASPERATELLA Clem. N. E. Harbor; Eden; Corfield, July 15–Aug. 25. The larva feeds on oak, maple, elm, etc.
- T. sp. Mt. Desert, July 25 (Br.).

## ONEIDA Hulst

- O. LUNULALIS Hlst. Bar Harbor, July 17 (Br.).

## RAPHIPTERA Hampson

- R. ARGILLACEELLA Pck. S. W. Harbor bog and Gt. Heath, July 20–Aug. 22 (Br.).

*CRAMBUS* Fabricius

- C. AGITATELLUS Clem. N. E. Harbor (Minot); Eden; Bar Harbor (Br.), July 5–Aug. 20.
- C. ALBELLUS Clem. N. E. Harbor; S. W. Harbor; Bar Harbor (Br.), July 2–Aug. 12. The larva feeds on grasses.
- C. ALBOCLAVELLUS Zell. N. E. Harbor; Eden; Bar Harbor (Br.), June 28–Aug. 7. The larva feeds on grasses.
- C. BIDENS Zell. S. W. Harbor, July 28; S. W. Harbor bog, July 1–Aug. 16 (Br.); New Mill Pond, Aug. 29.
- C. CALIGINOSELLUS Clem. Bar Harbor, July 19 (Br.).
- C. DISSECTUS Grt. S. W. Harbor bog (Br.), June 2–8.
- C. ELEGANS Clem. Bar Harbor, Aug. 4–12 (Br.).
- C. GIRARDELLUS Clem. N. E. Harbor, Aug. 11–Sept. 11 (Minot); Penikese at light, Aug. 13.
- C. HAMELLUS Thun. Mt. Desert, Sept. 1–15 (Br.).
- C. HORTUELLUS Hbn. race TOPIARIUS Grt. Common, June 24–July 17.
- C. LABRADORIENSIS Christoph. S. W. Harbor bog, July 21 (Br.). Scarce.
- C. LACINIELLUS Grt. Bar Harbor, Aug. 29 (Br.).
- C. LAQUEATELLUS Clem. Station F40, June 15.
- C. LEACHELLUS Zinek. N. E. Harbor (Minot); Corfield; Bar Harbor (Br.), Aug. 23–29.
- C. n.sp. near LEACHELLUS. Mt. Desert, Aug. 28 (Br.).
- C. LUTEOLELLUS Clem. S. W. Harbor, June 24–26 (Br.).
- C. LYONSELLUS Heimbach. Bar Harbor; S. W. Harbor bog, July 13–21 (Br.).
- C. MUTABILIS Clem. N. E. Harbor; Bar Harbor (Br.), July 16–Aug. 20. The larva feeds on grass.
- C. MYELLUS Hbn. Bar Harbor, Aug. 7–10 (Br.).
- C. PASCUELLUS Linn. N. E. Harbor, July 8–Aug. 20 (Minot).
- C. PERLELLUS Scop. Corfield at light, Aug. 3.
- C. PERLELLUS Scop. race INNOTATELLUS Walk. N. E. Harbor, July 1–Aug. 29 (Minot). The larva feeds on grasses.
- C. PRAEFECTELLUS Zinek. N. E. Harbor, Aug. 20 (Minot); S. W. Harbor bog, July 21–25 and Bar Harbor, June 24 (Br.); Robinson Mt., Sept. 2.

- C. RURICOLELLUS* Zell. N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 9–20. The larva feeds on grass and sorrel.
- C. TETERELLUS* Zinck. Bar Harbor (Br.), Aug. 11.
- C. TRISECTUS* Walk. N. E. Harbor, Aug. 23 (Minot); Bar Harbor, July 7–Aug. 18 (Br.). The larva feeds on grasses.
- C. UNISTRIATELLUS* Pack. Penikese and Corfield at light, Aug. 8–20. Bar Harbor, July 19–Aug. 13 (Br.). Scarce.
- C. VULGIVAGELLUS* Clem. N. E. Harbor, Sept. 6 (Minot); Bar Harbor, Aug. 24–28 (Br.).
- C. ZEELLUS* Fern. Corfield at light, July 9.

**THAUMATOPSIS Morrison**

- T. GIBSONELLUS* Kearf. Bar Harbor, Aug. 24 (Br.).

**ARGYRIA Hübner**

- A. AURATELLA* Clem. Bar Harbor, July 15–18 (Br.).
- A. NIVALIS* Drury. N. E. Harbor (Minot); Penikese; Bar Harbor (Br.), June 6–July 18.

**HERCULIA Walker**

- H. INTERMEDIALIS* Wlk. Mt. Desert, Aug. 7 (Br.).
- H. OLINALIS* Guen. Bar Harbor, July 4 (Br.). The larva feeds on oak leaves.
- H. OLINALIS* var. *INFIMBRIALIS* Dyar. Mt. Desert, July 22.
- H. THYMETUSALIS* Wlk. Bar Harbor, July 16 (Br.).

**PYRALIS Linnaeus**

- P. COSTIFERALIS* Wlk. Mt. Desert, July 15–Aug. 5 (Br.).
- P. FARINALIS* Linn. Meal Moth. Infests meal and stored grains. Common and generally distributed. May have several generations a year.

**EURRHYPARA Hübner**

- E. URTICATA* Linn. Eden, July. The larva feeds on nettle. A European species first recorded from Nova Scotia. Bar Harbor, June 6–July 16 (Br.).

## SCOPARIA Haworth

- S. BASALIS* Walk. N. E. Harbor; Eden; S. W. Harbor (Br.), June 27–Sept. 1.  
*S. CENTURIELLA* D. & S. Mt. Desert, July 8–25 (Br.).  
*S. LUGUBRALIS* Wlk.? Bar Harbor, Aug. 25, 1933. Bar Harbor (Br.); Eden, Aug. 20–Sept. 10.  
*S. PENUMBRALIS* Dyar. Mt. Desert, June 12–24 (Br.).  
*S. TRUNCATALIS* McD.? Bar Harbor, Aug. 17 (Br.).

## GESHNA Dyar

- G. PRIMORDIALIS* Dyar. N. E. Harbor (Minot); Paradise Hill at light, July 17–27.

## ELOPHILA Hübner

- E. MAGNIFICALIS* Hbn. Mt. Desert, June 24 (Br.).

## NYMPHALA Schrank

- N. ALLIONALIS* Wlk. Bar Harbor, Aug. 16–25 (Br.).  
*N. ALLIONALIS* Walk. race *ITEALIS* Walk. Bar Harbor, Aug. 16.  
*N. GYRALIS* Hulst. Upper Breakneck and New Mill Ponds, July 14–Aug. 3.  
*N. ICCUSALIS* Walk. S. W. Harbor; Corfield light, July 3–28. The larva lives on pond weed (*Potamogeton*), and other aquatic plants.  
*N. MACULALIS* Clem. New Mill Pond, Station F131, July 14.

## PYRAUSTA Schrank

- P. ACRIONALIS* Wlk. Bar Harbor (Br.); Corfield at light, July 3–Sept. 3.  
*P. FISSALIS* Grt. July 30 (Br.).  
*P. FUMOFERALIS* Hulst. Long Pond, June 27.  
*P. FUNEBRIS* Ström. Bar Harbor; N. E. Harbor; S. W. Harbor, June 21–July 10. The larva lives in the basal leaves of *Solidago*.  
*P. ILLIBALIS* Hbn. Bar Harbor, June 10. Variable in markings.  
*P. ILLIBALIS ARSALTEALIS* Wlk. Bar Harbor, July 1 (Br.).

- P. *NUBILALIS* Hbn. 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 widely. There is a single and a double brooded form. Scarce. Aug. 7 at light.
- P. *PERTEXTALIS* Ledr. Eagle Lake; N. E. Harbor, July 18–Aug. 5.
- P. *SUBMEDIALIS* Grt. N. E. Harbor, July 18.
- P. *SUBSEQUALIS* Gn. Bar Harbor, Aug. 2–Sept. 3 (Br.).
- P. sp. S. W. Harbor bog, July 21–25 (Br.).

## PHLYCTAENIA Hübner

- P. *ACUTELLA* Wlk. Gt. Heath and Bar Harbor, July 4 (Br.).
- P. *EXTRICALIS* Guen. S. W. Harbor, July 10. Bar Harbor (Br.), June 14–July 10. The larva is a leaf-roller on alder.
- P. *FUMALIS* Guen. Eden, July 25–Aug. 25; Bar Harbor (Br.), July 17–Aug. 17.
- P. *HELVALIS* Wlk.? Bar Harbor, July 4 (Br.).
- P. *HELVALIS* Wlk. Pale var. June 27–July 15 (Br.).
- P. *RUBIGALIS* Gn. The Celery Leaf-tier. Mt. Desert, July 16–Aug. 13 (Br.).
- P. *SHEPPARDI* McD. Bar Harbor, July 19 (Br.).
- P. *TERREALIS* Treit. N. E. Harbor; S. W. Harbor, June 24–July 26. The larva feeds on *Solidago*.
- P. *TERTIALIS* Guen. Eden; N. E. Harbor, July 27–Sept. 3. The larva lives in the pith of elder.

## TITANIO Hübner

- T. *MARGINALIS* Wlk. Mt. Desert, May 19 (Br.).

## LOXOSTEGE Hübner

- L. *CHORTALIS* Grt. Bar Harbor, June 30 (Br.).
- L. *COMMIXTALIS* Wlk. S. W. Harbor, June 8–July 9 (Br.).
- L. *SIMILALIS* Gn. The Garden Web Worm. Mt. Desert (Br.), Aug. 17–Sept. 16.
- L. *STICTICALIS* Limi. The Sugar-beet Web-worm. Mt. Desert (Br.), Aug. 5–16.

## NOMOPHILA Hübner

N. NOCTUELLA D. & S. Common, June–Sept. The larva feeds on *Polygonum*, etc.

## SAMEODES Snellen

S. ADIPALOIDES G. & R. Bar Harbor, May 12–July 20 (Br.).

## EVERGESTIS Hübner

E. STRAMINALIS Hbn. The Purple-backed Cabbage worm. N. E. Harbor (Minot); Corfield at light, July 23–Aug. 9.

## PANTOGRAPTA Lederer

P. LIMATA G. & R. Corfield at light, Aug. 3.

## BLEPHAROMASTIX Lederer

B. STENIALIS Guen. N. E. Harbor, July 8–20 (Minot).

## DIASTICTIS Hübner

D. ARGYRALIS Hbn. Bar Harbor, Aug. 4 (Br.).

D. ARGYRALIS form VENTRALIS Grt. Bar Harbor, Aug. 7 (Br.).

## APHOMIA Hübner

A. SOCIELLA Linn. Bar Harbor, July (Moore); Bar Harbor, July 1–Aug. 7 (Br.). The larvae live in nests of bumble-bees and wasps.

## DESMIA Westwood

D. FUNERALIS Hbn. The Grape Leaf Folder. N. E. Harbor; Corfield at light; Bar Harbor (Br.), June 15–Aug. 10. In the absence of grape, the larva will feed on the evening primrose.

## HYMENIA Hübner

H. FASCIALIS Cr. The Hawaiian Beet Worm. Bar Harbor, Sept. 16 (Br.).

H. PERSPECTALIS Hbn. The Spotted Beet Web-worm. Bar Harbor, Sept. 10 (Br.).

## DICYMOLOMIA Zeller

D. JULIANALIS Wlk. Bred from *Typhus*, June 27–July 24 (Br.). The larvae breed in the heads making them fluff out.

## CONDYLOLOMIA Grote

C. PARTICIPIALIS Grote. Mt. Desert, July 15 (Br.).

## SCHOENOBius Duponchel

S. sp. Bar Harbor, July 15 (Br.).

S. sp. Bar Harbor, July 4 (Br.).

S. sp. Bar Harbor, Aug. 6 (Br.).

## COSSIDAE

## ACOSSUS Dyar

A. CENTERENSIS Lint. Bar Harbor, July 9 (Br.).

## CARPOSINIDAE

## BONDIA Newman

B. CRESCENTELLA Wlsm. Bar Harbor, May 11 (Br.).

## PHALONIDAE

## PHALONIA Hübner

P. ALBIDANA Wlk. Mt. Desert, June 20–July 19 (Br.).

P. ATOMOSANA Bsk. Mt. Desert, Aug. 17–24 (Br.).

P. BISCANA Kf. Mt. Desert, May 11–July 6 (Br.).

P. BUNTEANA Rob. N. E. Harbor, July 31 (Minot). The larva feeds on *Lactuca*.

P. EDNANA Kf. N. E. Harbor; Bar Harbor (Br.), June 29–Aug. 16.

P. MARLOFFIANA Bsk. Bar Harbor, Aug. 8–14 (Br.).

P. RUTILANA Hbn. The Juniper Web-worm. Mt. Desert, July 6–25 (Br.).

P. SMEATHMANNIANA Fab. S. W. Harbor, June 27 (Br.).

P. sp. near ATAMOSANA Bsk. Bar Harbor, Aug. 22, 1936.

## PIARMACIS Hübner

P. VITELLINANA Zell. N. E. Harbor; Eden, July 16–Sept. 5.

## HYSTEROSSIA Stephens

H. BARACANA Bsk. Mt. Desert, July 25 (Br.).

H. CARTWRIGHTIANA Kf.? July 18 (Br.).

## TORTRICIDAE

## PANDEMIS Hübner

P. LIMITATA Rob. S. W. Harbor, July 25 (Br.).

## ARCHIPS Hübner

A. CERASIVORANA Fitch. S. W. Harbor; Eden, July 27–Aug. 1.

The larvae are social, forming large ugly nests on the wild cherry.

A. CONFLICTANA Wlk. Bar Harbor, July 6 (Br.).

A. FERVIDANA Clem. The Oak Web-worm. Aug. 24 (Br.).

A. MELALEUCANA Walk. Bar Harbor; N. E. Harbor, June 11–July 16. The larva feeds on *Trillium*.

A. PERSICANA Fitch. Bar Harbor, June 15. Also (Br.) Aug. 22. The larva feeds on various plants.

A. PURPURANA Clem. Green Mt., July 27. The larva feeds on geranium, etc.

A. ROSACEANA Harr. The Oblique-banded Leaf-roller. Bar Harbor, July 11. Also (Br.) Aug. 22. The larva feeds on rose, apple, etc.

## TORTRIX Linnaeus

T. AFFLICTANA Wlk. Bar Harbor, May 23–26 (Br.).

T. ALLENIANA Fern. Bar Harbor; S. W. Harbor bog (Br.), July 19–21. The larva is a general feeder.

T. CLEMENSIANA Fern. Bar Harbor, Aug. 2–12 (Br.).

T. CLEMENSIANA form NERVOSA Clem. Mt. Desert, Aug. 5 (Br.).

T. MARIANA Fern. May 13–28 (Br.).

T. PACKARDIANA Fern. Bar Harbor, July 7–Aug. 1 (Br.).

## EULIA Hübner

- E. MINISTRANA Linn. 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.
- E. PINATUBANA Kf. Bar Harbor, June 6 (Br.).
- E. QUADRIFASCIANA Fern. Bar Harbor, July 10 (Br.).
- E. QUERCIFOLIANA Fitch. Bar Harbor; Mt. Desert (Br.); Corfield, June 24–July 3. The larva feeds on oak.
- E. VELUTINANA Wlk. The Red-banded Leaf-roller. Bar Harbor, May 14–June 16 (Br.).
- E. var. About white pine at Bar Harbor, May 11–June 8 (Br.).

## HARMOLOGA Meyrick

H. FUMIFERANA Clem. The Spruce Bud-worm. Throughout the island and sometimes very injurious to the spruce. It was especially abundant in 1914.

## CNEPHASIA Curtis

- C. LISTERANA Kearf. S. W. Harbor, Aug. 1–19 (Br.).
- C. PERITANA Clem. Bar Harbor, Sept. 25 (Br.).
- C. VIRESCANA Clem. Bar Harbor, June 12–21 (Br.).

## TORTRICODES Guenée

- T. FRAGARIANA Bsk.? det. McD. Aug. 9. Mating Sept. 2 (Br.).

## PERONEA Curtis

- P. BOWMANANA McD. Mt. Desert, Oct. 3 (Br.).
- P. BRAUNANA McD. Mt. Desert, Sept. 18, Oct. 2 (Br.).
- P. BUSCKANA McD. Mt. Desert, May 10–Sept. 25 (Br.).
- P. CELIANA Rob. Mt. Desert, Sept. 22 (Br.).
- P. CELIANA var. ALBILINEANA Kf. Mt. Desert, Sept. 22 (Br.).
- P. CERVINANA Fern. Northeast Harbor, Sept. 20.
- P. CHALYBEANA Fern. Bar Harbor, Apr. 25 (Br.).
- P. FRAGARIANA Krf. Corfield at light, Oct. 6.
- P. FERRUGANA Schiff. Mt. Desert, Oct. 5 (Br.).
- P. GALLICOLANA Clem.? Bar Harbor, July 12 (Br.).

- P. HASTIANA Linn. Mt. Desert, May 1-Oct. 17 (Br.).  
 P. HUDSONIANA? Wlk. Bar Harbor, Sept. 25-Oct. 9 (Br.).  
 P. KEARFOTTANA McD. S. W. Harbor, July 25 (Br.).  
 P. LATIFASCIANA Haw. Bar Harbor, Oct. 8 (Br.). Bar Harbor  
     and (Br.) Aug. 28-Oct. 8.  
 P. MACULIDORSANA Clem. S. W. Harbor, May 25 (Br.); Ireson  
     Hill woods, May 29.  
 P. MINUTA Rob. The Yellow-headed Cranberry Worm. Mt.  
     Desert, May 2-15 (Br.).  
 P. NIGROLINEA var. FERRUGINIGUTTANA Fern. Apr. 28 (Br.).  
 P. NIVEANA Fabr. Mt. Desert, Sept. 22 (Br.).  
 P. NIVISELLANA Wlsm. Bar Harbor, May 23 (Br.).  
 P. OXYCOCCANA Pack.? S. W. Harbor, May 25 (Br.).  
 P. PERSPICUANA Rob.? Bar Harbor, August 31 (Br.).  
 P. ROBINSONIANA Fbs. var. May 11-Sept. 9 (Br.).  
 P. SEMIANNULA Rob. Bar Harbor, July 17 (Br.).  
 P. TRISIGNANA Rob. Bred Aug. 27 (Br.).  
 P. VARIANA Fern. The Black-headed Bud-worm. N. E. Har-  
     bor, July 30-Aug. 15 (Minot). Bred from white spruce,  
     July 21-Aug. 17 (Br.).

**ARGYROTOXA Stephens**

- A. ALBICOMANA Clem. N. E. Harbor; Penikese, July 15-Aug.  
     10; Bar Harbor, July 17-29 (Br.). The larva feeds on rose.  
 A. SEMIPURPURANA Kf. Bar Harbor, July 17-29 (Br.).

**COELOSTATHMA Clemens**

- C. DISPUNCTANA Clem.? July 16, '38, July 17, '36.

**AMORBIA Clements**

- A. HUMEROSANA Clem. Corfield at light, May 30.

**PLATYNOTA Clemens**

- P. IDAEUSALIS (SENTANA Clem.) Wlk. Mt. Desert, Aug. 19  
     (Br.).

## SPARGANOTHIS Hübner

- S. IRROREA Rob. N. E. Harbor; Bar Harbor (Br.), June 27–Aug. 20.
- S. RETICULATANA Clem. N. E. Harbor, Sept. 4 (Minot); Bar Harbor (Br.), Aug. 16–Sept. 4. The larva feeds on oak, maple, pear, rose, etc.
- S. RETICULATANA var. GRACILANA Wlsm. Bar Harbor, Aug. 15–31 (Br.).
- S. RETICULATANA Clem. var. Mt. Desert, Aug. 4–5 (Br.). This is the pale variety.
- S. SULFUREANA Clem. Bar Harbor; Green Mt.; Mt. Desert (Br.), July 21–Aug. 21. The larva feeds on willow, strawberry, cranberry, grape and blueberry. The leaves are fastened together flat by silk along the edges.
- S. UNIFASCIANA Clem. Bar Harbor, July 20–Aug. 6 (Br.).
- S. VIOLACEANA Rob. Mt. Desert, June 4 (Br.).
- S. XANTHOIDES Wlk. Bar Harbor, July 8–Aug. 16 (Br.).
- S. XANTHOIDES var. Wlk. Bar Harbor, July 28 (Br.).

## POLYCHROSIS Ragonot

- P. RHOIFRUCTANA Kf. Bred from sumac (*Rhus typhina*) heads, July 29 (Br.).

## TANIVA Heinrich

- T. ALBOLINEATA Kearf. Bar Harbor, July 16 (Br.).

## HULDA Heinrich

- H. IMPUDENS. July 16–30, '38.

## APHANIA Hübner

- A. DEXTRANA McD. Bar Harbor, July 6 (Br.).
- A. INFIDA Hein. det. McD. June 30.

## CYMOLOMIA Lederer

- C. CEALDANA McD. (*micantana* Kf.). Bar Harbor, July 19–Aug. 14 (Br.).  
 C. CONCIINNATA Clem. Aug. 9 (Br.).  
 C. FASCIATANA Clem. Eden, Aug. 7. The larva feeds on *Rumex*.  
 C. ELECTROFUSCA Hein. July 17–31 (Br.).  
 C. HEPADULUM. Aug. 7 (Br.).  
 C. OLIVACEANA Fern. Salisbury Cove, Aug. 7.  
 C. RUSTICANA McD. Bar Harbor, July 15–21 (Br.).  
 C. VALDANUM McD. July 19–Aug. 7 (Br.).  
 C. ZELLERIANA Fern. Eden, Aug. 7; Bar Harbor, July 29–Aug. 4 (Br.). The larva crumples the leaves of white birch.

## BACTRA Stephens

- B. FURFURANA Haw. S. W. Harbor bog, July 25–Aug. 16 (Br.).

## HEDIA Hübner

- H. SEPARATANA Kf. July 28–30, '38.

## ENDOTHENIA Stephens

- E. HEBESANA Wlk.? det. McD. S. W. Harbor, Sept. 4, '37.

## OLETHREUTES Hübner

- O. ABIETANA Fern. S. W. Harbor bog, June 8–18 (Br.).  
 O. AGILANA Clem. Bar Harbor, July 2 (Br.).  
 O. ALBEOLANA Zell. Eden; Bar Harbor (Br.), July 15–Aug. 7. The larva is a leaf-roller on white birch.  
 O. ALBICILIANA Fern. Bar Harbor, July 10 (Br.); Eden, July 23. The larva is purple and a leaf-roller on *Spiraea*.  
 O. ASTROLOGANA Zell. S. W. Harbor, June 27 (Br.).  
 O. BIPARTITANA Clem. N. E. Harbor; Eden, July 1–Aug. 26.  
 O. CAPREANA Hbn. N. E. Harbor, July 22 (Minot).  
 O. CESPITANA Hbn. (*instrutana* Clem.). Bar Harbor, July 21 (Br.).  
 O. CONSTELLATANA Zell. S. W. Harbor; Bar Harbor (Br.), June 17–18.

- O. DECEPTANA Kf. Bar Harbor, July 22 (Br.).  
 O. DUPLEX Wlsm? Bar Harbor, July 7 (Br.).  
 O. FUSCABANA Zell. Echo Lake; N. E. Harbor, July 12–Aug. 25.  
 O. GLACIANA Moesch. Mt. Desert, June 24 (Br.).  
 O. HEMIDESMA Zell. Eden; Bar Harbor, Aug. 7–25 (Br.). The larva webs the leaves and flowers of *Spiraea*.  
 O. IMPUDENS Wlsm. S. W. Harbor, Aug. 1 (Br.).  
 O. NIMBATANA Clem. The Rose Bud-worm. Bar Harbor, July 27 (Br.).  
 O. POLLUXANA McD. Mt. Desert, July 13 (Br.). Also a form not typical was taken.  
 O. REMOVANA Kearf. Bar Harbor, Aug. 21 (Br.).  
 O. URTICANA Hbn. (*campestrana* Z.). Bar Harbor (Br.); July 7–15. S. W. Harbor. Larva feeds on cherry.  
 O. YOUNGANA McD. Bar Harbor, July 27–Aug. 21 (Br.).

## ZEIRAPHERA Treitschke

- Z. RATZBURGIANA Sax. Bred from white spruce buds, July 3 (Br.).

## GYPSONOMA Meyrick

- G. FASCIOLANA Clem. N. E. Harbor (Minot); Bar Harbor (Br.), June 24–July 15.  
 G. SALICOLANA Clem. July 10 (Br.).  
 G. SUBSTITUTIONIS Hein. Mt. Desert, Aug. 6 (Br.).

## EXENTERA Grote

- E. IMPROBANA Walk. Mt. Desert, Apr. 15 (Br.).

## GREATCHINA Heinrich

- G. AMATANA Hein. Mt. Desert, May 28 (Br.).

## PROTEOTERAS Riley

- P. MOFFATIANA Fern. July 17 (Br.).

## RHYACIONIA Hübner

- R. COMSTOCKIANA Fern. Bar Harbor, July 4-7 (Br.).  
 R. GEMISTRIGULANA Kearf. Bar Harbor, July 19-29 (Br.).

## SONIA Heinrich

- S. CONSTRICTANA Zell. July 22 (Br.).

## SPILONOTA Stephens

- S. OCELLANA Schiff. Bar Harbor, S. W. Harbor, July 6-18 (Br.).

## THIODIA Hübner

- T. ALTERANA Hein. Bar Harbor, July 28-Aug. 21 (Br.).  
 T. FORMOSANA Clem. Mt. Desert, May 23-June 6 (Br.).  
 T. OCHROTERMINANA Kearf. N. E. Harbor (Minot); Bar Harbor (Br.), Aug. 1-8.  
 T. OLIVACEANA Riley. Mt. Desert, July 1-5 (Br.).  
 T. PARMATANA Clem. Aug. 5 (Br.).  
 T. PERFUSCANA Hein. Bar Harbor, July 23-Aug. 17 (Br.).  
 T. RADIATANA Steph. Bar Harbor, June 6-16 (Br.).  
 T. REFUSANA Wlk. Bar Harbor, May 1-25 (Br.); Robinson Mt., Sept. 2.  
 T. ROSEOTERMINANA Kf. Bar Harbor, June 6-15 (Br.).

## EUCOSMA Hübner

- E. CATACLYSTIANA Walk. Bar Harbor, July 21-29 (Br.).  
 E. DERELICTA Hein. (*juncticiliiana* auct.). Bar Harbor, July 28-30 (Br.).  
 E. DORSISIGNATANA Clem. Penikese; N. E. Harbor, Aug. 1-25.  
     Larva feeds in roots of goldenrod.  
 E. PERGANDEANA Fern. Bar Harbor, July 1-21 (Br.).  
 E. SCUDDERIANA Clem. N. E. Harbor, July 17. The larvae live in galls on *Solidago*.  
 E. SIMILANA Clem. N. E. Harbor, Sept. 24 (Minot). Bar Harbor, Aug. 2-29 (Br.).  
 E. TOCULLIONANA Hein.? Mt. Desert, July 6 (Br.).

## KUNDRYA Heinrich

K. FINITIMANA Hein. Bred June 30 (Br.). The larva is first a miner and later a webber on *Nemopanthus mucronatus* and *Ilex verticillata*.

## EPIBLEMA Hübner

E. CULMINANA Wlshm. Bar Harbor, Aug. 3–20 (Br.).

E. OTIOSANA Clem. Bar Harbor, July 7–Aug. 13 (Br.). The host plant is *Bidens*.

E. PURPURISSATANA Hein. Aug. 4 (Br.).

E. SUFFUSANA Zell. N. E. Harbor, July 4–Aug. 24. The larva feeds on the buds and flowers of the rose.

## ANCHYLOPERA Stephens

A. ANGULIFASCIANA Zell. The Clover Leaf-tier. Bar Harbor, Aug. 2–7 (Br.).

A. BURGESSIANA Zell? Bar Harbor, June 6 (Br.).

A. GOODELLIANA Fern. Bar Harbor, June 14 (Br.).

A. LACINIANA Zell. Bar Harbor, June 21–July 5 (Br.).

A. METAMELANA Wlk. Bar Harbor, June 6 (Br.).

A. NEBECULANA Clem. N. E. Harbor (Minot); S. W. Harbor, May 25–July 16 (Br.). The larva is a leaf-roller on apple, etc.

A. SUBAEQUANA Zell. S. W. Harbor, N. E. Harbor (Minot), July 6–13; S. W. Harbor, June 27 (Br.).

A. n.sp. S. W. Harbor, June 12 (Br.).

## ANCYLIS Hübner

A. APICANA Walk. N. E. Harbor (Minot); Bar Harbor, June 6–July 5–8 (Br.). The larva feeds on raspberry.

A. COMPTANA Frolich. 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. COMPTANA FLORIDANA? Bred from bearberry (*Arctostaphylos Uva-ursi*), June 3–10 (Br.). Webs the terminals. Not the typical form.
- A. DIMINUTANA Haw. Bar Harbor, July 21–Aug. 2 (Br.).
- A. MEDIOFASCIANA Clem. Bar Harbor, May 25–28 (Br.).
- A. TINEANA Hbn. S. W. Harbor; Bar Harbor (Br.), June 20–July 11. Larva feeds on poplar and various *Rosaceae*.

EPINOTIA Hübner .

- E. LINDANA Fern. Bred from *Cornus*, Aug. 26–Sept. 2 (Br.).
- E. MISSELLA CRIDDLEANA Kearf. Bar Harbor, July 29 (Br.).
- E. NANANA Tr. Bred from red spruce, May 21 (Br.).
- E. NISELLA Clem.? det. McD. July 1 (Br.).
- E. NORMANANA Kearf. July 4–Aug. 8 (Br.).
- E. RECTIPLICANA Wlsm. Bar Harbor, June 14–28 (Br.).
- E. SEPTEMBERANA Kearf. Bar Harbor, Sept. 8–Oct. 3 (Br.).
- E. SIGNATANA Clem. Mt. Desert, June 24–July 2 (Br.).
- E. SIMILANA Hbn. Bar Harbor, Sept. 6–21 (Br.). The hosts are hazel and birch.
- E. SOLICITANA Walk. N. E. Harbor; Mt. Desert (Br.), May 23–Sept. 4. Larva feeds on white birch.
- E. TRANSMISSANA Walk. N. E. Harbor; Corfield at light; Bar Harbor (Br.), July 4–10.

ECDYTOLOPHIA Zeller

- E. INSITICIANA Zell. The larva causes gall-like lumps on the twigs of locust (*Robinia*) by boring under the bark. General.

MELISSOPUS Riley

- M. LATIFERREANUS Wlshm. Bar Harbor, July (Br.).

CARPOCAPSA Treitschke

- C. POMONELLA Linn. The Coddling Moth occurs generally but not in large numbers in June.

## LASPEYRESIA Hübner

- L. INTERSTINCTANA Clem. The Clover-seed Caterpillar. Mt. Desert, June 3–Aug. 11 (Br.).  
 L. LIBERTINA Hein. Robinson Mt. on cranberry? Aug. 31 (Br.).  
 L. PACKARDI Zell. June 4 (Br.).  
 L. POPULANA Bsck. Mt. Desert, July 14–31 (Br.).  
 L. PRUNIVORA Wlshm. June 6–Aug. 14 (Br.).

## SAREDA Heinrich

- S. LAUTANA Clem. Bar Harbor, May 13 (Br.).

## HEMIMENE Hübner

- H. BITTANA Bsk. Sept. 1 (Br.).  
 H. SIGNIFERA Hein. July 3 (Br.).  
 H. SIMULANA Clem. S. W. Harbor, June 25 (Br.).  
 H. sp. S. W. Harbor bog, July 25 (Br.).

## AEGERIIDAE

## ALCATHOË Hy. Edwards

- A. CAUDATA Harr. Bar Harbor, Aug. 9–21 (Br.). Bred from *Clematis*, Aug. 8, in the roots of which they breed.

## AEGERIA Fabricius

- A. TIBIALIS Harris. Pupal case from poplar, Section 23.

## CONOPIA Hübner

- C. ACERNI Clem. Maple Borer. Corfield, July 25; Bar Harbor, July 21 (Br.). The larvae tunnel in the sap wood of maples.  
 C. ALBICORNIS Hy. Edw. Penikese, Aug. 10. Bar Harbor, July 29, '32, from the flowers of *Spirea latifolia* (Br.). Rare. The larvae feed upon the trunks and shoots of willows.  
 C. CORNI Hy. Edw. Bar Harbor; Dry Mt. (Sanford), July 10–17. July 21 (Br.).  
 C. FULVIPES Harr. Corfield; Green Mt., June 17–25.

- C. PICTIPES Grt. and Rob. 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.
- C. PYRI Harr. S. W. Harbor, June 26. Pear and apple trees are the habitat of this larva. It is called the Pear Borer.
- C. SCITULA Harr. Bar Harbor (Br.), July 22–30. The larvae bore into oak, oak galls, and willow.
- C. TIPULIFORMIS Linn. The Currant Borer. Bar Harbor; Seal Harbor (D. Rockefeller); Corfield, July 26–Aug. 25. The larva feeds on the stems of *Ribes*.

## MEMYTHRUS Newman

- M. PYRAMIDALIS Walk. S. W. Harbor; Bar Harbor, June 26–July 11.
- M. TRICINCTUS Harr. Bred from a gall on a poplar limb, July 8 (Br.).

## HELIODINIDAE

## SCHRECKENSTEINEA Hübner

- S. FESTALIELLA Hbn. May 10–July 10 (Br.).

## GLYPHIPTERYGIDAE

## ALLONONYMA Busek

- A. VICARIALIS Zell. Echo Lake, July 29 (Alexander).

## GLYPHIPTERYX Hübner

- G. IMPIGRITELLA Clem. Bar Harbor, June 10 (Br.).
- G. n.sp. S. W. Harbor, May 25 (Br.), May 25, '38. Unnamed in U. S. N. M., '37.

## CHOREUTIS Hübner

- C. ONUSTANA Walk. N. E. Harbor, July 1 (Minot). Mt. Desert, June 10–Aug. 11 (Br.).
- C. VIRGINIELLA Clem. Aug. 16–Sept. 13 (Br.).

## SIMAËTHIS Leach

*S. BETULIPERDA* Dyar? Mt. Desert, Aug. 25 (Br.).

*S. DIANA* Hbn. Bar Harbor, Apr. 27 (Br.)

*S. PARIANA* Clem. Bred July 26 (Br.).

## YPONOMEUTIDAE

## SCYTHRIS Hübner

*S. EBORACENSIS* Zeller. Mt. Desert, Aug. 2-4 (Br.). The host plant is thistle.

*S. IMPOSITELLA* Zell. Bar Harbor, July 6 (Br.).

## OCNEROSTOMA Zeller

*O. PINARIELLA* Zell. The European Pine Leaf-miner. Bar Harbor, July 29 (Br.).

## SWAMMERDAMIA Hübner

*S. CASTANAEAE* Bsk. Mt. Desert, June 8-July 3 (Br.).

## ARGYRESTHIA Hübner

*A. CALLIPHANES* Mayr. Bred July 29-Aug. 14 (Br.).

*A. CONJUGELLA* Zell. Bar Harbor, June 8 (Br.).

*A. FREYELLA* Walshm. Arbor vitae Leaf-miner. July (Salman), July 3-26 (Br.).

*A. sp. near FREYELLA*. Bar Harbor, June 20 (Br.).

*A. GOEDARTELLA* Linn. N. E. Harbor (Minot); Bar Harbor, Aug. 11-Sept. 13. The larvae live in the catkins of birch and alder.

*A. OREASELLA* Clem. S. W. Harbor, July 15; Bar Harbor, July 6-9 (Br.).

*A. THUIELLA* Pack. Bar Harbor, Sept.; bred July 4 (Br.). The larva mines the leaves of the arbor vitae.

*A. sp.* July 18 (Br.).

## CEROSTOMA Latreille

- C. DENTIFERELLA form CANARIELLA Wlsm. Bar Harbor, Aug. 14 (Br.).  
 C. XYLOSTELLA Linn. The European Honeysuckle Leaf-roller.  
 Mt. Desert, July 25 (Br.); Corfield at light, Aug. 4.

## PLUTELLA Schrank

- P. MACULIPENNIS Curtis. Diamond-back Moth. Bar Harbor,  
 July 5–Sept. 1 (Br.).

## LAVERNIDAE

## COSMOPTERYX Hübner

- C. CLANDESTINELLA Bsk. July 11.  
 C. CLEMENSELLA Stain.? Bar Harbor, July 13 (Br.).  
 C. GEMMIFERELLA Clem. July 15–Aug. 6 (Br.).

## BATRACHEDRA Stainton

- B. PREANGUSTA Haw. July 21–Aug. 2 (Br.).

## MOMPHA Herrich-Schaeffer

- M. CLOISELLA Chamb.? S. W. Harbor, July 9–18, '38.  
 M. STELELLA Bsk.? Bar Harbor, May 9 (Br.).

## LIMNAECIA Stainton

- L. PHRAGMITELLA Stain. 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.

## LAVERNA Curtis

- L. BREVIVITTELLA Clem. May 28–June 6 (Br.).  
 L. DECORELLA Steph. Mt. Desert, July 13–26 (Br.).  
 L. sp. Bar Harbor, June 6–11.

## BLASTOBASIDAE

## BLASTOBASIS Zeller

- B. sp. Bar Harbor, July 5 (Br.).

## HOLOCOCERA Clemens

- H. CHALCOFRONTELLA Clem. Bar Harbor, July 18 (Br.). Larva  
frequents sumac heads.  
H. VILLELLA Bsk. June 22–July 7 (Br.).  
H. sp. Bar Harbor, Aug. 5 (Br.).

## VALENTINA Walsingham

- V. GLANDULELLA Riley. The Acorn Moth. Bar Harbor, July  
7–20 (Br.).

## EURESIA Dietz

- E. PULCHELLA Dietz? Bar Harbor, June 28 (Br.).

## GELECHIIDAE

## PLATYCYERATA Ely

- P. sp. July 7, '34, June 28, '35.

## METZNERIA Zeller

- M. LAPPELLA Linn. The Triple-spotted yellow Burdock Moth.  
Mt. Desert, Aug. 5–12 (Br.).

## EVIPPE Chambers

- E. LEUCONOTA Zell. Bar Harbor, July 18 (Br.).  
E. PRUNIFOLIELLA Cham. Bar Harbor, July 4 (Br.).

## EPITHECTIS Meyrick

- E. ATTRIBUTELLA Wlk. Bar Harbor, July 25 (Br.).

## EUCORDEYLEA Dietz

- E. ATRUPICTELLA Dietz det. Fbs. Bar Harbor, Aug. 13–19  
(Br.).

## RECURVARIA Haworth

- R. APICITRIPUNCTELLA Clem. Mt. Desert, July 2–14 (Br.).

- R. PICEAËLLA Kf. Bred from spruce, July 3 (Br.).

- R. THUJAËLLA Kearf. Arbor-vitae Leaf-miner. Bred July 3–  
16 (Br.).

## CHrysopora Clemens

- C. HERMANNELLA Fab. Blotch-miner of *Chenopodium*. Bred Aug. 12–20 (Br.).  
 C. LINGULACELLA Clem.? Bred Aug. 6–18 from *Chenopodium* (Br.).

## ARISTOTELIA Hübner

- A. ABSCONDITELLA Wlk. Bar Harbor, July 7–19 (Br.).  
 A. MINIMELLA Chamb.? July 30–Aug. 1.  
 A. QUINQUEPUNCTELLA Bsk. Bar Harbor, July 7, 1936.  
 A. RUBIDELLA Clem. Bar Harbor, July 18–28 (Br.).  
 A. ROSEOSUFFUSELLA Clem. Great Heath, Aug. 12–19 (Br.).  
 A. sp. Bar Harbor, July 25, 1935.

## GLAUCE Chambers

- G. PECTENALAEELLA Cham. Bar Harbor, June 30–July 7 (Br.).

## TELPHUSA Chambers

- T. BASIFACIELLA Zell. Bar Harbor, June 3–30 (Br.).  
 T. FUSCOPUNCTELLA Clem. Bar Harbor; June 24, 1933. Mt. Desert (Br.), June 24–July 19.  
 T. LONGIFASCIELLA Cham. Bar Harbor, June 20, 1937.  
 T. QUERCIELLA Cham. Bar Harbor, June 23–July 11 (Br.).

## PARALECHIA Busck

- P. PINIFOLIELLA Cham. The Pine Leaf-miner. Bred from *P. resinosa*, June 20 (Br.).

## DUVITA Busck

- D. CONCINUSELLA Cham. Bar Harbor, July 7 (Br.).  
 D. CONCLUSELLA Wlk. Bar Harbor, June 16–July 22 (Br.).  
 D. TAHAVUSELLA Fbs. Bar Harbor, July 18 (Br.).

## ANORTHOSSIA Clemens

- A. PUNCTIPENNELLIA Clem. July 17–Aug. 6 (Br.).

## DICHOMERIS Hübner

- D. BIPUNCTELLA Wlsm. Bar Harbor, May 1–Aug. 29 (Br.).  
 D. MARGINELLA Fab. The Juniper Web-worm. Bar Harbor, July 18 (Br.).  
 D. VACCINIELLA Bsk. Sept. 10 (Br.).

## PHTHORIMOEA Meyrick

- P. SACCULICOLA Brn.? Mt. Desert, Sept. 4–8, 1932 (Br.).

## TRICHOTAPHE Clemens

- T. FERNALDELLA Bsk. Mt. Desert, May 19 (Br.).  
 T. FLAVOCOSTELLA Clem. Eden; Bar Harbor (Br.), July 27–29.  
     The larva feeds on *Solidago*.  
 T. JUNCIDELLA Clem. N. E. Harbor, July 4 (Minot). The larva is a leaf roller on aster, goldenrod, etc.  
 T. LEUCONOTELLA Bsk.? Bar Harbor, July 3–Aug. 12 (Br.).  
 T. LEVISELLA Fyles. Mt. Desert, July 22–Aug. 2 (Br.).  
 T. PURPUREOFUSCA Wlshm.? Mt. Desert, June 20 (Br.).  
 T. SETOSSELLA Clem. Bar Harbor, Aug. 18–31 (Br.).  
 T. TRIMACULELLA Chamb.? Bar Harbor, June 30 (Br.).  
 T. n.sp. Bar Harbor, July 18 (Br.).  
 T. n.sp. July 22–Aug. 7 (Br.).

## ANACAMPSIS Curtis

- A. INNOCUELLA Zell. Bar Harbor, July 26–Aug. 10 (Br.).

## GNORIMOSCHEMA Busck

- G. ALARICELLA Bsk.? Bar Harbor, Aug. 28 (Br.).  
 G. BRACHENRIDGELLA Bsk.? Bar Harbor, Oct. 6 (Br.).  
 G. GALLAESOLIDAGINIS Riley. Forms an elliptical gall on *Solidago canadensis*. Generally distributed June–July.  
 G. SEPTENTRIONELLA Fyles. Bar Harbor, Aug. 29–Sept. 9 (Br.).  
 G. sp. near GALLAESOLIDAGINIS. 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.).

## GELECHIA Hübner

- G. ALTERNATELLA* Kf. S. W. Harbor, May 25 (Br.).  
*G. BICOSTOMACULELLA* Chamb. Bar Harbor, July 27–Aug. 2 (Br.).  
*G. CONTINUELLA* Zell. Bar Harbor, May 26–July 2 (Br.).  
*G. FLUVIALELLA* Bsk. Bar Harbor, July 6–19 (Br.).  
*G. LUGUBRELLA* Fab. Bar Harbor, Aug. 8 (Br.).  
*G. MEDIOFUSCELLA* Clem. Bar Harbor, June 9–July 1 (Br.).  
*G. NIGRA?* Bar Harbor, Aug. 1 (Br.).  
*G. NIGRIMACULATELLA* Bsk. Mt. Desert, July 14–Oct. 9 (Br.).  
*G. RILEYELLA* Chambers? Mt. Desert, June 13, 1932.  
*G. SEROTINELLA* Bsk. Bar Harbor, July 2–Sept. 1 (Br.).  
*G. TRIALBAMACULELLA* Chamb. N. E. Harbor (Minot); Bar Harbor (Br.), June 24–July 3. The larva feeds on locust, oak, sweet fern, and huckleberry, living in a nest between two leaves.  
*G. VERNELLA* Murt.? July 29 (Br.).  
*G. VIDUELLA* Fab. S. W. Harbor, June 5 (Br.).  
*G. WALSHINGHAMI* Dietz. Mt. Desert, August 2 (Br.).  
*G. sp. near ALBISPARSELLA* Chamb. Bar Harbor, July 21 (Br.).  
*G. sp.* Several other undetermined or undescribed species have been collected.

## XYLORICTIDAE

## STENOMA Zeller

- S. ALGIDELLA* Walk. N. E. Harbor (Minot); Bar Harbor (Br.), July 1–28. The larva feeds on oak, maple, etc.  
*S. SCHLAEGERI* Zell. N. E. Harbor (Minot); Bar Harbor (Br.), June 27–July 16. The larva feeds on oak.

## OECOPHORIDAE

## BORKHAUSENIA Hübner

- B. ASCRIPTELLA* Bsk. Bar Harbor, July 19 (Br.).

## DECANTHA Busck

- D. BORKHAUSENII* Zell. Bar Harbor, July 28 (Br.).

## SCHIFFERMUELLERIA Hübner

S. ARGENTICINCTELLA Clem. Bar Harbor, July 29 (Br.).

## SEMIOSCOPIST Hübner

- S. ALLENELLA Walshm. N. E. Harbor; Bar Harbor (Br.), June 6–Aug. 21. The larva feeds on oak.  
 S. AURORELLA Dyar. Bar Harbor, May 2 (Br.).  
 S. INORNATA Wlsm. Mt. Desert, Apr. 27–June 1 (Br.).  
 S. MEGAMICRELLA Dyar. Mt. Desert, Mch. 30 (Br.).  
 S. PACKARDELLA Clem. Bar Harbor; Mt. Desert (Br.), May 12–June 22.

## DEPRESSARIA Haworth

- D. ALIENELLA Busck. Penikese; Bar Harbor (Br.), Aug. 20–Sept. 23. The larva feeds on *Artemesia*.  
 D. GROTEELLA Rob. Bar Harbor, July 17–Aug. 12 (Br.).  
 D. HERACLIANA DeG. 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. WALSHINGHAMELLA Bsk. Bar Harbor, July 18–Sept. 22 (Br.).

## AGNOPTERYX Hübner

- A. ALLENELLA Walshm. S. W. Harbor; N. E. Harbor, June 24–Sept. 5.  
 A. ATRODORSELLA Clem. N. E. Harbor (Minot); Bar Harbor (Br.), Apr. 29–Sept. 6. The larva feeds on *Bidens*, folding the leaf lengthwise.  
 A. CLEMENSELLA Chamb. Bar Harbor, Apr. 27 (Br.); Break-neck Road, May 18.  
 A. PULVIPENNELLIA Clem. N. E. Harbor, Sept. 5 (Minot). The larva feeds on *Solidago* and *Eupatorium*, folding the leaf lengthwise.  
 A. ROBINIELLA Pack. Salisbury Cove, July 27. The larvae feed on locust, *Robinia*.  
 A. SABULETTA Wlshm. Apr. 28–May 11 (Br.).  
 A. SCIADOPA Myr. Bar Harbor, March 24–31 (Br.).

## PSILOCORSIS Clemens

*P. FAGINELLA?* Cham. Bar Harbor, June 2–12 (Br.).

*P. REFLEXELLA* Clem. Mt. Desert, May 24 (Br.).

## CRYPTOLECHIA Zeller

*C. TENTORIFERELLA* Clem. Eden; N. E. Harbor (Minot), Aug. 20–Sept. 14. The larva feeds on oak, cherry, maple, etc., forming a web on the under side of the leaves.

## EUOMEYRICKIA Busek

*E. TRIMACULELLA* Fitch. Bar Harbor, June 28–Sept. 4 (Br.).

## HELIOZELIDAE

## ANTISPILA Hübner

*A. AMPELOPSIELLA* Chamb. Mt. Desert, June 30–July 14 (Br.).

*A. sp.* Mt. Desert, May 23 (Br.).

*A. sp.* Mt. Desert, July 10–13 (Br.).

## COPTODISCA Walsingham

*C. KALMIELLA* Dietz. Bar Harbor (Br.).

## CYCNOHIDAE

## APIELOSETIA Stephens

*A. ARGENTOSA* Braun.? Bar Harbor, July 28–Aug. 6 (Br.).

*A. CUCULLATA* Braun. Bar Harbor, June 28–July 2 (Br.).

*A. ORESTELLA* Bsk. S. W. Harbor, July 5–9 (Br.).

*A. PRAEMATURELLA* Clem. Bar Harbor, June 8–Aug. 31 (Br.).

*A. sp.* Bar Harbor, July 1 (Br.).

*A. sp.* Mt. Desert, June 24 (Br.).

## COLEOPHORIDAE. The Case Bearers

## COLEOPHORA Hübner

*C. ALBOVANESCENS* Hein. Bar Harbor, July 8 (Br.).

*C. ALNIVORELLA* Hein. Mt. Desert, July 19 (Br.). Bred from blotch miner on alder.

*C. ATLANTICA* Hein. Bar Harbor, May 23 (Br.). Bred from poplar.

- C. CINERELLA Cham. Bred from *Populus tremuloides*, June 30 (Br.).
- C. CORUSCIPENNELLAA Clem. Eden; Bar Harbor (Br.), July 2-25.
- C. FLETCHERELLA Fern.? Bred on *Crataegus*, July 14 (Br.). Larva feeds on apple, crataegus, and mountain ash, and is known as the Cigar Case-Bearer.
- C. LARICELLA Hbn. Bred June 19 (Br.).
- C. LIMOSIPENNELLAA Dup. Bred from white birch, July 17 (Br.).
- C. POLEMONIELLA Braun? July 29-Aug. 14 (Br.).
- C. SALMANI Hein. Bred from alder July 16 (Br.). Is parasitized by *Spilochalcis torrina* and *Epiurus indigotor* Cr. Is sometimes common on birch.
- C. sp. near HEINRICHELLA McD. & DUPLICIS Braun. Bar Harbor, July 29-Aug. 28 (Br.).
- C. sp. near and possibly equal to C. FLETCHERELLA Fern. Corfield, Aug.
- C. sp. Bar Harbor, Aug. 5 (Br.).

## GRACILARIIDAE

## LITHOCOLLETIS Hübner

- L. BETULIVORA Wlsh. Bar Harbor, June-July (Br.). A blotch-miner in white birch leaves.
- L. HAMAMELIELLA Bsk. Bred from *H. virginiana*, June 17-21 (Br.).
- L. INCANELLA Wlshm. Bred June 3-16 (Br.). Blotch-miner on alder.
- L. MARTIELLA Braun. Bar Harbor, Aug. 9 (Br.).
- L. OSTENSACKENELLA Fitch. Blotch-miner of *Robina*. Bred June 28 (Br.).
- L. SALICIFOLIELLA Clem. The Blotch-miner of willow. Bar Harbor, Sept. 12 (Br.).
- L. TREMULOIDELLA Braun. Aug. 17-Aug. 20 (Br.). Bred from poplar.

## CAMERARIA

- C. ACERIELLA.* The Blotch Maple-miner. Bar Harbor, June 27-July 7 (Br.).
- C. ARCUELLA* Braun. Blotch-miner of oak. Bred June 1-9 (Br.).
- C. CORYLIELLA* Braun. Bred June 13 (Br.).

## PARECTOPA Clemens

- P. sp. May 19-July 16 (Br.).
- P. sp. Bar Harbor, July 21 (Br.).

## MARMARA Clemens

- M. SALICELLA* Clem.? Mt. Desert, July 12 (Br.). Fruit trees are probably the host.

## GRACILARIA Haworth

- G. ALNIVORELLA* Chamb. Mt. Desert, Aug. 20-Nov. 4 (Br.).
- G. ALNIVORELLA* var. *ALNICOLELLA* Chamb. Bar Harbor, May 11 (Br.).
- G. ALNIVORELLA* var. *PULCHELLA* Clem. Bar Harbor, Sept. 9 (Br.).
- G. ALNIVORELLA* var. *SANGUINELLA* Beut. Mt. Desert, May 13-July 23 (Br.).
- G. BIMACULATELLA* Ely. Bar Harbor, July 7 (Br.).
- G. CORNUSELLA* Fly. Mt. Desert, June 16 (Br.).
- G. ELONGELLA* Linn. Mt. Desert, June 21-Sept. 18 (Br.).
- G. FRAXINELLA* Ely. Bred from ash, July 31 (Br.).
- G. PACKARDELLA* Cham. Bar Harbor, Aug. 2 (Br.).
- G. PURPURIELLA* Chamb. Mt. Desert, July 7-10 (Br.). Larvae live on willow and poplar.
- G. STIGMATELLA* Fab. Apr. 30 July 25 (Br.).
- G. near STIGMATELLA AS PURPURIELLA* Cham. Bar Harbor, May 1 (Br.).
- G. SYRINGELLA.* Bred May 22 (Br.).
- G. VIOLACELLA* Clem. Bar Harbor, Aug. 6 (Br.).
- G. sp.* Fbs. Aug. 17 (Br.).

## ACROCEROPS Wallengren

A. ASTERICOLA F. & B. May 29 (Br.).

## PARORNIX Spuler

P. GUTTEA Haw. Mt. Desert, June 21 (Br.).

P. sp. Bar Harbor, Aug. 11-16 (Br.).

## LYONETIIDAE

## BUCCULATRIX Zeller. The Ribbed-Cocoon Makers

B. CANADENSISSELLA Cham. The Birch Leaf Skeletonizer. Bred June 3 (Br.).

B. CORONATELLA Clem.? June 10 (Br.).

B. ERRANS Braun? Bar Harbor, July 6 (Br.).

B. FUSICOLA Braun.? July 7-11 (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 MAGNELLA. July 11-Aug. 3 (Br.).

## PHYLLOCNISTIS Zeller

P. POPULIELLA Cham. Bar Harbor, Aug. The larva mines the leaves of poplars, making the beautiful serpentine markings.

## LYONETIA Hübner

L. SPECULELLA Clem. July 5 (Br.).

## TISCHERIIDAE

## OENOE Chambers

O. HYBROMELLA Chamb. Mt. Desert, July 18 (Br.).

## TISCHERIA Zeller

T. AEEA Frey & B. On blackberry, Aug. 19 (Br.). Blotch-miner on blackberry.

T. CITRINIPENNELLIA Clem. Bar Harbor, June 25 (Br.).

T. sp. Bar Harbor, Aug. 27 (Br.).

## PSYCHIDAE

SOLENOBIA Zeller

*S. WALSHIELLA* Clem. 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.

## PSYCHID

*P. gen. sp.* Newport Meadow Aug. Case an inch long.

## TINEIDAE

AMYDRIA Clemens

*A. EFFRENATELLA* Clem. N. E. Harbor (Minot); Bar Harbor (Br.), July 16–30.

## CHLOROPLECA Walsingham &amp; Durrant

*C. VESALIELLA* Chamb. Mt. Desert, July 7 (Br.).

## DIACHORISIA Clemens

*D. MACULATELLA* Dietz. Bar Harbor, July 29 (Br.).

## TINEOLA Herrich-Schaeffer

*T. BISSELLIELLA* Hum. The Clothes Moth. Common.

## MONOPIS Hübner

*M. BIFLAVIMACULELLA* Clem. N. E. Harbor, Aug. 22 (Minot); Bar Harbor (Br.), Aug. 22–Sept. 20.

*M. DORSISTRIGELLA* Clem. Bar Harbor, July 16 (Br.).

*M. IRRORELLA* Dietz. Bar Harbor, June 12 (Br.).

*M. MONACHELLA* Hbn. Eden, Aug. 7. Bar Harbor (Br.), July 20.

*M. RUSTICELLA* Hbn. May 26 (Br.). Bred from swallow's nest.

## TINEA Linnaeus

- T. ARCELLA Fab. July 1–Aug. 3 (Br.).  
 T. CLOACELLA Haw.? Bar Harbor, May 26 (Br.).  
 T. CROCEOVERTICELLA Cham. Bar Harbor, July 28–Aug. 4 (Br.).  
 T. FUSCIPUNCTELLA Haw. Bar Harbor, July 21 (Br.).  
 T. GRANELLA Linn. The European Grain-Moth. In nest of swallow, July 31, '38 (Br.).  
 T. MISSELLA Zell. Bar Harbor, July 3–27 (Br.).  
 T. OPHRIONELLA Dietz. Bred from birch trunk, July 17 (Br.).  
 T. PELLIONELLA Linn. The Fur Moth or Old-fashioned Clothes Moth. Common.  
 T. RILEYI Dietz. Bar Harbor, Aug. 10 (Br.).  
 T. TYLODES White. Mt. Desert, Aug. 11, 1933 (Br.). Larvae live under bark of dead alder.

## EUCLEIDAE

## PACKARDIA Grote &amp; Robinson

- P. ELEGANS Pack. Jordan Pond; Bar Harbor (Br.), June 10–27. The larva feeds on orchard and shade trees.  
 P. GEMINATA Pack. Bar Harbor, June 17. The larva feeds on wild cherry.

## LITHACODES Packard

- L. FASCIOLA H.-Sch. Bar Harbor; N. E. Harbor, July 11–24. The larva feeds on maple, apple, huckleberry, etc., but favors wild cherry.

## TORTRICIDIA Packard

- T. FLEXUOSA Grt. 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. Bar Harbor, July 4 (Br.).  
 T. PALLIDA H.-S. July 17 (Br.). Oak, willow and other trees are hosts.  
 T. TESTACEA Pack. N. E. Harbor, June 28. The larva feeds on oak, birch, wild cherry, etc.

## NEPTICULIDAE

## NEPTICULA von Heyden

*N. PALLIDA* Braun? July 28–Aug. 20 (Br.).

*N. POPULETORUM* F & B? June 7–July 4 (Br.). About poplar.

*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* Bsk.? Bar Harbor, Aug. 2 (Br.).

## INCURVARIDAE

## ADELA Latreille

*A. PURPURA* Wlk. 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.).

*A. RIDINGSELLA* Clem. Corfield, June 13; Bar Harbor, July 11 (Br.).

## PARACLEMENSIA Busck

*P. ACERIFOLIELLA* Fitch. Bred from birch June 5 (Br.).

## INCURVARIA Haworth

*I. sp.* near *MOROSA*. Bar Harbor, June 24, 1934 (Br.).

## HEPIALIDAE. The Ghost Moths

## HEPIALUS Fabricius

*H. GRACILIS* Grt. Mt. Desert, Aug. 4 (Br.). Rare.

*H. GRACILIS MUSTELINUS* Pek. Bar Harbor, July 27 (Br.).

## STHENOPIS Packard

*S. ARGENTEOMACULATUS* Harris. 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.

## ERIOCRANIIDAE

E. sp. Bar Harbor, Apr. 25 (Br.).

## MICROPTERYGIDAE

## MICROPTERYX Hübner

M. AURICRINELLA Walshm. Long Pond, July 27.

## ERIOCRAVIA Zeller

E. sp. Bar Harbor, Apr. 25, 1935 (Br.).

## PTYCHOPTERIDAE. The False Crane Flies

Look carefully in foliage around greenhouses and nurseries where there are compost heaps.

## PTYCHOPTERA Meigen

P. RUFICINCTA O. S. Bar Harbor, July 21-24; Echo Lake, Sept. 1-4 (Alexander).

## BITTACOMORPHA Westwood

B. CLAVIPES Fab. 'Phantom crane-fly.' Bar Harbor, July 21-26; Echo Lake, Sept. 1-14 (Alexander).

## BITTACOMORPHELLA Alexander

B. JONESI Johns. Long Pond, July 16; foot of Pickett's Mt., July 21. Section 28, July 30.

## 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

T. HIEMALIS DeGeer. Corfield, Oct.

## 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, Mr. Walter H. Harrison, the botanist, have made trips to the Island for a few days during the past three years. They Doctor Brower, and the writer, have collected together and separately, and while the 197 species fall short of our goal of 200, there is no doubt that the elusive three species, as well as others, will be found by the time the supplement to this list is published. We have had some of our happiest days in this search, which we shall continue. 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. FRONTALIS (O. S.). Great Head, alt. 80 ft., June 15 (A.).  
Not captured, but no doubt of identity.  
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.).

## NEPHROTONA 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. FERRUGINEA* (Fab.). Rhodora Meadow, June 15 (A); Camp Ground, Aug. 29–Sept. 3, 14 (B). Emerged from pupa, Oct. 4 (B). Corfield and Penikese, July 16 (P). Common, June 11–Aug. 29.
- 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. TENUIS* Loew. Northeast Harbor; Green Mt., Seal Harbor, June 26, July 25 (J). Camp Ground, June 30–Aug. 28 (B). Half Moon Pond, June 13 (P); Gorge Trail, July 28 (A).
- 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. (TRICHOTIPULA) ALGONQUIN* Alex. N. E. Harbor (Minot); Flying Mt. and Western Mt. (A), Aug 27–Sept. 8. Corfield, Aug 25–Sept. 25 (P).
- 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) SAYI Alex. (*COSTALIS* Say. preoccupied). Corfield at light, Aug. 13 (P).
- T. (YAMATOTIPULA) STREPENS Loew. Bar Harbor, June 8-17 (J).
- T. (YAMATOTIPULA) TEPHROCEPHALA Loew. Echo Lake (J); N. E. Harbor (Minot), June 17-July 12; Beaver Dam, June 13 (A); Canyon Brook, June 23 (A B & H), alt. 300 ft.
- T. (YAMATOTIPULA) VICINA Dietz. Rhodora Meadow, June 14 (A).
- 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).
- 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) ANGULATA Loew. S. W. Harbor, July 15 (J).
- T. (OREOMYZA) BOREALIS Wlk. (*hebes* Lw.). Station F214, Aug. 7 (P); Bar Harbor, Aug. 15 (B).
- T. (OREOMYZA) ENTOMOPHTHORAE Alex. (*simillissima* 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) FRAGILIS Loew. Corfield, Sept. 24-Oct. 13 (P); S. W. Valley, Hunters Beach, Witch Hole, and Camp Ground, Sept. 12-Oct. 5 (B); Gorge Trail, July 28 (B).
- 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) LATIPENNIS Loew. Common, July 11-26. Salisbury Cove, July 27 (A).
- 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. TERNARIA Lw. Bar Harbor, May 12 (B). New record for Maine.

- 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.
- T. (LUNATIPULA) BICORNIS Forbes. S. W. Harbor, June 21 (J).
- 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).
- T. (LUNATIPULA) TRIPLEX Wk. (*inermis* Doane). Common, July 17–Sept. 12 (P).
- T. (LUNATIPULA) VALIDA Loew. Corfield, July 21 (P).

## DOLICHOPEZA Curtis

- D. (DOLICHOPEZA) AMERICANA Needh. Duck Brook; S. W. Harbor; Long Pond, June 13–20 (J); Bubble Pond Inlet, June 16 (A).
- 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*) *VENOSA* (Johns.). Beaver Dam, Rhodora Meadow, and Bubble Brook, June 14–21 (P). Bubble Pond Inlet, Canada Brook, Duck Brook, June 16–24 (A).

## PHALACROCERA 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).

## 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*) *GLOBITHORAX* O. S. Echo Lake, Sept. 1 (A). Canyon Brook, June 23, and Echo Lake, Sept. 1 (A). Rare.  
 L. (*LIMONIA*) *HUDSONICA* (O. S.). Bar Harbor, Aug. 10 (J).  
 L. (*LIMONIA*) *IMMATURA* (O. S.). Bar Harbor, June 21 (J); Beech Mt., Sept. 12 (A); Beaver Dam, Sept. 11 (B).  
 L. (*LIMONIA*) *INDIGENA* (O. S.). Bar Harbor; Lond 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*) *PARIETINA* (O. S.). Beech Mt., Sept. 10 (A).  
 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*) *GIBSONI* (Alex.). Bar Harbor, S. W. Harbor, June 13–July 12. Penikese, alt. sea level to 10 ft., July 26.
- L. (*DICRANOMYIA*) *GLADIATOR* (O. S.). Bar Harbor; Narrows, July 24–27; Stations F220, F222 and F226, Sept. 15–Oct. 5 (P); Eagle Lake, Oct. 9 (B).
- 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 Monts Spring, head of Somes Sound, June 16–23 (A); Bar Harbor; Eden, Eagle Lake (J); Corfield at light, July 12–Sept. 1 (P).
- L. (*DICRANOMYIA*) *IMMODESTA* (O. S.). Salisbury Cove; N. E. Harbor (Minot); Echo Lake (A), July 14–Sept. 8.
- L. (*DICRANOMYIA*) *LIBERTA* (O. S.). Camp Ground, Bar Harbor, Rhodora Meadow, June 22–Sept. 24 (B); Corfield at light, June 18 (P). New to Maine.
- 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*) PUDICOIDES (Alex.). Canyon Brook, July 20–25 (A B & P). New record for Maine.
- L. (*DICRANOMYIA*) RUFIVENTRIS 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).
- L. (*DICRANOMYIA*) STULTA (O. S.). Duck Brook, Otter Cliff, Witch Hole, Canyon Brook, Gorge Trail, June 24–July 25 (A). Fernald Cove, Aug. 26; Beech Mt., Sept. 12 (A).
- L. (*DICRANOMYIA*) WALLEYI Alex. n.sp. Station F269 and Corfield at light, Sept. 25 (P). Meadow east of base of Champlain Mt., Sept. 14; Witch Hole, Sept. 12; Great Heath, Sept. 25–Oct. 2, Oct. 5 (B). New to the U. S.
- 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).

*PEDICIA* Latreille

- P. (*PEDICIA*) *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. n.sp. 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 (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). New to the Island.
- 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. (*AMALOPINA*) *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).
- D. (*EUDICRANOTA*) *PALLIDA* Alex. Canyon Brook, Camp Ground, June 20–30 (B). New record for Maine.
- D. (*RHAPHIDOLABIS*) *CAYUGA* (O. S.). S. W. Harbor, Aug. 30–Sept. 11 (A).
- 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*) *TENUIPES* (O. S.). Dry Mt., Echo Lake, Aug. 26–Sept. 10 (A); Station F238, Oct. 1 (P); Ent. Laboratory, Sept. 7 (B).

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. *CAYUGA* (Alex.). S. W. Harbor, Aug. 30–Sept. 11 (A).
- 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. HUDDSONICA 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).

## AUSTROLIMNOPHILA Alexander

- A. TOXONEURA (O. S.). Witch Hole, S. de Monts Spring, Rhodora Meadow, June 15–22 (A); Bar Harbor, June 13; Echo Lake, July 12 (J).
- 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).
- P. INORNATA (O. S.). Seawall Bog, June 19–July 5 (A); Aug. 4 (B); Witch Hole and Long Pond, June 13–20, July 25 (A), July 27 (B).
- P. NOVEBORACENSIS (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

- L. (*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).
- 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).
- L. (*ELAEOPHILA*) *JOHNSONI* Alex. Bubble Pond Inlet, June 16 (A). Rare.
- L. (*ELAEOPHILA*) *SOLSTITIALIS* Alex. Echo Lake, Sept. (A).
- L. (*PRIONOLABIS*) *MUNDA* O. S. Echo Lake, July 12 (J); Beech Mt., Sept. 10–12 (A).
- L. (*PRIONOLABIS*) *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).
- 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*) *NOVAE-ANGLIAE* Alex. In Procter collection at extremes of series of L. *lutea*.
- 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).

*SHANNONOMYIA* Osten Sacken

- 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).

*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).
- 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).

## 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) FLAVOFERRUGINEA O. S. Station F223, Sept. 24 (P); Rhodora Meadow, S. W. Harbor, Sept. 24–Oct. 9 (B).

## GNOPHOMYIA Osten Sacken

- G. TRISTISSIMA O. S. N. E. Harbor (Minot); Bar Harbor, July 8–22; 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. (LIPOPHLEPS) SULPHURELLA O. S. Rhodora 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).

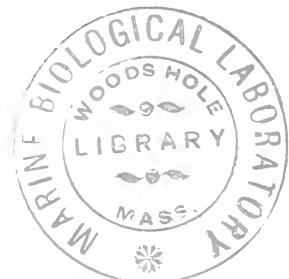
## ERIOPTERA Meigen

- 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).
- 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) ULIGINOSA Alex. Witch Hole, July 27 (B). Hitherto only from Conn., Mich. and Wisconsin.
- E. (ERIOPTERA) VESPERTINA O. S. Rhodora Meadow, June 14 (A).
- E. (ERIOPTERA) VIRIDULA Alex. Maple Swamp, Camp Ground, July 17-24 (B). New to Maine.
- E. (MESOCYPHONA) CALOPTERA Say. 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).
- 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).
- O. RUBELLA* (O. S.). Echo Lake (J); S. W. Harbor, Aug. 29–Sept. 10 (A). Rhodora Meadow, Sept. 24; Witch Hole, Sept. 12 (B).

*TASIOCERA* Skuse

- T. (DASYMOLOPHILUS) URSINUS* (O. S.). Witch Hole Brook, June 18–July 25 (A).

*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* Al. 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. HIRTIPENNIS* (O. S.). S. W. Harbor; Bar Harbor, July 11–17 (J). Beaver Dam, Bubble Brook, Seawall Bog, Canada Brook, Witch Hole Brook, S. de Monts Spring, June 13–22 (A).
- 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).

## ANISOPODIDAE. Meigen

On foliage and tree trunks around wet places is the place for these.

## ANISOPUS Meigen

A. ALTERNATUS Say. Bar Harbor; Corfield, Aug. 1–Sept. 9.

A. FENESTRALIS (Scop.). Laboratory window, Oct. 20.

## BLEPHAROCERIDAE. The Net-winged Midges

Found on foliage along the edges of swift streams.

## BLEPHAROCERA Macquart

B. TENUIPES Walk. Duck Brook, June 13.

## SIMULIDAE. The Black Flies

One collects these almost everywhere here in May and June without the slightest effort.

## SIMULUM Latreille

S. PARNASSUM Mall. Bar Harbor, July 11.

S. VENUSTUM Say. Bar Harbor; S. W. Harbor, June 7–25.

## PROSIMULUM Rouband

P. HIRTIPES Fries. Echo Lake; Green Mt., June 17–July 25.

## CHIRONOMIDAE. The Midges

Found for the greater part near water. Dusk is the collecting time.

## TANYPUS Meigen

T. CULCIFORMIS (L.). Bar Harbor, June 30. Searee.

T. CARNEA Fab. Bar Harbor, July 22–Sept. 13.

T. HIRTIPENNIS Loew. Bar Harbor, Sept. 13.

T. MELANOOPS Meig. Long Pond; Bar Harbor, June 27–July 19.

T. MONILIS Linn. Echo Lake, July 12.

*EUCYCNEMUS* Van der Wulp

*E. SCITULUS* Coq. Echo Lake, June 17.

*CHASMATONOTUS* Loew

*C. BIMACULATUS* O. S. Echo Lake, July 12.

*C. UNIMACULATUS* Loew. Bar Harbor; N. E. Harbor; Echo Lake, June 22-July 24.

*CHIRONOMUS* Meigen

*C. ANNULARIS* DeG. Bar Harbor, June 13.

*C. BRACHIALIS* Coq. Bar Harbor, Aug. 10.

*C. CRISTATUS* Fab. Bar Harbor; S. W. Harbor, June 16-Aug. 23.

*C. DEVINCTUS* Say. Echo Lake, July 12.

*C. DISPAR* Meig. Jordan Pond; Echo Lake, June 10-July 12.

*C. DUX* Johan. Bar Harbor, July 20.

*C. FALLAX* Johan. Duck Brook, June 13.

*C. MODESTUS* Say. Bar Harbor, June 11.

*C. NIGRICANS* Johan. S. W. Harbor, July 13-Sept. 10.

*C. PEDELLUS* DeG. Bar Harbor, July 22-24.

*C. PULCHRIPENNIS* Coq. Echo Lake, July 12.

*C. QUADripunctatus* Mall. Bar Harbor, July 10.

*C. TAENIAPENNIS* Coq. Echo Lake, July 12.

*C. VARIPENNIS* Coq. Seal Cove Brook, Sept. 8.

*C. VIRIDICOLLIS* V.d.W. Bar Harbor, June 13.

*C. ZONOPTERUS* Mitch. Echo Lake, June 12.

*C. TENDENS* Fab. S. W. Harbor, Aug. 30-Sept. 1 (Alexander).

## CERATOPOGONIDAE. The Biting Midges

This is a family that one can collect without much searching. Just meander around near water at dusk.

*FORCIPOMYIA* Meigen

*F. SQUAMIPES* Coq. 'Mt. Desert,' July 31 (McAtee).

## DASYHELEA Kieffer

D. MUTABILIS Coq. 'Mt. Desert,' July 30 (McAtee).

## CULICOIDES Latreille

C. SANGUISUGA Coq. Long Pond, July 16.

## CERATOPOGON Meigen

C. FUSINERVIS Mal. New Mill Pond in spatterdock (*Nymphaea advena*), July, '33. Scarce.

C. LEVIS Coq. Bar Harbor, June 22-July 28.

## SERROMYIA Meigen

S. FEMORATA Meig. S. W. Harbor, July 13.

## HETEROMYIA Say

H. FLAVIPES Meig. Bar Harbor, June 11.

H. PLEBIA Loew. Bar Harbor, Aug. 18.

H. RUFa Loew. Witch Hole Pond, June 13.

H. TRIVIALIS Loew. Salisbury Cove, July 15.

## PALPOMYIA Meigen

P. NEBULOSA Mall. Bar Harbor, July 21.

## JOHANNSENOMYIA Malloch

J. BIMACULATA Loew. Bar Harbor, Aug. 10.

## PROBEZZIA Kieffer

P. XANTHOGASTER Kieff. (*P. elegans* Coq.). Jordan Pond, June 10.

## PSYCHODIDAE. The Moth Flies

Sweep foliage in shady swamps for these small creatures.

## PSYCHODA Latreille

P. CINEREA Banks. S. W. Harbor, June 18.

P. SIGNATA Banks. Long Pond; Echo Lake; Bar Harbor, June 27-July 24.

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. MODESTA Johan. Jordan Pond, June 10; S. W. Harbor, Aug. 30-Sept. 10 (Alexander).

D. FUSCA Loew. Flying Mt., Aug. 26 (Alexander).

D. sp. Corfield, Sept. 8.

## CULICIDAE. The Mosquitoes

## 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.

C. TRIVITTATUS Loew. Duck Brook, Sept. 11, 1922. Another non-biting species.

## ANOPHELES Meigen

- A. MACULIPENNIS Meig. Outlet of Long Pond, June 20, 1921. This is one of the malaria carriers. As but one specimen was taken, it is apparently rare on the Island.
- 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. 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. 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 among the most troublesome of the family.
- A. sp. S. W. Harbor, May 25 (Br.).
- A. sp. S. W. Harbor, Aug. 8 (Br.).

## WYEOMYIA Theobald

- W. SMITHII 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.

## AËDES Meigen

- A. ATROPALpus Coq. 'Rock-pool mosquito.' Bar Harbor, July 10. The larva lives in holes in the rocks. The winter is passed in the egg state attached to rocks.
- A. AURIFER Coq. 'Golden-scaled mosquito.' North end of Long Pond, June 26. The larva lives in spring pools. It passes the winter in the egg state.

- A. CANTATOR Coq. 'Brown salt-marsh mosquito.' Narrows; Bar Harbor; 'Great Heath'; S. W. Harbor, June 9-Aug. 23.
- A. DIANTAEUS Howard, Dyar & Knab. Bar Harbor; S. W. Harbor, June 7-25. The larvae live in pools in woods. The winter is passed in the egg.
- 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. 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. LAZARENSIS Felt & Young. Bar Harbor; S. W. Harbor; Echo Lake, June 7-26. The larvae live in pools in the woods in early spring. The winter is passed in the egg.
- 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. 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. 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.

## 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 larva.

## CULEX Linnaeus

- C. RESTUVANS Theob. Bar Harbor, Aug. 31 (Br.).
- C. TERRITANS Walk. Bar Harbor, Sept. 10. The larva lives in puddles and water barrels.

## CECIDOMYIIDAE. 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.  
 L. DYARI Felt. Bar Harbor, July 22, 1912.  
 L. SOLIDAGINIS Felt. Bar Harbor, July 22, 1919.

## CATOCHA Haliday

- C. sp. N. E. Harbor, July 8.

## CORDYLOMYIA Felt

- C. TUMIDA Felt. N. E. Harbor, July 8 (Minot).

## ASTEROMYIA Felt

- A. CARBONIFERA Felt. Common. An oval black, ocellate blister-gall on the leaves of *Solidago*.

## LASIOPTERA Meigen

- L. SPIRAEAFOLIA Felt. Bar Harbor. A blister-leaf gall on *Spiraea latifolia* (meadow sweet).

## NEOLASIOPTERA Felt

- N. RAMUSCULA Beutm. Aster stem gall. S. W. Harbor.  
 Fusiform stem galls on asters.

## RHABDOPHAGA Westwood

- R. BATATAS Walsh. Willow potato-gall. S. W. Harbor; Salisbury Cove, Aug. 5 (Sanford).  
 R. BRASSICOIDES Walsh. Willow cabbage-gall. Bar Harbor; Salisbury Cove, Aug. 5 (Sanford).  
 R. SALICIFOLIA Felt. Spiraea pod-gall. Salisbury Cove; Bar Harbor.  
 R. STROBILOIDES Walsh. Cone willow-gall. Common, a cone-like gall on willow.  
 R. TRITICOIDES Walsh. Wheat-ear willow-gall. Bar Harbor, July 10.

## DASYNEURA Rondani

D. GAYLUSSACII Felt. Blueberry leaf-gall. Common.

## HORMOMYIA Loew

H. CANADENSIS Felt. Shad-bush gall. Corfield.  
H. sp. Great Heath, Oct. 2 (Br.).

## PORRICONDyla Rondani

P. SYLVESTRIS Felt. Bar Harbor, Aug. 12, 1921.  
P. sp. N. E. Harbor, Aug. 6 (Minot).  
P. sp. Bar Harbor, June 6.

## PHYTOPHAGA Rondani

P. RIGIDAE O. S. Beaked willow-gall. Bar Harbor; Salisbury Cove.

## OLIGOTHROPHUS Latreille

O. sp. Long Pond, June 20.

## RHOPALOMYIA Rübsaamen

R. LANCEOLATA Felt. Bred ex *Solidago* gall (Br.), Sept. 18.

## ASPHONDYLIA Loew

A. ANTENNARIAE Wheeler. Everlasting-bud gall. Bar Harbor, Aug. 15. Corn-shaped bud gall on everlasting (*Antennaria plantaginifolia*).

## CINCTICORNIA Felt

C. MAGALIS O. S. Oak-vein gall. Bar Harbor. A vein gall on the leaves of the red oak.  
C. PILULAE Walsh. Oak-pill gall. Bar Harbor; Penikese. Round, hard, rough galls on the leaves of the red oak.

## CONTARINIA Rondani

- C. CANADENSIS Felt. Ash-midrib gall. Bar Harbor, June.
- C. VIRGINIANAE Felt. Choke-cherry midge. Salisbury Cove. This midge causes swollen deformed fruit on the choke-cherry.
- C. SPIRAEINA Felt. Spiraea cabbage-gall. S. W. Harbor. A terminal cabbage-like bud-gall.

## MYCODIPLOPSIS Rübsaamen

- M. POPULIFOLIA Felt. Salisbury Cove; Bar Harbor, Aug. Bullet-like swelling at the base of poplar leaves.

## OBOLODIPLOPSIS Felt

- O. ROBINIAE Hald. Locust-leaf midge. Salisbury Cove, July 14. Forming rolled leaf-margins on locust (*Robinia pseudoacacia*).

## RETINODIPLOPSIS Kieffer

- R. INOPIS O. S. Bred from *Pinus rigida* twigs (Br.).

CECIDOMYIA Meigen (*Itonida* Meigen)

- C. NIVEIPILA O. S. 'Oak fold gall.' Salisbury Cove, Aug. An irregular white pubescent gall on the under side of the leaf, with a fold on the upper side.
- C. OCELLARIS O. S. 'Maple leaf-spot.' Common. A yellow red margined blister leaf-gall.
- C. PELLEX O. S. Ash bullet gall. Bar Harbor. Round red gall on the midrib.
- 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.
- C. sp.? Toothed purse gall. Common. A flattened pouch gall on the leaves on the shad-bush (*Amelanchier*).

## TRISHORMOMYIA Kieffer

- T. CANADENSIS Felt. 'June-berry lipped gall.' S. W. Harbor; Bar Harbor, June. A truncated red-lipped gall on the shad-bush (*Amelanchier canadensis*).

## SCIARIDAE. The Dark-Winged Fungus Gnats

Any moist place where fungus grows is their habitat.

## ZYGONEURA Meigen

Z. FLAVICOXA Johan. Bar Harbor, July 22.

## SCIARA Meigen

S. FUMIDA Johan. Bar Harbor, July 22.

S. HABILIS Johan. N. E. Harbor, July 4 (Minot).

S. HASTATA Johan. Bar Harbor, July 22.

S. OCHROLABIS Loew. Bar Harbor, June 11.

S. SCIOPHILA Loew. Bar Harbor, Aug. 16.

S. SYLVESTRIS Kieffer. Echo Lake, July 12.

S. VARIANS Johan. N. E. Harbor, Aug. 11 (Minot).

## MYCETOPHILIDAE. The Fungus Gnats

Are found in moist places such as mossy rocks along woodland brooks.

## BOLITOPHILA Meigen

B. DISJUNCTA Loew. Bar Harbor; Seal Cove, June 11–Sept. 10.

B. MONTANA Coq. Bar Harbor, June 7.

B. sp. Station F190.

## DIADOCIDIA Ruthe

D. FERRUGINOSA Meig. Long Pond, June 27.

## MACROCERA Meigen

M. CLARA Loew. Bar Harbor, July 20–Aug. 10.

M. FORMOSA Loew. 'George,' Green Mt., July 25.

M. HIRSUTA Loew. Bar Harbor, July 20.

M. INCONCINNA Loew. Echo Lake; Bar Harbor, June 15–July 20.

M. NEBULOSA Coq. Bar Harbor; Green Mt.; S. W. Harbor, June 20–July 26.

*ASINDULUM* Winnertz

- A. COXALE Loew. Bar Harbor; Salisbury Cove, Aug. 10-11.  
 A. MONTANUM Roeder. Green Mt.; S. W. Harbor; N. E. Harbor (Minot), Aug. 17-25.

*CEROPLATUS* Bosc

- C. CLAUSUS Coq. Sieur de Monts Spring, Sept. 13.  
 C. MILITARIS Johan. Sieur de Monts Spring, Sept. 13.  
 C. sp. Record of capture lost.

*PLATYURA* Meigen

- P. GENERALIS Johan. N. E. Harbor, July 12 (Minot).  
 P. MENDOSA Loew. Bar Harbor; Long Pond, July 21-Aug. 10.  
 P. FASCIPENNIS var. SAGAX Johan. Salisbury Cove, July 27.

*APEMON* Johannsen

- A. MANTERI Johns. One taken Duck Brook falls, June 23, '35 (Alexander). Said to be the third record.

*SYMMERUS* Walker

- S. TRISTIS Loew. Bar Harbor, Aug. 10.

*MYCOMYA* Rondani

- M. APPENDICULATA Loew. Duck Brook, Sept. 11.  
 M. HIRTIOLLIS Say.? Echo Lake, June 17.  
 M. IMITANS Johan. Echo Lake; S. W. Harbor; Bar Harbor, July 17-Sept. 10.  
 M. INCOMPITA Johan. Bar Harbor, June 15.  
 M. LITTORALIS Say. Bar Harbor, June 13-Aug. 15.  
 M. OBLIQUA Say. Bar Harbor, July 22-30.  
 M. ONUSTA Loew. N. E. Harbor, June 30 (Minot).  
 M. SEQUAX Johan. Duck Brook, June 13.  
 M. TANTILLA Loew. 'Mt. Desert,' July 30 (McAtee).

*EUDICRANA* Loew

*E. OBUMBRATA* Loew. Bar Harbor, June 14.

*NEURATELIA* Rondani

*N. SCITULA* Johan. Bar Harbor, June 15; S. W. Harbor, July 20.

*ALLOCOTOCERA* Mik

*A. PARVULA* Coq. Green Mt., Aug. 17.

*DIOMONUS* Walker

*D. BIFASCIATUS* Say. Bar Harbor at light (Br.), Aug. 23.

*POLYLEPTA* Winnertz

*P. OBEDIENS* Johan. Bar Harbor, July 21.

*SYNTEMNA* Winnertz

*S. POLYZONA* Loew. Bar Harbor, July 21.

*SCIOPHILA* Meigen

*S. GLABANA* Johan. Echo Lake; Bar Harbor, July 17-22.

*S. PALLIPES* Say. N. E. Harbor, Aug. 11 (Minot).

*MONOCLONA* Mik

*M. ELEGANTULA* Johan. Bar Harbor, Aug. 10.

*ACNEMIA* Winnertz

*A. FLAVIOLA* Coq. Long Pond, July 16-21.

*BOLETINA* Staeger

*B. TRICINCTA* Loew. Echo Lake; Bar Harbor; Green Mt., July 12-25.

*B. NOTESCENS* Johan. Bar Harbor, July 21.

*RONDANIELLA* Johannsen

*R. SORORCULA* Loew. Record of capture lost.

## LEIA Meigen

- L. MELAENA Loew. Duck Brook, Aug. 18.  
 L. OBLECTABILIS Loew. Bar Harbor; N. E. Harbor (Minot),  
     July 24–Aug. 11.  
 L. OPIMA Loew. N. E. Harbor (Minot); Echo Lake; Bar  
     Harbor, July 4–Sept. 11.  
 L. SUBLUNATA Loew. Bar Harbor, July 21.  
 L. VENTRALIS Say. Narrows, Aug. 13.  
 L. WINTHEMII Lehm. N. E. Harbor, Aug. 11–27 (Minot).

## EXECHIA Winnertz

- E. AUXILIARIA Johan. Long Pond, June 27.  
 E. BELLULA Johan. Long Pond, June 27.

## BRACHYPEZA Winnertz

- B. BISIGNATA var. DIVERGENS Johan. Bar Harbor, June 11.

## ALLODIA Winnertz

- A. ELATA Johan. Green Mt., July 25.

## CORDYLA Meigen

- C. VOLUCRIS Johan. Duck Brook, Sept. 11.

## TRICHONTA Winnertz

- T. PERSPICUA V.d. Wulp. Bar Harbor, June 11.

## MYCETOPHILA Meigen

- M. FASTOSA Johan. Bar Harbor, July 21.  
 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. PUNCTATA Meig. Bar Harbor, July 20.  
 M. SCALARIS Loew. Bar Harbor; Salisbury Cove, June 15–  
     Sept. 11.

- M. SOCIA* Johan. 'Mt. Desert,' July 30 (McAtee).  
*M. TRICHONOTA* Loew. Bar Harbor; Echo Lake, June 14–Sept. 11.  
*M. ICHNEUMONEA* Say. S. W. Harbor, Sept. 6.  
*M. IMPELLANS* Johan. Bar Harbor, Aug. 10.

SCEPTONIA Winnertz

- S. NIGRA* Meig. 'Mt. Desert,' July 30 (McAtee).

BIBIONIDAE. The March Flies

Also found around decaying vegetable matter in which they breed.

PLECIA Weideman

- P. HETEROPTERA* Say. S. W. Harbor; Echo Lake; Bar Harbor, Sept. 7–13. There was a hatch at Corfield, Sept. 17.

BIBIO Latreille

- B. BASALIS* Loew. Bar Harbor; Echo Lake; S. W. Harbor, June 11–24.  
*B. LONGIPES* Loew. S. W. Harbor, Sept. 6.  
*B. SLOSSONAE* Coc. Record of capture lost.  
*B. VARIABILIS* Loew. Bar Harbor, Echo Lake; June 8–17.

SCATOPSIDAE. The Minute Black-Scavengers

These are scavengers and breed in decaying matter of various kinds.

REICHERTELLA Enderlein

- R. FEMORALIS* Meig. S. W. Harbor, July 14. .

SCHWAMMERDAMELLA Enderlein

- S. BREVICORNIS* Meig. S. W. Harbor; Narrows; Bar Harbor, July 11–Aug. 18.

RHEGMOCLEMA Enderlein

- R. ATRATA* Say. 'Mt. Desert,' July 31 (McAtee).

## ALDROVANDIELLA Enderlein

*A. HALTERATA* Meig. 'Mt. Desert,' July 30 (McAtee).

## RACHICERIDAE

Found in woods. But one genus is in the family and about a half dozen species known from the Nearctic region.

## RACHICERUS Walker

*R. NITIDUS* Johns. Foot of Picket Mt.; Bar Harbor, July 29.

## STRATIOMYIDAE. The Soldier 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.

## ALLOGNOSTA Osten Sacken

*A. BREVICORNIS* Johns. Penikese; Eden, July 10-Aug. 1.

*A. FUSCITARSIS* Say. S. W. Harbor; Bar Harbor, June 22.

*A. OBSCURIVENTRIS* Loew. Bar Harbor; N. E. Harbor (Minot), June 7-26.

## ODONTOMYIA Meigen

*O. CINCTA* Oliv. Narrows, June 26; July 17, pupa, imago, July 21.

*O. PUBESCENS* Day. S. W. Harbor; Narrows, Eden, June 9-July 13.

*O. VIRGO* Oliv. S. W. Harbor, July 11.

## STRATIOMYIA Geoffroy

*S. BADIA* Walk. Common on flowers, July 12 to Aug. 5.

## PEDICELLA Bigot

*P. CUPRINUS* Linn. Eden, July 12-Aug. 10.

*P. DECORUS* Say. Eden, Bar Harbor, June 9-16.

## MICROCHRYSA Loew

M. POLITA Linn. Common, July 17–Aug. 15.

## COENOMYIIDAE

Search for these around wet places in woods. Larvae live in decaying wood.

## XYLOPHAGUS Meigen

X. RUFIPES Loew. Strawberry Hill; Bar Harbor, June 9, 1921.

## TABANIDAE

## BUPLEX Austen

B. TRANQUILLA O. S. Common, July 20–Aug. 13.

## 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. CALLIDA O. S. Salisbury Cove, July 24–Aug. 7.
- C. CARBONARIA O. S. Common, June 11–July 15.
- C. CELER O. S. Salisbury Cove, July 13–Aug. 11.
- C. EXCITANS Walk. Common, June 7–July 20.
- C. FRIGIDA O. S. Common, June 9–July 18.
- C. FULIGINOSA Wied. Narrows, June 26; S. W. Harbor, July 9 (Fernald).
- C. LATERALIS Wied. (*hilaris* O. S.). Salisbury Cove; Bar Harbor, July 14–Aug. 12.
- C. MITIS O. S. Sargent Mt.; Bar Harbor, June 7–July 10.
- C. NIGER Maeq. S. W. Harbor, June 21–July 10.
- C. STRIATA O. S. Bar Harbor; Eden, July 20–25; Penikese, Aug. 5.
- C. VITTATA Wied. Bar Harbor; Salisbury Cove, July 13–Aug. 10.

## TABANUS Linnaeus. Horse Flies

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. CINCTUS 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. LASIOPHTHALMUS Macq. Common, June 7-July 22.  
T. LONGIGLOSSUS Phil. Bar Harbor, July 25 (Br.).  
T. MICROCEPHALUS O. S. Common, July 24-Aug. 26.  
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. NUDUS McD. One specimen taken at N. E. Branch. A distribution record.  
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. Searee.  
T. SEPTENTRIONALIS Loew. S. W. Harbor; Echo Lake; Narrows, July 15-Aug. 23. Fairly common.  
T. THORACIEUS Hine. S. W. Harbor, July 25 (Br.).  
T. TREPIDUS McD. Sec. 28; Stations F200 and F255, June 24-July 21.  
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.

## RHAGIONIDAE. The Snipe Flies

A woodland form where there is plenty of foliage and ground growth.

RHAGIO Fabricius (*Leptis* Fabricius)

R. GRACILIS Johns. Sieur de Monts Spring; Duck Brook, July 22–Aug. 18.

R. MYSTACEA Macq. Common, June 13–July 4.

## CHrysopilus Maequart

C. QUADRATUS Say. Common, July 8–20.

## 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).

## 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 Rondani

L. BADIUS Loew. Salisbury Cove, July 24, 1925; Mt. Desert, Aug. 5 (Br.).

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.

## CYRTOPOGON Loew

- C. ALLENI Baek. 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. LUTATIUS Walk. Upper Hadlock Pond; Bar Harbor, June 10-July 29.
- C. TENUIS Bromley. S. W. Harbor, July 20, 1923. The type locality.

## POGONOSOMA Rondani

- P. RIDINGSII Cress. Seal Harbor (Prof. Edw. S. Morse). Rare and not a sea level form.

BOMBOMIMA Enderlein (*Dasyllis* Loew)

- B. INSIGNIS Banks. Common, June 17-Aug. 22.
- B. FLAVICOLLIS Say. Bar Harbor; S. W. Harbor; Station F104, June 11-Aug. 16.
- B. POSTICATA Say. Station F116. Common.
- B. POSTICATA var. SCUTELLARIS Bromley. Morrell Park, Sept. 18.
- B. SACRATOR Walk. Eden, Aug. 7; Fawn Pond, Aug. 16. Searee.

## LAPHIRIA Meigen

- L. AEATUS Walk. S. W. Harbor, Aug. 8, 1910 (Fernald).
- L. ALTITUDINUM Bromley. Bar Harbor, June 16.
- L. CANIS Will. Common, June 25-Aug. 17.
- L. GILVA Linn. Bar Harbor; Salisbury Cove, July 18-Aug. 14.
- L. INDEX McAtee. Record of capture lost.
- L. JANUS McAtee. Common, June 7-July 24.
- L. SADALES Walk. Bar Harbor, July 29.
- L. SCORPIO McAtee. Bar Harbor; S. W. Harbor, Corfield, July 6-Aug. 22.
- L. SERICEA Say. S. W. Harbor (Fernald).

## ASILUS Linnaeus

- A. NOTATUS Wied. Common, June 20–Aug. 26.  
 A. NOVAE-SCOTIAE Macq. Eden; Bar Harbor, July 24–Aug. 18.  
 A. ORPHNE Walk. Echo Lake, June 27.  
 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.  
 A. SNOWII Hine. Bar Harbor; Eden, July 10–15.

## 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. COMOTA Loew. Corfield at light, July 6.

## 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 Seopoli

- A. OEDIPUS Fab. Bar Harbor; Tremont, July 29–Aug. 23.  
 Parasitic in the nests of solitary wasp (*Odynerus*).

## EXOPROSOPA Macquart

- E. CAPUCINA (Fab.). S. W. Harbor; Salisbury Cove, July 15.  
 E. CALYPTERA Say. Section 28, July 20. Rare.

## POECILANTHRAX Osten Sacken

- P. TEGMINIPENNIS Say. One taken in a sand pit at Sea Wall, Aug. 24, '35.

## THYRIDANTHRAX Osten Sacken

**T. ALTERNATA** Say. Station F260; Wood road Eden, July 31-Aug. 8.

VILLA Lioy (*Anthrax* of authors)

**V. ALTERNATA** (Say). Bar Harbor, July 20.

**V. HYPOMELAS** Macq. S. W. Harbor, Aug. 5-22. This has been bred from one of the cut-worms.

**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.

**V. FULVIANA** var. **NIGRICAUDA** (Loew). Common, July 19-Sept. 6.

**V. TEGMINIPENNIS** (Say). S. W. Harbor, July 17-Aug. 21 (Fernald).

**V. MORIO** (Linn.). Bar Harbor; Eden; S. W. Harbor, June 11-July 17.

## BOMBELIUS Linnaeus

**B. MAJOR** Linn. Morrell Park on 'bluets,' May 27; Station F236.

**B. PYGMAEUS** Fab. Bar Harbor, June 7-11. Morrell Park, May 27; Newport Meadow, June 11.

## 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.

## OGCODES Latreille

**O. PALLIDIPENNIS** Loew. Long Pond; Eden, July 16-Aug. 7.

**O. COSTATUS** Loew. S. W. Harbor, July 15; Eden, June 25-July 13 (C. H. Blake); Bar Harbor (Br.), July 2.

## OBSEBIUS Costa

**O. PTERODONTINUS** O. S. Top of Robinson Mt., May 1, 1912 (Fernald).

## ACROCERA Meigen

- A. BULLA* Westwood. Mt. Desert mating pair, July 20, '22 (Br.).  
*A. OBSOLETA* Wulp. Gt. Heath (Br.), Aug. 4, '35, near spider's web.  
*A. n.sp.* Mt. Desert, Aug. 6, '37 (Br.).

## EMPIDAE. The Dance Flies

Very common on shores, moist woods, mossy patches, and the various species vary in their habitat.

## SYNECHES Walker

- S. SIMPLEX* Walk. Salisbury Cove, July 15.

## SYNDYAS Loew

- S. DORSALIS* Loew. Breakneck Pond, Sept. 8.  
*S. POLITA* Loew. S. W. Harbor; Echo Lake, July 11-12.

## HYBOS Meigen

- H. SLOSSONAE* Coq. S. W. Harbor, July 13-30.

## EUYBOS Coquillett

- E. TRIPLEX* Walk. S. W. Harbor; Bar Harbor, June 21-July 26.

## BICELLARIA Macquart

- B. PHILIPES* Loew. Salisbury Cove; S. W. Harbor, July 27-Aug. 26.

## LEPTOPEZA Macquart

- L. COMPTA* Coq. S. W. Harbor; N. E. Harbor; Echo Lake, June 16-July 12.

- L. FLAVIPES* Meig. Bar Harbor; Echo Lake, June 7-27.

*OXYDROMIA* Meigen

*O. GLABRICULA* Fall. Echo Lake; Bar Harbor; Narrows, July 12–27.

*OEDAELA* Meigen

*O. OHIOENSIS* Mel. Echo Lake, June 7.

*ANTHALIA* Zetterstedt

*A. FLAVA* Coq. S. W. Harbor; Long Pond, June 24–July 16 .

*TRICHINA* Meigen

*T. FLAVIPES* 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.

*OREOGETON* Schiner

*O. OBSCURA* Loew. Jordan Pond; Long Pond, June 10–27.

*O. RUF'A* Loew. Jordan Pond; Long Pond, June 10–July 10.

*HILARA* Meigen

*H. FEMORATA* Loew. Bar Harbor, June 8–15.

*H. GRACILIS* Loew. Common, July 30–Aug. 26.

*H. LEUCOPTERA* Loew. Narrows; Pretty Marsh, June 9–20.

*H. TRISTIS* Loew. Common, June 13–July 16.

*EMPIS* Linnaeus

*E. NUDA* Loew. Echo Lake, June 27.

*E. RUFESCENS* Loew. Common, June 7–July 17.

*E. LONGIPES* Liv. Echo Lake, July 17.

*E. sp.* Station F241, April 21.

## RHAMPHOMYIA Meigen

- R. AMPLIPEDIS Coq. Bar Harbor; S. W. Harbor, June 13–20.  
R. AMERICANA Wied. S. W. Harbor, June 24.  
R. APERTA Loew.  
R. ARCUATA Coq. Seal Harbor, Sept. 8.  
R. BASALIS Loew. Bar Harbor; Echo Lake, June 7–July 12.  
R. CANDICANS Loew. S. W. Harbor; Long Pond, July 10–17.  
R. DEBILIS Loew. N. E. Harbor; Long Pond, June 29–July 16.  
R. GILVIPES Loew. Bar Harbor; S. W. Harbor; Long Pond,  
June 13–July 16.  
R. GRACILIS Loew. N. E. Harbor; Bar Harbor, July 26–Aug. 18.  
R. IRREGULARIS Loew. Long Pond, June 27.  
R. LITURATA Loew. Bar Harbor, June 8.  
R. LUTEIVENTRIS Loew. Bar Harbor, S. W. Harbor, Echo Lake,  
June 13–27.  
R. MANCA Coq. Echo Lake; Bar Harbor; Salisbury Cove,  
July 12–27.  
R. MUTABILIS Loew. Bar Harbor; Long Pond, June 16–July 16.  
R. PHEMIUS Walk. Bar Harbor; Echo Lake, June 15–17.  
R. PRIAPULUS Loew. Bar Harbor; Echo Lake; S. H. Harbor,  
June 13–July 10.  
R. PULLA Loew. Bar Harbor; Long Pond; S. W. Harbor,  
June 9–July 30.  
R. PUSIO Loew. S. W. Harbor, June 24.  
R. RUSTICA Loew. Bar Harbor; Long Pond, Aug. 18–21.  
R. SETOSA Coq. Bar Harbor, June 9–July 17.  
R. TERSA Coq. S. W. Harbor, June 24.  
R. UMBROSA Loew. Long Pond, June 27.  
R. VALGA Coq. Bar Harbor, June 7.  
R. VARA Loew. S. W. Harbor; Echo Lake, June 20–27.  
R. VIRGATA Coq. S. W. Harbor, June 21.

## CLINOCERA Meigen

- C. CONJUNCTA Loew. Green Mt., July 25.  
C. CTENISTES Mel. Bar Harbor; Duck Brook, June 4–13.

## CHELIPODA Macquart

C. ELONGATA Mel. Echo Lake; S. W. Harbor, July 12–Sept. 3.

## HEMERODROMIA Meigen

H. NOTATA Loew. Long Pond, July 16–Aug. 21.

H. PALLORIS Coq. Bar Harbor; Duck Brook, July 20–30.

H. SCAPULARIS Loew. Jordan Pond; Long Pond, June 10–July 16.

## TACHYPEZA Meigen

T. ROSTRATA Loew. Bar Harbor; N. E. Harbor (Minot), June 1–Sept. 5.

## PLATYPALPUS Macquart

P. AEQUALIS Loew. Narrows, July 27.

P. CRASSIFEMORIS Fitch. S. W. Harbor, July 13.

P. FLAVIROSTRIS Loew. Echo Lake; Green Mt., July 12–25.

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. SPECTABILIS Mel. Narrows, July 27.

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 rotten wood.

SCIAPUS Zeller (*Psilopus* Meigen)

S. TENER Loew. Salisbury Cove, July 15.

S. CAUDATUS Wied. Salisbury Cove, July 15–25.

S. FLAVIPES Aldr. Salisbury Cove, July 15.

S. SCROBINATOR Loew. Common, July 12–25.

*DOLICHOPODUS* Latreille

- D. ALBICILIATUS Loew. Bar Harbor, June 13–Sept. 9.
- D. ADULTUS Van D., Cole & Aldr. Echo Lake, June 17.
- D. BREVIAMANUS Loew. Penikese, July 11.
- D. CANADENSIS Van D., Cole & Aldr. Penikese, July 14; S. W. Harbor.
- D. CALAINUS Mel. & Brues. Bar Harbor, July 10.
- D. COMATUS Loew. Common, June 11–Sept. 7.
- D. CUPRINUS Wied. Bar Harbor; Narrows, July 22–27.
- D. DEFLECTUS Van D., Cole & Aldr. Bar Harbor, Sept. 9.
- D. DISCIFER Stannius. Common, June 13–July 27.
- D. FULVIPES Loew. Common, June 13–July 15.
- D. IDONEUS Van D., Cole & Aldr. Bar Harbor, June 30–Aug. 18.
- D. INDIGENA Van D., Cole & Aldr. Bar Harbor, Aug. 18.
- D. LONGIMANUS Loew. Echo Lake; Bar Harbor, July 10–22.
- D. MARGINATUS Aldr. Bar Harbor; 'Narrows,' June 13–July 27.
- D. MELANOCERUS Loew. Witch Hole Pond; Bar Harbor, July 30–Sept. 13.
- D. MULTISETOSUS Van D., Cole & Aldr. Bar Harbor, July 10.
- D. ORNATIPENNIS Van D., Cole & Aldr. 'Heath,' Salisbury Cove; Duck Brook, Aug. 9–18.
- D. PALESTRICTUS Loew. Penikese, July 11.
- D. PENICILLATUS Van D., Cole & Aldr. Penikese, July 11.
- D. PLUMIPES Scop. S. W. Harbor, July 15.
- D. PORPHYROPS Van D., Cole & Aldr. S. W. Harbor, June 16.
- D. PUGIL Loew. Tremont; Narrows, June 9–July 27.
- D. RAMIFER Loew. S. W. Harbor, July 13.
- D. REMIPES Wohlb erg. Witch Hole Pond; Bar Harbor, July 26–30. On water-lily pads.
- D. SCOPARIUS Loew. Duck Brook; Bar Harbor, June 13–22.
- D. SETIFER Loew. S. W. Harbor; Salisbury Cove, July 13–15.
- D. SETOSUS Loew. S. W. Harbor, July 13.
- D. SINCERUS Mel. Long Pond; Bar Harbor, July 16–Aug. 18.
- D. SLOSSONAE Van D., Cole & Aldr. Echo Lake; Bar Harbor, June 17–July 21.

- D. SOCIUS Loew. S. W. Harbor; Long Pond, July 15–16.  
 D. SOCIUS var. GLADIUS Van D., Cole & Aldr. Salisbury Cove,  
 July 15.  
 D. VARIABILIS Loew. Bar Harbor, July 20–Sept. 11.  
 D. VARIABILIS var. GRACILIS Aldr. S. W. Harbor, July 15–Aug.  
 23.  
 D. VIRGA Coq. Penikese, July 14.  
 D. WHEELERI Mel. & Brues. S. W. Harbor, July 15.

## LIANCALUS Loew

L. GENUALIS Loew. Western Mt., Sept. 8 (Alexander).

## PELASTONEURUS Loew

- P. LAMELLATUS Loew. Tremont; Narrows, June 20–July 27.  
 P. VAGANS Loew. Bar Harbor, Sept. 13.

## MEDETERUS Fischer von Waldheim

M. MODESTUS Van Duzee. Bar Harbor, June 11.

## PARACLUS Loew

P. VICINUS Aldr. Narrows, July 27.

## TACHYTRECHUS Loew

T. MOECHUS Loew. Witch Hole Pond, June 13.

## HERCOSTOMUS Loew

- H. ALBICEPS Loew. Jordan Pond, June 10.  
 H. CHALCOCHRUS Loew. Long Pond, July 16.  
 H. FREQUENS Loew. Common, June 8–July 17.  
 H. PHYLLOPHORUS Loew. S. W. Harbor; Long Pond, June 18–  
 July 13.  
 H. SPECTABILIS Loew. Echo Lake, June 27.  
 H. SUBDILATUS Loew. Bar Harbor, Aug. 12.  
 H. SUBULATUS Loew. Common, July 13–27.

## ARGYRA Macquart

*A. ANGUSTATA* Van Duzee. Echo Lake, July 17, 1918.

*A. CALCEATA* Loew. Bar Harbor, July 19; Salisbury Cove, Aug. 9.

*A. ROBUSTA* Johns. Bar Harbor, June 11.

## CHRYSOTIMUS Loew

*C. DELICATUS* Loew. Salisbury Cove, July 14.

## NEUROGONIA Rondani

*N. FLORIDULA* Wheeler. Common, June 13-July 16.

*N. DEFORMIS* Van Duzee. Bar Harbor, June 21.

*N. NITIDA* Van Duzee. Bar Harbor, July 11.

## NOTHOSYMPYCNUS Wheeler

*N. LUTEIPES* Van Duzee. Bar Harbor, July 22.

## 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.

*H. INTENTUS* Aldr. Narrows, Aug. 13.

*H. PIRATA* Loew. Bar Harbor, June 21.

ORTHOCERATIUM Schrank (*Liancalus* Loew)

*O. GENUALIS* Loew. Western Mt., Sept. 8 (Alexander).

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.

*R. SLOSSONAE* Johns. Bar Harbor, July 26.

## 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.

## CAMPsicnemus Haliday

- C. WHEELERI Van Duzee. Bar Harbor, Aug. 4.

## SYMPycnus Loew

- S. LINEATUS Loew. Salisbury Cove; Long Pond, Aug. 13–Sept. 7.

## 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. FURCATA Fall. (*L. riparia* Meig.). Bar Harbor, July 24.  
 L. FURCATA var. LACUSTRIS Meig. S. W. Harbor, July 13.

## 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.

## CHAETANEUROPHORA Schmitz

- C. CURVINERVIS Beck. S. W. Harbor, Aug. 13; mating pair (Br.). B. H., Aug. 10.

## PHORA Latreille

- P. VELUTINA Meig. Green Mt.; Bar Harbor, Aug. 17–Sept. 10.  
 P. ATERRIMA Fab. Echo Lake; Bar Harbor; S. W. Harbor, July 12–22.

## HYPOCERA Lioy

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. CILIATA Bett. Bar Harbor, July 22.

M. MINOR Zett. 'Mt. Desert,' July 28 (McAtee).

M. NIGRICEPS Loew. N. E. Harbor (Minot); Long Pond; Bar Harbor, July 26-Sept. 11.

M. PICTA Lehm. Bar Harbor; Green Mt., N. E. Harbor (Minot), July 21-Sept. 13.

M. PULICARIA Fall. 'Mt. Desert,' July 31 (McAtee).

M. PYGMAEA Zett.? 'Mt. Desert,' July 31 (McAtee).

M. RUFIPES Meig. Bar Harbor, July 22-Sept. 10.

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

- A. NOTATA Loew. Bar Harbor; Duck Brook; S. W. Harbor, July 24-30.
- A. PULCHELLA Johns. Bar Harbor; Witch Hole Pond, July 22-Aug. 18.
- A. TALPULA Loew. Echo Lake; Long Pond, July 27-July 16.

## CALLIMYIA Meigen

- C. VELUTINA Johns. Duck Brook; Long Pond, June 13-July 16.

## PLATYPEZOIDES Johnson

- P. DIVERSA Johns. Bar Harbor, Sept. 11. Type locality.

## PLATYPEZA Meigen

- P. ANTHRAX Loew. Echo Lake; Bar Harbor, Sept. 7-10.
- P. PALLIPES Loew. (*Calotarsa ornatipes* Town. ♂). Echo Lake; Bar Harbor, Sept. 7-10.
- P. VELUTINA Loew. Long Pond, Aug. 31.

## MICROSANIA Zetterstedt

- M. STIGMATICALIS Zett. 'Mt. Desert,' July 31 (McAtee).

## 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

- V. PILOSA Zett. Bar Harbor; S. W. Harbor, June 7-16.

## PIPUNCULUS Latreille

- P. *AEQUUS* Cress. Duck Brook, Sept. 11, 1922.  
 P. *ATLANTICUS* Hough. Bar Harbor, June 7.  
 P. *CAUDATUS* Cress. Bar Harbor; Upper Hadlock Pond; S. W. Harbor, June 9-25.  
 P. *CINGULATUS* Loew. Bar Harbor; Echo Lake, July 12.  
 P. *DUBIUS* Cress. Salisbury Cove; Green Mt., July 24-25.  
 P. *FUSCUS* Loew. S. W. Harbor; Salisbury Cove, July 20-23.  
 P. *HORVATHI* Kertz. Echo Lake, June 17.  
 P. *MINOR* Cress. Salisbury Cove, July 15.  
 P. *PALLIPES* Johns. Bar Harbor; Long Pond, June 10-20.  
 P. *SCOPARIUS* Cress. Salisbury Cove; Echo Lake; S. W. Harbor, July 14-Sept. 5.  
 P. *VIDUUS* Cress. Salisbury Cove, July 13-19.

## 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

- M. *CONFICTUS* Curr. Witch Hole Pond, July 20; S. W. Harbor, Aug. 26 (Alexander).  
 M. *COTHURNATUS* Bigot. 'Great Clearing,' north of Sargent Mt., June 10.  
 M. *MANITOENSIS* Curr. Bar Harbor; S. W. Harbor, June 9-22.  
 M. *OCELLARIS* Curr. Bar Harbor, June 9.  
 M. *TRISTIS* Loew. Bar Harbor, June 8-21.

## 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.

## CITIBAENA Walker

C. STRIGATUS Fall. Lunate Onion-fly. Bar Harbor, July 25, 1916 (Metcalf); July 19, 1919.

## CHRYSTOXUM Meigen

C. DERIVATUM Walk. Salisbury Cove, Aug. 7, 1926.

C. FASCIOLATUM DeG. Long Pond; S. W. Harbor; Bar Harbor, June 17-July 24.

C. PERPLEXUM Johns. Witch Hole Pond; S. W. Harbor, Aug. 18-Sept. 6. Green Mt. 1300 ft. level, July 20.

## PARAGUS Latreille

P. ANGUSTIFRONS Loew. Salisbury Cove; Bar Harbor, July 17-Aug. 10.

P. BICOLOR Fab. Salisbury Cove, July 14.

P. TIBIALIS Fall. Bar Harbor; Salisbury Cove, July 22-24.

## LEUCOZONA Schiner

L. LEUCORUM var. AMERICANA Curr. Bar Harbor; Echo Lake; S. W. Harbor, June 9-23.

## DIDEA Macquart

D. FASCIATA var. FUSCIPES Loew. Bar Harbor; Echo Lake, June 15-17.

## SYRPHUS Fabricius

S. AMERICANUS. Larvae feeding on aphids on *Spirea*. Bred July 22 (Br.).

S. ARCUATUS Fall. S. W. Harbor, June 21.

S. PERPLEXUS Osburn. Echo Lake; S. W. Harbor, July 12-Aug. 20.

S. AMALOPIS O. S. Bar Harbor; Echo Lake, June 9-July 12.

S. DISJECTUS Will. Bar Harbor; Salisbury Cove; 'Narrows,' July 22-Aug. 13.

S. WIEDEMANNI Johns. Bar Harbor; 'Narrows,' June 9-Aug. 13.

- S. LATIFASCIATUS Macq. (*abbreviatus* Will.). Salisbury Cove, July 23-24.
- S. RIBESII Linn. Common, July 10-Sept. 9.
- S. RIBESII var. VITTIFRONS Shan. Bar Harbor; Long Pond; Salisbury Cove; S. W. Harbor, June 8-Sept. 6.
- S. RECTUS O. S. Bar Harbor; Green Mt.; S. W. Harbor, July 7-Aug. 20.
- S. LAXA O. S. S. W. Harbor; Bar Harbor; Salisbury Cove, June 21-Sept. 11.
- S. XITENS Zett. 'Narrows,' Aug. 13.
- S. JOHNSONI Curr. Bar Harbor, June 22-23.
- S. LIMATUS Hine. Bar Harbor, June 13, 1931.
- S. VENUSTUS Meig. Bar Harbor; Salisbury Cove; S. W. Harbor, June 9-22.
- E. EMARGINATUS Say. Bar Harbor, June 15-Aug. 14.
- S. FELIX O. S. Echo Lake, July 17.
- 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.

## BACCHA Fabricius

- B. COGNATA Loew. Bar Harbor; Echo Lake; N. E. Harbor (Minot), June 11-Aug. 25.

EPISTROPHE Walker (*Stenosyrphus* Matsumura)

- E. GROSSULARIAE Meig. Bar Harbor; Green Mt., July 22–25.  
 E. XANTHOSTOMUS Will. Bar Harbor, July 19.  
 E. DIVERSIPES Maeq. Common, June 8–Aug. 11.  
 E. UMBELLATORUM Fab. Bar Harbor; Green Mt.; Long Pond,  
     June 11–Aug. 17.  
 E. GENICULATUS Maeq. S. W. Harbor; Green Mt.; Bar Harbor,  
     June 22–Sept. 11.  
 E. FISHERI Walt. S. W. Harbor, Aug. 22.  
 E. MENTALIS Will. Bar Harbor, June 8–13.  
 E. GENUALIS Will. Bar Harbor; Salisbury Cove; S. W. Harbor,  
     June 7–21.  
 E. ARCTICUS Zett. Bar Harbor, Sept. 11, 1922.  
 E. SEXQUADRATUS Walk. Bar Harbor, Sept. 10, 1922.  
 E. ORONENSIS Metcalf. Bar Harbor, July 19.

## DOROS Meigen

- D. AEQUALIS Loew. Bar Harbor, June 6; Eden, June 12.  
 Scarce.

## TOXOMERUS Maequart

- T. GEMINATUS Say. S. W. Harbor; Bar Harbor, June 21–July  
     17.  
 T. MARGINATUS Say. Bar Harbor; 'Narrows,' July 18–27.

## SPHAEROPHORIA St. Fargeau and Serville

- S. CYLINDRICA Say. Larvae feeding on aphids on *Spirea*.  
     Bred July 29 (Br.).  
 S. MENTHASTRI Linn. Common, June 21–July 24.  
 S. NOVAEANGLIAE Johns. Upper Hadlock Pond; Echo Lake,  
     June 10–July 12.

## ALLOGRAPTA Osten Sacken

- A. OBLIQUA Say. Bar Harbor, July 29; Seal Harbor (D.  
     Rockefeller).

## PYROPHAENA Schiner

- P. GRANDITARSUS Foerster. S. W. Harbor, July 15. Newport Meadow on *Solidago*, Sept. 4.  
 P. ROSARUM Fab. Bar Harbor; S. W. Harbor; Salisbury Cove, June 13–Aug. 9.

## PLATYCHEIRUS St. Fargeau and Serville

- P. CHAETOPODUS Will. Bar Harbor, June 8.  
 P. HYPERBOREUS Staeg. Salisbury Cove, July 25.  
 P. IMMARGINATUS Zett. S. W. Harbor; Bar Harbor (Metcalf), June 15–July 25.  
 P. PELTATUS Meig. Bar Harbor, June 16–July 17.  
 P. QUADRATUS Say. ‘Narrows’; Salisbury Cove, June 9–July 27.

## MELANOSTOMA Schiner

- M. ANGUSTATUM Will. Bar Harbor, June 14.  
 M. CONFUSUM Curr. S. W. Harbor, June 16.  
 M. MELLINUM Linn. Common, June 22–July 27.  
 M. OBSCURUM Say. Bar Harbor; ‘Narrows’; Long Pond, June 21–Sept. 7.

## CARTOSYRPHUS Bigot

- C. PALLIPES Loew. Common, June 26–July 30.  
 C. SLOSSONAE Shan. ‘Great Clearing,’ north of Sargent Mt., June 10.  
 C. TRISTIS Loew. Common, June 12–Sept. 6.

## CHEILOSIA Meigen

- C. ORILLIAENSIS Curr. S. W. Harbor, June 21.

## PIPIZA Fallén

- P. FEMORALIS Loew. Bar Harbor, June 8.  
 P. NIGROPILOSA 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. ELONGATA* Curr. Bar Harbor, June 9-17.

*C. PISTICOIDES* Will. Long Pond; Salisbury Cove, July 16-24.

*HERYNGIA* Rondani

*H. SALAX* Loew. Bar Harbor, July 20-22.

*PIPIZELLA* Rondani

*P. PUBESCENS* Loew. Bar Harbor; S. W. Harbor, June 15-July 15.

*P. RECEDENS* Walk. Bar Harbor; S. W. Harbor, June 21-July 15.

*CHRYSOGASTER* Meigen

*C. NIGRIPES* Loew. Bar Harbor, July 21.

*C. PULCHELLA* Will. S. W. Harbor; Bar Harbor, July 10-19.

*NEOASCIA* Williston

*N. GLOBOSA* Walk. Bar Harbor, Aug. 10.

*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.

*HAMMERSCHMIDIA* Shummel

*H. FERRUGINEA* Fall. Bar Harbor, June 11-17.

*RHINGIA* Scopoli

*R. NASICA* Say. Bar Harbor; S. W. Harbor; Narrows, June 21-Aug. 13.

*BRACHYOPA* Meigen

*B. DIVERSA* Johns. Bar Harbor, June 8, 1921.

*B. NOTATA* O. S. Record of capture lost.

## CYNORHINA Williston

- C. ANALIS Macq. Bar Harbor; June 8, 9; Corfield, June 8-30.  
Scaree.
- C. BADIA Walk. North end, Long Pond, June 26.
- C. CONFUSA Johns. Bar Harbor; Long Pond; Echo Lake,  
June 17-26.
- C. NIGRA Will. Corfield on vines, June 1-13.

## SOMULA Macquart

- S. DECORA Macq. Bar Harbor; Corfield, June 11-July 8.

## BRACHYPALPUS Macquart

- B. OARUS Walk. (B. *frontosus* Loew). Witch Hole Pond, June  
13.

## SPILOMYIA Meigen

- S. FUSCA Loew. Bar Harbor, July 24-Aug. 16.

- S. QUADRIFASCIATA Say. Witch Hole Pond, Sept. 11, 1922.

## TEMNOSTOMA St. Fargeau and Serville

- T. AEQUALE Loew. Bar Harbor; Green Mt., Long Pond, June  
9-July 25.
- T. ALTERNANS Loew. Bar Harbor; Green Mt., June 15-July 25.
- T. APIFORME Fab. Bar Harbor; Green Mt.; Long Pond; Eden;  
Sec. 28, June 9-July 25.
- T. BOMBYLANS Fab. Bar Harbor, June 15.
- T. EXCENTRICUM Harr. Bar Harbor; Witch Hole Pond, June  
8-13.
- T. TRIFASCIATA Robt. One specimen taken on *Spirea*. Eden,  
July 12, '37.
- T. VENUSTUM Will. Bar Harbor; Salisbury Cove, June 9.
- T. VESPIFORME Linn. Corfield, July 10-11. Scaree.

## SYRITTA St. Fargeau and Serville

- S. PIPiens Linn. Bar Harbor; Tremont, July 14-Aug. 23.

## TROPIDIA Meigen

- T. QUADRATA Say. Bar Harbor; S. W. Harbor, June 11-July 25.

## CONDIDEA Coquillett

C. LATA Coq. Foot of Pickett Mt., June 21. On flower of the *Viburnum*.

C. SEXFASCIATA Walk. South of Manset; S. W. Harbor, June 16, 1921.

## SERICOMYIA Meigen

S. BIFASCIATA Will. Echo Lake, June 17–July 12.

S. CHRYSOTOXOIDES Macq. Bar Harbor; Echo Lake; S. W. Harbor, June 9–Sept. 8.

S. MILITARIS Walk. S. W. Harbor; Bar Harbor; Echo Lake, June 22–Sept. 8.

## ERISTALIS Latreille

E. ARBUSTORUM Linn. Common, June 15–Sept. 6.

E. COMPACTUS Walk. Bar Harbor; Echo Lake, June 13–17.

E. DIMIDIATUS Wied. Bar Harbor; S. W. Harbor; Salisbury Cove, June 11–Sept. 6.

E. NEMORUM Linn. Bar Harbor; Salisbury Cove, July 24.

E. TENAX Linn. ‘Drone fly.’ Common, July 10–Sept. 22. The larva is known as the ‘rat-tailed larva’ and lives in putrid water.

E. SAXORUM Wied. Witch Hole Pond, June 13.

E. TRANSVERSUS Wied. Bar Harbor; S. W. Harbor; Salisbury Cove, June 15–Sept. 6.

E. FLAVIPES Walk. Bar Harbor; S. W. Harbor, June 11–July 25. Green Mt. summit, July 26.

E. BASTARDII 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. OBSCURUS Loew. Witch Hole on blackberry blossoms June 16. Scarce.

## MERODON Meigen

M. EQUESTRIS Fab. Narcissus fly. Bar Harbor, July 25 (Metcalf); Corfield, June 25–29. Introduced. The larva lives in Narcissus and other bulbs.

## 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

P. CURVIPES Wied. Narrows, June 9–Aug. 13.

## LEJOPS Rondani

L. RELICTUS Curran & Fluke (*Helophilus chrysostoma* auct.. not Wied.). Bar Harbor, July 10.

L. LUNULATUS Meig. (*H. hamatus* Loew). Witch Hole Pond: Bar Harbor; Salisbury Cove, June 13–July 18.

L. (EURHIMYIA) STIPATUS Walk. (*H. conostoma* Will.). Witch Hole Pond, June 13.

## PARHELOPHILUS Girschner

P. REX Curran & Fluke. Bar Harbor, July 10.

P. LAETUS Loew. Bar Harbor; S. W. Harbor, June 13–July 10.

P. OBSOLETUS Loew. Bar Harbor; S. W. Harbor, June 13–21.

## CONOPIDAE. The Thick-headed flies

Collecting around flowers is the best place. As is the case with the Syrphids, many resemble the Hymenoptera.

## PHYSOCEPHALA Schiner

P. FURCILLATA Will. Bar Harbor; Great Pond; S. W. Harbor, July 24–Aug. 23. Common.

## 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.

M. VICARIA Walk. Station F241. A scarce early form.

OCULEMYA Desvoidy *Theophora* Loew

O. ABBREVIATA Loew. Echo Lake; S. W. Harbor, June 17-July 20.

O. LORARIA Loew. Bar Harbor; Sand Beach, Great Head, July 24-Sept. 13.

## OTITIDAE. The Picture-wing Flies

They frequent moist places and the larvae are said to live in decaying plants.

## SEIOPTERA Kirby

S. VIBRANS Linn. Jordan Pond, July 10.

S. DUBIOSA Johns. N. E. Harbor, July 16 (Minot).

## EUXESTA Loew

E. BELLA Loew. Mt. Desert, Aug. 27, 1934.

## 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. Breman has also examined this specimen and considers it to be *fera*."

## CHAETOPSIS Loew

C. APICALIS var. DUPLICATA Johns. Common on the salt marshes; Narrows, June 9-July 27.

C. AENEA Wied. Common on the salt marshes; Narrows, June 9-July 27.

C. FULVIFORMIS Macq. Bar Harbor, Aug. 10-16.

C. MASSyla Walk. Common on the Great Heath and fresh water meadows, July 15-Sept. 11.

## PSEUDOTEPHRITIS Johnson

- P. VAU var. CONJUNCTA Johns. Bar Harbor, Aug. 10.  
 P. METZI Johns. Record of capture lost.

## RIVELLIA Desvoidy

- R. VIRIDULANS Desv. Penikese, July 13–Aug. 9.

## TEPHRONOTA Loew

- T. NARYTIA Walk. Sand Beach, Great Head; Eden, July 11–18.

## PSAIROPTERA Wohlberg

- P. NUBECULA Johns. N. E. Harbor, July 6 (Minot).

## 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. POMONELLA Walsh. Blueberry Maggot. Bred from blueberries (Br.), July 13.  
 R. SYMPHORICARPI Cur. Bar Harbor, July 15 (Br.).

## MYOLEJA Rondani

- M. NIGRICORNIS Doane. Long Pond; Penikese, June 20–July 18.

## TERELLIA Desvoidy

- T. FLORESCENTIAE Linn. Common, July 14–Aug. 13. The larvae live in the flower buds of the Canada thistle (*Cirsium arvense*).

## NEASPILOTA Osten Sacken

N. ACHILLEAE Johns. Salisbury Cove; S. W. Harbor, July 24–28. Frequents the flower buds of yarrow (*Achillea millefolium*).

N. PETIOLATA Prov.? June 23 (Br.). Pars. on *P. nemorata*.

## PROCECIDOCHARES Hendel

P. ATRA Loew. Bar Harbor, Sept. 16 (Br.).

## TEPHRITIS Latreille

T. ALBICEPS Loew. Common, July 11–Aug. 13.

T. ANGUSTIPENNIS Loew. Bar Harbor, June 7.

T. BELLA Loew. Salisbury Cove, July 14–24.

T. PURA Loew. Eden, July 13–14.

## EUTRETA Loew

E. SPARSA Wied. Bar Harbor, Aug. 15. The larvae form root-galls on goldenrod. Station F210, F214, and F68; Bar Harbor; Eden; Tremont, July 24–Sept. 20.

## EUROSTA Loew

E. ASTERIS Harr. (*E. solidaginis* Fitch). Common. The larvae form round galls on the stalks of goldenrod.

E. LATIFRONS Loew. Eagle Lake, July 19.

## XANTHACIURA Hendel

X. NIGRICORNIS Doane. Long Pond; Penikese, June 20–July 18.

## PALLOPTERIDAE

Along the seashore on vegetation is where these will be found.

## PALLOPTERA Fallén

P. SUBARCUATA Johns. N. E. Harbor (Minot); Bar Harbor, July 1–Aug. 13.

P. SUPERBA Loew. N. E. Harbor, June 26 (Minot).

## LONCHAEIDAE

General sweeping in shady damp places is the best collecting for this family.

## LONCHAEA Fallén

- L. AFFINIS Mall. S. W. Harbor; Echo Lake; Bar Harbor, June 13–July 20.  
 L. ALBICEPS Mall. Bar Harbor; N. E. Harbor, July 20–Aug. 10.  
 L. ANGUSTITARSIS Mall. Echo Lake, July 12.  
 L. NIGROCILIATA Mall. S. W. Harbor, July 11.  
 L. LATICORNIS Meig. Bar Harbor, Aug. 10.  
 L. POLITA Say. Salisbury Cove, June 9.  
 L. VAGINALIS Fall. Bar Harbor, June 11.

## TANYPEZIDAE

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

- C. PALLIPES Say. Eden, July 14.  
 C. UNIVITTA Walk. Bar Harbor, June 15–July 14.

## SEPSIDAE

Found around carrion and decaying matter of all kinds.

## PANDORA Haliday

- P. SCUTELLARIS Fall. Narrows, Aug. 13.

*NEMOPODIA* Desvoidy

*X. 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. VIOLENCEA* Meig. Echo Lake, June 17; Station F25.

*MEROPLIUS* Rondani

*M. STERCORARIUS* Desv. S. W. Harbor, July 13.

*THEMIRA* Desvoidy

*T. MINOR* Haliday. S. W. Harbor; Narrows, June 28-Aug. 30.  
*T. PUTRIS* Linn. S. W. Harbor, July 10-13.

## PIOPHIILIDAE

*PIOPHILA* Fallén

*P. CASEI* Linn. Cheese-maggot fly. Bar Harbor; Salisbury Cove, June 7-July 25.  
*P. NIGRICEPS* Meig. Bar Harbor; S. W. Harbor, June 8-July 11.  
*P. ORIENS* Mel. & Spul. Bar Harbor, June 22.

*MYCETAULUS* Loew

*M. PULCHELLUS* Banks. Bar Harbor, Sept. 10-11.  
M. sp. Record of capture lost.

## LAUXANIIDAE

*LAUXANIA* Latreille

*L. CYLINDRICORNIS* Fab. Common, June 26-July 30.

## MINETTIA Desvoidy

- M. AMERICANA Mall. (*M. longipennis* auct.). Bar Harbor,  
June 15.
- M. LUPULINA Fab. Common, June 26–July 21.
- M. OBSCURA Loew. S. W. Harbor, July 13.

## HOMONEURA Wulp

- H. CITRIFRONS Mall. Bar Harbor; Long Pond, June 13–Aug. 21.
- H. COMPEDITA Loew. N. E. Harbor; S. W. Harbor, Bar Harbor,  
July 6–30.
- H. DECEPTOR Mall. Sand Beach, Great Head; Long Pond,  
July 13–16.
- H. DISJUNCTA Johns. Common, June 13–July 12.
- H. FRATERNA Loew. Green Mt., Aug. 17.
- H. FRONTALIS Loew. N. E. Harbor (Minot); Bar Harbor,  
July 1–11.
- H. INCERTA Mall. Bar Harbor mating pair, Sept. 20 (Br.).  
Long Pond, Aug. 21.
- H. PHILADELPHICA Macq. N. E. Harbor (Minot); Bar Harbor,  
July 1–Aug. 10.
- H. SHELDONI Coq. Witch Hole Pond, July 30.

## SAPROMYZA Fallén

- S. ANNULATA Mel. Bar Harbor; Echo Lake; S. W. Harbor,  
June 15–July 12.
- S. BRACHYSOMA Coq. Bar Harbor, June 8.
- S. OBTUSILAMELLATA Mall. Bar Harbor, June 7.
- S. QUADRILINEATA Loew. Bar Harbor, July 22.
- S. ROTUNDICORNIS Loew. Echo Lake; Bar Harbor; N. E.  
Harbor, July 17–Aug. 11.
- S. SERRATA Mall. Bar Harbor, June 11.
- S. LUPULINA (Fab.). Laboratory, Aug. 27. Searee.

## PERISCELIDAE

Very little is known about this group.

## CYAMOPS Melander

C. NEBULOSA Mel. Salisbury Cove, July 13, 1923.

## DROSOPHILIDAE. The Small Fruit Flies

This family which has done so much for genetics frequents fermenting fruit and the like.

## CHYMODYZA Czerny

C. AMOENA Loew. Salisbury Cove, July 18.

## SCAPTOMYZA Hardy

S. GRAMINUM Fall. Narrows; S. W. Harbor, July 13–Sept. 6.

## DROSOPHILA Fallén

D. FUNEBRIS Fab. N. E. Harbor, Aug. 29 (Minot); Echo Lake, Sept. 7.

D. TRANSVERSA Fall. Common, July 17–Aug. 24.

D. MELANOGASTER Meig. Robinson Mt., Sept. 7.

## STEGANA Meigen

S. COLEOPTRATA Scop. Duck Brook; N. E. Harbor; Echo Lake, June 13–Aug. 17.

S. HUMERALIS Loew. Green Mt.; Bar Harbor, July 25–Aug. 16.

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. REPLETA Walk. (*D. pulchra* Loew). Salisbury Cove, July 18.

D. VAGANS Loew. Salisbury Cove; Bar Harbor, July 14–Sept. 9.

## ASTEIIDAE

## ASTEIA Meigen

A. BEATA Aldr. S. W. Harbor, July 13, 1919.

## OPOMYZIDAE

They will be found along the seashore and in wet places.

## MUMETOPIA Melander

M. TERMINALIS Loew. Bar Harbor; S. W. Harbor; Echo Lake, June 8–Sept. 3.

## ANTHOMYZA Fallén

A. GRACILIS Fall. Echo Lake; S. W. Harbor, July 12–Aug. 27.

A. TENUIS Loew. Common, July 12–Aug. 13.

A. VARIEGATA Loew. N. E. Harbor; Bar Harbor, July 27–Aug. 12.

## PELOMYIA Williston

P. MALLOCHI Sturt. Narrows, June 9.

## 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. AENEVENTRIS 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. ATRATA Meig. (*angulata* Loew). Bar Harbor, July 11.

A. GENUALIS Mel. (*coloradensis* Mall.). ‘Great Heath’; S. W. Harbor, July 15.

A. LATERALIS Macq. (*coquilletti* Mall.). Echo Lake; Salisbury Cove, July 12–24.

A. MELAMPYGA 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. NASUTA Mel. (*madizina* Hend.). ‘Mt. Desert,’ July 30 (McAtee).
- 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.
- A. VIRIDULA Coq. Green Mt., Aug. 17.

#### PHYTOMYZA Fallén

- P. ALBICEPS Meig. (*P. bipunctata* Loew). Mt. Desert, July 30 (McAtee).
- P. AQUILEGIAE Hardy. Columbine leaf-miner. S. W. Harbor, June. The larvae mine the leaves of the columbine.
- P. ATRICORNIS Meig. (*P. chrysanthemi* Kowarz). Marguerite fly. Bar Harbor, July 19. The larvae mine the leaves of chrysanthemum and marguerite.
- P. ILCICOLA Loew. Holly leaf-miner. S. W. Harbor; Echo Lake, July 14–17.

#### PHYLLOMYZIDAE

Sweeping grass and bushes in open places is productive.

#### PARAMYIA Williston

- P. NITENS Loew. ‘Mt. Desert,’ July 30. On flowers of *Spiraea* (McAtee).

#### MEONEURA Rondani

- M. VAGANS Fall. Bar Harbor, June 7.

## PHOLEOMYIA Bilimek

P. INDECORA Loew. S. W. Harbor; Salisbury Cove, July 10-25.

## MILICHIELLA Giglio-Tos

M. ARCUATA Loew. S. W. Harbor; Salisbury Cove, July 13-15.

## EUSIPHONA Coquillett

E. MIRA Coq. Salisbury Cove, July 15-Aug. 7.

## DESMOMETOPA Loew

D. LATIPES Meig. Bar Harbor; S. W. Harbor; Salisbury Cove, July 24-Sept. 6.

D. SORDIDUM Fall. Salisbury Cove, July 14.

## MALLOCHIELLA Melander

M. GLABRA Fall. Bar Harbor; S. W. Harbor; Salisbury Cove, July 24-Aug. 20.

## PHYLLOMYZA Fallén

P. SECURICORNIS Fall. S. W. Harbor, Aug. 26 (Alexander).

## 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. GLABRA Meig. (*C. assimilis* Macq.). S. W. Harbor, July 14.  
C. GRATA Loew. S. W. Harbor; Bar Harbor, July 11-22.  
C. RUFESCENS Coq. Salisbury Cove, July 18.  
C. VARICEPS Loew. Eden; Narrows, Aug. 13-25.

## DIPLOTOMA Loew

- D. VERSICOLOR Loew. Common, July 17-Aug. 23.

## EPHICHLOROPS Becker

- E. EXILIS Coq. Salisbury Cove, July 15.

## CHLOROPS Meigen

- C. MELANOCERA Loew. S. W. Harbor, July 13.  
C. OBSCURICORNIS Loew. Narrows, June 9-Aug. 13.  
C. PROXIMA Say. Common, June 17-July 14.  
C. SCABRA Coq. Tremont, Aug. 23.  
C. SUBNIGRA Coq. S. W. Harbor; Salisbury Cove; Bar Harbor, July 11-Aug. 12.

## ANTHRACOPHAGA Loew

- A. SANGUINOLENTA Loew. Bar Harbor; S. W. Harbor, June 8-July 14.

## PARECTECEPHALA Becker

- P. EUCERA Loew. Common, June 9-Aug. 21.  
P. SIMILIS Beck. Bar Harbor, July 21.

## HIPPELATES Loew

- H. FLAVIPES Loew. S. W. Harbor, July 19.

## CRASSISETA Von Rössner

- C. COSTATA Loew. Salisbury Cove, July 15–30.  
 C. DECIPiens Loew. Common, June 7–Aug. 10.  
 C. EUNOTA Loew. 'Mt. Desert,' July 30 (McAtee).  
 C. LONGULA Loew. S. W. Harbor; Salisbury Cove; Bar Harbor, July 14–Aug. 18.  
 C. NIGRICEPS Loew. Common, July 27–Aug. 16. Bred from cow parsnip bored by *Depressaria heracliana*.  
 C. PLANICOLLIS Beck. Witch Hole Pond, Aug. 18.

## GAURAX Loew

- G. DORRI Johns. Long Pond; Bar Harbor, June 15–27.  
 G. EPHIPPİUM Zett. Bar Harbor, Aug. 10.  
 G. INTERRUPTA Mall. Long Pond, July 16.

## MADIZA Fallén

- M. NEGLECTA Beck. 'Mt. Desert,' July 30 (McAtee).  
 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.  
 M. SETULOSA Mall. 'Mt. Desert,' July 30.

OSCINELLA Becker (*Botanobia* Lioy)

- O. COXENDIX Fitch. Common, July 16–27.  
 O. FRIT Linn. Narrows, July 27.  
 O. FRIT var. PUSILLA Meig. Narrows, July 14.  
 O. INFESTA Beck. Common, July 27–Aug. 14.  
 O. NITIDISSIMA Meig. (*O. variabilis* Loew). S. W. Harbor, July 13.  
 O. NUDIUSCUS Loew. 'Mt. Desert,' July 21 (McAtee).  
 O. TRIGRAMMA Loew. Narrows; Tremont; Salisbury Cove, Aug. 13–23.

## EPHYDRIDAE. The Shore Flies

Brooks, swamps and shores with the attending vegetation is where these will be found. Look into the blossoms of water-lillies 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

D. LEUCOPROCTA Loew. Narrows, June 9.

## ILYTHEA Haliday

I. SPILOTA Curtis. Common, June 27–Aug. 21.

## RHYSOPHORA Cresson

R. ROBUSTA Cress. Witch Hole Pond, July 30.

## DITRICHOPHORA Cresson

D. EXIGUA Cress. Bar Harbor, July 22, 1919.

D. PARILIS Cress. Bar Harbor, Aug. 18.

## PSILOPA Fallén

P. ATRIMANA Loew. Bar Harbor, July 24; S. W. Harbor,  
Sept. 6.

P. LEUCOSTOMA Meig. Narrows, July 27.

## OCHTHERA Latreille

O. MANTIS DeG. Bar Harbor, July 26.

## HYDRELLIA R.-Desvoidy

H. ADVENAE Cr. First taken in blossoms of *Nymphaea advena*,  
July 25, '35. Type locality.

## HYDRINA Desvoidy

- H. DEBILIS Loew. Green Mt.; Long Pond, July 25–Sept. 7.  
 H. sp. Penikese, Aug. 15.  
 H. FORMOSA Loew. Bar Harbor, Aug. 12–16.  
 H. OBSCURIPES Loew. Bar Harbor, Aug. 16.  
 H. SCAPULARIS Loew. Narrows, July 27–Aug. 13.  
 H. PROCTERI Cr. 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. VALIDA Loew. Narrows, July 27–Aug. 13.

## LYTOGASTER Becker

- L. GRAVIDA Loew. Bar Harbor, July 24.

## PARYDRA Stenhammar

- P. ALFINA Cress. Long Pond; Bar Harbor, July 16–Aug. 10.  
 P. BITUBERCULATA Loew. Bar Harbor, Aug. 10.  
 P. IMITANS Loew. Narrows, Sept. 12.  
 P. QUADRITUBERCULATA Loew. Bar Harbor, July 20.  
 P. VARIA Loew. Duck Brook; Bar Harbor, Aug. 18.

## DIMECOENIA Cresson

- D. SPINOSA Loew. Narrows, Aug. 13–Sept. 12.

## CIRRULA Cresson

- C. GIGANTEA Cress. Narrows, Aug. 13–Sept. 12.

## EPHYDRA Fallén

- E. SUBOPACA Loew. Narrows, Aug. 13.

## SCATELLA R.-Desvoidy

- S. LUGENS Loew. Bar Harbor, June 11; S. W. Harbor, July 13.  
 S. STENHAMMERI Zett. Echo Lake, June 17; S. W. Harbor,  
     July 11.

## DICHAETA Meigen

D. CAUDATA Fall. Witch Hole Pond, June 13.

## NOTIPHILA Fallén

N. ATRIPES Cress. Narrows, Aug. 13.

N. BISPINOSA Cress. Narrows, July 27–Aug. 13.

N. LOEWI Cress. (*N. unicolor* Loew, not Walker). Bar Harbor, June 22; New Mill Pond, July 12.

N. OLIVACEA Cress. Bar Harbor, July 26.

N. VITTATA Loew. Bar Harbor, July 20–26.

## BRACHYDEUTERA Loew

B. ARGENTATA Walk. S. W. Harbor, June 24.

## SCATOPHILA Becker

S. VARIABILIS Cress. S. W. Harbor, Aug. 20.

## PHILYGRIA Stenhammer

P. DEBILIS Loew. Green Mt.; Long Pond, July 25–Sept. 7.

## BORBORIDAE

Another family of which the larvae live in decaying organic matter. Examine such places.

## LEPTOCERA Olivier

L. (COLLINELLA) LUTOSA Stenh. Bar Harbor, Aug. 10.

L. (SCATOPHILELLA) CARINATA Spul. Bar Harbor, Aug. 15.

L. BRACHYSTOMA Sten. Record of capture lost.

## BORBORUS Meigen

B. EQUINUS Fall. Bar Harbor; S. W. Harbor, June 22–July 11.

## CLUSIDAE

As the larvae live in decaying wood the adults may be searched for around such places.

*CLUSIODES* Coquillett

- C. AMERICANA* Mall. Green Mt., July 25.  
*C. (CLUSIARIA) ORBITALIS* Mall. Bar Harbor, June 13, 1921.  
 Type locality.  
*C. (COLUMBIELLA) JOHNSONI* Mall. Echo Lake, July 12. Type  
 locality.  
*C. (COLUMBIELLA) NIGRIPALPIS* Mall. Bar Harbor, June 17.

*CLUSIA* Haliday

- C. CZERNYI* Johns. N. E. Harbor (Minot), July 1-25.  
*C. LATERALIS* Walk. N. E. Harbor (Minot), July 4.  
*C. MELANOSTOMA* Loew. Corfield, June 15.

*CHAMAEMYIDAE*

The larvae are predaceous upon aphids. Look for adults around burdock, thistle, and such plants.

*LEUCOPSIS* Meigen

- L. NIGRICORNIS* Egger. Common, June 10-Aug. 13.

*CHAMAEMYIA* Meigen

- C. ARIDELLA* Fall. Sand Beach, Great Head; Long Pond, July  
 11-21.  
*C. ELEGANS* Panz. Penikese, July 13.  
*C. JUNCORUM* 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

- S. ARISTALIS* Coq. Eagle Lake, July 18.

## MELINA Desvoidy

- M. ALBOVARIA* Coq. Witch Hole Pond; Bar Harbor, Aug. 18.  
*M. GRISESCENS* Meig. Bar Harbor, Aug. 10.  
*M. NANA* Fall. S. W. Harbor, June 20.  
*M. PUBERA* Loew. Bar Harbor, June 11.  
*M. TENUIPES* 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. FUSCIPENNIS* Loew. Mt. Desert, July 13.

## HOPLODICTYA Cresson

- H. SETOSA* Coq. Narrows, July 27–Aug. 13.

## DICTYA Meigen

- D. UMBRARUM* Linn. Bar Harbor, July 20.

## TETANOCERA Dumeril

- T. CLARA* Loew. Duck Brook; Bar Harbor, Aug. 18.  
*T. ELATA* Fab. Narrows, July 27.  
*T. PLEBEIA* Loew. Common, July 2–24.  
*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. VALIDA* Loew. Common, July 16–Aug. 7.  
*T. VICINA* Maeq. S. W. Harbor; Eden, July 11–Aug. 11.

## ELGIVA Meigen

- E. LINEATA* Fall. Salisbury Cove, July 8–24 (Sanford). Common in meadow south of the town, Aug. 7–11.

## TRYPETOPTERA Hendel

T. CANADENSIS Macq. (*T. pallida* Loew). Eagle Lake, July 18.

## LIMNIA Desvoidy

L. BOSCH var. SPARSA Loew. Common, June 13–July 30.

L. BOSCH Desv. Common, July 17–Aug. 11.

L. COSTALIS Loew. Eagle Lake, July 18.

L. SARATOGENSIS Fitch. Common, June 15–Sept. 13.

## CHYROMYIDAE

This small family is said to frequent the sea coast.

## CHIROMYA Desvoidy

C. FLAVA Linn. 'Mt. Desert,' July 28 (McAtee).

## PSILIDAE

The larvae live in the roots of plants and the adults are found in moist shady places.

## LOXOCERA Meigen

L. COLLARIS Loew. Flying Mt.; Echo Lake, Aug. 26–29 (Alexander).

L. CYLINDRICA var. PLEURITICA Loew. Echo Lake; Lond Pond; Witch Hole Pond, June 17–July 30.

## PSEUDOPSILA Johnson

P. COLLARIS Loew. Upper Hadlock Pond; Bar Harbor, June 11–Sept. 11.

P. FALLAX Loew. Bar Harbor; Long Pond; S. W. Harbor, Aug. 16–22.

P. PERPOLITA Johns. Duck Brook; Sand Beach near Great Head, Sept. 11–13.

## PSILA Meigen

- P. BICOLOR Meig. Bar Harbor; S. W. Harbor, July 17-22.  
 P. LEVIS Loew. Bar Harbor; S. W. Harbor, June 11-21.  
 P. LONGULA Johns. Echo Lake; Bar Harbor; Green Mt.,  
 July 17-25.

## COELOPIDAE

In seaweed washed up on the shore is where these live.

## COELOPA Meigen

- C. FRIGIDA var. PARVULA Flat Kelp-fly. Corfield at light, Oct.  
 8-20.

## ORYGMA Meigen

- O. LUCTUOSA Mg. Four individuals bred 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.

## HELOMYZIDAE

The larvae are scavengers and live in decaying vegetable  
 matter. Adults may be trapped in moist places with vegetable  
 bait.

## ALLOPHYLLA Loew

- A. LAEVIS Loew. Common, June 11-Sept. 7.

SUILLIA R.-Desvoidy (*Helomyza* auct.)

- 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.

## SCOLIOCENTRA Loew

- S. HELVOLA Loew. Echo Lake; N. E. Harbor Bar Harbor,  
 July 12-Sept. 11.  
 S. TINCTA Walker. One specimen in laboratory, July 26.

## TEPHROCHLAMYS Loew

*T. CANESCENS* Meig. Bar Harbor; N. E. Harbor, June 14–Aug. 20.

NEOLERIA Malloch

*N. DISCOLOR* Loew. Bar Harbor, June 21–23.

*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.

*D. FERRUGINEA* Mel. Bar Harbor, June 13.

## NEUROCTENA Rondani

*N. SIMPLEX* Loew. Common, July 12–30.

*N. ANILIS* Fall. Common, July 10–25.

## 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.

## EUGENACEPHALA Johnson

*E. RUFICEPS* Johns. Corfield, Aug. 1.

## SCOPEUMA Latreille

*S. FURCATA* Say. Bar Harbor; N. E. Harbor (Minot), June 8–July 16; mating pair, Oct. 30 (Br.).

*S. LITOREA* Fall. Narrows, July 27–Sept. 12.

*S. LUTARIA* Fall. Green Mt., July 25.

*S. MERDARIA* Fab. S. W. Harbor, July 18.

*S. STERCORARIA* Linn. Common, June 20–July 26.

*S. SUILLA* Fab. Bar Harbor; Echo Lake; Green Mt., June 8–July 25.

## HYDROMYZA Fallén

H. CONFLUENS Loew. Bar Harbor, July 24. On lily pads.

## CORDILURA Fallén

- C. CARBONARIA Walk. Echo Lake, June 17.
- C. NANA Loew. Common, June 26-July 24.
- C. SETOSA Loew. Echo Lake, June 17-July 17.
- C. TRICINCTA Loew. Duck Brook; Bar Harbor; Salisbury Cove, June 13-July 6.
- C. VARIABILIS Loew. Upper Hadlock Pond; Seal Cove, June 17-20.

## CERATINOSTOMA Mead

C. OSTIORUM Halid. Common, June 9-July 27.

## TRICHOPALPUS Rondani

- T. PALPALIS Coq. Narrows; Salisbury Cove; Newport Cove, July 11-29.
- T. PUNCTIPES Meig. Salisbury Cove; Newport Cove, July 11-15.

## ACHAETELLA Malloch

A. VARIPES Walk. Salisbury Cove; Bar Harbor, July 15-Aug. 9.

## PARALLELOMMA Becker

- P. DIMIDIATA Cress. Bar Harbor, June 7.
- P. PLEURITICA Loew. Upper Hadlock Pond; Bar Harbor, June 10-13.
- P. GRACILIPES Loew. Bar Harbor, July 10.

## AMERICINA Malloch

- A. ADUSTA Loew. Bar Harbor, July 29.
- A. INERMIS Loew. Bar Harbor, July 25.

ORTHACHETA Beeker (*Orthochaeta* auct.)

O. CORNUTA Loew. Duck Brook, June 13.

## AMAUROSOMA Becker

A. BRUNNEICOSTA Johns. Echo Lake, June 27.

## FUCELLIA R.-Desvoidy

F. MARITIMA Halid. Kelp fly. Common, June 20–July 15.

## ANTHOMYIA Meigen

A. PLUVIALIS Linn. Common, June 21–July 17.

## EUSTALOMYIA Kowarz

E. BRIZIA Walk. N. E. Harbor, July 16 (Minot).

## HYDROPHORIA Desvoidy

H. PROXIMA Mall. Witch Hole Pond; Salisbury Cove, June 13–July 18.

H. DIVISA Meig. Salisbury Cove, July 14.

H. UNIFORMIS Mall. Salisbury Cove, Aug. 11.

H. (ACROPTENA) AMBIGUA Fall. Bar Harbor; Echo Lake, June 14–July 20.

## PEGOMYA Desvoidy

P. AFFINIS Stein. (*P. vicina* St., not Lint.). N. E. Harbor, Sept. 24 (Minot).

P. BICOLOR Wied. Common, June 21–July 20.

P. CALYPTERATA Zett. Echo Lake, June 17.

P. CONNEXA Stein. (*P. emmesia* Mall.). Echo Lake; Long Pond, June 17–Aug. 26.

P. DISSECTA Meig. Salisbury Cove, July 24.

P. FUSCOFASCIATA Mall. Bar Harbor; Echo Lake, June 13–Sept. 7.

P. GENICULATA Bouché. 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. LITTORALIS Mall. Long Pond; Bar Harbor; Green Mt., July 16-24.
- P. LUTEOLA Mall. Echo Lake; Bar Harbor, July 12-Sept. 7.
- P. VITTIGERA Zett. Common, July 17-30.
- P. WINTHEMI Meig. Bar Harbor; S. W. Harbor, July 30-Sept. 8.
- P. LIPSIA (Wlk.). In laboratory, Sept. 15. Scarce.
- P. NIGRITARSUS Zett. Bred from *Chenopodium*, June 3-6 (Br.).

HAMMOMYA Rondani

- H. MARYLANDICA Mall. S. W. Harbor; Echo Lake, June 16-17.

EGLE Desvoidy

- E. MUSCARIA Fab. Station F241.

PAREGLE Schnabl and Dziedziecki

- P. AESTIVA Meig. S. W. Harbor, July 11.
- P. CINERELLA Fall. Echo Lake; Salisbury Cove, July 12-25.
- P. RADICUM Linn. Salisbury Cove, July 24.

PROSALPIA Pokorný

- P. ANGUSTITARSIS Mall. Common, July 12-25.
- P. SILVESTRIS Fall. S. W. Harbor; Bar Harbor, July 16-21.

HYLEMYSIA Desvoidy

- H. ALCATHOE Walk. Bar Harbor; S. W. Harbor, June 13-21.
- H. ANTIQUA Meig. 'Onion maggot.' Echo Lake, June 17.
- H. BRASSICAE Bouché. 'Cabbage maggot.' S. W. Harbor, July 13. Bred from cauliflower, July 18 (Br.).
- H. COENOSIAEFORMIS Stein. Common, June 17-Aug. 18.
- H. DEPRESSA Stein. S. W. Harbor; Salisbury Cove, June 16-July 24.
- H. INNOCUA Mall. Echo Lake; Eagle Lake; Bar Harbor, July 12-Aug. 16.
- H. INORNATA Stein. Common, June 18-July 10.

- H. LATIPENNIS Zett. Common, June 10-July 27.  
 H. PLUVIALIS Mall. S. W. Harbor, July 13.  
 H. TRIVITTATA Stein. (*H. longicauda* Mall.). Common, July 15-29.  
 H. CILICRURA Rond. (*fusiciceps* anet.). Common, June 7-Aug. 14.  
 H. LAEVIS Stein. Bar Harbor, Aug. 10.  
 H. TRICHODACTyla Rond. S. W. Harbor; Bar Harbor, July 11-19.

MUSCA Linnaeus

- M. DOMESTICA Limn. 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

- P. SERENA Meig. Salisbury Cove, July 15.

MORELLIA Desvoidy

- M. MICANS Macq. Common, June 9-Aug. 25.

LISPE Latreille

- L. ALBITARSIS Stein. Common, June 13-Sept. 13.  
 L. JOHNSONI Aldr. Newport Cove; Great Head, Sept. 13.  
 L. SOCIABILIS Loew. Witch Hole Pond, June 13.  
 L. TENTACULATA De G. Witch Hole Pond; S. W. Harbor; Newport Cove, June 13-Sept. 13.  
 L. ULIGINOSA Fall. Bar Harbor, June 13-Aug. 29.

HOPLOGASTER Rondani

- H. NIGRITARSIS Stein. Common, July 18-30.

## SCHOENOMYZA Haliday

- S. CHRYSOSTOMA Loew. Common, June 8–Aug. 13.  
 S. DORSALIS Loew. S. W. Harbor, June 16.  
 S. LITTORELLA Zett. Salisbury Cove; Bar Harbor, July 12–Sept. 13.

## MACROCOENOSIA Malloch

- M. TRISETA Stein. Common, June 7–July 30.

## COENOSIA Meigen

- C. COMPRESSA Stein. Bar Harbor; Eagle Lake, July 18–20.  
 C. FUSCIFRONS Mall. Bar Harbor, Aug. 10–29.  
 C. HUMILIS Meig. Bar Harbor; N. E. Harbor, June 21–Sept. 4.  
 C. LATA Walk. S. W. Harbor, Aug. 23.  
 C. NIGRESCENS Stein. S. W. Harbor; Tremont; Echo Lake, June 30–Sept. 7.  
 C. NUDISETA Loew. Bar Harbor, Sept. 11.

## MACROCHRIS Rondani

- M. AUSOBA Walk. Bar Harbor, July 3.

## LISPOTEPHALA Pokorný

- L. ALMA Meig. S. W. Harbor, Sept. 6.  
 L. ALMA var. PALLIPALPIS Zett. Echo Lake; Eagle Lake, July 12–18.  
 L. ERYTHROCERA Desv. Common, July 12–Aug. 23.

## DIALYTA Meigen

- D. FLAVITIBIA Johan. Salisbury Cove; Hadlock Pond; S. W. Harbor, June 10–July 20.

## LIMNOSPILA Sehnabé

- L. ALBIFRONS Zett. Salisbury Cove; Narrows; S. W. Harbor, July 25–Aug. 23.

## AZELIA R.-Desvoidy

A. CILIPEST Zett. Bar Harbor, Aug. 15.

## FANNIA R.-Desvoidy

F. CANICULARIS Linn. Little house fly. Common, June 20–Sept. 22.

F. CARBONARIA Meig. Common, June 17–Sept. 5.

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. INCISSURATA Zett. Bar Harbor; Salisbury Cove, July 19–24.

F. KOWARZII 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.

F. SOCIELLA Zett. S. W. Harbor, July 30–Aug. 21.

## SPILOGONA Schnabl

S. AEREA Fall. S. W. Harbor, June 21.

S. ALTICOLA Mall. Bar Harbor, June 7.

S. CAROLI Mall. Duck Brook; Green Mt.; Echo Lake, June 13–July 17.

S. CLIVICOLA Mall. Echo Lake; S. W. Harbor, June 17–20.

S. SUSPECTA Mall. Bar Harbor; Echo Lake, June 15–17.

S. TETRACHAETA Mall. Duck Brook; Bar Harbor, June 15–July 30.

Hackett considers these a subgenus of *Limnophora*.

## GRAPHOMYIA R.-Desvoidy

G. MACULATA Scop. Common, July 10–Sept. 7.

## MYOSPILA Rondani

M. MEDITABUNDA Fab. Eagle Lake, July 19.

*MYDAEA* R.-Desvoidy

- M. DISCIMANA* Mall. Common, June 13–July 15.  
*M. HIRTIVENTRIS* Mall. Echo Lake; S. W. Harbor; Bar Harbor,  
July 12–Aug. 16.  
*M. OCCIDENTALIS* Mall. Bar Harbor; N. E. Harbor, June 7–  
Aug. 15.  
*M. PAGANA* Fab. Bar Harbor, June 7.  
*M. URBANA* Meig. Bar Harbor; N. E. Harbor, July 17–22.

*LASIOOPS* Meigen

- L. INNOCUUS* Zett. Echo Lake; S. W. Harbor, June 17–July 11.  
*L. LATIPENNIS* Mall. S. W. Harbor, June 21, 1921.  
*L. SPINIGER* Stein. Echo Lake; S. W. Harbor, June 17–Aug. 23.

*ALLOEOSTYLUS* Schnabl

- A. DIAPHANUS* Wied. Common, June 15–Aug. 21.

*MUSCINA* Desvoidy

- M. ASSIMILIS* Fall. Record of capture lost.

*BIGOTOMYIA* Malloch

- B. HOUGHII* Stein. Echo Lake; Bar Harbor, July 17–Aug. 17.

*PLATYCOENOSIA* Strobl

- P. MIKI* Strobl. Bar Harbor, July 20.

*OPHYRA* Desvoidy

- O. LEUCOSTOMA* Wied. Common, June 22–Aug. 22.

## HELIKA Desvoidy

- H. brevis* Stein. S. W. Harbor, July 13.  
*H. johnsoni* Mall. S. W. Harbor, June 8.  
*H. lucorum* Fall. Common, June 8–Aug. 21.  
*H. lysinoe* Walk. Bar Harbor, Sept. 9–11.  
*H. marmorata* Zett. Common, June 16–July 27.  
*H. multisetosa* Schnabl. Bar Harbor; Long Pond, Sept. 4–7.  
*H. nigricans* Stein. Bar Harbor, June 21.  
*H. pectinata* Johan (*H. mimetica* Mall.). Common, June 7–July 22.

## PHAONIA Desvoidy

- P. apicata* Johan. Common, July 12–Aug. 21.  
*P. byssia* Walk. Common, June 21–July 19.  
*P. cayugae* Johan. (*P. nigricans* Johan, not Stein.). Bar Harbor; N. E. Harbor, July 14–Aug. 23.  
*P. curvipes* Stein. Eagle Lake; Long Pond, July 18–Aug. 21.  
*P. errans* Meig. Bar Harbor, July 26.  
*P. errans* var. *completa* Mall. N. E. Harbor, June 26; Bar Harbor, Sept. 10.  
*P. rufibasis* Mall. Salisbury Cove, Aug. 6.  
*P. serva* Meig. Common, June 11–Sept. 10.  
*P. fusca* Stein. S. W. Harbor, Sept. 6.

## HYDROTAEA R.-Desvoidy

- H. armipes* Fall. Salisbury Cove, July 24.  
*H. cristata* Mall. Salisbury Cove, July 24.  
*H. houghti* Mall. Bar Harbor, Sept. 9.  
*H. militaris* Meig. Common, June 17–Aug. 20.

## HEBECNEMA Schnabl

- H. affinis* Mall. Bar Harbor; Echo Lake, June 7–17.

## PHYLLOGASTER Stein

- P. cordylurooides* Stein. Salisbury Cove; Narrows, July 24–27.

## POGONOMYA Rondani

P. FLAVIPENNIS Fall. Witch Hole Pond; S. W. Harbor, June 13-July 30.

P. PROBOSCIDALIS Mall. Echo Lake, July 12.

P. FLAVINERVIS Mall. S. W. Harbor, June 22-24.

## STOMOXYS Geoffroy

S. CALCITRANS Linn. Biting house-fly. Bar Harbor; Salisbury Cove, July 31-Aug. 10.

## HAEMATORIA St. Fargeau &amp; Serville

H. IRRITANS Linn. Horn fly. Bar Harbor; Salisbury Cove, July 25-30.

## TETRAMERINX Berg

T. UNICA Stein. Narrows, Aug. 13.

## METOPIDIAE. The Flesh Flies

## METOPIA Meigen

M. LEUCOCEPHALA Rossi. Long Pond; S. W. Harbor, July 16-Aug. 22.

M. CAMPESTRIS Fall. N. E. Harbor; Long Pond, July 17-Aug. 21.

## BRACHYCOMA Rondani

B. SARCOPHAGINA Town. S. W. Harbor; Eagle Lake, June 21-July 18. Parasitic on the larvae in the nests of bumble bees.

## PACHYOPHTHALMUS Brauer and Bergenstamm

P. SIGNATUS Meig. Common, July 11-Aug. 13.

## WOHLFAIRIA Brauer and Bergenstamm

W. VIGIL Walk. Salisbury Cove, July 24.

## SENOTAINIA Macquart

S. TRILINEATA V.d.Wulp. Salisbury Cove; Sargent Mt., July 24-Aug. 8.

## CYNOMYA Desvoidy

C. CADAVERINA Desv. S. W. Harbor; Bar Harbor, June 22–July 15.

## CALLIPHORA Desvoidy. Blue-bottle flies

C. VOMITORIA Linn. Jordan Pond; Newport Cove, June 10–July 11.

C. VOMITORIA var. NIGRIBARBIS Shan. Common, July 11–Sept. 22.

C. ERYTHROCEPHALA Meig. Bar Harbor; Salisbury Cove, July 20–Sept. 9.

## PHORMIA R.-Desvoidy

P. REGINA Meig. Common, July 15–Sept. 11.

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. CAESAR Linn. Common, July 10–Sept. 22.

L. SYLVARUM Meig. Bar Harbor, July 29–Aug. 15.

## POLLENIA R.-Desvoidy. Cluster fly

P. RUDIS Fab. Common, June 17–Sept. 6.

## HELICOBIA Coquillett

H. HELICIS Town. S. W. Harbor, Sept. 8.

## AGRIA R.-Desvoidy

A. AFFINIS Fall. Echo Lake, July 12.

## SARCOPHAGA Meigen

- S. ATLANTIS Aldr. Salisbury Cove, July 18.  
 S. BISETOSA Park. S. W. Harbor; N. E. Harbor; Salisbury cove, July 10–Aug. 9.  
 S. CIMBICIS Town. S. W. Harbor; N. E. Harbor; Bar Harbor, June 21–July 19.  
 S. FLETCHERI Aldr. Salisbury Cove, July 18.  
 S. LATISTERNA Park. S. W. Harbor, Aug. 20–23.  
 S. SCOPARIA var. NEARCTICA Par. S. W. Harbor; Echo Lake; Witch Hole Pond, June 21–Sept. 8.  
 S. SINUATA Meig. Bar Harbor; Salisbury Cove; S. W. Harbor, June 14–Sept.  
 S. (RAVINIA) COMMUNIS Park. Salisbury Cove, June 9.  
 S. (RAVINIA) PENICULATA Park. Echo Lake; S. W. Harbor, June 17–Sept. 6.

## 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 breeding, for in that way one gets perfect specimens and complete records.

## BOMBYLIOPSIS Townsend

- B. ABRUPTA Wied. Bar Harbor; N. E. Harbor; S. W. Harbor, July 24–Sept. 6.

## CYLINDROMYIA Meigen

- C. DOSIADES (Walk.). Bar Harbor, Aug. 30, '37 (Br.). Scarce.  
 C. INTERRUPTA Meig. (*O. dosiades* Walk.). Bar Harbor; Salisbury Cove, July 22–Sept. 11.

## EPALPUS Rondani

- E. SIGNIFERUS Walk. Bar Harbor; Echo Lake, June 9–July 19.

*EUTRICHOGENA* Townsend

*E. SETIPENNIS* Coq. S. W. Harbor; N. E. Harbor (Minot),  
July 15–26.

*ARCHYTAS* Jaennicke

*A. ANALIS* Fab. Bar Harbor; S. W. Harbor, July 15–Sept. 6.  
*A. ATERRIMA* Desv. Bar Harbor; Echo Lake; S. W. Harbor,  
July 17–Sept. 6.

*JURINTIA* Desvoidy

*J. DECISA* Walk. Echo Lake; S. W. Harbor; Bar Harbor,  
July 12–Sept. 11.

*CNEPHALIODES* Brauer & Bergenstamm

*C. ALGENS* Wied. Common, July 10–Sept. 7.  
*C. DAKOTENSIS* var. *ORIENTALIS* Town. S. W. Harbor, June 20–  
Sept. 6.  
*C. DOSIADES* (Walk.). Bar Harbor (Br.); Eden, July 22–  
Sept. 11.  
*C. HISPIDA* Toth. Record of capture lost.  
*C. MONTANA* Town. S. W. Harbor, June 20–July 15.

*CYRTOPHLOEBA* Rondani

*C. HORRIDA* Coq. S. W. Harbor; N. E. Harbor, June 21–  
Aug. 11.

*LYDINA* Desvoidy

*L. AREOS* Walk. Salisbury Cove; Narrows; S. W. Harbor,  
June 9–Sept. 6.

*MYIOPHASIA* Brauer & Bergenstamm

*M. NIGRIFRONS* Town. Narrows, Aug. 13.

*GYMNOPHANIA* Brauer & Bergenstamm

*G. MONTANA* Coq. S. W. Harbor; Salisbury Cove, June 25–  
July 14.

## LINNAEMYA Desvoidy

*L. COMTA* Fall. Bar Harbor, July 19–Aug. 10.

*L. HAEMORRHOIDALIS* Fall. (*L. picta* Meig.). Common, July 11–Sept. 6.

## RHYNCHIODEXIA Bigot

*R. HARPASA* Walk. Common, June 7–Aug. 14. The larva is parasitic on white grubs, the larvae of the May beetles (*Phyllophaga*).

## DINERA Desvoidy

*D. FUTILIS* West. S. W. Harbor; Long Pond; Salisbury Cove, July 16–23.

## APINOPS Coquillett

*A. ATRA* Coq. S. W. Harbor, Aug. 20.

## GYMNOSOMA Meigen

*G. DUBIA* West. S. W. Harbor, July 19, 1923.

*G. FULIGINOSA* Desv. Common, June 7–Sept. 10. Ex. currant fruit (Br.).

## CISTOGASTER Latreille

*C. DIVERSA* Loew. Bubble Brook on blackberry blossoms, June 15.

*C. OCCIDUA* Walk. Common, June 18–Aug. 16.

## TRICHOCLYTIA Townsend

*T. ATRATA* Coq. N. E. Harbor, June 26 (Minot).

## CHRYSERIA Desvoidy

*C. FLAVA* Town. Common, July 13–26.

## PHASIA Latreille

*P. AENEOVENTRIS* Will. Common, June 25–Aug. 16.

*P. PHASIOIDES* Coq. Bar Harbor, June 15.

*P. PULVEREA* Coq. Salisbury Cove, July 23, 1925.

*P. SPLENDIDA* Coq. Salisbury Cove; N. E. Harbor, July 25–Aug. 23.

## ALOPHORA Desvoidy

*A. SPLENDIDA* Coq. Record of capture lost.

## VORIA Desvoidy

*V. AMERICANA* V. d. W. Bar Harbor; Narrows, June 21–Aug. 11.

CRYPTOMEIGENIA Brauer & Bergenstamm

*C. PRISCA* Walk. Bar Harbor, June 11–27.

## CLISTOMORPHA Townsend

*C. TRIANGULIFERA* Loew. Common, June 11–Sept. 6. Mating pair laboratory, Aug. 14.

## EUTRIXA Coquillett

*E. EXILE* Coq. Salisbury Cove, Aug. 7, 1926. Parasitic on May beetles.

## PHRYNOFRONTINA Townsend

*P. DISCALIS* Town. S. W. Harbor; Long Pond, Aug. 20–Sept. 6.

## BLONDELIA Desvoidy

*B. ASSIMILIS* Town. Common, July 17–24.

B. sp. S. W. Harbor, July. Bred from *Archips*.

## WINTHEMIA Desvoidy

*W. DETANA*. Bred from *Detana ministra*, Aug. 8 (Br.).

*W. QUADRIPUSTULATA* Fab. Common, July 16–Aug. 17.

*W. sp. (nov.?)* det. D. G. Hall. Ex. *Shizura* sp. Aug. 17–20.

## COMPSILURIA Boneh 

*C. CONCINNATA* Meigen. Parasitic on Gypsy Moth (*Porteretria*), *Apateila*, and other lepidoptera. Bred June 20 (Br.). Long Pond, Aug. 21.

## DORYPHOROPHAGA Townsend

- D. ABERRANS Town. S. W. Harbor; Bar Harbor, Sept. 6-13.  
A parasite of the potato beetle.
- D. DORYPHORAE Riley. S. W. Harbor, Sept. 6. Also parasitic  
on the potato beetle.

## PHOROCERA Desvoidy

- P. COCCYX Aldr. & Webb.? Duck Brook, Sept. 11.  
P. sp. Bred from pitch pine sawfly material, June 21 (Br.).

## GYMNOCHAETA Desvoidy

- G. VIVIDA Will. Bar Harbor, June 21.

## ERNESTIA Desvoidy

- E. AMPELUS Walk. Bar Harbor, June 23.  
E. ARCUATA Toth. Bar Harbor, June 7-21.  
E. NIGROPALPIS Toth. Long Pond, Aug. 21.  
E. PLATYCARINA Toth. N. E. Harbor (Minot); S. W. Harbor,  
Sept. 4-6.

## PSEUDEUANTHA Townsend

- P. PRISTIS Walk. Salisbury Cove; Eagle Lake, July 15-18.

## NEMORILLA Desvoidy

- N. MACULOSA Meig. (*pyste* Walk.). Long Pond; Green Mt.;  
S. W. Harbor, July 15-Aug. 21.

## 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. (PHRYXE) CAESAR Aldr. (*E. nigripalpis* Town.). Common,  
Aug. 13-Sept. 6.  
Z. (PAREXORISTA) CHELONIAE Rond. Penikese, July 12.  
Z. EUDRYAE Town. N. E. Harbor, July 13 (Minot).  
Z. (PAREXORISTA) CONFINIS Fall.

*Z. (PHYRYXE) VULGARIS* Fall. Penikese; Witch Hole Pond,  
July 23–Sept. 11.

*Z. HELVINA* Coq. S. W. Harbor; Penikese, Aug. 11–22.

*Z. VIRILIS.* Green Mt., Aug. 17.

**GONIA** Meigen

*G. (CNEPHLOGONIA) DISTINCTA* Smith. Common, July 15–  
Aug. 22.

*G. FRONTOSA* Say. Bar Harbor, June 11.

**SPALLANZANIA** Desvoidy

*S. HESPERIDARUM* Will. Salisbury Cove, July 24.

**PELETERIA** Desvoidy

*P. ANAXIAS* Walk. (*P. robusta* of authors). N. E. Harbor;  
S. W. Harbor, Aug. 23–Sept. 6.

*P. CONFUSA* Curr. Echo Lake; S. W. Harbor; Bar Harbor,  
July 12–Sept. 11.

*P. ITERANS* Walk. (*P. tessellata* of authors). S. W. Harbor,  
Sept. 6.

**MICROPHTHALMA** Maequart

*M. DISJUNCTA* Wied. Witch Hole Pond, Sept. 11.

*M. MICHIGANENSIS* Town. Salisbury Cove, Aug. 9.

**BLEPHARIGENA** Rondani

*B. SPINULOSA* Bigot. Salisbury Cove, July 23.

**PHYLLOMYA** Desvoidy

*P. POLITA* Coq. Long Pond, July 16.

**EUBRACHYMERA** Townsend

*E. DEBILIS* Town. S. W. Harbor, July 15–20.

## SPATHIMEIGENIA Townsend

S. AURIFRONS Curr. Bred from *Neodiprion pini-rigidae*, July 7 (Br.).

S. SPINIGERA Town. Bred from lepidoptera larva, July 25 (Br.).

## WAGNERIA Desvoidy

W. SEQUAX Will. Salisbury Cove, June 9.

## STURMIA Desvoidy

S. ALBIFRONS Coq. Salisbury Cove, July 19.

S. INCOMPTA v. d. W. Bred from *Sphingidae* pupae, July 13 (Br.).

## SCHIZOTACHINA Walker

S. CONVECTA Walk. Salisbury Cove, Aug. 9, 1926.

## ACHAETONEURA Brauer &amp; Bergenstamm

A. ALETIAE Riley. Green Mt., July 25.

A. FRENCHI Will. Bred from *Malacosoma americana* caterpillars. Pupated June 19 and hatched July 22. Scarce.

A. TENTHREDINIDARUM. Parasitizing *Lygaeonematis ericksonii* Aug. 8, '27, Salman.

## EXORISTA Meigen

E. SIMULANS Meig. (*Tachina rustica* of authors). Common, July 11-Aug. 23. Station F136. Parasitic on *Macrephytus intermedius*. Bred July 10 (Br.).

## CHAETOPHLEPS Coquillett

C. SETOSA Coq. S. W. Harbor, Sept. 3.

## ANACHAETOPSIS Brauer &amp; Bergenstamm

A. TORTRICIS (Coq.) det. D. G. Hall, 1938. Reared Bar Harbor, June 10, 1936. Ex. *Ancylis floridana* (Br.).

## ELODIA Desvoidy

E. BARBATA Coquillett (*Methypostena*). June 11 (Br.).

E. LUSTUOSA Mg. See Aldrich Proc. Ent. Soc. Wash., vol. 30, p. 42, 1928. Eden, July 18.

## CELATORIA Coquillett

C. DIABROTAE Shimer. Salisbury Cove, July 14.

C. SPINOSA Coq. Bar Harbor; S. W. Harbor, July 30–Sept. 6.

## BESSA Desvoidy

B. TENTHREDINIDARUM Town. Eden; S. W. Harbor, July 10–Sept. 6.

## 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 ferradona*).

## ACTIA Desvoidy

A. AMERICANA Town. N. E. Harbor, June 26–July 16 (Minot).

A. PALLORIS Coq. N. E. Harbor, July 6 (Minot).

A. PILIPENNIS Fall. Common, June 9–Sept. 6.

## PSALIDOPTERYX Townsend

P. SLOSSONI Cog. det. D. G. Hall, 1938. Bar Harbor, July 17, 1934, no. 145, leaf tier, white birch.

## SIPHONA Meigen

S. GENICULATA DeG. Bar Harbor; S. W. Harbor; N. E. Harbor, June 9–Aug. 10.

## EPIGRIMYIA Townsend

E. FLORIDENSIS Town. Long Pond; Green Mt.; Bar Harbor, June 16–Aug. 17.

## OCHROCERA Townsend

O. VAGINALIS Town. Bar Harbor, Aug. 10.

## SPATHIDEXIA Townsend

S. CLEMONSI Town. Eden, July 13.

## CLAUSICELLA Rondani

C. DOSIADES (Walk.). Bar Harbor (Br.); Eden, July 22–Sept. 11.

C. TARSALIS (Coq.). S. W. Harbor, Aug. 4. Scarce.

DEXODES Brauer & Bergenstamm (*Nothelairia*)

N. AURIFRONS Coq. Bred from willow sawfly material, July 19 (Br.).

N. CHAETONEURA Coq. Same as above, Aug. 10.

## LIXOPHAGA Townsend

L. VARIABILIS Coq. Common, June 20–Sept. 13.

## LYDELLA Desvoidy

L. LATHAMI Curran. Mt. Desert, July. Scarce.

## THELAIRA Desvoidy

T. NIGRIPES Fab. Bar Harbor, June 23–Sept. 10.

## GENEA Rondani

G. TEXENSIS Town. Bar Harbor, June 18.

## PHYLLOPHIOPSIS Townsend

P. NITENS. Salisbury Cove, July 18.

## PUPIPARA

## HIPPOBOSCIDAE

ORNITHOICA Rondani

O. CONFLUENTA Say. Frequent sparrows, owls, etc. On  
sparrow, Aug. 17 (Br.).

ORNITHOMYIA Latreille

O. ANCHINEURA Speiser (*O. pallida* Say). Bar Harbor, July  
(Moore). Frequent song and chipping sparrows, junco,  
robin, etc.

ORNITHOPONUS Aldrich

O. AMERICANUS Leach. Frequent great horned owl, red-  
shouldered hawk, ruffed grouse, etc.

MELOPHAGUS Latreille

M. OVINUS Linn. The Sheep tick is on the few sheep here.

## Order HYMENOPTERA

## SYMPHYTA. Sawflies and horn-tails

## PAMPHILIIDAE. Leaf-rolling sawflies

## ITYCORSIA Konow

- I. BRUNNICEPS (Cress.). Mt. Desert Nurseries, July 6  
(Salman).  
I. LUTEOPICTA Roh. Bar Harbor, July 19 (Br.).  
I. PULLATA Cress. N. E. Harbor, Aug. 10 (Minot).

## CEPHALEIA Jurine

- C. FUSCIPENNIS Cress. Bar Harbor, June 6 (Br.).  
C. n. sp. Salisbury Cove, July 12.

## PAMPHILIUS Latreille

- P. OCHREATUS Say. Bar Harbor, June 7 (Br.).

## ANOPLOLYDA Costa

- A. PALLIMACULUS (Nort.). S. W. Harbor, July 15.  
A. RUFOFASCIATA Nort. Newport Cove; Great Head, July 11.

## CAENOLYDIA Konow

- C. PINI Roh. August 2; reared from white pine (Br.).

## CEPHIDAE

## JANUS Stephens

- J. BIMACULATA Nort. S. W. Harbor, July 10.

## XIPHIDIIDAE

## XIPHIDRIA Latreille

- X. TIBIALIS Say. Salisbury Cove, July 15 (Olsen).

## SIRICIDAE. The Horn Tails

## SIREX Linnaeus

- S. ABBOTTII Kirby. Mt. Desert, Aug. 10. Bred from *balsami* (Br.), Sept. 26.
- S. ABDOMINALIS (Harris). Bar Harbor flying, Aug. 5. Bred Sept. 9 from a lot of mixed hardwood.
- S. JUVENCUS var. CYANEUS Fab. Bar Harbor, Sept. 20 (Br.). Bred from spruce at Corfield Sept. 9-17.

## UROCERUS Geoffroy

- U. ALBICORNIS Fab. Bar Harbor and west side of Island in July. The larva bores in spruce and fir. The best way to take these is to go where trees are being felled for pulp and climb into and search the tops.
- U. CRESSONI Nort. Bar Harbor (Br.) and Penikese, July 8-Aug. 11. Scarce.
- U. FLAVICORNIS Fab. Bar Harbor, August 9 (Br.).

## 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. greenei*. After taking a series of specimens, the tree was left and then cut and Dr. Brower brought it into the insectary and it is yielding some wonderful material for life history. Up to the present 777 individuals have hatched.

## CRABRONIDAE

CRABRO Geoffroy (*Cimbex* Olivier and auct.)

- C. AMERICANUS Leach. American sawfly 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. AMERICANA var. ALBUS (Nort.). Seal Cove (Sanford); Salisbury Cove; Corfield, June 20–July 24.
- C. AMERICANA 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.

## ARGIDAE

ARGE Schrank (*Hylotoma* Latreille)

- A. CLAVICORNIS Fab. Common, July 17–Aug. 19. The larva feeds on willow.
- 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. VERACEUS Klug. Record of capture lost.
- A. sp. Eden, July 12.

## STERICTIPHORA Billberg

- S. EBENA Nort. Jordan Pond, June 10.

## DIPRIONIDAE

## DIPRION Schrank

- D. (*LOPHYRUS*) ABBOTTI (Leach).  
 D. POLYTOMUM Htg. Bar Harbor, July 19–Aug. 8 (Br.).  
 D. SIMILE Hartig. Introduced Pine Sawfly. Bred from *Pinus strobus*, May 15–June 8 (Br.).

## NEODIPRION Rohwer

- N. ABBOTTI Leach. ‘Mt. Desert, Aug., 1872’ (Cora H. Clarke).  
 The larva feeds on white pine.  
 N. ABIEIS Harr. N. E. Harbor, Aug. 11 (Minot). The larva  
 feeds on spruce, fir, and pine.  
 N. PINI-RIGIDAE Nort. Bred from pitch pine, July 1 (Br.).  
 N. sp. About *Juniperus communis*, May 15 (Br.).  
 N. sp. Bred from red spruce (*Pinus rubens*), Aug. 27 (Br.).

## TENTHREDINIDAE. Typicall sawflies

## STRONGYLOGASTROIDEA Ashmead

- S. APICALIS Say. Upper Hadlock Pond; Bar Harbor, S. W.  
 Harbor, June 10–July 15. The larva feeds on *Rubus*.  
 S. PALLICORNIS Nort. Bar Harbor, July 24.  
 S. TERMINALIS Say. Echo Lake; S. W. Harbor, June 22–July  
 15.

## MONOCTEMUS Dahlbom

- M. MELLICEPS Cresson? Bar Harbor, July (Br.), about  
*Juniperus communis*.

## DIMORPHOPTERYX Ashmead

- D. MELANOGNATHUS Roh. Bar Harbor, Aug. 17.  
 D. ORONIS MacG. Salisbury Cove, July 25.  
 D. PINGUIS Nort. Salisbury Cove, July 14. The larva feeds  
 on birch, cherry, maple, etc.

## MACREMPHYTUS MacGillivray

- M. INTERMEDIUS Dyar. Bar Harbor, June and July (Br.).

## AMETASTEGIA A. Costa

A. EQUISETUM var. BIZONATUM Zett. Bar Harbor, August 25, 1933 (Br.).

A. TENER Fallén. Bar Harbor, September 16, 1936 (Br.).

## PARATAXONUS MacGillivray

P. MULTICOLOR Nort. Echo Lake; Seal Cove; S. W. Harbor, June 20-July 17. The larva feeds on white and yellow birch.

ATLANTUS Panzer (*Emphytus* auct.)

A. BASALIS Klug. Salisbury Cove, July 25.

A. CINCTIPES Norton. June, reared from cultivated rose (Br.).

## EMPHYTINA Rohwer

E. VANDUZEEI Roh. Jordan Pond, June 10.

## DOLERUS Jurine

D. sp. S. W. Harbor, June 21.

## LODERUS Konow

L. ALBIFRONS Nort. Seal Cove, June 20.

## BIVENA MacGillivray

B. DELTA Prov. Bar Harbor, June 28 (Br.).

B. QUATTRODECIMPUNCTATA Norton. Bar Harbor, June 15 (Br.).

## LAGIUM Konow

L. ATROVOLACEUM Nort. Bar Harbor; Upper Hadlock Pond, June 10.

## NEOPUS MacGillivray

N. QUATUORDECIMPUNCTATUS Nort. Bar Harbor, June 8.

## PACHYPROTASIS Hartig

P. RAPAE Linn. Echo Lake, July 12.

## MACROPHYA Dahlbom

- M. FASCIALIS Nort. S. W. Harbor; Long Pond, June 25-July 16. The larva feeds on elder.
- M. FLAVICOXA Nort. Bar Harbor; S. W. Harbor, June 9-July 15.
- 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.
- M. TRISYLLABA Nort. Common, June 11-July 18. The larva feeds on elder.
- M. VARIA Nort. Bar Harbor; Long Pond; S. W. Harbor, June 11-July 26.
- M. ZONALIS Nort. S. W. Harbor; Long Pond; N. E. Harbor, July 13-26.

TENTHREDO Linnaeus (*Allantus Jurine*)

- T. BASILARIS Say. Common, July 10-Sept. 7.
- T. DUBIUS Norton. Bar Harbor, August 9 (Br.).

## TENTHREDELLA Rohwer

- T. ANGULIFERA Nort. Bar Harbor, June 9-July 21.
- T. BASILARIS Prov. S. W. Harbor, June 20.
- T. EXIMIA Nort. Salisbury Cove, Aug. 9.
- T. GRANDIS Nort. Echo Lake, July 17.
- T. LEUCOSTOMA Kby. Bar Harbor; Echo Lake; S. W. Harbor, June 9-July 20.
- T. MELLINA Nort. Bar Harbor; Salisbury Cove, July 17-27.
- T. MUTANS Nort. S. W. Harbor, July 15-18.
- T. RUFOPECTA Nort. N. E. Harbor, July 1-8 (Minot).
- T. RUFOPECTA var. MELLICOXA Prov. Long Pond; Bar Harbor, July 16-18.
- T. SECUNDA MacG. S. W. Harbor; Echo Lake, July 13-17.
- T. SEMIRUBRA Nort. Bar Harbor; Green Mt.; Salisbury Cove, June 9-Aug. 7.

- T. SIGNATA Nort. Bar Harbor; S. W. Harbor, June 9-22.  
T. TRICOLOR Nort. S. W. Harbor, July 15.  
T. VERTICALIS Say. S. W. Harbor; Echo Lake; Bar Harbor,  
June 21-July 26.  
T. XANTHA Nort. Seal Cove, July 10.

## CALIROA O. Costa

- C. CERASI L. June; reared from pear (Br.).

## FENUSA Leach

- F. PUMILA Klug. Birch Leaf-miner. Bred (Br.), July 13-26.

## KALIOFENUSA MacGillivray

- K. DOHRNII Tischb. Bar Harbor, August 13, on alder (Br.).

## METALLUS Forbes

- M. ROHWERI MacG. August 29; reared from blackberry (Br.).

## EMPRIA LePeletier

- E. sp. Bar Harbor, June 13.

## BLENNOCAMPA Hartig

- B. sp. Bar Harbor, July 24.

## POLYSELANDRIA MacGillivray

- P. FLAVIPES Nort. Jordan Pond; S. W. Harbor, June 10-July  
15. The larva feeds on brake (*Pteris aquilina*).

## HEMITAXONUS Ashmead

- H. ALBIDOPICTUS Nort. Echo Lake, June 17.

- H. DUBITATUS Nort. Bar Harbor, June 15. The larva feeds  
on the sensitive fern (*Onoclea sensibilis*).

## EPITAXONUS MacGillivray

- E. ALBIDOPICTUS Nort. Echo Lake; Eagle Lake, June 17-  
July 18.

## TAXONUS Hartig

- T. NIGRISOMUS Nort. S. W. Harbor, July 11. The larva feeds on dock (*Rumex*).  
 T. UNICINCTUS Nort. Green Mt.; Bar Harbor; Echo Lake, June 15-July 25.

## STRONGYLOGASTER Dahlbom

- S. TACITUS Say. Upper Hadlock Pond, June 10.  
 Z. SORICULATUS Cresson. Bar Harbor, June 3, 1935 (Br.).

## TRICHIOCAMPUS Hartig

- T. GREGARIUS Dyar. Bar Harbor, June (Br.).  
 T. IRREGULARIS Dyar. Echo Lake, June 17-July 17.

## HEMICROA Stephens

- H. AMERICANA Prov. Seal Cove, June 20 (Sanford).

## PONTANIA Costa

- P. POMUM Walsh. Willow apple gall. Bar Harbor; Salisbury Cove (Sanford). The larvae form galls on the leaves of willow.  
 P. PISUM Walsh. S. W. Harbor, July 11. The larvae form subsphaerical galls on the under side of the leaves of willow.  
 P. sp. S. W. Harbor, July 11.

## PTERONIDEA Rohwer

- P. AMELANCHERIDIS Rohwer. Bar Harbor, June 12 (Br.).  
 P. MENDICAS Walsh. S. W. Harbor, Sept. 5 (Alexander).  
 P. POPULI Marlatt. May; bred from poplar (Br.).  
 P. RIBESII Scop. Bar Harbor, August; on currants (Br.).  
 P. SIMILARIS Nort. S. W. Harbor, July 11.  
 P. TRICOLOR Marl. Bar Harbor, July 27.

## CROESUS Leach

- C. LATITARSUS Nort. Bar Harbor; Long Pond; Narrows, June 15-Aug. 13. The larva feeds on birch.

## NEMATUS Panzer

- N. ODORATUS Dyar. Bar Harbor, June 14 (Br.).

## PACHYNEMATUS Konow

- P. ALASKENSIS Rohwer. Bar Harbor, July, on spruce (Br.).  
 P. CORNIGERA Nort. Echo Lake; Seal Cove; Bar Harbor,  
 June 20–Aug. 18.

PIKONEMA Ross

- P. DIMMOCKII Cresson. Larvae on spruce.

## PRISTIPHORA Latreille

- P. BIVITTATA Nort. S. W. Harbor, July 13. The larva feeds  
 on *Spiraea*.  
 P. GENICULATA Hartig. Abundant on mountain ash, June to  
 August.  
 P. MURTFELDTIAE Marl. Echo Lake; S. W. Harbor, June 21–  
 July 10.  
 P. sp. near PALLICOXA Roh. S. W. Harbor, July 29.

## LYGAEONEMATUS Konow

- L. ERICKSONII Hartig. Raised by Salman from larvae Aug. 24  
 and of which some were parasitized by (*Achaetoneura*  
*tenthredinidarum* Town). Bred from larch Aug. 20–Sept.  
 (Br.).

DIPHADNUS Hartig

- D. APPENDICULATUS Hartig. Bar Harbor, August 23 (Br.).

## EUURA Newman

- E. OVUM Walsh. Willow Egg-gall. Echo Lake, July 12. The  
 larvae form egg-shaped galls on the twigs of willow.

## BRACONIDAE

## COEOLOIDES Wesmael

- C. sp. Seal Cove Brook, Sept. 8.

## ATANYCOLUS Foerster

- A. sp. Bred from *Saperda concolor* gall, June 18 (Br.).

## SPATHIUS Nees

S. sp. Echo Lake; S. W. Harbor; Bar Harbor, June 15.

## IPHIAULAX Foerster

I. AUGUSTUS Vier. S. W. Harbor, July 20.

I. EURYGASTER (Brulle). Bred from oak twig pruner, June 6 (Br.).

## MICROBRACON Ashmead

M. APICATUS Prov. Bar Harbor; Salisbury Cove; S. W. Harbor, July 18-30.

M. GELECHIAE Ashm. Bar Harbor, Aug. 18. Parasitic on various species of *Gelechia* and other Microlepidoptera.

M. LUTUS Prov. Bar Harbor, July 24.

M. MELANASPIS Ashm. Pars. of Coleophora *salmani*. Mt. Desert, July (Br.); S. W. Harbor, July 13.

M. MEROMYZAE Gahan. S. W. Harbor; Long Pond, July 13-16. Parasitic on *Meromyza americana*.

M. MONTOWESI Vier. Pars. of *Paraclemensia acerifoliella*. Mt. Desert, May 29 (Br.).

M. NANUS Prov. S. W. Harbor, June 27.

M. NITIDUS Prov. S. W. Harbor, July 13.

M. NUPERUS Cress. Salisbury Cove, July 25.

M. PINI Mues. Long Pond, June 17. Parasitic on the white pine weevil (*Pissodes strobi*).

M. PODUNKORUM Vier. Bar Harbor, Aug. 15.

M. PYGMAEUS Prov. S. W. Harbor, Sept. 6. Parasitic on Microlepidoptera of the genus *Coleophora*.

M. TENUICEPS Mues. (Proc. U. S. Nat. Museum, vol. 67, art. 8, p. 46, 1925). Bar Harbor; Salisbury Cove; Narrows, etc., July 10-25. Parasitic on weevils.

M. n. sp. (Muesebeck). Bar Harbor, Aug. 16.

## HETEROSPILUS Haliday

H. LEPTOSTYLI Roh. Pars. of borers in cherry. Mt. Desert, June 28 (Br.).

## EXOTHECUS Wesmael

E. sp. det. C. F. W. M. 1938. Bar Harbor, Me., June 7, 1934.  
Pars. *Lithocolletis corylisella*.

## PHANOMERIS Muesebeck

P. PHYLLOTOMAE Mues. det. C. F. W. M. 1938. Bar Harbor, Me.,  
June 15, 1937. Pars. *Phyllotoma nemorata*, June 10, 1937.  
Pars. *Phyllotoma* or *Anchylopera*.

## EPIHYSSALUS Ashmead

E. sp. Pars. on *Phyllotoma nemorata*. Mt. Desert, June 7  
(Br.).

## NOSERAS Foerster

N. sp. Station F179, Aug. 24.

## BUCCULATRIPLEX Viereck

B. SECUNDUS Vier. Pars. of *Phyllotoma nemorata* Mt. Desert,  
June 21–28 (Br.). Bred from *Bucculatrix canadensiella*.

## RHYSIPOLIS Foerster

R. sp. det. C. F. W. M. 1933. Mt. Desert Isl., Aug. 11, 1932.  
Pars. Blotch miner white birch (Br.).

R. sp. det. C. F. W. M. 1938. Bar Harbor, June 15–30, 1937.  
Ex. birch leaves containing *Phyllotoma* (Br.).

R. n. sp. det. C. F. W. M. 1938. Bar Harbor, Ex. *Gracilaria fraxinella*.

R. n. sp. det. C. F. W. M. 1934. Ex. *Gracilaria fraxinella*, Bar  
Harbor, July, 1933 (Br.).

ROGAS (*Aleiodes*) Nees

R. CANADENSIS (Cress.). Pars. on *Catolala reducta* and *Phyllotoma nemorata*. Mt. Desert, July 13–19 (Br.).

R. INTERMEDIUS Cress. S. W. Harbor; Bar Harbor; Salisbury  
Cove, June 27–July 18.

R. TERMINALIS Cress. Bar Harbor, June 13.

R. n.sp. Mt. Desert on pine, June 18 (Br.).

CHELONUS (*Cheonella*) Panzer

- C. BASILARIS Say. Echo Lake, July 17.  
 C. FISSUS Prov. Narrows, July 27.  
 C. SASSACUS Vier. Narrows; Salisbury Cove, July 25-27.  
 C. SERICEUS Say. Bar Harbor; Salisbury Cove, July 24-Aug. 16.  
 C. sp. Salisbury Cove, Aug. 11.  
 C. sp. Pars. on *Arbor vitae* leaf miners. Mt. Desert, July 25 (Br.).

## ASCOGASTER Wesmael

- A. CARPOCAPSAE Vier. S. W. Harbor, July 13.

## MICROGASTER Latreille

- M. BREVICAUDA Prov. Salisbury Cove; S. W. Harbor, July 14, 19.  
 M. CANADENSIS Mues. Pars. on leaf-rollers of poplar. Mt. Desert, July 11 (Br.).  
 M. EPAGOGES Gahan. Salisbury Cove, July 18. Parasitic on *Epagoe sulfureana*.  
 M. FACETOSA Weed. Common, July 10-20. Parasitic on the clover-moth (*Plathypena scabra*).  
 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.).

## MICROPLITIS Foerster

- M. ALASKENSIS Ashm. S. W. Harbor; Salisbury Cove, July 14-18. Parasitic on *Hadena* and *Plusia*.  
 M. CERATOMIAE Riley. S. W. Harbor; Bar Harbor, July 20-24. Parasitic on the larvae of *Sphingidae*, *Ceratomia*, *Paonias* and *Sphinx*.  
 M. FELTIAE Mues. S. W. Harbor, July 19. Parasitic on 'caterpillars' of the genus *Feltia*.  
 M. sp. Pars. on *Catocala antinympha*. Mt. Desert, July 1 (Br.).  
 M. n.sp. (Muesebeck). Bar Harbor, July 24.

## APANTELES Foerster

- A. ACRONYCTAE Riley. Salisbury Cove, July 15. Parasitic on *Acronycta* sp.
- A. ARISTOTELIAE Vier. S. W. Harbor; Salisbury Cove, July 14, 15. Parasitic on *Gelechia trialbamaculella*.
- A. CACOECIAE Riley. S. W. Harbor; Bar Harbor, July 13-26. Parasitic on *Cacoecia*.
- A. CONANCHETORUM Vier. Bar Harbor, July 24.
- A. EDWARDSHI Riley. S. W. Harbor; Green Mt., July 20-28. Parasitic on *Vanessa atalanta*.
- A. EPINOTIAE Vier. Witch Hole Pond; S. W. Harbor, Aug. 18-Sept. 6. Parasitic on *Euarmonia*.
- A. FISKEI Vier. Salisbury Cove, July 15.
- A. GLOMERATUS (Linn.). Pars. on *Ascia rapae*. Mt. Desert, July 16 (Br.).
- A. GRIFFINI Vier. S. W. Harbor, June 27. Parasitic on 'cut-worms,' *Feltia* sp.
- A. HYPHANTRIAE Riley. On poplar. Mt. Desert, July 8 (Br.).
- A. LONGICORNIS Prov. S. W. Harbor; Long Pond, July 10-19.
- A. MELANOPUS Vier. Echo Lake; Salisbury Cove, June 17-July 18.
- A. MIANTONOMOI Vier. S. W. Harbor, July 14.
- A. ORNIGIS Weed. Green Mt., Aug. 17 Parasitic on *Lithoclellis* sp.
- A. ORBENAE Forbes. Long Pond, July 10. Parasitic on *Evergestis* sp.
- 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. POLYCHROSIDIS Vier. Common, July 18-25. Parasitic on *Cocoecia rosacea*.
- A. ROHWERI Mues. S. W. Harbor, June 21. Parasitic on *Gracilaria*.
- A. SCITULUS Riley. Pars. on *Apatela oblinita*? Sept. 14 (Br.).

- A. TISCHERIAE Vier. S. W. Harbor, Aug. 11. Parasitic on *Tischeria*.  
 A. XYLINUS Say. Common, June 10–Aug. 16. Parasitic on one of the ‘cutworms,’ *Agrotis c-nigrum*.  
 A. sp. Pars. on *Dicyymolomia julianalis*, Aug. 16 (Br.).  
 A. n.sp. Pars. on Arbor vitae leaf-miner. July (Br.).

## AGATHIS Latreille

- A. FEMORATOR Prov. Bar Harbor; Green Mt., Aug. 10–17.

## BASSUS Fabricius

- B. BICOLOR (Prov.). Pars. on *Rhyacionia comstockiana*, July 6 (Br.). Bar Harbor; Salisbury Cove, Aug. 13–18.  
 B. BREVICAUDA Mues. Pars. on *Coleophora* sp. *Myrica asplenifolia* 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. PERFORATUS Prov. Bar Harbor, Aug. 14.  
 B. TIBIATOR Prov. Green Mt., Aug. 17.  
 B. n.sp. Pars. on Arbor vitae leaf miner, Aug. 5 (Br.).

## ORGILUS Haliday

- O. LATERALIS (Cress.). Pars. on Arbor vitae leaf-miner, July 24 (Br.).  
 O. n.sp. Pars. on *Recurvaria thujaella*, July 13 (Br.).

## ORGILOMORPHA Ashmead

- O. GELECHIAE (Ashm.) det. C. F. W. M. Pars. oak blotch miner, Mt. Desert, July 8 (Br.).

## EUBADIZON Nees

- E. GRACILE Prov. Pars. on Arbor vitae leaf miner, July, Aug. and Sept. (Br.).  
 E. sp. Bar Harbor, Aug. 15.

## MACROCENTRUS Curtis

- M. AEGERIA Roh. Eden, June 7-July 19.  
 M. ATRATUS Muese. Bar Harbor, July 20.  
 M. HARRISI DeGeer. Green Mt., July 25; Bar Harbor, Aug. 10.  
 M. sp. Bar Harbor, June 7; Salisbury Cove, July 19.

## ZELE Curtis

- Z. sp. Bar Harbor, June 7; S. W. Harbor, July 15.

HELCON Nees (*Gymnocelus* Foerster)

- H. PEDALIS Cress. Bar Harbor, July 26.

## OPIUS Wesmael

- 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.).

## METEORUS Haliday

- M. COMMUNIS (Cress.). Pars. on *Graptolitha* sp. July 5 (Br.). S. W. Harbor, July 11. Parasitic on *Hadena* and other moths.  
 M. DIMIDIATUS Cress. N. E. Harbor; Eagle Lake, July 11-18. Parasitic on *Desmia funeralis*.  
 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. PALLITARSIS Cress. Long Pond, Sept. 7.

M. TAURICORNIS Prov. Bar Harbor, June 13–Aug. 10.

M. VULGARIS (Cress.). Bred from *Graptolitha* sp., July 5 (Br.).

Bar Harbor; S. W. Harbor, June 13–Sept. 6. Parasitic on various species of ‘cutworms,’ *Agrotis ypsilon*, *Feltia subgothica*, *Lycophotia saucia*, etc.

#### COELINIDEA Viereck

C. sp. Echo Lake, June 17.

C. sp. S. W. Harbor, Aug. 23.

#### DACNUSA Haliday

D. sp. S. W. Harbor, July 29.

#### ASPITOLA Foerster

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

##### TROGUS Panzer

T. OBSIDIANATOR Brullé. Salisbury Cove, July 17–24. Parasitic on *Papilio polyxenes*.

T. (PSILOMASTIX) FULVIPES Cress. Common, July 8–24.

T. (PSILOMASTIX) VULPINUS Grav. (*exesorius* Brull.). Salisbury Cove, July 14–17. Parasitic on *Papilio polyxenes* and *turnus*.

## AMBLYTELES Wesmael

- A. ACERABUS Cress. Bar Harbor; S. W. Harbor; Narrows, July 11–Aug. 18. Pars. on fall web-worm.
- A. AGNITUS Cress. N. E. Harbor, Aug. 11 (Minot).
- A. ANNULIPES Cress. Bar Harbor; Sand Beach; S. W. Harbor, June 15–Aug. 10.
- A. APERTUS Cress. Green Mt., Aug. 17.
- A. ATROX Cress. Bar Harbor, June 9.
- A. BIMEMBRIS Prov. Salisbury Cove; Green Mt., July 23–Aug. 17.
- A. BIOCULATUS Cress. S. W. Harbor, July 28.
- A. CAERULEUS Cress. N. E. Harbor (Minot); Echo Lake, Sept. 7. Parasitic on the tussock moth.
- A. CANADENSIS Cress. Echo Lake; S. W. Harbor; Salisbury Cove, June 27–July 24.
- A. CAUDATUS Prov. Bar Harbor, June 21.
- A. CERULUS Prov. S. W. Harbor, Aug. 2 (Fernald).
- A. CERVULUS Cress. Salisbury Cove, July 24.
- A. CINCTICORNIS Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, July 15–Aug. 15.
- A. CINCTITARSIS Prov. Salisbury Cove, July 23.
- A. COMES Cress. Bar Harbor, July 17.
- A. CONFIRMATUS Cress. N. E. Harbor, July 23 (Minot).
- A. CORVINUS Cress. Bar Harbor, June 22.
- A. CREPERUS Cress. S. W. Harbor, July 15.
- A. DETRITUS Brullé. Salisbury Cove, July 24.
- A. DISPARILIS (Cress.). Mt. Desert, June 7 (Br.).
- A. DIVINCTOR Say. Salisbury Cove; Echo Lake, July 17–Sept. 7.
- A. DUPLICATUS Cress. Bar Harbor, July 24.
- A. EXTREMATIS Cress. S. W. Harbor, Aug. 14 (Fernald).
- A. FERALIS Cress. Echo Lake, July 12.
- A. FLAVICORNIS Cress. Sand Beach, July 11.
- A. FRATERNUS Cress. Echo Lake; S. W. Harbor (Fernald), June 27–July 19.
- A. FUNESTUS Cress. Bar Harbor, June 21.

- A. GALENUS Cress. Salisbury Cove; S. W. Harbor, July 23–Sept. 6.
- A. GERMANUS Cress. Bar Harbor; S. W. Harbor; Long Pond, June 7–Aug. 27.
- A. GRANDIS Brullé. Bar Harbor; N. E. Harbor (Minot); S. W. Harbor, July 24–Sept. 6.
- A. HOSPITUS Cress. S. W. Harbor, July 15.
- A. INCONSTANS Cress. S. W. Harbor; Salisbury Cove, July 15–23.
- A. INSTABILIS Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, June 20–July 25. Parasitie on *Phyciodes tharos*.
- A. LACHRYMANS Prov. S. W. Harbor, July 11–Aug. 3.
- A. LAETUS Brullé. Common, July 17–Sept. 9.
- A. LEVICULUS Cress. Salisbury Cove, July 14.
- A. LUCTUS Cress. Common, June 13–July 24.
- A. MALACUS Say. Salisbury Cove, July 14.
- A. MAURUS Cress. Bar Harbor, June 21.
- A. MELLICOXUS Prov. Bar Harbor; Jordan Pond, June 10–July 21.
- A. MILVUS Cress. Common, June 10–July 25.
- A. MIMICUS Cress. S. W. Harbor, Sept. 6.
- A. MONTANUS Cress. Salisbury Cove, July 23.
- A. NANUS Cress. Salisbury Cove; Bar Harbor, July 14–Sept. 11.
- A. NAVUS (Say). Pars. on sawfly from ash, June 20 (Br.).
- A. NIGRIPES Prov. Bar Harbor, June 2.
- A. NIGROVARIEGATUS Prov. S. W. Harbor; Long Pond, July 10–Aug. 21.
- A. NUBIVAGUS Cress. Salisbury Cove, July 17.
- A. ORMENUS Cress. S. W. Harbor, Aug. 29 (Fernald).
- A. PARVUS Cress. Witch Hole Pond; Bar Harbor, July 5–30.
- A. PERLUCTUOSUS Cress. Bar Harbor, June 21.
- A. POMILIUS Prov. Bar Harbor, July 24.
- A. PRAVUS Cress. Salisbury Cove; Bar Harbor, July 17–Aug. 16.
- A. PROXIMUS Prov. Bar Harbor; Salisbury Cove; S. W. Harbor, July 11–20.

- A. RUBICUNDUS Cress. S. W. Harbor; Bar Harbor, July 15–19.
- A. RUFIVENTRIS Brullé. S. W. Harbor; Salisbury Cove, July 15–24.
- A. SAGUS Cress. N. E. Harbor, June 26 (Minot).
- A. SCITULUS Cress. Bar Harbor; N. E. Harbor (Minot), June 11–Aug. 11.
- A. SEMINIGRA Cress. Bar Harbor; Salisbury Cove, June 11–July 23.
- A. STADACONENSIS Prov. Bar Harbor; Salisbury Cove, June 14–July 24.
- A. STYGICUS Cress. Salisbury Cove, July 25.
- A. SUBCYANEUS Cress. Bar Harbor, June 21.
- A. SUBDOLUS Cress. S. W. Harbor, June 18–July 20.
- A. SUBLATUS Cress. Bar Harbor, July 22–Aug. 12.
- A. SUBRUFUS Cress. Salisbury Cove; Bar Harbor, June 21–July 25.
- A. SUTURALIS Say. Bar Harbor; S. W. Harbor, June 21–Sept. 13.
- A. UNIFASCIATORIUS Say. S. W. Harbor, Aug. 22 (Fernald).
- A. VAFER Cress. Bar Harbor, June 22.
- A. VERSABILIS Cress. Common, July 12–Sept. 8.
- A. VESCUS Prov. Bar Harbor; Echo Lake, June 13–17.
- A. VIOLA Cress. Bar Harbor; Salisbury Cove, June 21–July 24.
- A. VITALIS Cress. Salisbury Cove; S. W. Harbor, July 24–Sept. 6.
- A. VICINUS Cress. Salisbury Cove, July 18.
- A. VIVAX Cress. Narrows; S. W. Harbor, June 9–20.
- A. w-ALBUM Cress. S. W. Harbor; Bar Harbor; Echo Lake, July 20–Sept. 7.
- A. WINKLEYI Vier. S. W. Harbor, June 20.
- A. near DUPLICATUS Cress. Salisbury Cove, July 17.
- A. near EXCULTUS Cress. Bar Harbor, June 15.
- A. near NUBIVAGUS Cress. S. W. Harbor, July 15.
- A. near VAGANS Prov. Bar Harbor, June 15.
- A. near VOLESUS Cress. Long Pond, Aug. 21.
- A. THUJAE n.sp. Bred from *R. thujella*, July 8–15 (Br.).

## PLATYLABUS Wesmael

- P. CANADENSIS Cress. Bar Harbor, June 21.  
P. sp. near BIMEMBRIS Prov. Bar Harbor, July 13.  
P. n.sp. Bar Harbor, July 29.

## HOPLISMENUS Gravenhorst

- H. RUTILUS Cress. S. W. Harbor, July 29.

## COLPOGNATHUS Wesmael

- C. HELVUS Cress. N. E. Harbor, Aug. 10 (Minot).

MESOLEPTIDEA Viereck (*Mesoleptus* auct.)

- M. DECENS Cress. S. W. Harbor, June 16-July 29.  
M. RUFIGASTRA Prov. S. W. Harbor; Bar Harbor, June 13-July 13.

## DICAELOTUS Wesmael

- D. sp. S. W. Harbor, Sept. 8.  
D. sp. Beaten from spruce, Sept. 18 (Br.), det. R. A. C.

## ISCHNUS Gravenhorst

- I. sp. Bar Harbor, June 8.

## ORONOTUS Wesmael

- O. sp. Bar Harbor, June 17.

## HERPESTOMUS Wesmael

- H. HARIOLUS Cress. Salisbury Cove, July 22.  
H. HEBRUS Cress. Salisbury Cove, July 18.

## ANISOBAS Wesmael

- A. NEARCTICUS Cuss. S. W. Harbor, July 10.

## EXOLYTUS Holmgren

- E. sp. S. W. Harbor, July 14.

## PROSCUS Holmgren

P. sp. Salisbury Cove; Bar Harbor, July 24–Sept. 10.

## PHAEOGENES Wesmael

P. ATER Cress. Bred from *Sesia*, July 18 (Br.). Bar Harbor; Salisbury Cove, June 13–July 27.  
 P. DECOLORATUS Cress. S. W. Harbor, July 15.  
 P. DISCUS Cress. Echo Lake; Bar Harbor, July 12–Aug. 10.  
 P. FALARDEANIA Prov. Beaten from spruce, Sept. 18 (Br.).  
 P. FUNGOR Nort. Bar Harbor; Salisbury Cove, July 27–Aug. 16. Parasitic on the spruce sawfly, *Neodiprion abietis*.  
 P. GASPEIANUS Prov. S. W. Harbor; Long Pond; Salisbury Cove, July 16–29.  
 P. sp. near HARIOLUS Cress. Bred from *Aerobasis comptoniella*, Aug. 7 (Br.).  
 P. HEBE Cress. S. W. Harbor; Salisbury Cove, July 14–Aug. 10.  
 P. HEBRUS Cress.? Echo Lake, July 12.  
 P. sp. Ectoparasite, June 5 (Br.).

## ATRACTODES Gravenhorst

A. COMPRESSA Cress. Green Mt., Aug. 25.  
 A. sp. Bar Harbor, Sept. 10.

## STYLOCRYPTUS Thomson

S. PUBESCENS Prov. S. W. Harbor, July 24.  
 S. SUBCLAVATUS Say. Salisbury Cove, July 14.

## PEZOPORUS Foerster

P. sp. S. W. Harbor, June 21.

## ERNOCTONA Foerster

E. sp. S. W. Harbor, July 13.

## PLESIGNATHUS Foerster

- P. AMERICANUS Cush. S. W. Harbor, June 27.  
P. sp. Bar Harbor, June 22.

## GIRAUDIA Foerster

- G. sp. S. W. Harbor, Sept. 8.

## MICROCRYPTUS Thomson

- M. sp. Salisbury Cove, June 9-July 24.

ISCHMOCRYPTUS Kreichbaum (*Iselix*)

- I. sp. From weevils in blister rust pine, Sept. 14 (Br.).

## HOMELYS Foerster

- H. sp. Salisbury Cove, July 25.

## THYSIOTORUS Foerster

- T. TRIANGULARIS (Cress.). Bar Harbor, June 2 (Br.).

## PLECTOCRYPTUS Thomson

- P. CONTIGUUS Cress. Bar Harbor, June 22.  
P. MAJOR Cress. S. W. Harbor, June 25.

## PHYGADEUON Gravenhorst

- P. ABDOMINALIS Prov. Narrows, June 9.  
P. BITINCTUS Grav. Bred from *Chrysopora lingulacella hermanella* on *Chenopodium*, Aug. 27 (Br.).  
P. INFLATUS Prov. S. W. Harbor; Echo Lake; N. E. Harbor, July 11-Aug. 25.  
P. OCCIDENTALIS Prov. Bar Harbor, July 24.  
P. ORBITALIS Prov. Bar Harbor, June 7.  
P. OVALIS Prov. S. W. Harbor, July 11-Aug. 21.  
P. PUBESCENS Prov. Bar Harbor; Salisbury Cove; S. W. Harbor, June 8-July 30.  
P. ROTUNDICEPS Prov. Echo Lake, July 17.  
P. RUFICORNIS Prov. Salisbury Cove; Bar Harbor, June 22-July 27.  
P. SUBSPINOSUS Prov. Bar Harbor, June 12.

## ISDROMAS Foerster

I. WASHINGTONENSIS Cush. Bred from *P. nemorata*, May 28 (Br.).

## HEMITELES Gravenhorst

H. PALLIPENNIS Prov. Long Pond, July 16.

H. RUFICOXUS Prov. Jordan Pond; Echo Lake; S. W. Harbor, June 10-July 15.

H. TENELLUS Say. Bar Harbor; Salisbury Cove; S. W. Harbor, June 7-Sept. 3.

## CHRYSOPOCTONUS Cushman

C. RILEYI Ashm. S. W. Harbor, July 30.

## GELIS Thunberg

G. BUCCULATRICIS (Ashmn.). Pars. on *B. canadensiella*, June 29 (Br.); S. W. Harbor, July 13.

G. URBANUS (Brues). Pars. on *Diprion polytomum*, *Anchyllopera*, *P. nemorata*, June-July (Br.), Station F290.

G. sp. Pars. on *Exema conspersa*, Aug. 25 (Br.).

G. sp. Pars. on *P. nemorata* (Br.).

G. sp. Pars. on Arbor vitae leaf miner, July 21 (Br.).

## STENOCRYPTUS Thomson

S. sp. S. W. Harbor, July 30.

## ACRORICNUS Ratzeburg

A. CLOUTIERI Prov. Bar Harbor; N. E. Harbor; S. W. Harbor, June 11-Aug. 10.

## SPILOCRYPTUS Thomson

- S. CANARSIAE Ashm. Bar Harbor, June 15–July 22.  
 S. CIMBICIVORUS Cush. S. W. Harbor, July 28. Parasitic on *Cimbex americana*.  
 S. EXILIS Prov. Bar Harbor; Eagle Lake; Echo Lake, June 11–Aug. 12.  
 S. EXTREMATIS Cress. Bred by (Br.), July 28.  
 S. HYSLOPI Vier. Record of capture lost.  
 S. LIVIDICORPUS Cress. Record of capture lost.  
 S. LOPHYRI Nort. N. E. Harbor (Minot); Bar Harbor, June 7–July 16. Parasitic on the spruce sawfly, *Neodiprion abietis*.  
 S. NUNCIUS Say. Witch Hole Pond, Sept. 11. Parasitic on *Telea polyphemus* and other large moths.

## GAMBRUS (Foerster) Brischke

- G. n.sp. near NUNCIUS (Say) det. R. A. Cushman, 1938. Bred from I. *polyphemus*, July 16 (Br.).

## AGROTHEREUTES Foerster

- A. SLOSSONAE Cush. Bred from *Phyllotoma nemorata* (Br.), June 6–July 29.

## CRYPTUS Fabricius

- C. AMERICANUS Cress. S. W. Harbor; Green Mt., July 21–25.  
 C. AMBLYTELARIUS Prov. Bar Harbor, June 21–July 26.  
 C. APICATUS Prov. Bar Harbor; Narrows, July 5–27.  
 C. LOPHYEI Nort. Bred from *Diprion polytomum* June 9 (Br.).  
 C. ORNATUS Prov. Bar Harbor, Sept. 10.  
 C. PERSIMILIS Cress. Narrows, June 27.  
 C. VINCTUS Say. Bar Harbor; Eden, June 15–July 19.

## TRYCHOSIS Foerster

- T. RUFOANNULATUS Prov. Eden, July 24.

*HOPLOCRYPTUS* Thomson

H. sp. N. E. Harbor, June 26 (Minot).

*CHAERETYMMMA* Foerster

C. sp. Bar Harbor, June 8.

*MESOTENUS* Gravenhorst

M. ERYTHROGASTER Ashm. Bar Harbor, June 21–Sept. 13.

*EXETASTES* Gravenhorst

E. NERVULUS Say. S. W. Harbor; Eagle Lake; Bar Harbor, June 21–July 19.

E. RUFOFEMORATUS Prov. S. W. Harbor; Narrows, July 15–Aug. 13.

E. SUAVEOLENS Walsh. Common, July 14–27.

*PROCLITUS* Foerster

P. LONGICAUDUS Prov. Bar Harbor; Echo Lake; S. W. Harbor, June 13–July 29.

P. MELLIPES Prov. Echo Lake; Long Pond, July 12–17.

P. ROYI Prov. Bar Harbor, Aug. 10.

*CRATOPHILION* Thomson

C. AMERICANA Harrgn. S. W. Harbor, Sept. 6.

*CATASTENUS* Foerster

C. sp. Echo Lake, July 17.

*MENISCUS* Schrödte

M. SUPERBUS Prov. Bar Harbor, June 9–22.

## LISSONOTA Gravenhorst

- L. ACCIDENTALIS Cress. Green Mt., July 25.  
 L. AMERICANA Cress. S. W. Harbor, Sept. 6.  
 L. EXILIS Cress. S. W. Harbor, July 20.  
 L. FRIGIDA Cress. Narrows, July 27. Parasitic on a sawfly (*Nematus*).  
 L. NIGRIPES Prov. Echo Lake, July 17.  
 L. PARVA Cress. Bred from blackish gray leaf roller on poplar, July 17 (Br.). Bar Harbor; N. E. Harbor (Minot), July 20-Aug. 10.  
 L. PHILIPPI Vier. Salisbury Cove, July 13-Aug. 9.  
 L. PLEURALIS Cress. Common, July 19-Sept. 6.  
 L. PUNCTATA Cress. Bar Harbor, Sept. 10-13.  
 L. RUBRICA Cress. Salisbury Cove, July 25.  
 L. RUFIGENES Cress. S. W. Harbor, Sept. 6.  
 L. VARIA Cress. Salisbury Cove; N. E. Harbor, S. W. Harbor, July 25-Sept. 6.  
 L. n.sp. near CRESSONI Vier. Bred from *Sesia*, July 9-17 (Br.).  
 L. sp. Pars. on *Pinipestis zimmermanni*, May 16 (Br.).

## ASPHRAGIS Foerster

- A. MIRABILIS Cress. S. W. Harbor, July 13.

## SYZEUCTUS Foerster

- S. ELEGANS (Cress.). Bred from *Melalopha* sp., June 29 (Br.).

## CYLLOCERIA Schrödte

- C. ERRANS D. T. Common, July 18-Aug. 21.  
 C. SEXLINEATA Say. S. W. Harbor, July 20.

## LATHROLESTES (Foerster) Davis

- L. RUFIGASTER Cush. Bred from sawfly material on blackberry, Oct. 2 (Br.).

## GLYPTA Gravenhorst

- G. ERRATICA Cress. Common, June 17–Sept. 8. Parasitic on *Polygonia comma*.
- G. MACRA Cress. Salisbury Cove; S. W. Harbor; Narrows, July 10–Aug. 13.
- G. RUFOFASCIATA Cress. Salisbury Cove, July 19.
- G. VARIPES Cress. S. W. Harbor, July 22.
- G. CANADENSIS Cress. N. E. Harbor, June 29 (Minot).

## PHYTODIETUS Gravenhorst

- P. ANNULATUS Prov. Pars. on *Eulia pinatubana* and poplar leaf roller, June 4–July 27 (Br.). Common, July 15–Sept. 11.
- P. FUMIFERANAE Roh. Bred from lepidopterous larvae, May 28 (Br.).

## THERONIA Holmgren

- T. FULVESCENS Cress. Witch Hole Pond, Sept. 11.

## EPHIALTES Schrank

- E. AEQUALIS Prov. Bar Harbor; S. W. Harbor, Aug. 10–23. Parasitic on the tussock moth (*Hemerocampa*). Bred from *Coleophora salmani* July 7 (Br.).
- E. AQUILONIA Cress. Bar Harbor, June 8–Aug. 10.
- E. (ITOPLECTIS) CONQUISTOR Say. Bar Harbor; S. W. Harbor, July 13–Sept. 6. Parasitic on the American and Forest tent caterpillars (*Malacosoma*) etc. Generally distributed.
- E. 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 (*Porteretria*), etc.
- E. PUSIO Walsh. Corfield and Penikese at light, July 31–Aug. 8.
- E. TENUICORNIS Cress. Common, June 7–Sept. 11. Parasitic on *Aegeria*.

## ITOPLECTIS Foerster

- I. CONQUISITOR (Say). Bred from lepidopterous larva on *Myrica gale* July 27 (Br.). Also from *Malacosoma disstria*, *A. comptoniella* and leaf miners.
- I. LEAVITTI Cuss. Bred from *Anchylopера* sp. June 11 (Br.).

## APECHTIS Foerster

- A. ONTARIO Cress. Bar Harbor, June 7–Aug. 10. Parasitic on the spruce bud worm.
- A. PICTICORNIS Cress. Bar Harbor; N. E. Harbor (Minot), June 16–Aug. 10.

## CLISTOPYGA Gravenhorst

- C. CANADENSIS Prov. S. W. Harbor, July 25.

## POLYSPHINCTA Gravenhorst

- P. BURGESSI Cress. Salisbury Cove, July 27.
- P. SLOSSONAE Davis. Bar Harbor; S. W. Harbor; Echo Lake, June 13–July 17.
- P. VICINA Prov. Echo Lake, June 17.

## RHYSSA Gravenhorst

- R. ALBOMACULATA Cress. Echo Lake; S. W. Harbor; Bar Harbor, July 17–Aug. 24.
- R. LINEOLATA Kby. N. E. Harbor, Aug. 10 (Minot).
- 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*.
- 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 very small specimen taken June, '34. Common.

## COLEOCENTRUS Gravenhorst

- 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. FORMOSUS Cress. Bar Harbor, July 22.  
 A. VICINUS Cress. Bar Harbor; Robinson Mt. (Alexander),  
 July 26-Sept. 3.

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*.  
 X. HUMERALIS Say. Salisbury Cove, July 27.  
 X. STIGMAPTERUS Say. Salisbury Cove, June 9.

## POEMENIA Holmgren

- P. ALBIPES Cress. N. E. Harbor, July 12-Aug. 10 (Minot).  
 P. AMERICANA Cress. Salisbury Cove, July 24.

## ODONTOMERUS Gravenhorst

- O. ATRIPES Roh. Bar Harbor, June 21.  
 O. AETHIOPS Cress. Bar Harbor, June 21.  
 O. CANADENSIS Prov. Echo Lake; Long Pond, June 26-July  
 12. Parasitic on *Leptura*, *Dicerca* and other wood-boring  
 beetles.  
 O. MELLIPES Say. Bar Harbor, June 21-Sept. 11.  
 O. sp. Corfield, June 15.

ICHNEUMON Linnaeus (*Ephialtes* Grav.)

- I. COMES Cress.? Station F136, Aug. 1.  
 I. FERALIS Cress. Western Mt. under spruce bark, Sept. 30.  
 I. MACER Cress. Eden, Sept. 15.  
 I. MESOCENTRUS Grav. N. E. Harbor (Minot); S. W. Harbor (Alexander), Aug. 23–Sept. 5.  
 I. TUBERCULATUS Four. Bar Harbor; S. W. Harbor, Sept. 6–10.

## CALLIEPHIALTES Ashmead

- C. COMSTOCKI (Ashm.). Bred from *Pinipestis zimmermani* Aug. 16 (Br.).

## SCAMBUS Hartig

- S. PTERELAS Say. Narrows, Aug. 13.  
 S. PTEROPHORI Ashm. Narrows, Aug. 13.

## ISEROPUS Foerster

- I. COELEBS 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.  
 I. INQUISITORIELLUS D. T. Bar Harbor; N. E. Harbor, June 13–July 15. Parasitic on the American tent caterpillar, tussock moth, etc.

## EPIURUS Foerster

- E. ALBORICTA Cress. Bar Harbor, June 13.  
 E. EUURAE (Ashm.). Bred from sawfly in willow leaf gall, Aug. 12 (Br.).  
 E. INDIGATOR (Cress.). Pars. on *C. salmani*, *R. thujaella*, *Dicymolomia julianalis*, etc., June, July and Aug. (Br.).  
 E. sp. Salisbury Cove, July 15.

## ICHNEUMONINI

- N. gen. and n.sp. Det. R. A. C. Bred from *P. nemorata* and *L. salicifoliella* (Br.).

## ALOPHOSTERNUM Cushman

A. FOLIICOLA CUSH. Bred from *P. nemorata* and *L. corylisella*,  
June (Br.).

A. n.sp. (undescribed). Preying on *P. nemorata* larvae.

## TROMATOBIA Foerster

T. RUFOPECTUS Cress. Bar Harbor, June 13. Parasitic on  
the eggs of spiders in the nest of the *Epeiridae*.

T. RUFOVARIATA Cress. N. E. Harbor; S. W. Harbor; Tremont,  
July 15–Aug. 23.

## ZAGLYPTUS Foerster

Z. INCOMPLETUS Cress. Bar Harbor, June 13–Sept. 9.

## DELOMERISTA Foerster

D. VOVITA Cress. Bar Harbor, Aug. 16.

## PERITHOUS Holmgren

P. PLEURALIS Cress. Salisbury Cove, July 19.

## EUCEROS Gravenhorst

E. COUPERII Cress. Bar Harbor; Echo Lake, July 10–18.

E. MEDIALIS Cress. S. W. Harbor, June 21.

## CALLIDIOTES Foerster

C. ALBOPLEURALIS Prov. Long Pond, Sept. 7.

## ECLYTUS Holmgren

E. PLEURALIS Prov. Echo Lake, July 18.

E. PERENNIS Davis. Seal Cove, June 20.

## SPANOTECNUS Foerster

S. DECOLORATUS Cress. Long Pond, July 16.

## STIPHROSOMUS Foerster

S. FUCATUS Cress. S. W. Harbor; Jordan Pond, June 10–July 25.

## CTENOPELMA Holmgren

C. n.sp. near NIGRICORNE Prov. Bar Harbor, June 14.

## NOTOPYGUS Holmgren

N. sp. N. E. Harbor, Aug. 10 (Minot).

N. n.sp. About larvae of *Lyda* sp. on *P. banksiana*, Sept. 26 (Br.).

## HOMASPIS Foerster

H. n.sp. Bred from *Lyda* sp. on *P. rigida*, June 15 (Br.).

## HADRODACTYLUS Foerster

H. INCEPTUS Cress. Seal Cove, June 20.

H. ELONGATUS Cress.? Echo Lake, July 12.

## EURYPROCTUS Holmgren

E. PETIOLATUS Davis. Long Pond, Sept. 7.

## DIABORUS Foerster

D. ORNATUS (Walsh) Davis. Long Pond, Aug. 21.

## DIALGES Foerster

D. FRONTALIS Davis. S. W. Harbor, June 25.

D. FRONTALIS var. TRICOLOR Davis. Salisbury Cove, July 14.

## OPHELTES Holmgren

O. GLAUCOPTERUS var. FLAVIPENNIS (Prov.). Bred from *Cimbex americana*, July 2 (Br.). Common, July 14–Sept. 24.

## ALEXETER Foerster

A. ALBOTARSATUS Prov. S. W. Harbor, June 16–July 23.

A. ANTENNATUS Prov. Echo Lake, July 12.

## LAPHYROSCOPUS Foerster

L. sp. Echo Lake, June 17.

## MESOLEIUS Holmgren

M. MELLIPES Prov. Bred from sawfly on ash, June 8–20 (Br.).

M. STRIATUS Davis. Long Pond, Sept. 7.

M. SUBMARGINATUS Cress. Bar Harbor; S. W. Harbor, June 22–July 20.

M. sp. Bred from sawfly, July 21 (Br.). Also pars. on *D. polytomum*.

## SPUDAEA Foerster

S. sp. Bar Harbor, Aug. 18.

## SYNOMELIX Foerster

S. sp. S. W. Harbor, July 10.

## COSMOCONUS Foerster

C. CANADENSIS Prov. Salisbury Cove; Green Mt.; N. E. Harbor, July 19–Aug. 23.

## LAMACHUS (Foerster) Thomson

L. sp. Aug. 10. Pars. on noctuid (Br.).

L. CONTORTIONIS Dav. var. Sept. (Br.), det. R. A. C.

## SCOPESIS Foerster

S. LAETUS Prov. Common, July 22–Sept. 6.

## GRYPOCENTRUS Ruthe

G. sp. Oct. 2. Pars. sawfly blackberry (Br.).

## TRYPHON Gravenhorst

T. COMMUNIS Cress. Common, June 21–July 16.

T. SEMINIGER Cress. Salisbury Cove; Long Pond, July 14–17.

## POLYBLASTUS Hartig

P. FULVILINEALIS Hall. Witch Hole Pond, Aug. 18.

P. PEDALIS (Cress.). Pars. on *Croesus latitarsus* (Br.). Echo Lake; S. W. Harbor, June 17–July 20.

P. TIBIALIS Cress. S. W. Harbor, July 20.

## SCOPIORUS Foerster

S. ANALIS Cress. S. W. Harbor, July 24.

S. OCCIDENTALIS Cress. Long Pond, July 12–16.

S. SUBCRASSUS Cress. S. W. Harbor, June 25.

## ERROMENUS Holmgren

E. DIMIDIATUS Cress. Narrows; Bar Harbor; Salisbury Cove, June 9–July 23.

E. MARGINATUS Prov. S. W. Harbor, June 23.

E. TRISTIS (Prov.). Bred July 9 (Br.).

E. sp. near CRASSUS (Cress.). Bred from sawfly material, May 26 (Br.).

## MONOBLASTUS Hartig

M. OBSCURELLUS Cress. Bar Harbor, June 22.

M. VARIFRONS Cress. Pretty Marsh; Salisbury Cove; Bar Harbor, June 20–July 14.

M. sp. Bred from *Pteronidea populi* July 1 (Br.).

## MICROPLECTRON Foerster

M. FUSCIPENNIS (Zett.). A species introduced into Eastern Canada. Bred from *D. polytomum* Sept. 30 (Br.).

CTENISCUS Haliday (*Exenterus* Hartig)

C. CANADENSIS Prov. Bred July 29 (Br.). This is *E. cteniscus*.

C. ANNULIPES. Record of capture lost.

C. ORBITALIS Cress. Echo Lake; S. W. Harbor, June 12–July 17.

## PANISCUS Gravenhorst

P. GEMINATUS Say. Bar Harbor; Echo Lake; N. E. Harbor, June 7–July 20.

P. TARSATUS Brischke. Bar Harbor, Aug. 29–Oct. 1 (Br.).

P. sp. Aug. 18 (Br.).

## PARABATES Foerster

P. CRASSUS Cush. Bar Harbor, Oct. 3 (Br.).

## DIPLAZON Nees

D. CONCINNUS Cress. Bar Harbor; Echo Lake, June 7–17.

D. LAETATORIUS Fab. Common, July 10–Aug. 13.

D. PULCHRIPES Prov. Bar Harbor; Salisbury Cove, June 22–July 14.

D. SCUTELLARIS Cress. Salisbury Cove, July 24.

D. n.sp. Long Pond, Aug. 21.

## HOMOTROPUS Foerster

H. ALBOPICTUS Davis. Bar Harbor, July 26.

H. HUMERALIS (Prov.). Bred from larva on white birch leaves Aug. 23 (Br.). Echo Lake, June 17.

## PROMETHEUS Foerster

P. COSTALIS Prov. Bar Harbor, June 7–Aug. 10.

P. ELONGATUS Prov. S. W. Harbor; Narrows, July 13–Aug. 13.

## SYRPHOCTONUS Foerster

- S. AGILIS Cress. Salisbury Cove; Bar Harbor, Aug. 7-10.  
 S. FOUTSI Cush. Bar Harbor, June 15 (Br.).

## ZOOTREPES Foerster

- Z. SAGINATUS Prov. S. W. Harbor, July 15.

## ATMETUS Foerster

- A. CARINATUS Prov. S. W. Harbor, July 13.  
 A. sp. N. E. Harbor, June 28 (Minot).

## DELETER Foerster

- D. UNDULATUS Davis. Bar Harbor, Aug. 10.

## STENOMACRUS (Foerster) Thomson

- S. sp. Pars. on *P. nemorata*, July 7 (Br.).  
 S. sp. Pars. on *P. nemorata*, July (Br.).

## CHORINAeus Holmgren

- C. CARINATUS Cress. Bar Harbor; Salisbury Cove, July 10-25.  
 C. n.sp. Eagle Lake, July 18.

## EXOCHUS Gravenhorst

- E. DORSALIS Cress. N. E. Harbor, Aug. 10 (Minot).  
 E. LAEVIS Cress. Salisbury Cove, July 13.  
 E. n.sp. S. W. Harbor, June 21.  
 E. sp. Bred from *Ancylis* and *P. nemorata* June 2-July 5  
 (Br.).

## PERIOPe Curtis

- P. AETHIOPS Cress. S. W. Harbor, Sept. 8.

## TRICLISTUS Foerster

- T. CURVATOR Fab. S. W. Harbor, July 20.

## ENISCOSPILUS Stephens

E. PURGATUS (Say). Echo Lake, July 12. Parasitic on *Feltia* and other moths.

## EREMOTYLUS Foerster

E. ARCUATUS Felt. N. E. Harbor, Aug. 23 (Minot).

## OPHION Fabricius

O. BIFOVEOLATUS Brull. Narrows; Bar Harbor, June 9-17.

O. BILINEATUS Say. Bar Harbor; Salisbury Cove, July 25-Aug. 16. Parasitic on *Feltia* and other moths.

O. sp. Bred from Noctuid larva Aug. 25 (Br.).

## BLAPTCUS Foerster

B. sp. Pars. on *P. nemorata*, June 15 (Br.).

## THYREODON Brullé

T. BRULLEI Vier. Echo Lake; Bar Harbor; S. W. Harbor, July 17-Aug. 24.

## APHANISTES Foerster

A. HYALINUS Nort. Bar Harbor; Salisbury Cove; S. W. Harbor, June 8-July 28.

## LABRORYCHUS Foerster

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*.

## PARANOMALON Viereck

P. BASILICON Davis. Bar Harbor, June 13-21.

P. LATERALIS Brull. S. W. Harbor; Narrows, June 25-July 17.

P. SEMIRUFUS Nort. S. W. Harbor, July 18.

## THIERION Curtis

- T. FUSCIPENNIS Nort. Duck Brook, July 30.  
 T. OCCIDENTALIS Cress. Echo Lake; Salisbury Cove, June 17–  
   Aug. 11.  
 T. MORIO Fab. Record of capture lost.

## CAMPOPLIGIDEA Viereck

- C. VARIABILIS Frankl. S. W. Harbor, July 20.

## VIERECKIANA Strand

- V. ASSITA Nort. Bar Harbor; Echo Lake, June 11–27.  
 V. DISSATA Nort. Echo Lake, Sept. 7.  
 V. VILLOSA Nort. Salisbury Cove, July 15.  
 V. VITTICOLLIS Nort. N. E. Harbor (Minot); Witch Hole Pond,  
   June 26–July 30.

## HYPOSOTER Foerster

- H. ANNULIPES (Cress.). Bred from *Catocala antinympha* July  
   (Br.). Bar Harbor; Salisbury Cove; S. W. Harbor, June  
   11–Sept. 10. Parasitic on *Mamestra*.  
 H. FUGITIVUS (Say). Bred from *Schizura concinna* Sept. 26  
   (Br.).  
 H. PILOSULUS (Prov.). Bred from *Hypotria textor* Oct. 10  
   (Br.).

## APOLIMA Foerster

- A. sp. Bar Harbor, July 10.

## CYMODUSA Holmgren

- C. DISTINCTA Cress. S. W. Harbor, July 13.

## SAGARITIS Holmgren

- S. PATSUIKETORUM Vier. Bar Harbor, July 30.  
 S. PROVANCHERI D. T. Salisbury Cove, July 23–Aug. 24.

## OLESCAMPE Foerster

- O. sp. Bred from sawfly on willow (Br.).  
 O. sp. Echo Lake, July 17.

## HOLOCREMUS Foerster

- H. sp. S. W. Harbor, July 15.

## CAMPOMPLEX Gravenhorst

- C. RUFICOXA Prov. (*Limneria ruficoxa* Prov.). Narrows, June 26–Aug. 13.  
 C. sp. Bred probably from a lepidopterus leaf miner June 15 (Br.).

## NEMIOBLASTUS Thomson

- N. sp. Bar Harbor; Green Mt., July 25–Aug. 18.

## ANGITA Holmgren

- A. AESTIVALIS Vier. Little Duck Isl., June 28 (Br.). A case bearer on currant.  
 A. MACER Cress. Bar Harbor, Sept. 10.  
 A. sp. S. W. Harbor; Echo Lake, June 17–22.  
 A. sp. Bar Harbor, July 8 (Br.). A case bearer on *Myrica aspenifolia*.  
 A. n.sp. Bred from lepidopterus larva on sumac leaves Aug. 2 (Br.).

## EULIMNERIA Schmiedeknecht

- E. sp. Bar Harbor, July 13.

## DIOCTES Foerster

- D. sp. Bred from *Tetralopha* sp. July 1 (Br.).

## DIADEGMA (Foerster) Schmiedeknecht

- D. SOLENOBIAE (Ashm.). Parasite of *Solenobia walshiella*.

## CREMASTUS Gravenhorst

- C. FORBESI Weed. Bred from *C. salmani* on alder Aug. (Br.); S. W. Harbor, July 29.  
 C. sp. Salisbury Cove, July 25.  
 C. sp. Bred from *Tetralopha* and a leaf-webber on poplar, July (Br.).

## ZALEPTOPYGUS Viereck

- Z. n.sp. Narrows, Aug. 13.

## LEPTOPYGUS Foerster

- L. sp. Long Pond; Salisbury Cove, Aug. 21.

## APERILEPTUS Foerster

- A. DELICATUS Cush. Echo Lake; Long Pond, July 11-17.

## BANCHUS Fabrieius

- B. BOREALIS Cress. Bar Harbor; N. E. Harbor, June 7-July 8.  
 B. PALLESCENS Prov. Bar Harbor, July 10.  
 B. SUPERBUS Cress. S. W. Harbor (Br.), May 25.

## PLECTISCUS Gravenhorst

- P. PARVUS Cush. Echo Lake, July 17.  
 P. n.sp. Bar Harbor, Aug. 10.

## XENOSCHESIS (Foerster) Jemiller

- 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. SLOSSONAE Cush. S. W. Harbor, July 10.  
 X. n.sp. Echo Lake, July 19.

## MESOCHORUS Gravenhorst

- M. BASALIS Cress. Bar Harbor; Long Pond; Seal Cove, June 13–Sept. 8.
- M. LUTEIPES Cress.? Eagle Lake; Bar Harbor, July 18–Aug. 18.
- M. POLITUS Prov. S. W. Harbor; Bar Harbor, July 30–Aug. 10.
- M. sp. Bred from a lepidopterus alder leaf miner June 6 (Br.).
- M. n.sp. Bred from *P. nemorata* June 28 (Br.).

## CALLIPHHRURUS Foerster

- C. POPOFENSIS Ashm. Bred from pear slug, June 18 (Br.).  
Det. R. A. C.

## PORIZON Fallen

- P. sp. Beating poplar catkins, Apr. 26 (Br.).

## CAMPOSOPUS (Foerster) Rohwer

- C. ACLERIVORUS Roh. Pars. on *A. comptoniella* (Br.).

## TRIGONALIDAE

## TRIGONALYS Westwood

- T. SULCATA Davis. Duck Brook, July 30, 1919.

## ODONTAULACUS Kieffer

- O. ABDOMINALIS Cress. Bar Harbor; S. W. Harbor, June 13–July 29.

## GASTERUPTIONIDAE

The members of this family are parasitic on bees.

## GASTERUPTION Latreille

- G. MONTANUS var. INCERTUS Cress. S. W. Harbor; Bar Harbor; Salisbury Cove, July 10–29.
- G. TARSATORIUS Say. S. W. Harbor, July 28.

## DIAPRIIDAE

PARAMESIUS Westwood

P. sp. Narrows, Aug. 13.

ASHMEADOPRIA Kieffer

A. sp. Narrows, July 27.

LEPTORHAPTUS Foerster

L. sp. Long Pond, July 10.

CINETUS Jurine

C. n.sp. Bar Harbor, Aug. 18.

C. sp. Bar Harbor, Aug. 18.

PANTOCLES Foerster

P. CRASSICORNIS Ashm. S. W. Harbor, July 13.

APHANOGAMUS Thomson

A. n.sp. Bred from Arbor vitae leaf-miner, July 19 (Br.).

XENOTOMA Foerster

X. sp. Pars. on *P. nemorata*, June (Br.).

MEGASPILOS 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 (Br.).

## ANACHARIS Dalman

A. sp. Pars. on the lace wings, July 8 (Br.).

## CALLASPIDIA Dahlbom

C. PROVANCHERI Ashm. S. W. Harbor, July 30.

ANDRICUS Hartig (*Callirhytis* auct.)

- A. OPERATOR O. S. Record of capture lost.
- A. OPERATOR FORM 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.
- A. TUBEROSUS Bass. Robinson Mt. Irregular wood galls on the scrub oak.
- A. SCITULUS Bass. Salisbury Cove; Bar Harbor. Irregular wood terminal swellings on the red oak (*Quercus rubra*).
- A. SINGULARIS Bass. 'Small oak apple gall.' Bar Harbor; Salisbury Cove, Aug. On leaves of the red oak.

## AMPHIBOLIPS Reinhard

- A. INANIS O. S. Empty oak gall. Bar Harbor, Aug. 6. On the leaves of the red oak. Bred from *Quercus borealis* July 3 (Br.).

## CALLIRHYTIS Foerster

- C. OPERATOR (O. S.). Forms a fibrous gall on red oak, June 20-July (Br.).

## 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 (Br.).

## SOLENOZOPHERIA Ashmead

S. VACCINI Ashm. Huckleberry gall. Salisbury Cove; Bar Harbor. A woody gall on huckleberry and blueberry.

## RHODITES Hartig

The members of this genus produce galls on roses.

R. BICOLOR Harr. Spiny rose gall. Bar Harbor; Salisbury Cove, July-Aug.

R. ROSAE (Linn.). Bred from *Polythalamous* hairy rose gall  
Meh. (Br.).

## PERICLISTUS Foerster

Members of this genus have been reared from galls on roses.

P. sp. Guests in an undeterminable over-wintered gall (Br.).

## CEROPTRES Hartig

C. sp. Inquilines in gall on oak, June (Br.).

CALLIMOMIDAE (*Torymidae*)CALLIMOME Spinola (*Torymus* Dalm.)

C. BREVICAUDA O. S. S. W. Harbor, July 11-30.

C. CHRYSOCHLORA O. S. Bred from *Cynipid* woody rose gall  
Meh. (Br.).

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 Foerster

S. sp. S. W. Harbor, Aug. 23.

## CRYPTOPRISTIS Foerster

C. sp. Bar Harbor, Aug. 10.

## PERILAMPIDAE

## PERILAMPUS Latreille

P. CHRYSOPAE Cwfd. Bred from what appears to be a *Chrysopid* cocoon July 3 (Br.).

P. CYANEUS Brull. Salisbury Cove, July 24.

P. FULVICORNIS Ashm. S. W. Harbor, July 11; Northeast Branch, July 25.

P. HYALINUS Say. Penikese, July 24–Aug. 8.

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.).

## CHALCIDIDAE

BRACHYMERIA Westwood (*Chalcis* auct.)

B. COMPSILURAE Crawf. Long Pond, July 16.

## LEUCOSPIS Fabricius

L. AFFINIS Say. Eden; Bar Harbor; S. W. Harbor; Station F264, all July.

## SPILOCHALCIS Ashmead

S. ALBIFRONS (Walsh). Bred from *Exema dispar* Sept. (Br.).  
Pars. on *Arbor vitae* leaf miner.

S. FLEBLILIS Cress. Narrows; mouth, Northeast Creek; July 25–Aug. 13.

S. SIDE Walk. Bred from *Coleophora laricella* July 7 (Br.).

S. TORVINA Cress. Pars. on *Coleophora salmani* July 17 (Br.).  
Penikese; Witch Hole Pond; S. W. Harbor, July 19–Sept. 6.  
S. sp. Tremont, Aug. 23.

## 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.

## ENCYRTIDAE

EUNOTUS Walker

E. AMERICANUS Gir. 'Mt. Desert,' July 30 (McAtee).

HABRITYS Thomson

H. sp. S. W. Harbor, July 13.

## PENTACNEMUS Howard

P. BUCCULATRICIS How. Bred from Arbor vitae leaf-miner July 4 (Br.) det. A. B. G.

LAMPROTATUS Westwood

L. sp. Long Pond; S. W. Harbor, July 16–Aug. 14.

COPIDOSOMA Ratzeburg

C. NANELLAE Silv. Bred from Arbor vitae leaf-miners July 20 (Br.). Pars. on *Paralechia pini foliella*.

## EUPELMELLA Masi

E. VESICULARIS (Retzius). Great Heath; Witches Hole; Bar Harbor, Sept. 12–25 (Br.).

## EUPELMIDAE

EUPELMUS Dalman

E. SALTATOR Lind. Bred from *C. salmani* July 2 (Br.).

E. VESICULARIS (Retzius). Bred from Arbor vitae leaf-miner (Br.).

## PTEROMALIDAE

NEOCATOLACCUS Ashmead

N. sp. Bar Harbor, Sept. 9.

BELONURA Ashmead

B. SINGULARIS Ashm. Narrows, Aug. 13.

TRIGONODERUS Westwood

T. sp. Bar Harbor, Aug. 18.

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 Foerster

R. PULCHRIPENNIS (Cwf.) det. A. B. Gahan, 1934. Par.  
*Pissodes strobi*. Bar Harbor, July 30, 1933 (Br.).

CECIDOSTIBA Thomson

C. sp. det. A. B. Gahan, 1938. Par. of *Myeloborus ramiperdi*,  
Bar Harbor, Aug. 2, 1933 (Br.).

AMBLYMERUS Walker

A. sp. Bred from *Myeloborus ramiperdi* Aug. 2 (Br.).

## EURYDINOTA Foerster

E. LIVIDICORPUS Gir. det. R. A. Cushman, Jan. 15, 1932. Bar Harbor, July 20, 24, 29, Aug. 12, 21. Pars. *Coleophora salmimi*.

## EULOPHIIDAE

## CHRYSOCHARIS Foerster

C. sp. Bred from oak leaf miner July 8 (Br.).

C. sp. Bred from *Lithoclellis salicifoliella* Aug. 2 (Br.).

C. n.sp. Bred from Arbor vitae leaf-miners Sept. 16-Oct. 16 (Br.).

## PHYSCUS Howard

P. VARICORNIS How. det. C. F. W. M. 1933. Mt. Desert Isl., July 9, 1932. Pars. *Chionaspis pinifoliae*.

## CIRROSPILUS Westwood

C. FLAVICINCTUS Riley. Bred from *Phyllotoma nemorata* Sept. (Br.).

C. CINCTITHORAX Giv. Pars. on *Phyllocnistis populiella*, *Lithoclellis tremubidella*, *Phyllotoma nemorata*, *Bucullatrix canadensisella*, etc. June-Sept. (Br.).

## CLOSTEROCERUS Westwood

C. TRICINCTUS (Ashm.). Pars. on *Phyllocnistis populiella*, *L. termuliodella*, etc. July-Aug. (Br.).

## DEROSTENUS Westwood

D. n.sp. Pars. on Arbor vitae leaf-miners, *P. nemorata*, etc. (Br.).

## NEODEROSTENUS Girault

N. BIPUNCTATUS Gir. det. A. B. Gahan, 1938. Pars. of *Lithoclellis tremuloidella*. Bar Harbor, July 25, 1933.

## PENTAENEMUS Howard

P. BUCCULATRICIS How. det. A. B. Gahan, 1934. Bar Harbor, July 4, 1933; July 7, 1933. Ex. Arbor vitae leaf-miner (Br.).

## ENTEDON 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 aceriella* June 28 (Br.).  
 P. sp. S. W. Harbor, July 13.  
 P. sp. Pars. on Col? on *Viburnum cassinoides* Aug. 6 (Br.).

## SECODELLA Girault

S. CUSHMANI Crawford. Bred from Arbor vitae leaf-miner July 24 (Br.).

## SYMPIESIS Foerster

S. BIMACULATUS Crawf. Green Mt.; Salisbury Cove, July 17–Aug. 21.  
 S. DORLICHOGASTER Ashm. Parasitic on *Gracilaria fraxinella*. Bred July 26 (Br.).  
 S. LEXINGTONENSIS Gir. Pars. on the blotch miner of beech. July 21–31 (Br.).  
 S. MACULIPES Cwf. Same as above.  
 S. NIGRIFEMORA Ashm. S. W. Harbor, July 11.

## CIRROSPILOIDES 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.

## RHINOPELTOIDEA Girault

R. AMSTERDAMENSIS Gir. Ex. *Lithocolletis corylisella* (Br.).

## HORISMENUS Walker

H. MICROGASTER (Ashm.). Pars. on *P. populiella* June 16 (Br.).

H. LIXIVORUS Cwfd. Same as above.

## ZAGRAMMOSOMA Ashmead

Z. NIGROLINEATA Cwfd. Bred from Arbor vitae leaf-miner (Br.).

## TRICHOGRAMMA Westwood

T. MINUTUM (Riley). Pars. on eggs of *Pteronidea populi* Sept. (Br.). Also on *P. nemorata* July-Sept.

## MYMARIDAE

## ALAPTUS Haliday (in Westwood)

A. CAECILLI Girault. Bred July 31 (Br.).

## PSAMMOCHARIDAE. The Spider-hunting Wasps

## EPISYRON Schiodte

E. BIGUTTATUS Fab. Bar Harbor; Salisbury Cove; N. E. Harbor; Station F133, July 15-Aug. 21. It provisions its nest with spiders (*Epeira*).

E. QUINQUENOTATUS Say. S. W. Harbor; Salisbury Cove, July 15-28. It provisions its nest with spiders (*Epeira*).

**PSAMMOCHARES** Latreille

- P. ASTUR Banks. S. W. Harbor; Bar Harbor; Salisbury Cove, July 15-24.
- P. LASIOPE Banks. Bar Harbor; S. W. Harbor, July 26-Sept. 11.
- P. PRETIOSA Banks. S. W. Harbor; Green Mt.; Bar Harbor, July 15-29.

**ANOPLIUS** LePeletier

- A. TENEBROSUS Cress. Green Mt.; Narrows; Bar Harbor; S. W. Harbor, June 18-Aug. 13.
- A. VENTRALIS Banks. Long Pond, July 16.
- A. VIRGINIENSIS Cress. Narrows; Salisbury Cove, July 14-Aug. 13.

**POMPILOIDES** Radoszkowszky

- P. AMERICANUS Beauv. Common, July 17-29.
- P. CANADENSIS Banks. S. W. Harbor; Bar Harbor; Narrows, July 20-Aug. 13.
- P. INSOLENS Banks. S. W. Harbor, July 11-20.
- P. MARGINATUS Say. Green Mt., July 25.
- P. RECTUS Banks. Green Mt.; Echo Lake, July 17.

**SOPHROPOMPILUS** Ashmead

- S. HYACINTHINUS Cress. S. W. Harbor, July 10-29.

**AGENIELLA** Banks

- A. IRIDIPENNIS Cress. Bar Harbor, July 21.
- A. CALCARATA Cress. Salisbury Cove, July 15-Aug. 11.

**PRIOCNEMIS** Schiodte

- P. ALIENATUS Smith. S. W. Harbor, July 28.
- P. GERMANUS Cress. Bar Harbor; Green Mt., Aug. 16, 17.

**PSEUDAGENIA** Kohl

- P. CALIPTERA Cress. Eagle Lake, July 18.  
P. NANELLA Banks. N. E. Harbor, July 26 (Minot).  
P. VARITARSATA Banks. N. E. Harbor; Salisbury Cove, July 8-26.

**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.

**CHRYSIDIDAE. The Gold or Cuckoo Wasps**

The members of this family live as social parasites in the nests of the solitary wasps and bees.

**OMALUS** Jurine

- O. LAEVIVENTRIS Cress. S. W. Harbor; Salisbury Cove; Bar Harbor, June 16-July 13.

**HOLOPHRIS** Moesáry

- H. IRIDESCENTS Nort. Echo Lake; Bar Harbor, July 16-24.

**NOTOZUS** Foerster

- N. MARGINATUS Patt. Penikese, July 13; Station F261.

**HOLOPYGA** Dahlbom

- H. ASPERA Brullé. Eden, July 24; Station F69.  
H. VENTRALIS (Say). Indian Point on flowers of wild fennel, Station F260.

**HEDYCHRIDIUM** Perrin

- H. DIMIDIATUM Say. Eden; S. W. Harbor, July 23-29.  
H. VIOLACEUM Brull. Bar Harbor, July 22.  
H. sp. Penikese on ground near holes, Aug. 5. Near *H. dimitatum* (Say).

## CHRYSIDEA Bischoff

C. VERICALIS Patt. S. W. Harbor, June 21.

## CHRYYSIS Linnaeus

- C. AURICHALCEA. One specimen of this beautiful wasp taken on Great Heath, Aug. 4, '35 (Br.).
- C. (GONOCHRYYSIS) ATRIVENTER Taylor. Green Mt., July 25.
- C. (GONOCHRYYSIS) PERPULCHRA Cress. One specimen taken at Section 28, July 20, '37.
- C. (TETRACHRYYSIS) COERULANS Fab. Bar Harbor; Corfield, June 16-Sept. 9.
- C. (TETRACHRYYSIS) NITIDULA Fab. Eden; Corfield, July 24-Sept. 6. Common.
- C. (TETRACHRYYSIS) NITIDULA var. CESSATA du Buysson. S. W. Harbor; Eden, Corfield, June 15-Sept. 23.
- C. (TETRACHRYYSIS) PELLUCIDULA Aaron. S. W. Harbor, July 24.
- C. (TETRACHRYYSIS) PROVANCHERI Schulz. Bar Harbor, July 10. (A. K. Salman.)
- C. (TETRACHRYYSIS) sp. Station F260, July 28.
- C. (TETRACHRYYSIS) sp. Station F259, July 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.

## FORMICIDAE. The Ants

## PONERA Latreille

P. COARCTATA (Lat.) sub. sp. PENNSYLVANICA Buck. Bar Harbor; Tremont, Aug. 29–Sept. 4 (Br.).

## CREMASTOGASTER Lund

C. LINEOLATA Say. Robinson Mt., Sept. 7. On sap from gall-infested acorns of the scrub oak; Cadillac Cliffs and Eden, Sept. 11 and 12. Males and females swarming Robinson Mt., Aug. 24. Sec. 15, Oct. 4.

## STENAMMA Mayr

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 var. SABULATES Mein. ‘Mt. Desert,’ July 30 (McAtee).

M. SCABRINODIS SCHENCKI var. EMERYANA Forel. S. W. Harbor; Witch Hole Pond, Sept. 6–11; swarming on Robinson Mt., Sept. 2, '35.

M. SCABRINODIS Nyl. var. DETRIBINODIS Emery. Station F173 and on the Eden-Town Hill road, Aug. 2–7.

M. sp. Section 26, Aug. 7.

M. sp. (BREVICORNIS GROUP) Section 15 sweeping, Sept. 6.

## LEPTOTHORAX Mayr

L. ACERVORUM CANADENSIS Prov. S. W. Harbor, July 11.

L. CURVISPINOSUS AMBIGUUS Emery. ‘Mt. Desert,’ July 30 (McAtee).

## TAPINOMA Foerster

T. SESSILE Say. S. W. Harbor, July 11–Sept. 6; Station F173.

## DOLICHODERUS Lund

- D. (HYPOLINEA) PLAGIATUS Mayr. Section 26, Aug. 7.
- D. (HYPOLINEA) TASCHENBERGI Mayr. Robinson Mt., Aug. 24.
- D. PLAGIATUS Emery var. S. W. Harbor, Sept. 6.
- D. PLAGIATUS var. INORNATUS Wheeler. Breakneck Pond, Sept. 8.

## LASIUS Fabricius

- L. (ACANTHOMYOPS) CLAVIGER Roger. Deer Brook, Station F218, one individual taken.
- L. (ACANTHOMOPS) INTERJECTUS Mayr. Corfield, July 21. Searee.
- L. NIGER sub. sp. ALIENUS Forst. var. AMERICANUS Emery. Under a barn Sept. 13. Stations F150 and F173.
- L. NIGER var. SITKAENSIS Pergande. Long Pond; Bar Harbor; Corfield, June 27–Sept. 15.
- L. UMBRATUS sub. sp. MIXTUS var. APHIDICOLA Walsh. S. W. Harbor; Green Mt., July 15–25; Pretty Marsh under stone, Aug. 21. Washed up on the shore of Bubble Pond in large masses, Sept. 7, '35.
- L. (CHTHONOLASIUS) UMBRATUS Nyl. sub. sp. SUBUMBRATUS Viereck. One specimen taken July 11, '29.

## FORMICA Linnaeus

- 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. DUBSERICEA 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. RUFIA INTEGRA* Nyl. Eden, Aug. 9; Corfield, July 25. Not common.
- F. SANGUINEA ASERVA* Forel. Bar Harbor; S. W. Harbor; Green Mt.; Section 26, June 21–Aug. 7.

*CAMPONOTUS* Mayr

- C. (MYRMENTOMA) 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* DeG. 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.
- E. HERCULEANUS* var. *WHYMPERI* Forel. Bar Harbor; Narrows; Section 15 in log, June 16–Aug. 13.

BETHYLIDAE

*BETHYLUS* Latreille

- B. sp. Bar Harbor, July 6 (Br.).  
B. n.sp. Gt. Heath, Sept. 25 (Br.).

VESPIDAE. The Social Wasps

EUMENES Latreille. The Potter Wasps

- E. FRATERNA* Say. Stations F133 and F259. Scarce.  
*E. GLOBULOSUS* Sauss. Common, June 16–July 25.

*ANCISTROCERUS* Wesmael

- A. ALBOPHALERATUS Sauss. Bar Harbor; Green Mt., July 18-25.
- A. CAPRA Sauss. Bar Harbor; N. E. Harbor; S. W. Harbor, July 20-Aug. 22.
- A. CATSKILLENSIS Sauss. Narrows (Salman), July 21.
- A. TIGRIS Sauss. Bar Harbor; S. W. Harbor; Long Pond, Aug. 18-Sept. 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.
- S. CRISTATUS Sauss. Bar Harbor, July 24.

*ODYNERUS* Latreille

- O. KENNICKIANUS Sauss. Bar Harbor, July 27.
- O. LEUCOMELAS Sauss. S. W. Harbor; Salisbury Cove, July 10-17.

*VESPULA* Thomson

- V. (DOLICHOVESPULA) ADULTERINA (Buyss.) var. ARCTICA 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 (Panz.). Bar Harbor, Aug. 16.
- V. (DOLICHOVESPULA) MACULATA (L.). White-faced hornet. S. W. Harbor, July 10, Sept. 6.
- 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.

*V. (V.) VULGARIS* (L.) (== *COMMUNIS* (Sauss.)). Yellow-jacket. N. E. Harbor; Bar Harbor, June 30–July 21. Nests below ground. Feeds heavily on plant lice at Corfield.

#### SPHECIDAE

##### *ASTATA* Latreille

*A. LENSTROMI* Ashm. Eden, July 24.

*A. UNICOLOR* Say. Eden, July 23.

#### 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.

#### 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.

#### SPHEX Linnaeus

*S. ARVENTIS* 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. sp.* Mating pair. Middle Road, July.

#### PODALONIA Spinola

*P. VIOLACEIPENNIS* LePel. Eden; Green Mt.; S. W. Harbor, July 11–25.

## SCELIPHRON Klug

S. CAEMENTARIUS Drury. Common 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

C. CAERULEUM Linn. Blue Mud-dauber. Bar Harbor, July 24. It stores its nest with spiders, usually species of *Epeira*.

## PSEN Latreille

P. BASIRUFUS Pack. Echo Lake; S. W. Harbor; N. E. Harbor, July 6-18.

P. PAUPER Pack. Bar Harbor, Aug. 16.

## STIGMUS Panzer

S. AMERICANUS Pack. Bar Harbor; Echo Lake, June 15-17. Bar Harbor; Echo Lake, June 15-17. They make their nest in the pith of dry branches of sumac, provisioning it with aphids.

## PEMPHREDON Latreille

P. ANGULARIS Fox. Bar Harbor (Moore); N. E. Harbor, July 6 (Minot). These also provision with aphids and build in decaying wood.

P. CONCOLOR Prov. Laboratory, Aug. 25. Scarce. Use decaying wood for nests and aphids to provision them.

## PASSALOECUS Shuckard

P. MANDIBULARIS Cress. Bar Harbor; S. W. Harbor, June 17-July 29. These use old galleries in wood in which they put clay cells provisioned with aphids.

## ALYSON Jurine

A. OPPOSITUS Say. Eden; Bar Harbor, July 19-Aug. 15.

## GORYTES Latreille (Not auct.)

- G. 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. FLAVICORNIS Pack. Eden, July 24. In a sand bank.
- G. SIMILLINUS Smith. Eden; S. W. Harbor; Bar Harbor, July 17–Aug. 20.
- G. (ARPACTUS) NIGRIFRONS Sm. Bar Harbor, one taken July 28, '36.

## NYSSON Latreille

- N. LATERALIS Pack. Eden, July 23–25.

## PHILANTHUS Fabricius

- P. (APHILANTHOPS) FRIGIDUS 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.
- P. BILUNATUS Cress. Eden, July 14, 24.

## CERCERIS Latreille

- C. CLYPEATA Cress. S. W. Harbor; Eden; Bar Harbor, July 20–24. These burrow and store beetles.
- C. DENTIFRONS Cress. Eden, July 18–24. Same as above.
- C. ARELATE Banks. Newport Meadow flying, Sept. 4. Not common. The provisioning in this genus is done with beetles.

## BEMBEX 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.

## SOLENIUS LePeletier

- S. (BLEPHARIPUS) ATER* Cress. Narrows; Echo Lake, June 27–Aug. 13. All of this genus make burrows in the ground, stalks, wood, etc. Flies are the favorite insect for provisioning.
- S. CHRYSARGYNUS* LeP. Bar Harbor; S. W. Harbor, July 17–27.
- S. CORRUGATUS* Pack. S. W. Harbor, July 11.
- S. INTERRUPTUS* LeP. Eden, July 24–Sept. 6.
- S. MACULIPENNIS* Smith. Echo Lake; N. E. Harbor, July 12–Aug. 10.
- S. MONTANUS* Cress. Eden; Long Pond, July 16–17.
- S. MONTICOLA* Pack. Eden, July 28.
- S. OBSCURUS* Smith. Bar Harbor, July 28–Sept. 10.
- S. SAYI* Ckll. S. W. Harbor; Bar Harbor, July 10–Aug. 23. Common.
- S. SEPTENTRIONALIS* Pack. Mt. Desert, July 14.
- S. SINGULARIS* Smith. Stations F133 and 263.
- S. TRAPEZOIDEUS* Pack. Bar Harbor; S. W. Harbor, July 23–Aug. 14.
- S. TRIFASCIATUS* Say. Bar Harbor, Aug. 9.

## OXYBELUS Latreille

- O. QUADRINOTATUS* Say. This genus instead of carrying the flies, which it uses to provision, impales them on its sting. Penikese in bank, July.

## CEMONUS Jurine

- C. INORNATUS* Pack. Upper Hadlock Pond; Bar Harbor, June 10–21.

## HYLAEIDAE

## COLLETES Latreille

- C. ARMATUS* Patt. Record of capture lost. The members of this genus build nests in the ground, often in colonies.
- C. MESOCOPUS*. Station F39, Oct. 6.

## HYLAEUS Fabricius

- H. CRESSONI (Ckll.). Eden, July 15. Look for the nests of some of this genus in stems.  
H. ELLIPTICA Kirby. Bar Harbor; Penikese, July 13-19.  
H. MODESTUS Say. Common, June 17-July 30.  
H. THASPII Robts. S. W. Harbor, July 11.

## ANDRENIDAE

## 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. Station F267, Sept. 5.  
A. BIPUNCTATA Cress. Station F240, May 11.  
A. CARLINI Cock. Station F241, May 11.  
A. CLARKELLA Kirby. Station F241, April 21.  
A. COCKERELLI Graen. Bar Harbor; Eden, June 7-9.  
A. CORNI Robt. Station F236, May 11.  
A. CRATAEGI Rob. Section 28, July 11.  
A. HIRTICINCTA Prov. S. W. Harbor, Aug. 23. On flowers of goldenrod.  
A. LATA Vier. Bar Harbor, June 8, 1921. Type locality.  
A. MILWAUKENSIS 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. NEBECULA Smith. Bar Harbor, Sept. 9-11.  
A. PLACIDA Smith. Station F240, May 11.  
A. SALICTARIA Rob. Station F240, May 11.  
A. THASPII Graen. Echo Lake; N. E. Harbor (Minot), June 18-July 8. Stylopized.  
A. TUMIDA Vier. Echo Lake, July 12, 1918. Type locality.  
A. VICINA Smith. Bar Harbor, June 8. On flowers of fruit trees.

- A. WEEDI Viereck. Station F236, May 11.  
A. WHEELERI Graen. Mt. Desert, July 15 (Lutz).  
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

- C. ANDRENIFORMIS Smith. Station F259, July 26. Social parasites on other bees.

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. (OXYSTOGLOSSA) CONFUSUS Sm. Bar Harbor, July 17; Newport Meadow, Sept. 2.  
H. CORIACEUS Smith. Common, July 6-Aug. 17; Station F259.  
H. CRESSONI Robts. Bar Harbor; Green Mt.; Echo Lake, June 11-July 25.  
H. FOXII Robts. Bar Harbor, June 7-13.  
H. LEROUXI Lepel. Common, July 6-Sept. 6.  
H. LEUCOZONIUS Schrank. Mt. Desert, July 13. Not common.  
H. NYMPHAEARUM Robts. Narrows, Aug. 13.  
H. PIOSUS Sm. Mt. Desert, July 11. Not common.  
H. PROVANCHERI D. T. Bar Harbor; S. W. Harbor; Middle Road; Newport Meadow; Stations F242 and F249, Aug. 15-Sept. 2.  
H. QUADRIMACULATUS Robts. S. W. Harbor, July 13.  
H. RUBICUNDUS (Crist.). Mt. Desert, July 11; Section 23, Sept. 15.

- H. SIMILIS Smith. Common, July 6–Aug. 17.
- H. TRUNCATUS Robts. S. W. Harbor, Sept. 6.
- H. VERSATUS Robts. Bar Harbor; Long Pond; Narrows, June 15–Aug. 21.
- H. (AGAPASTERON) VIRESSENS Fab. Eden Fairgrounds on wild roses, Station F259. This very beautiful species is not common.
- H. (CHLORALICTUS) PLANATUS Lovell. Mt. Desert, July 10.
- H. (CHLORALICTUS) VIRIDATUS Lovell. Mt. Desert, July 17.
- H. ZEPHYRUS Smith. S. W. Harbor; Echo Lake, July 10–17.

HALICTOIDES Nylander

H. NOVAEANGLIAE Robt. 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.

AUGOCHLORELLA Sandhouse

- 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.

OXYSTOGLOSSA Smith

- O. CONFUSUS Robt. Green Mt., July 25.
- O. PURUS Say. Bar Harbor; Salisbury Cove, June 9–July 25.

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. CUNEATA var. QUADRISIGNATA Robts. Bar Harbor; Echo  
Lake, June 16-July 26.  
N. PERPLEXA Cress. Bar Harbor; Narrows; Salisbury Cove,  
June 9-July 23.  
N. sp. Station F267, Sept. 5.

## SPHECODES Latreille

- S. ARVENSIS Patt. Station F267, Sept. 5. This genus are social  
parasites of *Halictus*.  
S. JOHNSONI Lovell. N. E. Harbor, July 24.  
S. NUBILUS Lovell and Cockerell. Bar Harbor, Aug. 15.  
S. OBSCURANS L. and C. Bar Harbor, June 16-July 24.  
S. RANUNCULI Robts. Bar Harbor, June 15.  
S. sp. Station F267, Sept. 5.

## CLISODON Patton

- C. TERMINALIS Cress. Bar Harbor; Eden, June 15-July 18.  
Frequents the asters.

## 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.

## 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.

## MEGACHILIDAE

ANDRONICUS Cresson

- A. CYLINDRICUS Cress. Bar Harbor; S. W. Harbor, June 8–July 11.  
A. PRODUCTUS Cress. Bar Harbor, June 7.

ALCIDAMEA Cresson

- A. PRODUCTA Cress. Bar Harbor, June 7. Nests in the pith of plants such as sumae.  
A. TRUNCATA Cress. Bar Harbor, July 10–25.

CAELIOXYS Latreille

- C. SODALIS Cress. Bar Harbor, July 19–20. These live as social parasites in the nests of *Megachile*.  
C. sp. Bar Harbor, July 10.  
C. sp. Section 28, July 23.

HERIADES Spinola

- H. CARINATUS Cress. Eden, July 24.

## MEGACHILE Latreille. The Leaf-cutting Bees

- M. INFRAGILIS Cress. Common, July 12–Sept. 23.  
M. LATIMANUS Say. Eden, Aug. 11, 1926.  
M. MENDICA Cress. Southwest Harbor, Sept. 6.  
M. MUCIDA Cress. Common, June 21–July 26.  
M. RELATIVA Cress. S. W. Harbor; Echo Lake; Bar Harbor, June 27–Sept. 13.  
M. VIDUA Smith. Bar Harbor; S. W. Harbor; Echo Lake, June 7–July 20.  
M. (ANTHEMOIS) INERMIS Prov. Indian Point on flowers, July 28; S. end of Eagle Lake on *Solidago*, Aug. 16. Scarce.  
M. (DELOMECHILE) MELANOPHEA Smith. Common on wild roses, etc., June 9–July 25.  
M. (LITOMECHILE) BREVIS Say. Section 28, July 23. Not common.

## 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. ATRIVENTRIS Cress. Eden on cord wood, July 3. Scarce.
- O. BUCEPHALA Cress. Little Round Pond under wet wood, July 21. Scarce.
- O. DISTINCTA Cress. 'Mt. Desert,' July 30, on flowers of *Vicia* (McAtee).
- O. INSPERGENS Lov. Penikese, July 13. Station F251.
- O. LIGNARIA Say. Bar Harbor, July 21.
- O. MELANOTRICHA Lov. & Ckll. Bar Harbor, June 9; Echo Lake, June 17-July 12.
- O. PUMILA Cress. Bar Harbor, June 9.
- O. SIMILLIMA Smith. Common, June 9-July 12.

## STELIS Panzer

- S. LATERALIS Cress. S. W. Harbor, July 20. Parasitic in the nests of *Alcidamia producta* Cr.

## BOMBIDAE

BOMBUS Latreille (*Bremus* Panzer). The Bumblebees

- B. AFFINIS Cres. Station F279, July 12. Scarce.
- B. BIMACULATUS Cress. 'Mt. Desert,' July 30 (McAtee).
- B. BOREALIS Nyl. S. de Mont Spring, July 3 (Salman). Scarce.
- B. FERVIDUS Fab. Nurseries, June 27; N. end of Eagle Lake, Sept. 26.
- B. PERPLEXUS Cress. Common, June 17-Sept. 30.

- B. TERNARIUS Say. Orange-banded bumblebee. Common, June 7-Aug. 24.
- B. TERRICOLA Kby. Common all summer.
- B. VAGANS F. Sm. With us all summer but in smaller numbers than the three next above.

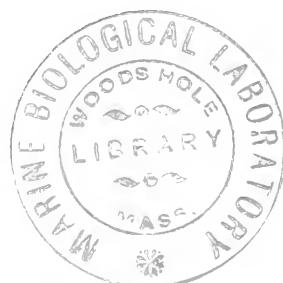
*PSITHRUS* Lepeletier. The Usurper Bees

- P. ASHTONI Cress. Bar Harbor; S. W. Harbor; Narrows, June 7-Aug. 14.
- P. LABORIOSUS Fab. S. W. Harbor, July 15.
- P. LABORIOSUS var. CITRINUS Smith. Bar Harbor; S. W. Harbor, July 10-Aug. 14.
- P. TRICOLOR Frankl. Bar Harbor; Tremont, July 19-Aug. 23.

APIDAE

APIS Linnaeus

- A. MELLIFICA 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)**Group HETEROSPHYRONIDA****Suborder HETEROSPHYRONIDA****CHTHONIOIDEA****CHTHONIIDAE****CHTHONIUS C. L. Koch**

C. TETRACHELATUS (Preyssler). One specimen under a stone on Bar Island, August 15, 1931.

**Group HOMOSPHYRONIDA****Suborder MONOSPHYRONIDA****CHELIFEROIDEA****CHERNETIDAE****CHELANOPS Nicolet**

C. SANBORNI (Hagen). Under stones and logs, in damp places. Shore of Lake Wood, Duck Brook Path, Salisbury Cove and Corfield. Our most common species.

**CHELIFERIDAE****CHELIFER Geoffroy de St. Hilaire**

C. CANCROIDES (Linné). One specimen taken in a house, August 10, 1931.

## Suborder ARACHNOMORPHAE

## Branch TRIONYCHAE

## MIMETIDAE

## MIMETINAE

*MIMETUS* Hentz

*M. EPEIROIDES* Emerton. One young female, presumably this species. F. 269.

## ULOBORIDAE

## HYPTIOTINAE

*HYPTIOTES* Walckenaer

*H. CAVATUS* (Hentz). In underbrush, uncommon. The Bowl, base of Newport Mountain. On spruce in woods, one female, 9-22-35.

## DICTYNIDAE

## DICTYNINAE

*DICTYNA* Sundevall

*D. CRUCIATA* Emerton. One young female, October 6, 1931. F. 39.

*D. FOLIACEA* (Hentz). In woods. Females taken during the first half of July. The Bowl, Ireson Hill, base of Newport Mt., Duck Brook Path.

*D. SUBLATA* (Hentz). One young male, middle of August. Bay Shore Drive.

*D. VOLUCRIPES* Keyserling. The most common species of the genus. These spiders build conspicuous nests in dead goldenrod or similar plants. They are seemingly more common in August. Generally distributed around the edges of fields. Four females. F. 242.

## MICRYPHANTIDAE

## ERIGONINAE

CERATICELUS Simon

C. FISSICEPS (Cambridge). Among leaves and on shrubs, very common. Duck Brook Path, Hulls Cove.

CERATINOPSIS Emerton

C. INTERPRES (Cambridge). One specimen. Heath south of Salisbury Cove.

DIPLOCEPHALUS Bertkau

D. CRISTATUS (Blackwall). One pair, Corfield.

GRAMMONOTA Emerton

G. PICTILIS (Cambridge). In woods, on tree trunks. Duck Brook Path.

## AMAUROBIIDAE

## AMAUROBHINAE

AMAUBIUS C. L. Koch

A. BENNETTI (Blackwall). Under bark on stumps and under logs and stones in woods. Females common in July and August; males not taken. Corfield, Hulls Cove. Young female, meat trap, Toad Hole, September 1, 1935. One female on rotten wood, May 30, 1931; one female, F. 190.

TITANOECA Thorell

T. AMERICANA Emerton. Under stones, in a very hot, dry area. Adult and rather common in late June. The Hop.

## AGELENIDAE

## AGELENINAE

## AGELENOPSIS Giebel

A. POTTERI (Blackwall). (*Agelena naevia* of American authors, in part.) Abundant in meadows and bushy fields, everywhere. Adult in August. Two females, web on ground, September 20, 1930. One female, F. 218.

## CICURINA Menge

The clypeus is usually as high or higher than the diameter of the anterior lateral eyes. Anterior median eyes not much smaller than the anterior laterals. The dorsal spines of the femora are: legs I, II, 1-1-1; legs III, IV, 1-1-2.

## Key to the species of CICURINA

1. Tibia I with 2-2 ventral spines.....*breris*

Tibia I with 2-2-2 ventral spines.....*robusta*

C. BREVIS (Emerton). North end of Echo Lake. Female from under bark, Jordan Mt., September 2, 1935.

C. ROBUSTA Simon (*C. arcuata* Keyserling). Lake Wood, base of Newport Mountain.

## CORAS Simon

C. MONTANUS (Emerton). Young male and female, July 20, 1936. F. 257.

## CRYPTHOECA Thorell

This genus closely resembles *Cicurina*. Our species may be distinguished by two points. The height of the clypeus is about half that of the anterior lateral eyes. The dorsal spines on the femora are: Leg I, 1-1; leg II, 1; legs III, IV, 0.

C. MONTANA Emerton. Two young taken at base of Newport Mountain, determination slightly doubtful.

## PISAURIDAE

## THAUMASINAE

## DOLOMEDES Latreille

D. SCRIPTUS Hentz (*fontanus* Emerton, male; *tenebrosus* Emerton, female). A female guarding her nest, taken on west side of Bubble Pond, August 9, 1932; also Lake Wood. Female, Dam at Ripple Pond, July 1, 1935.

D. TRITON Walckenaer. Two females from Pond, Ireson Hill, July 7, 1933, represent the common northern variety (*sexpunctatus* Hentz).

## LYCOSIDAE

## LYCOSINAE

## LYCOSA Latreille

L. HELLUO Walckenaer. One specimen, Hulls Cove.

## TROCHOSA C. L. Koch

T. FRONDICOLA (Emerton). Norway Drive, Lake Wood. One female, Corfield, June 12, 1931.

T. PRATENSIS (Emerton). One specimen, Eden (Northeast Branch).

## PIRATA Sundevall

P. PRODIGIOSA Keyserling (*febriculosa* Becker). One young male from Bar Harbor, July 3, 1938, presumably this species.

## PARDOSINAE

## PARDOSA C. L. Koch

P. MODICA (Blackwall) (*brunnea* Emerton). One specimen, Eden (Northeast Branch). One female, Station No. 172.

P. LAPIDICINA Emerton. Quite common among stones just above the high-water line. Corfield; Salisbury Cove.

P. MACKENZIANA (Keyserling) (*uncata* Thorell). Two females. Lake Wood.

P. XERAMPELINA (Keyserling). Uncommon. Lake Wood, base of Newport Mountain; Eden (Northeast Branch).

## THERIDIIDAE

## ASAGENINAE

## CRUSTULINA Menge

*C. GUTTATA* (Wider). Under stones, uncommon. The Hop.

## ENOPOGNATHA Pavesi

*E. MARMORATA* (Hentz). One female, Lake Wood.

## STEATODA Sundevall

*S. BIPUNCTATA* (Linnaeus). An European species, recorded only once or twice from the eastern United States and Canada, probably now established. One female, The Laboratory, July 20, 1937. One female in the Shack, September 16, 1930.

*S. BOREALIS* (Hentz). In sheltered crannies about houses, quite common. Adults taken from July 1 to middle of September. Bar Harbor, Hulls Cove, Salisbury Cove. Young female, Corfield, July 10, 1935. Female from under spruce bark, Boyd Path, October 4, 1935.

## ARGYRODINAE

## RHOMPHAEA L. Koch

*R. FICTILIUM* (Hentz). One specimen, Mount Kebo.

## THERIDIINAE

## THERIDION Walckenaer

*T. AURANTIUM* Emerton. Two females, Salisbury Cove.

*T. DIFFERENS* Emerton. Norway Drive, the Bowl, heath south of Salisbury Cove. Female, F. 194. Female, F. 242.

*T. FRONDEUM* Hentz. Uncommon, but widely distributed in woods.

*T. GLOBOSUM* Hentz. In undergrowth, rare. Hulls Cove.

*T. MURARIUM* Emerton. One female taken on window. Bar Harbor.

T. TEPIARIORUM C. L. Koch. Not uncommon in sheltered spots about the Corfield Laboratory. A cosmopolitan species and probably an escape from a neighboring greenhouse.

T. UNIMACULATUM Emerton. One female. F. 210.

T. ZELOTYPUM Emerton. One trees, uncommon. Corfield.

**THERIDULA** Emerton

T. OPULENTA (Walckenaer). Among bushes at the edge of woods, uncommon. Adult in first half of July, Bay Shore Drive, Hulls Cove, Salisbury Cove.

**LINYPHIIDAE**

**LINYPHIINAE**

**STYLOPHORA** Menge

S. CONCOLOR (Wider). Under stones, scarce. Corfield.

**DRAPETISCA** Menge

D. ALTERANDA Chamberlin (*socialis* Emerton). On spruce trunks, 2 specimens. Duck Brook Path.

**LEPHTHYPHANTES** Menge

L. NEBULOSUS (Sundevall). One female, Long Poreupine Island.

**PITYOHYPHANTES** Simon

P. PHRYGINA (C. L. Koch). In similar situations as *marginalata*, fairly common. Widely distributed. One female. F. 242.

P. LIMITANEA (Emerton). One young female, Robinson Mt., Aug. 24, 1934, presumably this species.

## LINYPHIA Latreille

- L. PUSILLA Sundevall (*mandibulata* Emerton). One female, Corfield. One female, F. 208.
- L. MARGINATA C. L. Koch. In woods, chiefly coniferous, living near the ground. Very common and widely distributed. One female, F. 242. One female, F. 190.

## FRONTINELLA F. Cambridge

- F. COMMUNIS (Hentz). One female, F. 242.

## TAPINOPA Westring

- T. BILINEATA Banks. Rare. Corfield, Long Porcupine Island.

## ARGIOPIDAE

## ARGIOPINAE

## ARGIOPE Audouin

- A. TRIFASCIATA (Forskål). Quite common. Adult in late August and September. Eden (Northeast Branch), Salisbury Cove, Hulls Cove, Norway Drive, Somesville. One female, sweeping swamp, September 17, 1937. One female, F. 113. Three females, F. 113. One female, F. 122. One young female, F. 210.
- A. AURANTIA (Lucas). One female, near Seal Cove, August 24, 1935.

## ARANEINAE

## ARANEA Linnaeus

- A. CAVATICA (Keyserling). On houses and barns, common. Corfield, Hulls Cove, Salisbury Cove, Beech Hill. One male, one female, Corfield, July 16, 1937. One young female, July 1, 1934. Immature males, one female, Shop, September 20, 1935.
- A. CORTICARIA (Emerton). Two females, F. 122.
- A. DISPLICATA (Hentz) (*westringi* Thorell). In woods, fairly common. Lake Wood, Corfield, Salisbury Cove. One female, F. 242. One young female, Robinson Mt., Aug. 24, 1934.

- A. NORDMANNI (Thorell). Rare. Corfield, Salisbury Cove.
- A. RAJI (Scopoli) (*marmoreus* Clerck; *gigas* Leach). One female, Salisbury Cove. One specimen, Corfield. One female, F. 218.
- A. SILVATICA (Emerton). One female, Shop, September 20, 1935.
- A. SOLITARIA (Emerton). One male on poplar tree, September 30, 1935. F. 158.
- A. THADDEUS (Hentz). One specimen, Eden (Northeast Branch).
- A. TRIFOLIUM (Hentz). Beech Hill. One female, F. 286. One female, F. 122. One male, Bay Shore Drive, July 28, 1937. One female, Sec. 15, September 5, 1937.
- A. UNDATA Olivier (*sericatus* Clerck). Rare. Corfield, Hulls Cove.

## CYCLOSA Menge

- C. CONICA (Pallas). Rather rare. Lake Wood, base of Newport Mountain, Long Porcupine Island.

## MANGORA Cambridge

- M. GIBBEROSA (Hentz). Uncommon. Eden (Northeast Branch), Heath south of Salisbury Cove.

## ACANTHEPEIRA Marx

- A. STELLATA (Walckenaer). (Previously placed in *Marxia* which is now regarded as a synonym.) One female, Eden (Northeast Branch).

## METEPEIRA F. Cambridge

- M. LABYRINTHEA (Hentz). Rare. Emery District, Heath south of Salisbury Cove. One female, F. 218.

## NEOSCONA Simon

- N. ARABESCA (Walckenaer). One specimen, heath south of Salisbury Cove. One female, Emery Dist., September 7, 1937. Four females, F. 210. Three females, Sec. 15, September 5, 1937. One female, F. 269.

SINGA C. L. Koch

*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, F. 269.

ZILLA C. L. Koch

*Z. ATRICA* (C. L. Koch). Quite common around the Corfield Laboratory. One male, in house, September 1, 1930.

#### TETRAGNATHINAE

PACHYGNATHA Sundevall

*P. AUTUMNALIS* Keyserling. One male, S. 32, September 4, 1935.

TETRAGNATHA Latreille

*T. ELONGATA* Walckenaer. Eden (Northeast Branch), Norway Drive. Two males, one female, F. 252. One male, Bar Harbor, July 3, 1938.

*T. EXTENSA* (Linnaeus). One female, Witch Hole Pond, July 27, 1933. One male, one female, F. 242.

*T. STRAMINEA* Emerton. More common than *elongata*. Heath south of Salisbury Cove, Hulls Cove, the Hop.

#### THERIDIOSOMATINAE

THERIDIOSOMA Cambridge

*T. GEMMOSUM* (L. Koch). In low, wet places, uncommon. Duck Brook Path, base of Newport Mountain, north end of Echo Lake.

## Branch DIONYCHAE

## THOMISIDAE

## PHILODROMINAE

## PHILODROMUS Walckenaer

- P. PERNIX Blackwall. West of Lake Wood, heath south of Salisbury Cove, Eden (Northeast Branch), Corfield.
- P. RUFUS Walckenaer. Heath south of Salisbury Cove, Hulls Cove, Ocean Drive near the Sand Beach.
- P. VIRESSENS 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

- T. FORMICINUS (Olivier) (*lycosoides* Emerton; not *coloradensis* Keyserling). In unmown fields and roadsides. Hulls Cove, heath south of Salisbury Cove. One male, Sec. 11, Sept. 20, 1937. One female, Sec. 15, September 5, 1937. One young female, sweeping swamp, September 19, 1937.

## TIBELLUS Simon

- T. OBLONGUS (Walckenaer). Swept from grass, the most common member of this subfamily. West of Lake Wood, heath south of Salisbury Cove, Norway Drive, Hulls Cove, meadow east of Newport Mountain. One young female, Sec. 11, September 20, 1937. One young female, sweeping swamp, September, 19, 1937. Young female, F. 218. Young female, Emery Dist., September 7, 1937.

## MISUMENINAE

## MISUMENA Latreille

M. CALYCINA (Linnaeus) (*ratis* Clerck). On flowers, common. West of Lake Wood, heath south of Salisbury Cove, Norway Drive, Hulls Cove, Corfield, Ironbound Island. One female, F. 242. Young male, F. 218. One female, F. 118. Young female, F. 218. One female, F. 113. Two females, F. 122. Two females, Emery Dist., September 7, 1937.

## MISUMENOIDES F. Cambridge

M. ALEATORIUS (Hentz). In similar situations to the preceding species, but much more abundant and widely distributed. Eden (Northeast Branch), Salisbury Cove, heath south of Salisbury Cove, Emery District, west of Lake Wood, Hulls Cove, Burnt Porecupine Island.

## TMARUS Simon

T. ANGULATUS (Walckenaer). One specimen, Salisbury Cove. Young male, Sec. 11, September 20, 1937. Young female, Robinson Mt., August 24, 1934. One female, F. 31. One young male, F. 289.

## XYSTICUS C. L. Koch

X. ELEGANS Keyserling (*limbatus* Keyserling). Salisbury Cove, Hulls Cove. One female, Robinson Mt., in fungus, August 24, 1934. One female, F. 208. Two young females, F. 218. One young male, F. 122.

X. FEROX (Hentz). Ironbound Island.

X. GULOSUS Keyserling. Norway Drive, Sand Beach. One female, Indian Pt., September 26, 1937.

X. LUCTANS (C. L. Koch). Ironbound Island. One female, F. 267. One young female, F. 218.

X. PUNCTATUS Keyserling. One female on white daisy. Newmill Meadow, July 12, 1935.

X. TRIGUTTATUS Keyserling. Indian Point, Eden (Northeast Branch). Two males, two females, F. 118.

## CORIARACHNE Thorell

C. VERSICOLOR Keyserling. One female and one immature female, under bark, Sec. 15, October 4, 1934.

GNAPHOSIDAE (*Drassidae*)

## GNAPHOSINAE

## GNAPHOSA Latreille

G. MUSCORUM (L. Koch) (*gigaetea* Keyserling). One female, McKinley, October 5, 1937. Young male and female, Sec. 15, October 4, 1934.

## DRASSODINAE

## DRASSODES Westring

D. NEGLECTUS (Keyserling). Under stones, in warm, open places. Lake Wood, the Hop.

## HERPYLLUS Hentz

H. VASIFER (Walckenaer). In houses. Rare. Hulls Cove, Bar Harbor.

## ZELOTES Gistel

Z. SUBTERRANEUS (C. L. Koch). Taken with *Drassodes neglectus*. Lake Wood.

## CLUBIONIDAE

## CLUBIONINAE

## CLUBIONA Latreille

C. RIPARIA L. Koch. One specimen, Duck Brook Path. One female, Sta. No. 172.

C. EMERTONI Petrunkevitch (*pusilla* Emerton). One male, Robinson Mt., August 24, 1934. One female, Sta. No. 172.

## MICARIINAE

CASTIANEIRA Keyserling

C. CINGULATA (C. L. Koch). An ant mimic. One specimen, Hulls Cove.

## MICARIA Westring

M. MONTANA Emerton. This also is an ant mimic. Rare. Salisbury Cove.

SALTICIDAE (*Attidae*)

## PELLENINAE

EVARCHA Simon

E. HOYI (Peckham). Salisbury Cove, Lake Wood. One female, F. 175. One male, F. 113. One male, F. 210.

PELLENES Simon

P. SPLENDENS (Peckham). Heath south of Salisbury Cove.

## HELIOPHANINAE

ICIUS Simon

I. ELEGANS (Hentz). Heath south of Salisbury Cove.

I. SIMILIS Banks. One young female, Sec. 15, September 5, 1937.

## DENDRYPHANTINAE

PHIDIPPUS C. L. Koch

P. CLARUS Keyserling. Heath south of Salisbury Cove, Lake Wood. One male, F. 169.

*PARAPHIDIIPPUS* F. Cambridge

*P. marginatus* (Walckenaer). One male, F. 218. One male, one female, Emery Dist., September 7, 1937. Five males, two young females, F. 210.

*DENDRYPHANTES* C. L. Koch

*D. capitatus* (Hentz). One male, F. 122. Three males, four females, Emery Dist., September 7, 1937. One male, four females, Sec. 15, September 5, 1937.

## SITTICINAE

*SITTICUS* Simon

*S. palustris* (Emerton). Meadow east of Newport Mountain.

## SALTICINAE (Marpissinae)

*SALTICUS* Latreille

*S. scenicus* (Linnaeus). Usually around houses. Salisbury Cove, Hulls Cove.

## Branch QUADROSTIATAE

HAHNIIDAE

HAHNHINAE

ANTISTEA Simon

*A. BRUNNEA* (Emerton). One specimen. Duck Brook Path.

HAHNIA C. L. Koch

*H. CINEREA* Emerton. One specimen. Duck Brook Path.

NEOANTISTEA Gertsch

*N. AGILIS* (Keyserling). The most common species of the subfamily. 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 Poreupine Island.

## ACARINA

ERIOPHYIDAE. The Gall Mites

ERIOPHYES Siebold

E. sp. On crumpled leaves, Corfield, Aug.



I N D E X  
To and Including  
Genera



<b>A</b>	<b>BAGROTIS</b>	201	<i>Agabus</i> . . . . .	98
Abbottana		245	<i>Agallia</i> . . . . .	76
Abstrula		140	<i>Agapasternon</i> . . . . .	443
Acalptus		170	<i>Agaristidae</i> . . . . .	195
Acanthepeira		456	<i>Agathidium</i> . . . . .	103
Acarina		463	<i>Agathis</i> . . . . .	392
Acasis		231	<i>Agathomyia</i> . . . . .	329
Achaetoneura		375	<i>Agelena</i> . . . . .	451
Achaetella		359	<i>Agelenidae</i> . . . . .	451
Achatodes		214	<i>Ageleninae</i> . . . . .	451
Acidota		104	<i>Agelenopsis</i> . . . . .	451
Acilius		99	<i>Ageniella</i> . . . . .	430
Acmæops		148	<i>Agnopteryx</i> . . . . .	273
Aenæmia		310	<i>Agria</i> . . . . .	368
Aeoptus		171	<i>Agriulus</i> . . . . .	124
Aeossus		255	<i>Agrion</i> . . . . .	49
Aerididae		39	<i>Agrionidae</i> . . . . .	49
Aerobasis		249	<i>Agriopodes</i> . . . . .	212
Aeroceera		320	<i>Agriotes</i> . . . . .	120
Aerocerops		277	<i>Agromyza</i> . . . . .	346
Aeroneuria		54	<i>Agromyzidae</i> . . . . .	346
Aeronieta		196	<i>Agronoderus</i> . . . . .	96
Aeroptena		360	<i>Agroperina</i> . . . . .	209
Aceroriens		401	<i>Agrothereutes</i> . . . . .	402
Acrosternum		73	<i>Agrotis</i> . . . . .	198
Aerydiidae		41	<i>Alabama</i> . . . . .	220
Aerydium		41	<i>Alaptus</i> . . . . .	429
Actebia		198	<i>Aleathoë</i> . . . . .	265
Actia		376	<i>Alcidamea</i> . . . . .	445
Actias		191	<i>Aldrovandiella</i> . . . . .	313
Actina		313	<i>Alcides</i> . . . . .	389
Actornithophilus		55	<i>Alcochara</i> . . . . .	109
Aculecephalus		77	<i>Alcocharinae</i> . . . . .	108
Adaina		246	<i>Alexeter</i> . . . . .	411
Adalia		136	<i>Allandrus</i> . . . . .	164
Adela		280	<i>Allantus</i> . . . . .	384
Adelocera		118	<i>Alleculidae</i> . . . . .	137
Adelphocoris		68	<i>Allocotocera</i> . . . . .	310
Adelphomyia		291	<i>Allodia</i> . . . . .	311
Adoxus		158	<i>Alloeostylus</i> . . . . .	365
Äedes		303	<i>Allognosta</i> . . . . .	313
Aegeria		265	<i>Allogrpta</i> . . . . .	333
Aegeriidae		265	<i>Allononyma</i> . . . . .	266
Aellopos		190	<i>Alloperla</i> . . . . .	53
Aeschna		47	<i>Allophylla</i> . . . . .	357
Aeshnidae		47	<i>Alphophora</i> . . . . .	372
Aethalura		239	<i>Alphosternum</i> . . . . .	409

Alsophila	229	Andrieus	422
Altica	161	Androchirus	138
Alydidae	71	Andronicus	445
Alydus	71	Andropolia	212
Alypia	195	Angita	417
Alyson	438	Anisobas	398
Amalopina	291	Anisocalvia	136
Amara	92	Anisodactylus	95
Amatidae	192	Anisogamus	176
Amaurobiidae	450	Anisopodidae	299
Amaurobiinae	450	Anisopus	299
Amaurobius	450	Anisosticta	135
Amaurosoma	360	Anisota	192
Amblymerus	426	Anobiidae	141
Amblyscirtes	188	Anomoglossus	95
Amblyteles	395	Anopheles	303
Ameletus	46	Anoplitis	162
Americina	359	Anoplius	430
Ametastegia	383	Anoplodera	148
Amolita	214	Anoplolyda	379
Amorbia	258	Anorthosia	270
Amphibolips	422	Antepione	245
Amphidasis	240	Anthalia	321
Amphion	191	Anthemois	445
Amphyipyra	212	Antherophagus	131
Amydria	278	Anthicidae	118
Anacaena	101	Anthieus	118
Anacampsis	271	Anthobium	104
Anacamptodes	239	Anthoboseus	152
Anachaetopsis	375	Anthocoridae	63
Anacharis	421	Anthocoris	63
Anacomis	150	Anthomyia	360
Anadaptus	96	Anthomyza	346
Anagoga	242	Anthonomus	169
Anamogna	200	Anthophilax	148
Anaplectoides	200	Anthothrips	59
Anaspis	117	Anthracophaga	349
Anathix	208	Anthrax	318, 319
Anatis	137	Anthrenus	127
Anatoecus	57	Anthribidae	164
Anax	47	Anticepsia	220
Anchicera	132	Antispila	274
Anchylopera	263	Antistea	463
Ancistrocerus	436	Anurida	37
Aneylis	263	Anytus	207
Andrena	441	Apaeasia	241
Andrenidae	441	Apamea	210

Apanteles	391	Argyra	326
Apantesis	194	Argyresthia	267
Apatania	177	Argyria	251
Apateticus	73	Argyrodinae	453
Apechtis	406	Argyrotoxa	258
Apemon	309	Aristotelia	270
Aperileptus	418	Arotes	407
Aphalara	84	Arpactus	439
Aphania	259	Arthomaera	139
Aphanistes	415	Asageninae	453
Aphanogamus	420	Asaphes	120
Apharetra	205	Asclera	116
Aphelosetia	274	Ascogaster	390
Aphididae	85	Asemum	147
Aphilanthrops	439	Ashmeadopria	420
Aphiochaeta	328	Asilidae	316
Aphodius	143	Asilus	318
Aphomia	254	Asindulum	309
Aphrophora	83	Asphondylia	306
Apicia	245	Asphragis	404
Apidae	447	Aspitola	394
Apinops	371	Astata	437
Apion	165	Asteia	345
Apis	447	Astiidae	345
Apleteoides	200	Astenophylax	177
Apocephalus	328	Asteromyia	305
Apolima	416	Astylopsis	153
Arachnida	448	Atanycolus	387
Arachnomorphae	449	Atheta	108
Aradidae	63	Athous	119
Aradus	63	Atlantus	383
Aranea	455	Atmetus	414
Araneinae	455	Atomaria	132
Archana	210	Atractodes	399
Archips	256	Atrytone	188
Archytas	370	Attagenus	127
Arctia	195	Attalus	114
Aretiidae	192	Attelabus	165
Aretocorisa	60	Attidae	461
Arctopsyche	176	Augochlorella	443
Arge	381	Auletes	164
Argia	50	Auleutes	171
Argidae	381	Aulonothroceus	122
Argiope	455	Austrolimnophila	292
Argiopidae	455	Autographa	216
Argiopinae	455	Aylax	422
Argynnis	183	Azelia	364

<b>BACCHA</b>	332	Blattella	37
Bactra	260	Blattidae	37
Baeocera	110	Blennocampa	385
Baetidae	45	Blepharigena	374
Baetis	45	Blepharipus	440
Baileyia	216	Blepharocera	299
Balaninus	169	Blepharoceridae	299
Balelutha	81	Blepharomastix	254
Balsa	213	Bleptina	223
Banasa	72	Blissus	70
Banehus	418	Blondelia	372
Banksiola	179	Boletina	310
Bapta	236	Bolitobius	108
Baptolinus	105	Bolitochara	108
Barce	62	Bolitophila	308
Barydoma	109	Bolitotherus	138
Barynotus	166	Bombelius	319
Barypeithes	166	Bombidae	446
Basiaeschna	49	Bombomima	317
Basilarchia	185	Bombus	446
Bassareus	157	Bombycia	205
Bassus	392	Bombyliidae	318
Batrachedra	268	Bombyliopsis	369
Belidae	164	Bomolocha	221
Bellamira	150	Bondia	255
Bellura	214	Borboridae	353
Belonura	426	Borborus	353
Belostomatidae	61	Boriomyia	43
Bembex	439	Borkhausenia	272
Bembidion	89	Botanobia	350
Bembidium	89	Bothriopterus	92
Berosus	100	Boyeria	47
Bessa	376	Brachinus	94
Betarmon	121	Brachyacanthus	134
Bethylidae	435	Brachycoma	367
Bethylus	435	Brachydeutera	353
Bibio	312	Brachygluta	109
Bibionidae	312	Brachyleptura	148
Biecellaria	320	Brachylomia	205
Bigotomyia	365	Brachymeria	424
Bittacomorpha	281	Brahyopla	335
Bittacomorphella	281	Brachypalpus	336
Bivena	383	Brachypeza	311
Blapstinus	138	Brachyrhinus	166
Blapticus	415	Brachys	124
Blastobasidae	268	Braconidae	387
Blastobasis	268	Bradytus	92

Bremus	446	Calpe	220
Brenthis	183	Cameraria	276
Brephos	229	Camnula	40
Brevicornis	433	Campaea	241
Bruchidae	163	Campodea	37
Bruchomorpha	75	Campodeidae	37
Bryoporus	108	Camponotus	435
Bucculatrix	277	Campoplex	417
Bucculatriplex	389	Campopligidea	416
Buplex	314	Camposecopus	419
Buprestidae	122	Campsienemus	327
Buprestis	123	Camptogramma	235
Byrrhidae	128	Camptylochila	222
Byrrhus	128	Campylenchia	82
Byturus	127	Canarsia	247
<b>C</b> ABORIUS	177	Canifa	141
Caeciliidae	52	Cantharidae	112
Caecilius	52	Cantharus	113
Caelioxys	445	Capis	215
Caenidae	45	Capnochroa	138
Caeniella	111	Capsus	67
Caenis	45	Carabidae	87
Caenolydia	379	Carabus	88
Caenurgina	219	Cardiophorus	122
Calathus	92	Caripeta	244
Caliroa	385	Carpocapsa	264
Calitys	128	Carpophilus	129
Callaspidia	421	Carposinidae	255
Callibaetis	45	Carterocephalus	187
Callidiotes	409	Cartosyrphus	334
Callidium	150	Carynota	82
Calliephialtes	408	Cassida	163
Calligrapha	158	Castianeira	461
Callimome	423	Catastenus	403
Callimomidae	423	Catharellus	96
Callimyia	329	Catia	188
Calliopsis	442	Catocala	218
Calliphora	368	Catocha	305
Calliphorurus	419	Cecidomyia	307
Callirhytis	422	Cecidomyiidae	305
Calloides	151	Cecidostiba	426
Calobata	342	Celatoria	376
Calobatidae	342	Celerio	191
Calocalpe	232	Celestes	111
Calocoris	68	Celia	92
Calosoma	89	Celithemis	48
		Cemonus	440

Centrodera	147	Chasmatonotus	300
Cephaleia	379	Chauliodes	42
Cephaloidea	115	Chauliognathus	112
Cephaloon	115	Cheilosia	334
Cephidae	379	Chelanops	448
Cerambycidae	146	Chelifer	448
Ceramica	204	Cheliferidae	448
Ceraticelus	450	Cheliferoidae	448
Ceratina	444	Chelipoda	323
Ceratinopsis	450	Cheonella	390
Ceratinostoma	359	Chelonethida	448
Ceratocapsus	66	Chelonus	390
Ceratomia	189	Chelymorpha	163
Ceratopogon	301	Chermes	86
Ceratopogonidae	300	Chermidae	84
Cereeris	439	Chernetidae	448
Cercopidae	83	Cheumatopsyche	176
Cercyon	101	Chilocorus	137
Ceresa	82	Chilostigma	177
Ceropales	431	Chimarra	178
Ceroplatys	309	Chirida	163
Ceroptrix	423	Chiromya	356
Cerostoma	268	Chironomidae	299
Ceruchus	146	Chironomus	300
Cerura	226	Chlaenius	95
Cerylon	132	Chlamys	156
Cetema	348	Chloealtis	39
Ceutophilus	38	Chloralictus	443
Ceutorhynchus	171	Chlorissa	229
Chaeretymma	403	Chlorochlamys	230
Chaetaneurophora	327	Chlorochroa	72
Chaetocnema	162	Chloroperla	53
Chaetophleps	375	Chloropidae	348
Chaetopsis	339	Chloropisca	349
Chalarus	329	Chloropleca	278
Chaleis	424	Chlorops	349
Chalcididae	424	Chlorotettix	80
Chalcoides	161	Choleva	103
Chaleophora	122	Choreutis	266
Chalepus	162	Chorinaeus	414
Chalybion	438	Chorthippus	40
Chamaemyia	354	Chortophaga	40
Chamaemyidae	354	Chromagrion	50
Chaoborus	302	Chrysanthympha	217
Characoma	216	Chryseria	371
Charadra	195	Chrysidea	432
Charisalia	149	Chrysidiidae	431

Chrysis	432	Clanoneurum	351
Chrysobothris	123	Clastoptera	84
Chrysocharis	427	Clausicella	377
Chrysogaster	335	Cleis	136
Chrysomelidae	154	Clemensia	193
Chrysopa	43	Cleridae	114
Chrysopidae	43	Climacia	43
Chrysopilus	316	Clinocera	322
Chrysopoectonus	401	Clisodon	444
Chrysopora	270	Clistomorpha	372
Chrysops	314	Clistopyga	406
Chrysotimus	326	Cloeon	46
Chrysotoxum	331	Closterocerus	427
Chrysotus	327	Clubiona	460
Chthoniidae	448	Clubionidae	460
Chthonioidea	448	Clubioninae	460
Chthonius	448	Clusia	354
Chymomyza	345	Clusiaria	354
Chyromyidae	356	Clusidae	353
Chytolita	222	Clusiodes	354
Chytonix	211	Clytus	152
Cicadella	77	Cnemodon	335
Cicadellidae	76	Cnephaliodes	370
Cieadidae	84	Cnephlogonia	374
Cieadula	81	Cnephasia	257
Cieindela	87	Coccidae	86
Cieindelidae	87	Coccinella	136
Cicurina	451	Coccinellidae	134
Cimbex	381	Coccoabaphes	67
Cimex	63	Coelambus	97
Cimidiidae	63	Coelinidea	394
Cineticornia	306	Coeloides	387
Cinetus	420	Coelopa	357
Cingilia	244	Coelopidae	357
Circotettix	40	Coelostathma	258
Cirrospiloideus	428	Coelostethus	142
Cirrospilus	427	Coenomyiidae	314
Cirrula	352	Coenosia	363
Cis	142	Coenus	72
Cisidae	142	Coleocentrus	407
Cistelidae	137	Coleophora	274
Cistogaster	371	Coleophoridae	274
Citheroniidae	192	Coleoptera	87
Citibaena	331	Colias	181
Cixius	75	Collaria	66
Cladara	231	Collembola	37
Cladura	295	Colletes	440

Collinella . . . . .	353	Cosmia . . . . .	214
Collops . . . . .	114	Cosmoconus . . . . .	411
Colocasia . . . . .	195	Cosmopepla . . . . .	73
Colopterus . . . . .	129	Cosmopteryx . . . . .	268
Colpocephalum . . . . .	55	Cossidae . . . . .	255
Colpognathus . . . . .	398	Cosymbia . . . . .	231
Columbiella . . . . .	354	Crabro . . . . .	381
Colydidae . . . . .	132	Crabronidae . . . . .	381
Colymbetes . . . . .	98	Crambidia . . . . .	193
Compsiluria . . . . .	372	Crambus . . . . .	250
Condidea . . . . .	337	Crassiseta . . . . .	350
Condylolomia . . . . .	255	Cratoparis . . . . .	164
Conicera . . . . .	328	Cratophion . . . . .	403
Coniopterygidae . . . . .	44	Cremastocheilus . . . . .	146
Coniopteryx . . . . .	44	Cremastogaster . . . . .	433
Connophreron . . . . .	103	Cremastus . . . . .	418
Conocephalus . . . . .	38	Creophilus . . . . .	106
Conophthorus . . . . .	173	Criocephalus . . . . .	147
Conopia . . . . .	265	Crocigrapha . . . . .	204
Conopidae . . . . .	338	Croesus . . . . .	386
Conosoma . . . . .	107	Crustulina . . . . .	453
Conotrachelus . . . . .	172	Crymodes . . . . .	209
Conservula . . . . .	211	Cryphia . . . . .	215
Contarinia . . . . .	307	Cryphoea . . . . .	451
Copidosoma . . . . .	425	Cryptarcha . . . . .	129
Coptocyela . . . . .	163	Cryptocala . . . . .	201
Coptodisca . . . . .	274	Cryptoecephalus . . . . .	157
Coptotomus . . . . .	98	Cryptocoecus . . . . .	86
Coras . . . . .	451	Cryptorhynchus . . . . .	172
Cordilura . . . . .	359	Cryptohypnus . . . . .	120
Cordulegaster . . . . .	47	Cryptolechia . . . . .	274
Cordulia . . . . .	48	Cryptomeigenia . . . . .	372
Cordyla . . . . .	311	Cryptophagidae . . . . .	131
Cordylomyia . . . . .	305	Cryptophagus . . . . .	131
Coreidae . . . . .	71	Cryptopleurum . . . . .	102
Coriarachne . . . . .	460	Cryptopristis . . . . .	424
Corimelaena . . . . .	74	Cryptus . . . . .	402
Corixa . . . . .	60	Cteniscus . . . . .	413
Corixidae . . . . .	60	Ctenopelma . . . . .	410
Corizidae . . . . .	71	Ctenophora . . . . .	282
Corizus . . . . .	71	Ctenucha . . . . .	192
Corrodentia . . . . .	51	Cueujidae . . . . .	130
Corticaria . . . . .	133	Cueujus . . . . .	130
Corylophidae . . . . .	103	Cucullia . . . . .	205
Corymbites . . . . .	119	Culcloecus . . . . .	57
Corynetidae . . . . .	115	Culex . . . . .	304
Corythucha . . . . .	62	Culicidae . . . . .	302

Culicoides	301	Dendroides	118
Cureulionidae	164	Dendryphantes	462
Cyamops	345	Deudryphantinae	461
Cyclosa	456	Dennus	55
Cyenodiidae	274	Depressaria	273
Cylindrocharis	90	Deraeocoris	65
Cylindromyia	369	Dermestes	127
Cyllene	151	Dermestidae	127
Cyllocoeria	404	Derodontidae	131
Cymbiodyta	101	Derostenus	427
Cymindis	94	Desmia	254
Cymodusa	416	Desmocerus	150
Cymolomia	260	Desmometopa	348
Cymus	70	Deuteronomus	244
Cynidae	74	Dexodes	377
Cynipidae	421	Diaborus	410
Cynomya	368	Diabrotica	160
Cynorrhina	336	Diachorisia	278
Cyphon	126	Diachlus	157
Cyrtidae	319	Diaerisia	194
Cytinus	128	Diactinia	233
Cyrtolobus	83	Diadegma	417
Cyrtophloeba	370	Diadocidia	308
Cyrtophorus	152	Dialges	410
Cyrtopogon	317	Dialyta	363
<b>D</b> ACNUSA	394	Dailytes	144
Dactylolabis	292	Diaperis	138
Danaidae	182	Diaphorus	327
Danaus	182	Diapriidae	420
Darapsa	191	Diarsia	199
Dascyllidae	125	Diastata	345
Dasyhelea	301	Diastetus	254
Dasyllis	317	Diastrophus	422
Dasylophia	224	Dibolia	162
Dasymolophilus	298	Dieaelotus	398
Dasyneura	306	Dieentria	225
Datana	223	Diceerea	123
Decantha	272	Dichaeta	353
Degeeriella	57	Dichelonyx	145
Deilinea	237	Dichomeris	271
Deleter	414	Dicranomyia	288
Delomegachile	445	Dicranophragma	293
Delomerista	409	Dicranota	291
Delta	212	Dictya	355
Deltocephalus	78	Dictyna	449
Dendroctonus	173	Dictynidae	449
		Dictyninae	449

Dicymolomia	255	Draeaeulacephala	77
Dieyphus	65	Drapetis	323
Didea	331	Drapetisca	454
Didymops	48	Drassidae	460
Dimecoenia	352	Drassodes	460
Dimorphopteryx	382	Drassodinae	460
Dinera	371	Drepana	229
Dineutes	99	Drepanidae	228
Diocetes	417	Dromius	94
Diocetria	316	Drosophila	345
Diomonus	310	Drosophilidae	345
Dionychae	458	Drusinus	178
Dioryctria	248	Drymus	71
Diphadnus	387	Dryocoetes	174
Diplazon	413	Dryocoetus	174
Diplocephalus	450	Dryomyza	358
Diplotaxis	145	Dryomyzidae	358
Diplotoxa	349	Duvita	270
Diprion	382	Dysidius	91
Diprionidae	382	Dyspyralis	221
Dipterygia	212	Dysstroma	234
Dircea	140	Dytiscidae	97
Discobola	288	Dytiscus	99
Discocerina	351	<b>E</b> AROPHILA	236
Disonycha	161	Eedytolopha	264
Dissosteira	40	Echmepteryx	52
Ditrichophora	351	Eelytus	409
Dixa	302	Eetoedemia	280
Dixidae	302	Eutropis	239
Dolba	189	Egle	361
Dolerus	383	Elaeophila	293
Dolichoderus	434	Elaphria	213
Dolichonabis	69	Elasmopalpus	248
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