

# Invertebrates of Beaubears Island

The taxonomic order of the invertebrates follows Invertebrates of North America (Milne & Milne, 1972).

## Notations:

- \* after the scientific name, indicates a voucher specimen is available
- ¶ after the scientific name, indicates a photo is available
- £ after the scientific name, indicates attraction to the ultraviolet light trap
- auct. author(s)
- cf. confer (Latin for compare). It is used to mean that the specimen compares favourably in most respects with the formal description of this taxa, but lacks some feature(s) to make a definitive determination.
- sp. species (singular)
- spp. species (plural)
- <sup>w</sup> Wilson's Point record

## MOLLUSCA

(ANIMALS called MOLLUSKS mostly with EXTERNAL SHELLS)

### Class: GASTROPODA (Snails and Slugs)

Scientific and common names follow Identifying Land Snails and Slugs in Canada (Grimm, F.W., R.G. Forsyth, F.W. Schueler and A. Karstad, 2009).

Scientific Name	Common Name	Association	Obser. Date
<b>Family: SUCCINEIDAE</b>	<b>AMBERSNAILS</b>		
<i>Novisuccinea ovalis</i> (Say) ¶	Oval Ambersnail	on sand of upper beach	July 4, 2017
<b>Family: ARIONIDAE</b>	<b>ARION SLUGS</b>		
<i>Arion subfuscus</i> (Draparnaud)	Dusky Arion Slug	feeding on False Morel	May 17, 2016

**ARTHROPODA**  
**(ANIMALS with EXTERNAL SKELETONS and PAIRS of JOINTED LEGS)**

Many arthropods in various classes and orders are makers of plant galls which were found on Beaubears Island. For identification of the makers (mites, flies, moths, etc.) listed in the following tables, Plant Galls and Gall Makers (Felt, 2001) was used.

**Class: INSECTA**

Taxonomic order follows Common Insects of North America (Swan & Papp, 1972).

Many insects, especially moths, are attracted to lights and sugary solutions spread on tree trunks. On the nights of July 13-14, 2017, and Aug. 30-31, 2017, an ultra-violet light trap was set up on the Island at the eastern and western ends respectively. The eastern set-up was in a dominant White Pine area, whereas the other was in a mixed forest habitat. In both cases, a beer-sugar solution was brushed onto the trunks of 25 to 30 trees of various species.

**Order: PLECOPTERA (Stoneflies)**

Scientific Name	Common Name	Notes	Obser. Date
<b>Family: CHLOROPERLIDAE</b>	<b>GREEN STONEFLIES</b>		
<i>Alloperla</i> sp. ( <i>concolor</i> ?) ¶£	Green Stonefly	at light trap near river shore	July 13, 2017

**Order: HEMIPTERA (True Bugs)**

Taxonomic order and nomenclature follow Checklist of the Hemiptera of Canada and Alaska (Maw *et al.*, 2000).

Scientific Name	Common Name	Notes	Obser. Date
<b>Family: CICADIDAE</b>	<b>CICADAS</b>		
<i>Tibicen canicularis</i> (Harris) ¶	Dog-day Cicada	exuvia photo	Sept. 14, 2018
<b>Family: MIRIDAE</b>	<b>PLANT BUGS</b>		
<i>Orthocephalus coriaceus</i> (Fabricius). *¶	Fleahopper	on vegetation of dune/marsh at E end	July 12, 2018

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**Order: EPHEMEROPTERA (Mayflies)**

Scientific Name	Common Name	Flight Season	Obser. Date
<b>Family: EPHEMERIDAE</b>	<b>GIANT MAYFLIES</b>		
<i>Hexagenia limbata</i> (Serville) ¶	Giant Mayfly	May - July	July 5, 2017

**Order: ODONATA (Dragonflies and Damselflies)**

Taxonomic order, nomenclature, and common names follow Dragonflies and Damselflies of the East (Paulson, 2011).

Scientific Name	Common Name	Flight Season	Obser. Date
<b>ZYGOPTERA</b>	<b>DAMSELFLIES</b>		
<b>Family: COENAGRIONIDAE</b>	<b>POND DAMSELS</b>		
<i>Enallagma eribium</i> (Hagen) ¶	Marsh Bluet	June – Sept.	July 20, 2016
<b>ANISOPTERA</b>	<b>DRAGONFLIES</b>		
<b>Family: AESHNIDAE</b>	<b>DARNERS</b>		
<i>Aeshna interrupta</i> (Walker) ¶	Variable Darner	June – Oct.	Sept. 6, 2005
<b>Family: GOMPHIDAE</b>	<b>CLUBTAILS</b>		
<i>Hagenius brevistylus</i> Selys ¶	Dragonhunter	June – Oct.	July 4, 2017
<b>Family: CORDULIIDAE</b>	<b>EMERALDS</b>		
<i>Helocordulia uhleri</i> (Selys) *	Uhler's Sundragon	May – July	June 24, 2019

<b>Family: LIBELLULIDAE</b>	<b>SKIMMERS</b>		
<i>Libellula quadrimaculata</i> L. ¶	Four-spotted Skimmer	May – Aug.	June 15, 2017
<i>Sympetrum obtrusum</i> (Hagen) ¶	White-faced Meadowhawk	June – Oct.	

### Order: LEPIDOPTERA (Butterflies & Moths)

The scientific nomenclature and taxonomic order follow Check List of the Lepidoptera of America North of Mexico (Hodges, *et al.*, 1983), with the distinctive Hodges number given in the last column of the table below. However, in the case of a few moths, nomenclature follows Handfield's Papillons du Québec (1999). Common names of butterflies are after The Butterflies of Canada (Layberry, Hall & Lafontaine, 1998), while moth common names (when available) follow A Field Guide to the Moths of Eastern North America (Covell Jr., 1984) and the Peterson Field Guide to Moths of Northeastern North America (Beadle & Leckie, 2012).

The host plants named in column 3 are the main vascular plant genera or species mentioned in the literature, although many other secondary species have also been recorded in some cases.

Scientific Name	Common Name	Host Plant(s) and/or Notes	Date	Hodges No.
	<b>BUTTERFLIES</b>			
<b>Family: PAPILIONIDAE</b>	<b>SWALLOWTAILS</b>			
<i>Papilio canadensis</i> Rothschild & Jordan ¶	Canadian Tiger Swallowtail	Birch, Poplar, Willow, Choke Cherry, Ash	July 20, 2016	4176, 1
<b>Family: PIERIDAE</b>	<b>WHITES and SULPHURS</b>			
<i>Pieris rapae</i> (L.) ¶	Cabbage White	Mustards; captured by Flower Crab Spider	Aug. 23, 2016	4197
<b>Family: NYMPHALIDAE</b>	<b>BRUSH-FOOTED BUTTERFLIES</b>			

<i>Megisto cymela cymela</i> (Cramer) ¶	Little Wood-Satyr	Grasses	July 4, 2016	4578
	<b>MOTHS</b>			
<b>Family: ELACHISTIDAE</b>	<b>GRASS MINER MOTHS</b>			
<i>Psilocorsis reflexella</i> Clem. *£	Dotted Leaf-tier	Birch, Oak, Maple, Poplar	July 13, 2017	0957
<b>Family: GELECHIIDAE</b>	<b>TWIRLER MOTHS</b>			
<i>Coleotechnites</i> cf. <i>quercivorella</i> (Chambers) ¶	Oak Twirler Moth	Red Oak	June 22, 2018	1828
<b>Family CHOREUTIDAE</b>	<b>METALMARK MOTHS</b>			
<i>Choreutis diana</i> (Hbn.) ¶	Diana's Metalmark Moth	Alder, Birch, Poplar, Willow	Sept. 5, 2017	2651
<b>Family: TORTRICIDAE</b>	<b>ARCHIPS LEAFROLLERS</b>			
<b>Subfamily: OLETHREUTINAE</b>	<b>OLETHREUTINE MOTHS</b>			
<i>Epinotia transmissana</i> (Walker) ¶£	Walker's Epinotia	Willow	July 13, 2017	3310
<b>Subfamily: TORTRICINAE</b>	<b>TORTRIX LEAFROLLERS</b>			
<i>Acleris semipurpurana</i> (Kearfott) ¶£	Oak Leaf-tier or Leafshredder	Red Oak	June 22- 23, 2018	3503
<i>Choristoneura fractivittana</i> (Clemens) ¶£	Broken-banded Leafroller	Apple, Birch, Raspberry	July 13, 2017	3632
<i>Choristoneura rosaceana</i> (Harr.) *£	Oblique-banded Leafroller	White Pine, Blueberry	July 13, 2017	3635
<i>Choristoneura fumiferana</i> (Clemens) ¶£	Spruce Budworm	Spruce, Balsam Fir	July 13, 2017	3638
<i>Clepsis persicana</i> (Fitch) ¶£	White-triangle Clepsid	Birch, Spruce	July 13, 2017	3682

<i>Cenopsis pettitana</i> (Robinson) ¶	Maple-Basswood Leafroller	Maple, Apple	July 3, 2020	3725
<b>Family: HESPERIIDAE</b>	<b>SKIPPERS</b>			
<i>Erynnis icelus</i> (Scudder & Burgess)	Dreamy Duskywing	Willow, Birch, Poplar	June 24, 2019	3945
<b>Family: LIMACODIDAE</b>	<b>SLUG MOTHS</b>			
<i>Lithacodes fasciola</i> (H.-S.) ¶£	Yellow-shouldered Slug Moth	Deciduous trees, shrubs	July 13, 2017	4665
<b>Family: CRAMBIDAE</b>	<b>CRAMBID MOTHS</b>			
<i>Scoparia biplagiata</i> Walker ¶	Double-striped Scoparia	Mosses	June 22, 2018	4716
<b>Subfamily: PYRAUSTINAE</b>	<b>PYRAUSTINE MOTHS</b>			
<i>Lygropia rivulalis</i> Hampson ¶	Bog Lygropia	Unknown	July 16, 2019	5250
<b>Subfamily: CRAMBINAE</b>	<b>GRASS-VENEERS</b>			
<i>Crambus praelectellus</i> (Zincken)	Common Grass-Veneer	Grasses	July 13, 2017	5355
<i>Crambus saltuellus</i> Zell. ¶£	Pasture Grass-Veneer	Grasses	July 13, 2017	5363
<i>Chrysoteuchia topiarius</i> (Zell.) ¶	Cranberry Girdler	Cranberry, Blueberry	July 4, 2016	5391
<b>Family: PTEROPHORIDAE</b>	<b>PLUME MOTHS</b>			
<i>Gillmeria pallidactyla</i> (Haworth) ¶£	Yarrow Plume Moth	Yarrow, Tansy?	July 13, 2017	6107
<b>Family: DEPRANIDAE</b>	<b>THYATIRIDS &amp; HOOKTIPS</b>			
<i>Pseudothyatira cymatophoroides</i> (Gn.) *£	Tufted Thyatirid	Birch, Alder, Poplar, Maple	July 13, 2017	6237

<b>Family: GEOMETRIDAE</b>	<b>GEOMETER MOTHS</b>			
<b>Subfamily: ENNOMINAE</b>	<b>TYPICAL GEOMETERS</b>			
<i>Speranza pustularia</i> (Gn.) ¶£	Lesser Maple Spanworm	Maple, Birch, Poplar	Aug. 31, 2017	6273
<i>Speranza brunneata</i> (Thunb.) *¶	Rannoch Looper	Poplar, Birch, Blueberry	July 4, 2016	6286
<i>Macaria</i> prob. <i>aemulataria</i> Wlk., or poss. <i>notata</i> (L.) ¶£	Common Angle, or possibly Birch Angle	Maple, Birch, Poplar, Alder	July 13, 2017	6326, 6330
<i>Macaria signaria</i> (Hübner) ¶£	Pale-marked Angle	most conifers	July 13, 2017	6344
<i>Iridopsis ephyraria</i> (Wlk.) ¶£	Pale-winged Gray	Balsam Fir, Maple, Ash	July 13, 2017	6583
<i>Protoarmia porcelaria indicataria</i> (Wlk.) ¶£	Porcelain Gray	Balsam Fir, other Conifers	July 13, 2017	6598a
<i>Eufidonia discospilata</i> (Wlk.) ¶£	Sharp-lined Powder Moth	Blueberry, Choke Cherry	July 13, 2017	6639
<i>Lomographa vestaliata</i> (Gn.) ¶	White Spring Moth	Choke Cherry, Snowberry	June 22, 2018	6667
<i>Cabera variolaria</i> Gn. *£	Pink-striped Willow Spanworm	Willow, Poplar	July 14, 2017	6678
<i>Euchlaena muzaria</i> (Wlk.) ¶£*	Muzaria Euchlaena	Choke Cherry	July 13, 2017	6725
<i>Euchlaena marginaria</i> (Minot) *£	Margined Euchlaena	Willow, Spiraea, Dogwood	July 13, 2018	6734
<i>Xanthotype sospeta</i> (Drury) *£	Crocus Geometer	Spiraea, Cherry, Willow	July 13, 2017	6743
<i>Campaea perlata</i> (Gn.) ¶£	Pale Beauty	Poplar, Willow, Birch	Aug. 13, 2017	6796
<i>Ennomos magnaria</i> Gn.	Maple Spanworm	Caterpillar ¶; Maple, other deciduous spp.	June 22-23, 2018	6797
<i>Lambdina fiscellaria</i> (Gn.) ¶£	Hemlock Looper	Hemlock, Fir, Spruce	Aug. 30, 2017	6888
<i>Nepytia canosaria</i> (Wlk.) ¶£	False Hemlock Looper	Hemlock, Fir, Spruce	Aug. 30, 2017	6906
<i>Cyclophora pendulinaria</i> (Gn.) ¶£	Sweetfern Geometer	Sweetfern, White Birch	Aug 31, 2017	7139
<b>Subfamily: STERRHINAE</b>	<b>WAVES</b>			
<i>Scopula limboundata</i> (Haw.) ¶	Large Lace-border	Bedstraw, Cherry, Blueberry, Apple	July 3, 2020	7159

<i>Scopula inductata</i> (Gn.) ¶	Soft-lined Wave	Dandelion, Sweet Clover	July 13, 2017	7169
<b>Subfamily: LARENTIINAE</b>	<b>CARPETS &amp; PUGS</b>			
<i>Dysstroma citrata</i> (L.) ¶£	Dark Marbled Carpet	Alder, Willow	Aug. 30, 2017	7182
<i>Spargania magnoliata</i> Gn. ¶£	Double-banded Carpet	Willowherb, E. Primrose	Aug. 31, 2017	7312
<i>Xanthorhoe abrasaria</i> (H.-S.) ¶£	Abrasive Carpet	Bedstraw spp.	July 13, 2017	7370
<i>Hydrelia condensata</i> (Wlk.) ¶£	Condensed Carpet	Red Oak	June 22- 23, 2018	7420
<i>Pasiphila rectangulata</i> (L.) ¶£	Green Pug	Cherry, Rosa spp.	July 13, 2017	7625
<b>Family: SATURNIIDAE</b>	<b>GIANT SILKWORM MOTHS</b>			
<i>Antheraea polyphemus</i> (Cram.) ¶	Polyphemus Moth	found dead by wharf	June 28, 2017	7757
<i>Actias luna</i> (L.) ¶	Luna Moth	found dead on shoreline rocks	July 5, 2017	7758
<b>Family: SPHINGIDAE</b>	<b>SPHINX MOTHS</b>			
<i>Paonias excaecata</i> (J.E. Smith) ¶*£	Blinded Sphinx	many deciduous spp.	July 14, 2017	7824
<i>Paonias myops</i> (J.E. Smith) *£	Small-eyed Sphinx	Cherry spp., Serviceberry	July 13, 2017	7825
<b>Family: EREBIDAE</b>				
<b>Subfamily: ARCTIINAE</b>	<b>TIGER &amp; TUSOCK MOTHS</b>			
<i>Hypoprepia fucosa tricolor</i> (Fitch) *£	Painted Lichen Moth	tree lichens, mosses	July 13, 2017	93- 0205b
<i>Grammia virgo</i> (L.) *£	Virgin Tiger Moth	clover, plantain, Lamb's Quarters	July 13, 2017	93- 0244
<i>Estigmene acrea</i> (Drury) *£	Salt Marsh Moth	herbaceous plants	July 13, 2017	93- 0317
<i>Lophocampa maculata</i> Harr. ¶	Spotted Tussock Moth	deciduous trees / photo of caterpillar	Sept. 11, 2018	93- 0373



<i>Ctenucha virginica</i> (Esper) *£	Virginia Ctenucha	Grasses, Iris, Sedges	July 14, 2017	93-0435
<b>Subfamily: HERMENIINAE</b>	<b>LITTER MOTHS</b>			
<i>Zanclognatha lituralis</i> auct., not Hbn. ¶£	Lettered Fan-foot or Zanclognatha	dead leaves	July 13, 2017	93-0489, 1
<i>Chytolita morbidalis</i> (Gn.) ¶£	Morbid Owlet	dead leaves	June 22-23, 2018	93-0502
<b>Subfamily: EREBINAE</b>	<b>UNDERWINGS &amp; OWLETS</b>			
<i>Catocala unijuga</i> Wlk. ¶	Once-married Unerwing	Poplar, Willow	Aug. 14, 2020	93-0797
<i>Catocala concumbens</i> Wlk. *¶	Pink or Sleepy Underwing	came to sugar	Aug. 30, 2017	93-0814
<i>Euclidia cuspidea</i> (Hbn.) ¶	Toothed Somberwing	Clover	July 4, 2017	93-0929
<b>Family: NOCTUIDAE</b>	<b>NOCTUID MOTHS</b>			
<i>Panthea furcilla</i> (Pack.) ¶£	Eastern Panthea	Pine, Spruce, Tamarack	July, 13, 2017	93-1396
<i>Panthea acronyctoides</i> (Wlk.) ¶£	Black Zigzag	Pine, Spruce, Hemlock	July 13, 2017	93-1398
<i>Acronicta dactylina</i> Grt. *£	Fingered Dagger Moth	Birch, Alder	July 14, 2017	93-1424
<i>Acronicta impleta</i> Wlk. ¶ <sup>w</sup>	Yellow-haired Dagger	deciduous trees & shrubs	June 22-23, 2018	93-1474
<i>Cucullia convexipennis</i> G. & R.	Brown Hooded Owlet	Caterpillar ¶ on Goldenrod	Sept. 19, 2017	93-1513
<i>Leuconycta lepidula</i> (Grt.) ¶£	Marbled-green Leuconycta	Dock, Dandelion	July 13, 2017	93-2027
<i>Sunira bicolorago</i> (Gn.) ¶	Bicolored Sallow	Maple, Elm, Cherry	Sept. 11, 2020	93-2616
<i>Eurois occulta</i> (L.) *£	Great Brocade	Tamarack, Poplar, Alder	July 13, 2017	93-3560
<i>Graphiphora augur</i> (F.) *£	Double Dart Moth	White Birch, Willow	July 13, 2017	93-3563
<i>Anaplectoides prasina</i> (D. & S.) *£	Green Arches	Blueberry, Hazel, Maple	July 13, 2017	93-3564
<i>Aplectoides condita</i> (Gn.) *£	Quivering Dart Moth	Balsam Fir, Tamarack	July 13, 2017	93-3567

<i>Xestia badicollis</i> Grote ¶£	Northern Variable Dart	White Pine, Fir, Spruce	Aug. 31, 2017	93- 3584
<i>Xestia c-nigrum</i> (L.) ¶£	Setaceous Hebrew Character	herbaceous spp., grasses	July 13, 2017	93- 3588

## Order: COLEOPTERA (Beetles)

Taxonomic order, nomenclature, and common names follow Beetles of Eastern North America (Evans, 2014).

Scientific Name	Common Name	Notes	Date
<b>Family: CARABIDAE</b>	<b>GROUND and TIGER BEETLES</b>		
<i>Carabus nemoralis</i> Müller ¶	Woodland Worm and Slug Hunter	on bark at sugar; Wilson's Point	June 22-23, 2018
<i>Cicindela</i> sp.	Tiger Beetle	running over sand dune	Aug. 26, 2016
<i>Platynus tenuicollis</i> (LeConte) ¶£	Shiny Black Ground Beetle	on bark at sugar; Wilson's Point	June 22-23, 2018
<b>Family: LEIODIDAE</b>	<b>ROUND FUNGUS BEETLES</b>		
<i>Leiodes</i> sp. *£		feeds on fungi in forest litter	July 13-14, 2017
<b>Family: SILPHIDAE</b>	<b>BURYING and CARRION BEETLES</b>		
<i>Nicrophorus orbicollis</i> (Say) *£	Burying Beetle		July 14, 2017
<i>Nicrophorus tomentosus</i> Weber ¶	Tomentose Carrion Beetle	carrying mites on wing covers	Aug. 29, 2016
<b>Family: SCARABAEIDAE</b>	<b>SCARAB BEETLES</b>		
<i>Serica</i> sp. ¶£	none found	east end of Island	July 13, 2017
<i>Phyllophaga anxia</i> (LeConte) ¶£	May Beetle or June Bug	Wilson's Point; common	June 22-23, 2018

<b>Family: ELATERIDAE</b>	<b>CLICK BEETLES</b>		
<i>Selatosomus pulcher</i> (LeConte) ¶	none found	on bark at sugar; Wilson's Point	June 22-23, 2018
<b>Family: LAMPYRIDAE</b>	<b>FIREFLIES and LIGHTNINGBUGS</b>		
<i>Ellychnia corrusca</i> (L.) ¶	Winter Firefly	on bark at sugar; Wilson's Point	June 22-23, 2018
<b>Family: CERAMBYCIDAE</b>	<b>LONGHORN BEETLES</b>		
<i>Evodinus monticola</i> (Randall) ¶	none found	Pair copulating on Viburnum flowers	June 22, 2018
<i>Strangalepta abbreviata</i> (Germar) ¶	none found	resting on <i>Rubus</i> leaf, larvae feed on wood of decaying conifer and deciduous trees	July 4, 2017
<i>Monochamus notatus</i> (Drury) *£	Northeastern Borer	under White Pine	July 14, 2017
<i>Monochamus scutellatus</i> (Say) ¶	White-spotted Sawyer	White Pine forest	Sept. 16, 2017
<b>Family: CHRYSOMELIDAE</b>	<b>LEAF and SEED BEETLES</b>		
<i>Calligrapha alni</i> Schaeffer ¶	Russet Alder Leaf Beetle	on Alder	May 17, 2017
<i>Chrysochus auratus</i> (Fabricius) ¶	Dogbane Beetle	on Dogbane	2014
<b>Family: CURCULIONIDAE</b>	<b>WEEVILS, SNOUT &amp; BARK BEETLES</b>		
<i>Cryptorhynchus lapathi</i> (L.) ¶	Poplar and Willow Borer	Poplar, Willow, Birch	June 22, 2018

**Order: HYMENOPTERA (Bees, Ants, Wasps, and Horntails)**

Taxonomy and nomenclature for the ants follow “A Field Guide to the Ants of New England” (Ellison et al., 2012).

Scientific Name	Common Name	Notes	Date
<b>Family: ICHNEUMONIDAE</b>	<b>ICHNEUMON WASPS</b>		
<i>Pimpla pedalis</i> Cresson ¶	Orange-legged Wasp	♀; sugaring at Wilson's Pt.	June 22-23, 2018
<b>Family: PELECINIDAE</b>	<b>PELECINID WASPS</b>		
<i>Pelecinus polyturator</i> Drury ¶	American Peleciniid	female	Aug., 2014
<b>Family: VESPIDAE</b>	<b>VESPID WASPS</b>		
<i>Vespula maculifrons</i> (Buysson) ¶	Eastern Yellowjacket	at ground nest	Aug. 9, 2015
<b>Family: FORMICIDAE</b>	<b>ANTS</b>		
<i>Formica subsericea</i> Say ¶	The Somewhat Silky Ant	0.5m D x 15cm mound nest, in clearing by trail	July 16, 2019
<b>Family: APIDAE</b>			
<i>Apis mellifera</i> L. ¶	European Honey Bee	in exposed cavity of broken tree trunk	2017

**Order: DIPTERA (Flies, Mosquitoes, Gnats, and Midges)**

Scientific Name	Common Name	Notes	Date
<b>Family: TIPULIDAE</b>	<b>CRANE FLIES</b>		
<i>Cladura flavoferruginea</i> Osten Sacken ¶£	Autumn Crane Fly	conifer forest at E end of island	Sept. 21-22, 2018

<b>Family: PTYCHOPTERIDAE</b>	<b>PHANTOM CRANE FLIES</b>		
<i>Bittacomorpha clavipes</i> Fab. ¶	Phantom Crane Fly	flying near wharf	June 22, 2017
<b>Family: CULICIDAE</b>	<b>MOSQUITOES</b>		
<i>Ochlerotatus canadensis</i> (Theobald) Reinert ¶£	Woodland Pool Mosquito	adults later than other species	July 13, 2017
<b>Family: SIMULIIDAE</b>	<b>BLACK FLIES</b>		
<i>Simulium</i> sp. ♀	Black Fly	bitten at east end of Island	July 12, 2018
<b>Family: MYCETOPHILIDAE</b>	<b>FUNGUS GNATS</b>		
sp. ¶£		conifer forest at E end of island	Sept. 21-22, 2018
<b>Family: ASILIDAE</b>	<b>ROBBER FLIES</b>		
<i>Laphria posticata</i> Say ¶	Bumblebee Robber Fly	White Pine area	July 12, 2018
<b>Family: EMPIDIDAE</b>	<b>DANCE FLIES</b>		
<i>Hilaria</i> sp. ¶£	Balloon Fly	east end of Island	July 13, 2017

**Class: ARACHNIDA (Spiders, Harvestmen, Mites, and Ticks)**

The nomenclature and taxonomic order for mites follow How To Know Mites and Ticks (McDaniel, 1979), and for spiders, How to Know the Spiders, 2<sup>nd</sup>. ed. (Kaston, 1972).

Scientific Name	Common Name	Notes	Date
<b>Family: ARANEIDAE</b>	<b>ORB WEAVERS</b>		
<i>Araneus nordmanni</i> (Thorell) ¶	Nordman's Orbweaver	White Pine area at east end of Island	Sept. 21, 2018
<i>Larinioides cornutus</i> (Clerck) ¶	Furrow Orbweaver	at Wilson's Point	June 22-23, 2018
<b>Family: PISURIDAE</b>	<b>NURSERY-WEB SPIDERS</b>		
<i>Dolomedes tenebrosus</i> Hentz ¶	Fishing Spider	came to sugar on White Birch at Wilson's Point	June 22-23, 2018
<b>Family: THOMISIDAE</b>	<b>CRAB SPIDERS</b>		
<i>Misumena vatia</i> (Clerck) ¶	Flower Crab Spider	On Purple Loosestrife with captured Cabbage White Butterfly	23/08/2016
<b>Subclass: ACARI</b>	<b>MITES</b>		
<b>Order: PROSTIGMATA</b>			
<b>Suborder: MESOSTIGMATA</b>	<b>PERITREME MITES</b>		
<b>Family: MACROCHELIDAE</b>	<b>PARASITIC MITES</b>		
<i>Macrocheles</i> sp. (probably <i>M. willowae</i> sp. n.)		many attached to wing covers of Tomentose Carrion Beetle	29/08/2016
<b>Family: ERIOPHYIDAE</b>	<b>GALL MITES</b>		

<i>Eriophyes padi</i> Nal.	Wild Cherry Pouch Gall	Choke Cherry leaf ¶	6/16/2016

**Class: DIPLOPODA (Millipedes)**

Nomenclature follows the Checklist of the Millipeds of North America (Chamberlin & Hoffman, 1958)

**Family: JULIDAE**

*Diploiulus* sp. (probably *caeruleocinctus* (Wood) \*¶

Collected Oct. 13, 2017 from the porous underside of the polypore fungus *Abortiporus biennis* on which it was feeding.

**Class: CRUSTACEA**

**Subclass: MALACOSTRACA (Sowbugs)**

**Order: ISOPODA**

**Family: ONISCIDAE (Sowbugs or Woodlouse)**

*Oniscus* sp.