

ICHNEUMONIDAE OF THE HURON MOUNTAINS AREA

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On two occasions I was the guest of the Huron Mountain Wildlife Foundation, while collecting ichneumon flies (parasitic Hymenoptera) in the Huron Mountains area of Michigan. I was in the area from July 19 to 31, 1959 and from June 26 to 30, 1960. About four thousand specimens were collected. Due to the primitive status of knowledge about these insects, identification of the specimens has proceeded very slowly, but it seems time now to give a report on the studies completed to date.

Below are lists of the collections of certain subfamilies. These comprise about 30% of the family (the best known part). Specimens of the tribes Hemigasterini and Mesostenini have been used in two monographic studies recently published, and in these groups 15 new species were described from Huron Mountains material. The new species are marked in the lists with an asterisk. In the case of 5 of these the holotype is from the Huron Mountains. Another monograph, on the subfamily Banchinae, is in preparation and here again the Huron Mountains collections will be used in the descriptions of new species.

During my stay collections were made at random over most of the Huron Mountains area, but concentrating in the meadows and woods along the Salmon Trout River and around the edges of Cranberry Marsh. Several days were spent on the Yellow Dog Plains and one day at Ives Lakes. Noteworthy features about the collections were a number of range extensions of around a thousand miles, recapture of some species found only once previously, and the finding of considerable tendency in this area for eastern subspecies to be intermediate to, or mingled with, western subspecies.

Mature dead tree trunks is a type of habitat common in the Huron Mountains but seldom found elsewhere. The ichneumonids associated with this now scarce type of habitat, usually as parasites of borers in dead wood, were present in great variety and abundance.

The opportunity to study ichneumonids in this interesting area, and under pleasant circumstances, is very much appreciated.

Subfamily Ephialtinae

Tribe Pimplini

- Scambus canadensis Wly. 5♀, June 26-July 29. East edge of Cranberry Marsh and Yellow Dog Plains.
- Scambus decorus Wly. June 26-28. Yellow Dog Plains. Common.
- Scambus granulatus Wly. ♀, June 27. Salmon Trout River.
- Scambus hispae Harris. June 29-July 30. Common.
- Scambus productus Wly. ♀, July 27. Cedar swamp at head of Mountain Lake.
- Scambus pterophori Ash. ♀, June 28. Yellow Dog Plains.
- Scambus tecumseh Vier. June 28-July 30. Common.
- Scambus vesicarius euurae Ash. ♀, July 24. Ives Lake, around willows.
- Apistephialtes tenuiventris Hgn. ♀, June 27. Yellow Dog Plains.
- Pimpla macra Cr. ♂, June 28. South edge of Cranberry Marsh.
- Dolichomitus imperator Kriech. ♂, 4♀, June 26-29. Yellow Dog Plains, and south edge of Cranberry Marsh.
- Dolichomitus irritator F. June 27-July 30. Common in hardwood forests.
- Dolichomitus messor perlongus Cr. ♀, June 26. Yellow Dog Plains.
- Dolichomitus pterelas Say. ♀, June 26. Yellow Dog Plains.
- Dolichomitus pygmaeus Walsh. ♂, 1♀, June 26 and 29. Huron Mts. and Yellow Dog Plains.
- Dolichomitus tuberculatus tuberculatus Fourc. ♂, ♀, June 28. Yellow Dog Plains.
- Dolichomitus n. sp. ♀, June 30. Huron Mts.
- Acropimpla alboricta Cr. ♀, June 28-July 31. Common in deciduous woods.
- Iseropus stercorator orgyiae Ash. June 27-July 31. Common in woods.
- Tromatobia ovivora ovivora Boh. June 29-July 31. Common in woods.
- Zaglyptus varipes incompletus Cr. June 27-July 31. Common among tall coarse grasses in damp places.
- Clistopyga canadensis Prov. ♀, July 24. Ives Lake.
- Perithous mediator pleuralis Cr. June 28-July 31. Common.

Tribe Polysphinctini

- Dreisbachia slossonae Ds. June 27-July 30. Common in moist woods.
- Schizopyga frigida Cr. ♀, June 28. South side of Cranberry Marsh.
- Acrodactyla degener Haliday. ♂, June 29.
- Acrodactyla ocellata Tow. 2♀, June 29 and 30. *Huron Mts.*
- Acrodactyla quadrisculpta Grav. June 29-July 25. Yellow Dog Plains and edge of Cranberry Marsh. In damp spots near water.
- Oxyrrhexis carbonator texana Cr. June 29 and 30. Rush Creek.
- Polysphincta burgessii Cr. ♀, June 27. Edge of Cranberry Marsh.
- Sinarchna anomala Hgn. June 28-July 30. Salmon Trout River and Yellow Dog Plains.
- Sinarchna pallipes strégis How. ♀, July 30. Salmon Trout River.
- Zatypota exilis Tow. ♀, June 29. East edge of Mountain Lake.
- Zatypota nigriceps Walsh. June 28-July 28. Moderately common at Huron Mts. and Yellow Dog Plains.
- Zatypota walleyi Tow. ♀, July 28. Yellow Dog Plains.

Tribe Ephialtini

Itoplectis conquisitor Say. June 20-July 30. Common among shrubs in sunlit places.

Itoplectis curticauda brevacus Tow. ♂, 5♀, June 27-July 24. Salmon Trout River. Among taller grasses of meadows, flying 18 to 24 inches from the ground.

Itoplectis quadricingulatus Prov. ♀, June 26. Yellow Dog Plains.

Ephialtes picticornis Cr. ♀, June 29. Either Rush Creek or south side of Cranberry Marsh (not stated in notes).

Coccygomimus aquilonius aquilonius Cr. June 26-July 31. Common in woods.

Coccygomimus pedalis Cr. June 26-July 31. Common, both in woods and in meadows.

Coccygomimus stricklandi Tow. 2♀, June 26 and 28. Yellow Dog Plains.

Coccygomimus tenuicornis Cr. June 26-July 31. Very common in meadows, bogs, and other types of sunlit habitats.

Tribe Theroniini

Delomerista diprionis Cush. ♀, July 21. Yellow Dog Plains.

Delomerista novita Cr. 5♂, June 26-29; 2♀, July 24-30. Salmon Trout River, Rush Creek, and Yellow Dog Plains.

Delomerista sp. ♀, July 24. Ives Lake.

Theronia hilaris Say. ♂, June 29. Huron Mts.

Tribe Poemeniini

Poemenia albipes Cr. June 27-July 20. Salmon Trout River and Yellow Dog Plains.

Tribe Rhyssini

Rhyssa crevieri Prov. ♂, June 27. South side of Cranberry Marsh.

Rhyssa lineolata Kby. 2♀, June 29 and July 27. East side of Mountain Lake and Cedar Swamp at head of Mountain Lake.

Rhyssa persuasoria L. 2♀, June 27 and 29. Salmon Trout River and east side of Mountain Lake.

Rhyssella nitida Cr. June 27 to July 30. Common in deciduous woods.

Megarhyssa atrata lineata Porter. June 27 and 30. Salmon Trout River and Pine River Point. In deciduous woods.

Megarhyssa greenei greenei Vier. June 27 to July 30. Salmon Trout River. In deciduous woods.

Megarhyssa macrurus lunator F. June 27 to July 30. Common in deciduous woods.

Subfamily Xoridinae

Odontocolon atripes Roh. June 30-July 27. Cedar Swamp at head of Mountain Lake and cabin area of Huron Mt. Club. Associated with pine woods.

Odontocolon canadense Prov. 3♂, 1♀, June 27-July 30. South edge of Cranberry Marsh and Salmon Trout River.

Odontocolon dreisbachi Tow. 4♂, 1♀, June 28-July 30. East and south

edges of Cranberry Marsh, and lower Salmon Trout River. Associated with mature hemlocks. This species was known previously from 2♀ collected on Isle Royale, Michigan in 1937.

Odontocolon ochropus Tow. July 19-30. Common in hardwood forests.

Odontocolon strangaliae Roh. Late June-late July. Moderately common in deciduous woods.

Odontocolon vicinum Cr. June 21-July 29. Common in damp hardwood forests.

Xorides stigmapterus stigmapterus Say. June 26-July 25. Yellow Dog Plains, Ives Lake, and near Cranberry Marsh.

Subfamily Tryphoninae

Tribe Phytodietini

Phytodietus sp. Common late June to late July.

Netelia barberi Cush. June 28-July 30. Common in dense vegetation.

Netelia chloris Oliv. ♂, June 27. Huron Mts.

Netelia deceptor Morl. June 26-July 27. Moderately common.

Netelia latungulus Thom. June 29-late July. Damp woods.

Netelia rogersi Tow. ♂, June 29. Huron Mts.

Netelia sayi Cush. July 19-30. Common.

Netelia tarsata Brischke. June 27 and 29. Yellow Dog Plains, Rush Creek, and east edge of Mountain Lake.

Tribe Eclytini

Eclytus sp. ♂, June 29. East edge of Mountain Lake.

Neliopisthus densatus Say. ♂, ♀, June 27 and July 19. Huron Mts.

Neliopisthus piceae Cush. 2♂, July 27 and 28. Yellow Dog Plains.

Thymaris negligere Davis. ♀, June 29. Huron Mts.

Atopotrophos n. sp. ♀, June 29. Huron Mts.

Tribe Tryphonini

Polyblastus expletus Tow. ♂, July 24. Ives Lake.

Polyblastus galaphilus Tow. ♂, June 29. Huron Mts.

Polyblastus peckae Tow. ♂, June 29. Huron Mts. This species previously known only from Mt. Washington, N. H.

Polyblastus pedalis Cr. June 26-July 31. Common among bushes.

Polyblastus strobilator Thbg. June 27-July 30. Common in wet places with Equisetum.

Polyblastus tibialis Cr. June 27-July 30. Common in wet places with Equisetum.

Polyblastus wahlbergi rubescens. June 29-30. Huron Mts.

Ctenochira picta Tow. 2♂, June 28. South edge of Cranberry Marsh.

Erromenus bedardi Prov. ♀, June 26. Yellow Dog Plains.

Erromenus marginatus Prov. ♂, July 29. East edge of Cranberry Marsh.

Erromenus sp. 2♂, July 28 and 31. Yellow Dog Plains.

Monoblastus dionnei Prov. June 27-29. Common.
Monoblastus macer Tow. 2♂, late July. Ives Lake and Salmon Trout River.
Cosmoconus sp. July 22-30. Salmon Trout River.
Tryphon americanus Cr. ♀, June 27. Edge of Cranberry Marsh.
Tryphon communis communis Cr. June 27-July 30. Locally common in damp grassy places containing Equisetum.
Tryphon humeralis Tow. June 27-30. Huron Mts.
Tryphon viator Tow. June 28-29. Huron Mts.

Tribe Cteniscini

Cteniscus n. sp. 4♀, July 19-24. Ives Lake and Salmon Trout River.
Eudiaborus eximius Mason. ♀, July 21. Yellow Dog Plains. This species was known previously only from Farmingdale, N. Y.
Eudiaborus n. sp. ♀, July 25. East edge of Cranberry Marsh.
Smicroplectrus velox Walley. 2♀, July 28-31. Yellow Dog Plains.
Exyston variatus Prov. Late July. Moderately common around edges of Cranberry Marsh.
Exyston n. sp. 2♂, 2♀, July 21-31. Yellow Dog Plains.

Subfamily Gelinae

Tribe Hemigasterini

Parmortha circumcincta circumcincta Prov. 2♂, June 29. Huron Mts.
Cubocephalus alacris alacris Cr. ♂, June 28. South edge of Cranberry Marsh.
Cubocephalus alacris erythropygus Prov. ♀, June 27. Huron Mts.
*Cubocephalus annectus Tow. ♂, July 26. Salmon Trout River.
*Cubocephalus atriclunis Tow. & Gupta. 2♂, June 27 and 29. Huron Mts.
Cubocephalus brevicornis Tasch. ♂, June 29. Huron Mts.
Cubocephalus cincticornis Cr. ♂, June 28. Yellow Dog Plains.
Cubocephalus denticulatus denticulatus Tow. ♂, June 27. Huron Mts.
*Cubocephalus dreisbachi Tow. ♀, July 20. Salmon Trout River.
*Cubocephalus euryops Tow. ♂, July 24. Ives Lake (holotype).
Cubocephalus inhabilis inhabilis Prov. ♂, July 8, 1921, T. H. Hubbell. Huron Mts.
Cubocephalus maurus Cr. June 27 and 28. South edge of Cranberry Marsh.
*Cubocephalus micans Tow. ♂, June 30. Huron Mts.
Cubocephalus nitidus nitidus Prov. July 20 and 22. Salmon Trout River.
Cubocephalus pallidus spissicornis Prov. June 29 and 30. Huron Mts.
*Cubocephalus prolixus prolixus Tow. June 28 and 29. South edge of Cranberry Marsh (holotype) and Yellow Dog Plains.
Cubocephalus schmuckii D. T. July 20-29. Salmon Trout River.
Opidnus albicoxus albicoxus Prov. ♂, June 29. Huron Mts.
Opidnus tegularis Prov. June 28 and 30. Huron Mts.
*Opidnus vultuosus Tow. 6♂, June 28 and 30. South edge of Cranberry Marsh. Holotype and paratypes.
Polytribax contiguus Cr. ♂, July 22. Salmon Trout River.
Polytribax crotchii crotchii Cr. July 20-30. Abundant in sedgy meadows along Salmon Trout River.

- Schenkia graminicola recta Prov. June 26-29. Moderately common.
Schenkia iridescens iridescens Cr. 2♂, June 27. Yellow Dog Plains.
 *Schenkia iridescens oreas Tow. & Gupta. ♂, ♀, June 26 and 27. Yellow Dog Plains.
Megaplectes monticola blakei Cr. ♂, July 26. Salmon Trout River.
 *Pleolophus astrictus Tow. ♀, July 21. Yellow Dog Plains.
Pleolophus indistinctus Prov. June 26 and 27. Yellow Dog Plains.
 *Rhembobius parvus Tow. ♂, June 28. South edge of Cranberry Marsh.

Tribe Mesostenini

- Agrothereutes abbreviator similis Prov. June 26-July 21. Yellow Dog Plains.
Agrothereutes mandator americanus Tow. 2♂, June 28 and 29. Yellow Dog Plains and Huron Mts.
Gamburus polyphemi Tow. 2♂, July 26. Salmon Trout River.
Aritranis imitator imitator Prov. June 26-28. Yellow Dog Plains. Common.
Aritranis notata notata Prov. ♀, June 27. Yellow Dog Plains.
Pycnocryptus director Thbg. June 26 to July 31. Common.
Ischnus cinctipes Walsh. 2♂, July 26 and 27. Salmon Trout River and Cedar swamp at head of Mountain Lake.
Ischnus inquisitorius Müller. June 27-July 30. Moderately common. Specimens from the Huron Mountain area represent the subspecies atricollaris and pectoralis, plus intermediates.
Ischnus latus latus Prov. June 28 to July 28. Huron Mts. and Yellow Dog Plains. Moderately common under mature hemlocks. (Tow) specimens were intermediate to the subspecies pinguis.
 *Ischnus minor Tow. June 26 to July 31. Very common in deciduous woods.
Trachysphyrus albitarsis albitarsis Cr. June 28-July 31. Yellow Dog Plains.
Trachysphyrus laborator altonii D.T. 2♀, June 28 and July 31. Yellow Dog Plains.
Hidryta frater Cr. July 20-26. Salmon Trout River. In damp meadows of coarse grass.
Idiolispa analis analis Grav. ♂, ♀, June 27 and 28. Yellow Dog Plains and south edge of Cranberry Marsh.
Idiolispa analis limata Cr. ♂, June 29. Huron Mts.
 *Trychosis anagmus Tow. ♀, July 20 (holotype). Salmon Trout River.
 *Trychosis kathrynae Tow. ♂, July 29. East edge of Cranberry marsh.
 *Trychosis latidens Tow. 2♀, July 28. Yellow Dog Plains.
 *Trychosis cyperia Tow. July 19-30. Common in damp sedgy meadows. Holotype and paratypes.
Trychosis montivaga montivaga Prov. ♂, ♀, June 29 and 30. Pine River Point and Rush Creek.
Trychosis semirubra semirubra Tow. June 28-30. Common.
 *Listrognathus femorata Tow. June 28-July 29. Alder swamp edging Cranberry Marsh.
Mesostenus thoracicus Cr. June 26-July 31. Common in deciduous woods.
Acroricus stylator aequatus Say. 2♂, July 22 and 24. Salmon Trout River and Ives Lake.
Echthrus abdominalis abdominalis Cr. 4♀, June 28-30. South edge of Cranberry Marsh.
Echthrus niger emaculatus Tow. ♀, June 27. South edge of Cranberry Marsh.

Subfamily Metopiinae

- Chorinaeus emorsus Tow. July 24 and 26. Ives Lake and Salmon Trout River. This species was known previously only from New Hampshire.
- Chorinaeus recurvus Tow. ♂, June 28. Yellow Dog Plains. This species was known previously only from New York and New Hampshire.
- Trieces costatus Ds. July 24 and 29. Ives Lake and Salmon Trout River.
- Trieces sapineus sapineus Tow. June 28-30. Yellow Dog Plains and Huron Mts.
- Metopius edwardsii Cr. ♀, July 27. Cedar swamp at head of Mountain Lake. This species was known previously only from British Columbia.
- Metopius pollinatorius pollinatorius Say. July 25 and 27. North edge of Cranberry Marsh and cedar swamp at head of Mountain Lake.
- Triclistus emarginalus Say. June 26-July 31. Common, especially at Yellow Dog Plains.
- Triclistus pallipes Hgn. Late July. Yellow Dog Plains and Cedar swamp at head of Mountain Lake.
- Spudaeus indigus Ds. June 26-28. Yellow Dog Plains, in black spruce bog.
- Carria dreisbachi dreisbachi Tow. June 26-28. Yellow Dog Plains and south edge of Cranberry Marsh.
- Synosis clepsydra Tow. ♀, June 29. Huron Mts.
- Exochus albifrons Cr. June 27-July 31. Common on Yellow Dog Plains, relatively scarce in Huron Mt. area.
- Exochus decoratus scitulus Prov. June 26-July 31. Common and widespread.
- Exochus mitratus orias Tow. June 28-July 31. Yellow Dog Plains.
- Exochus nigripalpis tectulum Tow. June 26-July 31. Common and widespread.
- Exochus peroniae Tow. June 29 and late July. Rush Creek and Yellow Dog Plains.
- Exochus pictus xanthopsis Ash. June 27-29. South edge of Cranberry Marsh.
- Exochus postfurcalis Tow. June 27-Late July. Common and widespread.
- Exochus semirufus Cr. ♀, June 26. Yellow Dog Plains.
- Exochus washingtonensis Ds. June 26-27. Salmon Trout River.

Subfamily Acaenitinae

- Coleocentrus flavipes Prov. June 28 and 29. Yellow Dog Plains and at south edge of Cranberry Marsh.
- Coleocentrus pettiti Cr. June 29. Among virgin hemlock on east edge of Mountain Lake, flying at a height of 1 to 2 meters. Males commoner than females.
- Coleocentrus rufocoxatus Pratt. June 28 and 29. Flying with C. pettiti (above) on east edge of Mountain Lake and also in a similar situation in virgin hemlock on south edge of Cranberry Marsh. Males commoner than females.
- Coleocentrus rufus Prov. ♂, 2♀, June 28 and 29. In deciduous woods.
- Arotes amoenus Cr. ♀♀, July 20-30. Salmon Trout River, Ives Lake, east edge of Cranberry Marsh. On dead trunks of sugar maple and at honey dew. The specimens from this area are somewhat intermediate to the western species "maurus", indicating that maurus may be only sub-specifically distinct.
- Arotes melleus Say. ♀, July 29. At honeydew on east edge of Cranberry Marsh.
- Spilopteron formosum formosum Cr. 4♀, July 20 and 29. Salmon Trout River and east edge of Cranberry Marsh. One on dead ^{yellow}sugar birch trunk and one

on dead maple trunk infested with Tremex. Others at honeydew.
Spilopteron franclemonti Tow. ♀, July 30. Salmon Trout River, on dead
sugar maple infested with Tremex.
Spilopteron vicinum vicinum Cr. 4♂, 3♀, July 20-29. Salmon Trout River,
Ives Lake, and east edge of Cranberry Marsh. At honeydew and one
female each on dead trunks of hemlock and fir.