

A LIST OF THE CRANE-FLIES OF QUEBEC (DIPTERA.) I

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(Continued from page 236)

Limonia (Dicranomyia) nycteris (Alex.) Gaspé, north shore, July 1-5, 28 (GCC). Known hitherto only from Alberta.

Limonia (Dicranomyia) profunda (Alex.) Gaspé, south shore, June 26, July 1, 28 (GCC).

Limonia (Dicranomyia) pudica (O.S.) Montreal, July (GB); Rigaud, June (GC).

Limonia (Dicranomyia) sphagnicola Alex. Maniwaki, June 25, 25 (CHC); Gaspé, north shore, July 1-5, 28 (GCC).

Limonia (Rhipidia) maculata (Mg.) Chambly Co., Sept. (GB); Rigaud, June (GB); Aylmer, June (JIB), Sept. 28, 24 (CHC); Megantic, July 6, 16.

Limonia (Discobola) argus (Say) Wakefield, July 26 (FPI); St. Hilaire, June 27, 16; Aylmer, Aug. 8, 24 (CHC), Sept. 4, 24 (GSW).

Antocha saxicola O.S. (records confused with *opalizans* O.S.) Montreal, June-Sept. (AFW); Gatineau, July (GB) Coaticook, Sept. (JIB); Lachine, June 16, 25 (FPI); Covey Hill, June 17-21, 24 (GSW).

Helius flavipes (Macq.) Montreal, June-Aug. (GC); Ottawa Golf Club, Aug. 13, 24 (FPI); Coaticook, June (JIB); Hull, July (JIB); Wakefield, July 14, 26 (GSW).

Pediicini

Pedicia albivitta Walk. Quebec, (TWF); Gatineau, July (GB); Aylmer, June (GB).

Tricyphona autumnalis Alex. (as *calcar* O.S. in the W.B. List). Meach Lake, Sept. (TWF); Sept. 2, 03 (J. Fletcher)

Tricyphona calcar (O.S.) Stoke Center, June (AFW); Gaspé, south shore, June 26-July 1, 28 (GCC).

Tricyphona hyperborea (O.S.) Seven Islands, July 18, 24 (FWW).

Tricyphona inconstans (O.S.) Aylmer, June (JIB), Aug. 24, 24 (CHC); Rigaud, July 27; Broadview, May 27, 25 (FPI); Gaspé, both shores, June 26-July 5, 28 (GCC).

Amalopina flaveola (O.S.) Wakefield, June 14, 26 (FPI); Gaspé, south shore, June 26-July 1, 28 (GCC).

Dicranota noveboracensis Alex. Wakefield, June 14, 26 (FPI).

Dicranota iowa Alex. Aylmer, May 10, 25 (CHC).

Rhaphidolabis (Plectromyia) confusa Alex. Gaspé, south shore, June 26-July 1, 28 (GCC).

Rhaphidolabis (Rhaphidolabis) rogersiana Alex. Gaspé, north shore, July 1-5, 28 (GCC). Known hitherto only from Michigan.

Hexatomini

Ula paupera (O.S.) Gaspé, north shore, July 1-5, 28 (GCC).

Epiphragma fascipennis (Say). Montreal, June (GB); Wakefield, June 14, 26 (FPI); Gaspé, both shores, June 26-July 5, 28 (GCC).

Dactylolabis montana (O.S.) Province of Quebec (O.S.); Wakefield, June 14, 26 (FPI).

- Pseudolimnophila contempta* (O.S.) Ottawa Golf Club, Aug. 13, 24 (FPI); Coaticook, Sept. (JIB).
- Pseudolimnophila toxoneura* (O.S.) Megantic, July 6, 16.
- Limnophila (Lasiomastix) macrocera* (Say) Montreal, June (GB).
- Limnophila (Lasiomastix) tenuicornis* O.S. Ottawa Golf Club, June 4, 26 (FPI); Aylmer, June 3, 24 (CHC).
- Limnophila (Phylidorea) adusta* O.S. Province of Quebec (O.S.); Montreal, Sept. (JIB).
- Limnophila (Phylidorea) similis* Alex. Gaspé, south shore, June 26-July 1, 28 (GCC).
- Limnophila (Phylidorea) terrae-novae* Alex. Gaspé, north shore, July 1-5, 28 (GCC).
- Limnophila (Prionolabis) munda* O.S. Montreal, June (GC); Gaspé, north shore, July 1-5, 28 (GCC).
- Limnophila (Prionolabis) rufibasis* O.S. Montreal (GC); St. Johns Co., June (GC); Rigaud, June (GB); Hemmingford, May 24, 25 (GHH); Gaspé, south shore, June 26-July 1, 28 (GCC).
- Limnophila (Dicranophragma) fuscovaria* O.S. Montreal, June (GB); Ottawa Golf Club, Aug. 25, 24 (FPI); Rigaud, June (GC); Covey Hill, June 18, 24 (GSW).
- Limnophila areolata* O.S. Megantic, July 6-7, 16; Gaspé, north shore, July 1-5, 28 (GCC).
- Limnophila brevifurca* O.S. Province of Quebec (O.S.); Broadview, May 27, 25 (FPI).
- Limnophila poetica* O.S. Aylmer, May 29, 24 (CHC).
- Limnophila unica* O.S. Gaspé, north shore, July 1-5, 28 (GCC).
- Pilaria imbecilla* (O.S.) Aylmer, June, July (JIB).
- Pilaria quadrata* (O.S.) Montreal, June (AFW); St. Johns Co., May, June (GC); Gatineau, July (GB); Hull, June (JIB); Gaspé, south shore, June 26-July 1, 28 (GCC).
- Pilaria tenuipes* (Say). Montreal, Aug. (GC).
- Shannonomyia lenta* (O.S.) Aylmer, June 15, 24 (CHC).
- Eriocera spinosa* O.S. Wakefield, July 27, 26 (FPI); Covey Hill, July 21 (CEP).
- Hexatoma megacera* (O.S.) Covey Hill, June 20, 24 (GSW).
- Elephantomyia westwoodi* O.S. Province of Quebec (O.S.); Megantic, July 6, 16.

Eriopterini

- Neolimnophila ultima* (O.S.) Province of Quebec (O.S.).
- Chionea valga* Harris. Compton, Coaticook River, March 1, 1839 (T. H. Gosse). See Gosse, The Canadian Naturalist, 1840: 1-360.
- Gnophomyia tristissima* O.S. Montreal, June (GC); Rigaud, June (GB); Wakefield, July 27, 26 (FPI); Kirks Ferry, Aug. 5, 25 (GSW).
- Gonomyia (Gonomyia) noveboracensis* Alex. Gaspé, south shore, June 26-July 1, 28 (GCC).
- Gonomyia (Gonomyia) subcinerea* (O.S.) Gatineau, July (GB); Aylmer, June (JIB).

Gonomyia (Gonomyia) sulphurella (O.S.) Ottawa Golf Club, Aug. 14, 24 (FPI).

Helobia hybrida (Mg.) Montreal, June (GC); Hull, July (JIB); Broadview, May 5, 25 (GSW).

Cryptolabis paradoxa O.S. Wakefield, July 14, 26 (GSW).

Ormosia deviata Dietz. Gaspé, south shore, June 26-July 1, 28 (GCC); Aylmer, Sept. 14, 24 (CHC).

***Ormosia cramptoniana* sp. n.**

General coloration dark; wings with a grayish suffusion, the stigma and narrow seams along the cord and vein *Cu* darker; cell 1st M_2 small, closed; *m-cu* shortly before the fork of *M*; vein 2nd *A* sinuous.

Female.—Length, about 7.5 mm.; wing, 7.6 mm.

Described from alcoholic material.

Rostrum and palpi black. Antennae dark brown throughout. Head dark.

Pronotum dark, the anterior lateral pretergites abruptly pale whitish. Mesothorax dark, presumably pruinose in dry specimens. Halteres with the stem dusky, the knobs whitened. Legs with the coxae dark brown; trochanters yellow; femora obscure yellow, the tips narrowly darkened; tibiae brownish yellow, the tips narrowly infuscated; tarsi dark brown. Wings with a grayish suffusion, the base and costal region somewhat more yellowish; stigma darker, more intense along the veins; narrower and paler dark seams along the cord and Cu_1 ; veins dark. Venation: R_2 some distance before the fork of R_{3+4} ; cell 1st M_2 closed, small, the lower face not longer than *m-cu*; veins beyond the cell correspondingly elongated; *m-cu* just beyond the fork of *M*; vein 2nd *A* gently sinuous.

Abdomen dark brown, the ovipositor yellowish horn-color.

Habitat.—Quebec (Gaspé).

Holotype, female, north shore, July 1-5, 1928 (G. C. Crampton).

Type in author's collection.

Ormosia cramptoniana is named in honor of the collector, Dr. G. Chester Crampton, who has added materially to our knowledge of the Tipulidae of Gaspé. It is the largest species of the genus so far discovered in north-eastern North America, allied to *O. nubila* (O.S.), differing especially in the wing-pattern, which is here restricted to seams along the cord and vein *Cu*.

***Ormosia gaspensis* sp. n.**

General coloration dark brown; antennae (male) relatively short, ending shortly before the wing-root; wings with a strong dusky suffusion; cell M_2 open by the atrophy of *m*; cell M_3 short and wide; vein 2nd *A* nearly straight; male hypopygium with the inner dististyle short, the apex expanded into a weakly bilobed head.

Male.—Length, about 3.2 mm.; wing, 4.2 x 1.6 mm.

Described from alcoholic material.

Rostrum and palpi black. Antennae (male) relatively short, if bent backward extending nearly to the wing-root, dark brown throughout; flagellar segments oval. Head dark brown, possibly pruinose in dry individuals.

Pronotum brown; anterior lateral pretergites pale whitish. Mesonotal praescutum light yellowish brown with three dark brown stripes that cover most of the disk; scutal lobes similarly darkened; scutellum obscure brownish yellow;

postnotum dark. Pleura dark brown. Halteres pale, the knobs a little darkened. Legs with the coxae dark brown, the trochanters paler; remainder of legs dark brown, the femoral bases a trifle brighter. Wings with a strong dusky suffusion, the prearcular costal area brighter; stigmal region a little more suffused; veins darker brown. Venation: Cell M_2 open by the atrophy of m ; cell M_3 relatively short and wide at margin, wider than M_2 or M_4 ; vein 2nd A nearly straight, diverging from 1st A .

Abdomen dark brown, the hypopygium a very little brighter. Male hypopygium with the outer dististyle complex, irregularly bifid, the outer arm longer, narrowed to the obtusely rounded apex, the inner margin densely set with series of peg-like spines; inner arm much shorter, obtusely rounded, the outer face similarly densely set with abundant peg-like spines. Inner dististyle very stout and relatively short, the apex expanded into a head that is weakly bilobed, provided with setae. Aedeagus subtended by a very extensive and conspicuous phallosomic structure, the distal end appearing as wide flaring plates on either side of the aedeagus.

Habitat.—Quebec (Gaspé).

Holotype, male, north shore, July 1-5, 1928 (G. C. Crampton).

Type in author's collection.

Ormosia gaspensis is a very distinct species, differing from all known species in the structure of the male hypopygium. The venation, with cell M_2 open by the atrophy of m and the short cell M_3 , in conjunction with the darkened wings, is likewise diagnostic.

Ormosia meigenii (O.S.) Gaspé, south shore, June 26-July 1, 28 (GCC).

Ormosia monticola (O.S.) Rouville Co. (GC).

Ormosia nigripila (O.S.) Gaspé, north shore, July 1-5, 28 (GCC).

Ormosia notmani Alex. Gaspé, north shore, July 1-5, 28 (GCC).

Ptiloconopa gaspicola Alex. Gaspé, south shore, June 26-July 1, 28 (GCC);

type-locality.

Erioptera (*Hoplolabis*) *armata* O.S. Province of Quebec (O.S.); Hull, June 5, 26 (CHC); Wakefield, Aug. 21, 25 (FPI); Aylmer, June 3, 24 (CHC); Gaspé, south shore, June 26-July 1, 28 (GCC).

Erioptera (*Ilisia*) *armillaris* O.S. Province of Quebec (O.S.).

Erioptera (*Ilisia*) *venusta* O.S. Coaticook, Sept. (JIB).

Erioptera (*Erioptera*) *chlorophylla* O.S. Province of Quebec (O.S.).

Erioptera (*Erioptera*) *chrysocoma* O.S. Province of Quebec (O.S.).

***Erioptera* (*Erioptera*) *gaspeana* sp. n.**

Belongs to the *chlorophylla* group, most closely allied to *chlorophylla* O.S., differing notably in the structure of the male hypopygium.

Male.—Length, about 5 mm.; wing, 5 mm.

Female.—Length, about 6 mm.; wing, about 6.5 mm.

Described from alcoholic material.

Eyes of male large and protuberant, narrowly contiguous on the ventral surface, the anterior vertex relatively narrow. In the female, the eyes narrowly separated on ventral surface. General coloration pale chlorophyll green, the color paling in alcohol. Male hypopygium with the inner apical angle of the basistyle a little produced, setiferous. Outer dististyle relatively slender, pale,

the apex and margin of the narrow blade more dusky; apex of style narrowly obtuse. Inner dististyle much shorter, appearing as a gently arcuated pale blade, the apex dusky, bent at an angle and produced into a small black terminal spine. Gonapophyses appearing as gently curved black horns, the distal half of each blackened; inner apophyses appearing as strongly bent pale rods, their apices directed strongly cephalad. What may represent the tergite appears as a pale transverse plate, the lateral lobes slightly more produced and provided with long coarse setae, the more chitinized median area not extending quite as far caudad, separated from the broader lateral lobes by small notches. Ovipositor with the tergal valves elongate, slender, rather strongly upcurved, the margins smooth.

Habitat.—Quebec (Gaspé).

Holotype, male, south shore, June 26-July 1, 1928 (G. C. Crampton).

Allotopotype, female.

Paratopotype, female.

Types in author's collection.

Erioptera gaspeana is most closely allied to *E. chlorophylla* O.S. in the general structure of the male hypopygium but differs in several important respects.

Erioptera (Erioptera) septemtrionis O.S. Montreal, July (G.B); Ottawa Golf Club, Aug. 14, 24 (FPI); Aylmer, June (JIB); Hull, June 15, 23 (CHC); Megantic, June 18, 23 (CHC).

Erioptera (Erioptera) vespertina O.S. Montreal, July (GB); Ottawa Golf Club, Aug. 14, 24 (GSW).

Erioptera (Mesocyphona) caloptera Say. Montreal, June (GC).

Erioptera (Mesocyphona) needhami Alex. Aylmer, June 15, 24 (CHC).

Erioptera (Gonempeda) nyctops Alex. Megantic, June 18-20, 23 (CHC).

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The basic list of the Tipulidae of Quebec is that of Winn and Beaulieu¹, in which a total of two Psychopteridae, two Trichoceridae and eighty-seven Tipulidae are recorded from the Province. Certain of the records in this list are erroneous, a few others are synonyms, while still additional species are placed in incorrect genera. In the present preliminary list, I have endeavored to

*Contribution from the Entomological Laboratory, Massachusetts Agricultural College.

¹—Winn, Albert, and Beaulieu, Germain. A preliminary list of the insects of the province of Quebec. Part II. Diptera. *Ann. Rept. Quebec Society for the Protection of Plants*, Suppl. 168-159; 1915.