Diptera types in the Canadian National Collection of Insects

Supplement
Edition 4.0
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Cover illustration
Hemerodromia rogatoris Coquillett
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INTRODUCTION

This fourth edition of the Supplement updates the series of four catalogues on the Diptera types in the Canadian National Collection of Insects (CNC). The first part (Cooper 1991), dealt with the Nematocera and catalogued the types deposited in the collection until the end of 1987. The second (Cooper & Cumming 1993), catalogued the primary types of brachyceran Diptera exclusive of the Schizophora until the end of 1991. The third (Cooper & Cumming 2000), catalogued the primary types of Schizophora exclusive of the Tachinidae in the collection until the end of 1994. The fourth part (Cooper & O’Hara 1996), catalogued the primary types of Tachinidae deposited in the CNC until the end of 1994. All four parts are also available as searchable PDF documents on the North America Dipterists Society website (http://www.nadsdiptera.org/Catalogs/CNCtypes/CNChome.htm). This supplement brings the total number of species of Diptera represented by name-bearing types in CNC to 5021 (including 4655 species represented by holotypes, lectotypes and neotypes and 366 species represented by syntypes).

The Supplement covers the entire Diptera and includes all primary types published after the dates listed above for each part, as well as those types discovered since or inadvertently missed during the preparation of Parts 1 to 4, or needing some form of correction or update since the original entry. Of particular note, this fourth edition of the Supplement updates several entries from Cooper (1991) and Cooper & Cumming (2000) for species described by Garrett (1925b). In these entries, the type specimens were originally interpreted as syntypes; however, Garrett clearly refers to a “Type” for all but one of the included species (i.e., *Pseudoleria crassata* Garrett), and in the last line of the paper states “Accompanying these types are 385 paratypes.” This statement, along with the explicit type labels Garrett attached to the specimens, clearly indicates his intention to recognize a single specimen as the holotype for the species described in that work.

The format for the Supplement is the same as in the previous parts, with entries listed using the original combination and spelling. Subgeneric names are included if they were used in the original description of a new species. Entries include the following information: name of taxon and author; year of publication; abbreviated reference, including volume, relevant page; and current name of country from which the primary type was collected. Unless otherwise noted, the label data associated with each primary type and allotype are cited in full, with diagonal lines separating information given on separate labels (a diagonal line not followed by a space indicates that the diagonal line is present on the label). The number of paratypes or paralectotypes is given along with their country or province/state of origin. The sex of each specimen is given. Notes about nomenclature, genitalic dissections, major damage to primary types, etc., are included wherever necessary under Remarks.

Unlike Parts 1 to 4, a hardcopy publication of the Supplement is not available. This fourth edition of the Supplement supersedes the first, second and third editions, which were published exclusively on the Internet in January 2000, December 2003 and January 2007, respectively. Users should first search the appropriate Part and then this Supplement to obtain information on the type holdings in the CNC for a particular family. However, users should be aware that the Supplement takes into account recent changes in the family classification of the Diptera (as outlined in Pape et al. 2011), such as the splitting of the traditional Tipuloidea, Sciaroidea and Empidoidea into several additional families. Therefore some generic entries previously listed as Tipulidae may now be found under Limoniidae, some generic entries previously listed as Mycetophilidae may now be found under Keroplatidae, and some generic entries previously listed as Empididae may now be found under Atelestidae, Brachystomatidae or Hybotidae. Additional recent family changes include the splitting of Mythicomyiidae from Bombyliidae, the lumping of Nycteribiidae and Streblidae under Hippoboscidae, and the Tethinidae under Canacidae, and recognition of the Paraleucopidae (see Wheeler 2010), although nomenclatural validation of this family is still in doubt.

Corrections, additions and comments should be forwarded to Scott Brooks (Scott.Brooks@agr.gc.ca), for inclusion in future editions of the Supplement.
**AGROMYZIDAE**


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


*Holotype ♀: Para- type/ PARATYPE Cerodontha (Cer.) trispinata Spen CNC No 16500/ Toluca, 10 Mi. E., 8900' Mexico, Mex. 31 - VII - 1954 J. G. Chillcott/ Cer. (Cer.) trispinata K.A.Spencer det. 1976 ♀/ HOLOTYPE Cerodontha (Cerodontha) inflata Boucher.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


*Holotype ♀: Para- type/ PARATYPE Cerodontha (Cer.) trispinata Spen CNC No 16500/ Toluca, 10 Mi. E., 8900' Mexico, Mex. 31 - VII - 1954 J. G. Chillcott/ Cer. (Cer.) trispinata K.A.Spencer det. 1976 ♀/ HOLOTYPE Cerodontha (Cerodontha) toluca Boucher.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

*Cerodontha* (*Icteromyza*) *pilosa* Boucher, 2008, Can. Ent. 140: 560. CANADA.


Remarks: Holotype terminalia are mounted between two glass cover slips below specimen.

*Japanagromyza crinicolis* Lonsdale, 2013b, Zootaxa 3709: 447. UGANDA.


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

*Japanagromyza dolobrata* Lonsdale, 2013b, Zootaxa 3709: 449. UGANDA.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

*Japanagromyza laureata* Lonsdale, 2013b, Zootaxa 3709: 452. UGANDA.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**ANTHOMYIIDAE**

*Anthomyia brevicerca* Ackl. & Griffiths in Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2209. CANADA.

*Holotype ♀: Holo- type/ N.W.T. 21 m.e. Tuktoyaktuk 20-25.VI.71 D.M. Wood/ Anthomyia brevicerca Ackl. & Griff. det. GCDG.

Paratypes: 1♂, 1♀, Northwest Territories.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

*Anthomyia ceratophora* Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2277. USA.


Paratypes: 2♂, New Mexico; 1♀, Arizona.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

*Anthomyia cuneicerca* Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2212. CANADA.


Paratypes: 2♂, Saskatchewan; 1♀, Alberta; 10♂♂, British Columbia; 3♂♂, Yukon Territory; 1♂, Northwest Territories.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

*Anthomyia dichoptica* Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2224. CANADA.


Paratypes: 2♂♂, Saskatchewan; 1♀, Alberta; 6♂♂, British Columbia.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
Anthomyia neoliturata Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2218. CANADA.
Holotype ♀: Holotype type/ 7mi. E. Griffith, Ont. 15.V.1992 B.E. Cooper/ Anthomyia neoliturata Grif. det. GCD Griffiths.
Paratypes: 3♂♂, Quebec; 3♀♀, Ontario; 1♂♂, Manitoba.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Anthomyia nodulosa Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2216. CANADA.
Holotype ♀: Holotype type/ Waterton, Alta. 8 June, 1962 K.C. Herrmann/ Anthomyia nodulosa Grif. det. GCD Griffiths.
Paratypes: 2♂♂, Nova Scotia; 5♀♀, 1♀, Manitoba; 4♂♂, 1♂, Saskatchewan; 2♂♂, Alberta; 2♂♂, British Columbia.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Anthomyia ottawana Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2271. CANADA.
Paratypes: 23♂♂, 14♀♀, Ontario.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Chirois holoptica Griffiths, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2552. CANADA.
Holotype ♀: Holotype type/ N.S., CBHN. Pt. North Mt. bog PG767865 400m. 31.V. 1984 B.E. Cooper/ Chirois holoptica Grif. det. GCD Griffiths.
Paratypes: 2♂♂, Nova Scotia; 1♂, Ontario; 1♂, North Carolina.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Chirois platyperta Griffiths, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2618. CANADA.
Paratypes: 3♂♂, New Brunswick; 3♀♀, Nova Scotia; 3♂♂, Ontario; 1♂, Quebec; 1♂, Maryland; 1♂, South Carolina.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Syntypes: 2♂♂, 1♀. ♀: Le Vernet (Pyr.Oc.) 14.7.04/ tarses interni ciliis long. +/ Chortophila parcepilosa type Villen./ SYNTYPE Chortophila parcepilosa Vill.
♂: Le Vernet 14.7.04/ SYNTYPE Chortophila parcepilosa Vill.
♀: Le Vernet 14.7.04?/ SYNTYPE Chortophila parcepilosa Vill.

Paratypes: 2♂♂, 1♀, Mexico.

Paratype: 1♀, Peru.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Egle acicularis Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2340. CANADA.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Egle arctophila Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2372. CANADA.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Egle falcata Ackland & Griffiths in Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2338. CANADA.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Egle polychaeta Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2331. CANADA.
Paratypes: 2♂♂, New Brunswick; 46♀♀, Quebec; 9♀♀, Ontario; 2♂♂, Manitoba; 2♂♂, Saskatchewan; 4♀♀, Yukon Territory; 1♂, Northwest Territories.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Egle protuberans Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2307. CANADA.
Paratypes: 3♂♂, 3♀♀, New Brunswick; 5♀♀, 14♀♀, Quebec; 1♂, 3♀♀, Labrador; 1♂, Ontario; 2♂♂, British Columbia; 2♂♂, Yukon Territory; 10♀♀, 1, Northwest Territories.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Egle pseudostenei Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2334. CANADA.
DIPTERA TYPES IN THE CNC: SUPPLEMENT


Paratypes: 1♂, Colorado. Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 6♂, 18♀, Mexico. Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 2♂♀, Saskatchewan. Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 1♂, 1♀, Manitoba; 1♂ (slide), Alberta. Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 3♂, 1♀, Mexico. Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
**DIPTERA TYPES IN THE CNC: SUPPLEMENT**

*Phorbia striata* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1848. CANADA.  
Holotype ♀: Holotype- type/ Cartwright Lab 29-VI-1955 E. F. Casmhan/ Phorbia genitalis (Schnabl) det. H.C. Huckett/ Phorbia striata Griff. det. GCD Griffiths.  
Paratypes: 8♂♂, 19♀♀, Newfoundland; 1♂, 3♀♀, Ontario; 1♂, Saskatchewan; 1♂, 7♀♀, Northwest Territories; 2♀♀, 6♀♀, Yukon Territory; 3♀♀, British Columbia. 
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.  
Paratype: 1♂, North Carolina.  
Paratype: 1♂, North Carolina.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.  

*Strobilomyia columbiana* Griffiths, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2499. CANADA.  
Paratype: 6♀♀, 1♂, British Columbia. 
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen. 

*Strobilomyia intermontana* Griffiths, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2535. CANADA.  
Paratypes: 1♂, 3♀♀, British Columbia. 
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen. 

*Stephrosoma helvum* Roháček & Barber, 2005, Beitr. Ent. 55(1): 64. CANADA. 
Paratype: 1♂, Alberta. 
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen. 

*Stiphrosoma minor* Roháček & Barber, Beitr. Ent. 55(1): 76. USA.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen. 

*Stiphrosoma sororium* Roháček & Barber, Beitr. Ent. 55(1): 84. MEXICO. 
Paratypes: 3♀♀, 6♀♀, Mexico. 

**ASILIDAE**

*Efferia okanaganana* Cannings, 2011, Can. Ent. 143: 580. CANADA. 
Paratypes: 7♂, 9♀♀, British Columbia. 
Remarks: Types not yet deposited in the CNC; label data taken from published description. 

Paratypes: 2♀♀, 2♂♂, Virginia. 
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. 

*Ommatius ampliatus* Scarbrough, 2002, Trans. Am. ent. Soc. 128: 140. COLOMBIA. 
Holotype ♂: ECU: Galapagos Floreana, 3Km E Black Beach, 120m, 21-28.III.89 up. arid zone malaise trap.
Peck & Sinclair, 89-140/ HOLOTYPE Ommatius aridus Scarbrough.

Ommatius carbonarius Scarbrough & Marascia in Scarbrough et al., 2003, Afr. Ent. 11: 239. TANZANIA.
Holotype ♂: TANGANYIKA Ulguru Mts. 1500-1800 m/ HOLOTYPE Ommatius carbonarius Scarbrough/Marascia.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 3♀♀, Tanzania.

Ommatius (Pygommatius) comosus Scarbrough & Marascia, 2003, Zootaxa 228: 28. UGANDA.
Holotype ♂: Entebbe, UGANDA 10.XI 1971 H. Falke in forest/ HOLOTYPE Ommatius comosus Scarbrough/Marascia.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 1♂, 10♀♀, Uganda.

Paratype: 1♀, Zambia.

Ommatius sinuatus Scarbrough & Marascia in Scarbrough et al., 2003, Afr. Ent. 11: 256. ECUADOR.
Holotype ♂: Tandapi, 40km. SW. Quito, 1300-1500m. ECUADOR 15-21.VI.65, Pena/ HOLOTYPE Ommatius sinuatus Scarbrough/Marascia.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 2♂, 2♀♀, Ecuador.

Holotype ♂: Tandapi, 40km. SW. Quito, 1300-1500m. ECUADOR 15-21.VI.65, Pena/ HOLOTYPE Ommatius tandapiensis Scarbrough.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 2♂, 2♀♀, Ecuador.
Remarks: This species was misspelled as O. tanpadiensis several times in the original publication.

ASTEIIDAE

Astiosoma sabulosum Forrest & Wheeler, 2002, Studia dipterol. 9: 308. ECUADOR.
Paratypes: 5♂, 6♀♀, Ecuador.

Loewimyia fasciata Forrest & Wheeler, 2002, Studia dipterol. 9: 310. ECUADOR.
Paratypes: 46♂, 53♀♀, Ecuador.

Loewimyia helenae Forrest & Wheeler, 2002, Studia dipterol. 9: 311. ECUADOR.
Holotype ♂: ECU: GALAPAGOS: Isla Rabida, beach at NE side, 0m, 10.vi.1991 J.M. Heraty/ HOLOTYPE Loewimyia helenae Forrest and Wheeler.
Paratypes: 6♂, 6♀♀, Ecuador.

Sigaloessa variatincta Forrest & Wheeler, 2002, Studia dipterol. 9: 313. ECUADOR.
Paratypes: 10♂, 18♀♀, Ecuador.

ATELESTIDAE


Remarks: The type locality was not given in Grimaldi & Cumming (1999).

AXYMIIIDAE

Plesioaxymyia vespertina Sinclair, 2013, Zootaxa 3682: 146. USA.
Holotype ♂: USA: WA: Mt Rainier NP Narada Falls to Reflection Lk trail; N46°46’ W121°44’ 1400 m, 17.vii.2012 B.J. Sinclair/ HOLOTYPE Plesioaxymyia vespertina Sinclair.
Paratype: 1♀, Alaska.
BIBIONIDAE

MEXICO.
Paratypes: 9♂, 1♀, Mexico.

MEXICO.
Paratypes: 9♂, 1♀, Mexico.

BOLIVIA.
Paratypes: 3♂, 1♀, Bolivia.

PERU.
Paratypes: 4♂, Peru.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

JAMAICA.
Paratype: 1♂, Jamaica.
Remarks: The original description of the holotype gives the elevation as 400' and a date of collection of "4 August 1966".

BRAZIL.
Holotype ♀: Jacutinga, BRAZIL 27°06' 51°36' Mar. 1962 550m Fritz Plauman [sic]/ HOLOTYPE Plecia ramosa Fitzgerald 1998.
Paratypes: 13♂, 13♀, Brazil.

BRAZIL.
Paratypes: 2♂, Venezuela.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

PERU.
Paratypes: 3♂, Peru.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

BLEPHARICERIDAE

Bibiocephala canadensis Garrett, 1922, Insecutor Inscit. mens. 10: 89.
Remarks: The two specimens in the CNC (a male and female) formerly listed as syntypes by Cooper (1991) are actually paralectotypes. The lectotype male was designated by Hogue (1987: 12) and is housed in the Natural History Museum in London.

Philorus markii Garrett, 1925b, Seventy new Diptera. p. 5.
CANADA.
Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The Garrett-labelled holotype is not in the CNC and its location, if it still exists, is unknown. The allotype and ten paratypes are deposited in the United States National Museum of Natural History, and another paratype is in the Los Angeles County Museum of Natural History. The single male in the CNC is a paratype. Given this reinterpretation of the type series, Hogue’s (1987: 58) designation of the CNC specimen as lectotype is invalid.

BOMBYLIIDAE

SOUTH AFRICA.
Syntypes: 2♂, 1♀.
♂: Melton Wold Nieuwveel Victoria W. CP ["Museum Staff Oct 1935" on underside]/ Frank
Doliogethes seriatus vagens

Crocidium namaquense

DIPTERA TYPES IN THE CNC: SUPPLEMENT

Amictogeron meromelanus

♂ Syntypes: 1
♀ Syntypes: 1
Remarks: This entry updates that in Cooper & Cumming (1993) with the addition of a subsequently discovered female syntype.

Doliogethes aridicolus


Euprepina truxalia

♀ Melton Wold Nieuwveld Victoria W. CP
♂ C.N.C. 1973/ Tomomyza philoxera n. sp.
♀ Lectotype male was designated by Evenhuis & Cumming (1993) as now a paralectotype. The lectotype male was designated by Evenhuis & Greathead (1999: 657) and is housed in the United States National Museum of Natural History.

Lepidochlanus fimбриatus

♀ Mancia nana
♂ Mancia nana
♀ Melton Wold Nieuwveld Victoria W. CP
♂ C.N.C. 1973/ Tomomyza philoxera n. sp.
♀ Lectotype male was designated by Evenhuis & Cumming (1993) as now a paralectotype. The lectotype male was designated by Evenhuis & Greathead (1999: 666) and is housed in the United States National Museum of Natural History.

Oligodranes instabilis

♀ Melton Wold Nieuwveld Victoria W. CP
♂ C.N.C. 1973/ Tomomyza philoxera n. sp.
♀ Lectotype male was designated by Evenhuis & Cumming (1993) as now a paralectotype. The lectotype male was designated by Evenhuis & Greathead (1999: 668) and is housed in the United States National Museum of Natural History.

Tomomyza philoxera

♀ Melton Wold Nieuwveld Victoria W. CP
♂ C.N.C. 1973/ Tomomyza philoxera n. sp.
♀ Lectotype male was designated by Evenhuis & Cumming (1993) as now a paralectotype. The lectotype male was designated by Evenhuis & Greathead (1999: 668) and is housed in the United States National Museum of Natural History.
Remarks: The female syntype is stored in glycerine in a plastic microvial.

Tmemophlebia vockerothi Hall & Evenhuis, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 5: 693. CANADA.
Allotype ♀: Same data as holotype.
Paratypes: 3 ♂♂, 4 ♀♀, Ontario.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Villa (Villa) flavicrura Hall, 1975, Univ. Calif. Publs Ent. 76: 197. CHILE.
Remarks: The 14 specimens in the CNC (7 males and 7 females) formerly listed as syntypes by Cooper & Cumming (1993) are now paralectotypes. The lectotype male was designated by Evenhuis & Greathead (1999: 671) and is housed in the United States National Museum of Natural History.

Heleodromia chillcotti Sinclair in Sinclair et al., 2011, Can. Ent. 143: 635. CANADA.
Paratypes: 20 ♂♂, 4 ♀♀, British Columbia; 7 ♂♂, 4 ♀♀, Utah.

Heleodromia cranehollowensis Cuming & Coovet in Sinclair et al., 2011, Can. Ent. 143: 638. USA.
Paratype: 1 ♂, Ohio.

Heleodromia woodi Brooks in Sinclair et al., 2011, Can. Ent. 143: 645. CANADA.
Holotype ♀: YUKON km 155 Dempster Hwy up to 16.vii.82 D.M. Wood pan trap/ HOLOTYPE Heleodromia woodi Brooks
Paratypes: 4 ♂♂, Yukon; 4 ♀♀, Russia.

CAMILLIDAE

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: ARGENT.Jujuy Agua Caliente NE.Guemes, 1100m. 18-19.X.68.Pena/ HOLOTYPE Masoniella advena ♂ Foster & W.N. Mathis.
Paratype: 1 ♂, Argentina.

Paratypes: 4 ♂♂, 7 ♀♀, Argentina.

Holotype ♀: Helendale, Cal. 18-V -1955 W. R. Richards/ Masoniella HOLOTYPE richardsi Vockeroth CNC No. 17083 Vockeroth.
Paratypes: 15 ♂♂, 12 ♀♀, California.
Remarks: This species was originally cited as a nomen nudum by Vockeroth (1987a: 1075).

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

CALLIPHORIDAE


DIPTERA TYPES IN THE CNC: SUPPLEMENT

Meoneura sinclairi Wheeler, 2000b, Studia dipterol. 7: 116. ECUADOR.
Paratypes: 100♀, 96♂, Ecuador.

CECIDOMYIIDAE

Paratypes: 1♂, 2♀♀ (slides), British Columbia.

Contarinia constrictus Condrashoff, 1961, Can. Ent. 93:126. CANADA.
Holotype ♀ (slide): Contarinia constrictus ♂ Holotype May 8, 1959 7115 CNC.
Allotype ♀ (slide): Contarinia constrictus ♂ Allotype CNC.
Paratypes: 2♂♂, 2♀♀ adults (slides), 1♂, 3♀♀ pupae (slides), 5 instar II larvae, 5 instar III larvae, British Columbia.

Contarinia cuniculator Condrashoff, 1961, Can. Ent. 93:128. CANADA.
Holotype ♀ (slide): Contarinia cuniculator Holotype ♂ 7116 CNC April 28, 1959.
Allotype ♂ (slide): Contarinia cuniculator ♂ Allotype April 24, 1959 CNC.
Paratypes: 3♂♂, 3♀♀ adults (slides), 3♀♀ pupae (slides), 5 instar II larvae, 5 instar III larvae, British Columbia.

Contarinia pseudotsugae Condrashoff, 1961, Can. Ent. 93:124. CANADA.
Holotype ♂ (slide): Contarinia pseudotsugae Holotype ♀ 7114 CNC April 24, 1959.
Allotype ♂ (slide): Contarinia pseudotsugae ♂ Allotype April 24, 1959 CNC.
Paratypes: 4♂♂, 4♀♀ adults (slides), 3♂♂, 2♀♀ pupae (slides), 5 instar II larvae, 5 instar III larvae, British Columbia.

Remarks: This species was listed in an addendum in Cooper & Cumming (1993: 82).

Paratype in amber: 1♂, Alberta.
Remarks: This species was listed in an addendum in Cooper & Cumming (1993: 82).
Dicerura carpiensis Gagné, 1977, Proc. ent. Soc. Wash. 79: 60. CANADA.
Remarks: This species was listed in an addendum in Cooper & Cumming (1993: 82).

Holotype ♂ (slide): Ancaster Spring Valley Cons. Area, Wentworth Co., Ont. 6-7 VI.1984 L.M.Smith CD207/ HOLOTYPE♂ Dicerura aduna Borkent CNC No. 20343.
Paratypes: 1♂ (slide), Ontario.

Holotype ♂ (slide): 3km E.Carp, Ont. 19-V-3-VI-1983 A.Borkent CD42 Malaise trap/ HOLOTYPE♂ Dicerura carpiensis Borkent CNC No. 20344.
Paratypes: 2♂♂ (slides), Ontario; 1♀ (slide), Yukon Territory.

Holotype ♂ (slide): 3km N.Picadilly, Nfld. 25-VI-83 A.Borkent CD71 Sweeping grass/ HOLOTYPE♂ Dicerura cooperi Borkent CNC No. 20345.

Paratypes: 1♂♂ (slide), Nova Scotia; 1♀ (slide), Ontario.

Holotype ♂ (slide): 3 km E. Carp, Ont. 21-V-11-VI.1984 A.Borkent CD251/ Holotype ♂ Dicerura loba Borkent CNC No. 20347.
Paratype: 1♂ (slide), Ontario.

Holotype ♂ (slide): ECUADOR: Galapagos Islands, San Cristobal, 3 km E Baquerizo, 100 m. 12-23 Feb. 1989, Malaise trap, Peck & Sinclair. 89-50/ Holo-type/ det. M. JASCHHOF Insulestremia sinclairi JASCHHOF.
Paratypes: 2♂♂, 1♀ (slides), Ecuador, Galapagos Islands.

Holotype ♂ (slide): ECUADOR: Galapagos Islands, St. Cruz, Los Gemelos, 31 km N Sta. Rosa, Scalesia forest, 570m, 1-13 July 1985, FIT and Malaise, S. & J. Peck. / Holotype/ det. M. JASCHHOF Peronymia galapagensis JASCHHOF.
Paratypes: 2♂♂ (slides), Ecuador, Galapagos Islands.

Phytophaga piceae Felt, 1926, Can. Ent. 58: 229. CANADA.
Paralecotypes: 2♂♂, Manitoba.

Phytophaga thujae Hedlin, 1959, Can. Ent. 91: 719. CANADA.
Holotype ♂ (slide): Phytophaga thujae Hedlin Jan. 23, 1958a B.Kentford, B.C. Canada Host: Cone of Thuja plicata Holotype ♂/ HOLOTYPE CNC No. 6831.
Paratypes: 7♂♂, 8♀ (slides), 3♂♂, 3♀ (pinned), 14 larvae, 10 pupae (alcohol), British Columbia.

Paratypes: 10♂♂, 10♀♀, Ontario.

CERATOPOGONIDAE

Adelohelea glabra Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 46. CANADA.
Allotype ♂ in amber (slide): ALLOTYPE Adelohelea glabra Borkent ♂ CNC # 22062 nr. Medicine Hat, Alta. June, 1974 Ao-1 McAlpine, Cooper, Daze CAS 1089.

Archiaustroconops besti Borkent, Coram & Jarzembski, 2013, Polskie Pismo Ent. 82: 275. ENGLAND.

Atrichopogon borkenti Wirth, 1994, Insecta Mundi 8: 25. CANADA.
Allotype ♂ (slide): Same data as holotype except with allotype label.


DIPTERA TYPES IN THE CNC: SUPPLEMENT
DIPTERA TYPES IN THE CNC: SUPPLEMENT

Atrichopogon granditibialis Borkent and Picado/ INB0003754586 INBIOCRI COSTA RICA/ H Atrichopogon sp. B6 \( \text{♂} \) INBio CD. 1557 6.
Paratypes: 11 \( \text{♂} \) (slides), Costa Rica.

COSTA RICA.
Holotype \( \text{♂} \) (slide): COSTA RICA, Prov. Puntarenas. 2km E. Sta. Elena. 1540m. 26 AGO 1993.
Borkent. A. LN 257050 447000 # 74985/ HOLOTYPE Atrichopogon colossus Borkent and Picado/ INB0003754587 INBIOCRI COSTA RICA/ H Atrichopogon sp. B7 \( \text{♀} \) INBio CD. 1556 2.
Allotype \( \text{♂} \) (slide): COSTA RICA, Prov. Puntarenas. 2km E. Sta. Elena. 1540m. 26 AGO 1993.
Borkent. A. LN 257050 447000 # 74985/ ALLOTYPE Atrichopogon colossus Borkent and Picado/ INB0003754587 INBIOCRI COSTA RICA/ A Atrichopogon sp. O \( \text{♀} \) INBio CD. 1556 4.
Paratypes: 6 \( \text{♂} \) \( \text{♀} \) (slides), Costa Rica.

COSTA RICA.
Borkent. A. LN 192600 560500 # 74977/ HOLOTYPE Atrichopogon granditibialis Borkent and Picado/ INB0003754583 INBIOCRI COSTA RICA/ H Atrichopogon sp. O \( \text{♂} \) INBio CD. 1718 1*.
Paratypes: 11 \( \text{♂} \) \( \text{♀} \) (slides), Costa Rica.

Atrichopogon sp. O
INBio CD. 1718 1*.

Atrichopogon tapantensis Borkent & Picado, 2004, Zootaxa 637: 34.
COSTA RICA.
Borkent. A. LN 192600 560500 # 74977/ HOLOTYPE Atrichopogon tapantensis Borkent and Picado/ INB0003754586 INBIOCRI COSTA RICA/ H Atrichopogon sp BX \( \text{♀} \) INBio CD. 1718 3.
Paratypes: 3 \( \text{♂} \) \( \text{♀} \) (slides), Costa Rica.

Atrichopogon yolancae Borkent and Picado/ Atenas, C.R. 7-XII-1993 A. Borkent CD1641/ HOLOTYPE Atrichopogon yolancae Borkent and Picado/ \( \text{♂} \) INBio CD.1641 3.
Paratypes: 19 \( \text{♂} \) \( \text{♀} \) (slides), Costa Rica.

Holotype \( \text{♂} \) (slide): HOLOTYPE Baeodasymyia christopheri Borkent/ Atenas, C.R. 4-X-1993. A. Borkent CD1600/ \( \text{♂} \) CD1600 4.
Allotype \( \text{♂} \) (slide): ALLOTYPE Baeodasymyia christopheri Borkent/ Atenas, C.R. 8-IX-1993 A. Borkent CD1573/ \( \text{♂} \) CD1573 10.
Paratypes: 16 \( \text{♂} \) \( \text{♀} \), 17 \( \text{♂} \) \( \text{♀} \), 1 pupal exuviae, 1 pupa, 1 larval exuviae, 7 \( \text{♂} \) \( \text{♀} \), 6 \( \text{♂} \) \( \text{♀} \), (slides), 2 pupae, 1 larvæ, (slides), Costa Rica.

Paratypes: 2 \( \text{♀} \) \( \text{♂} \), 1 \( \text{♀} \), 1 \( \text{♀} \) (pinned), Costa Rica.

Paratypes: 11 \( \text{♂} \) \( \text{♀} \), 12 \( \text{♂} \), 9 pupal exuviae, 1 pupa, 10 larval exuviae, 2 second instars, 8 third instars, 4 fourth instars, 11 \( \text{♂} \) \( \text{♀} \), 12 \( \text{♂} \) \( \text{♀} \), (slides), 11 larvæ, 7 pupæ (slides) Costa Rica.

Ceratopogon abstrusus Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 40. CANADA.
Holotype \( \text{♂} \) (slide): 6 km. E. Salmon Arm, B.C. 4-16-V-1990 A. Borkent, CD1202/ HOLOTYPE Ceratopogon abstrusus Borkent and Grogan CNC# 21288 [red label]/ CD1202 \( \text{♂} \) [white label with black border].
Allotype \( \text{♂} \) (slide): Same data as holotype except with allotype label.
Paratypes: 2 \( \text{♂} \) \( \text{♀} \) (slides), British Columbia.
Ceratopogon mammulus Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 87. CANADA.

Holotype ♂ (slide): 20 km. N Squamish, B.C. 30-VII-1990 A. Borkent CD1240/ HOLOTYPE Ceratopogon mammulus Borkent and Grogan CNC # 21294 [red label]/ CH1240 ♂ [white label with a black border].

Allotype ♂ (slide): Same data as holotype except with allotype label.
Paratypes: 5♂, 7♀♀ (slides), British Columbia.

Ceratopogon elevatus Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 48. AUSTRIA.

Holotype ♂ (slide): HOLOTYPE Ceratopogon elevatus Borkent and Grogan CNC # 21290/ Obergurgl TIROL, 3000 m. 12-VIII-1953, J.R. Vockeroth.

Remarks: Neotype designation of Ceratopogon elevatus Meigen, 1818, Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. 1: 84. LATVIA.


Remarks: Neotype designation of Ceratopogon ater Meigen, 1818, Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. 7: 21. ENGLAND.

Paratypes: 6♀♀ (slides), Alaska.

Ceratopogon ater Meigen, 1818, Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. 1: 84. LATVIA.


Remarks: Neotype designation of Ceratopogon ater Meigen, 1818, Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. 7: 21. ENGLAND.

Holotype ♂ (slide): Same data as holotype except with allotype label.
Paratypes: 2♀♀ (slides), British Columbia.

Ceratopogon flavipes Gimmerthal, 1847, Bull. Soc. Nat. Moscou 20: 144. ENGLAND.


Ceratopogon foersteri Meigen, 1838, Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. 7: 21. ENGLAND.


Ceratopogon inverecundus Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 46. CANADA.

Holotype ♂ (slide): 20 km. N Squamish, B.C. 30-VII-1990 A. Borkent CD1240/ HOLOTYPE Ceratopogon inverecundus Borkent and Grogan CNC # 21289 [red label]/ CD1240 ♂ [white label with a black border].

Allotype ♂ (slide): Same data as holotype except with allotype label.
Paratypes: 6♂, 7♀♀ (slides), British Columbia.

Ceratopogon mammulus Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 65. CANADA.


Allotype ♂ (slide): Same data as holotype except with allotype label.
Paratypes: 1♂, 2♀♀ (slides), Northwest Territories; 12♀♀ (slides) Nunavut; 2♀♀ (slides), Yukon Territory; 1♂, 5♀♀ (slides), Alaska.

Ceratopogon multisetosus Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 76. CANADA.

Holotype ♂ (slide): HOLOTYPE Ceratopogon multisetosus Borkent and Grogan CNC #21293/ N.S., CBHNt. Pk., French Lk. bog.


Paratypes: 2♀♀ (slides), Nova Scotia; 6♀♀ (slides), British Columbia.

Ceratopogon pudiantennis Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 74. CANADA.


Allotype ♂ (slide): Same data as holotype except with allotype label and a date of “11.vii.1962”.
Paratypes: 12♀♀, 39♀♀ (slides), Nunavut; 1♂, 1♂ (slide), Yukon Territory; 1♀ (slide), Quebec.

Culex morio Fabricius, 1775, Systema entomologiae: 800. ENGLAND.


Culicoides bullus Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 61. CANADA.

Holotype ♂ (slide): Same data as holotype except with allotype label and "CD1481-A.PC".


Holotype ♂ (slide): 15 km N. San Isidro, CR, 13-14-III-1999, A. Borkent, Trampa de luz, 2250 m, CD5002/ HOLOTYPE Culicoides picadoae Spinelli and Borkent.


Holotype ♂ (slide): 2kmNE. Tarcoles, C.R. 20-VI-1993 A. Borkent CD1481/ HOLOTYPE Culicoides zumbadoi Spinelli and Borkent/ INBio CD.1481.

Allotype ♂ (slide): Same data as holotype except with allotype label, and "CD1481-A.PC".


Holotype ♂ (slide): 8kmW. Boquete, PAN 21-IX-1993 A. Borkent CD1583 CD.1583/ HOLOTYPE Culicoides hermani Spinelli and Borkent/ H.

Dasyhelea digna Borkent, 1996, Mem. ent. Soc. Wash. 18: 92. HAWAII.
Holotype ♀ (slide): 2 km S. Puhi, Kauai, HA, 8-III-1990 A. Borkent, CD1160/ HOLOTYPE Dasyhelea digna Borkent/♀.
Allotype ♂ (slide): Same data as holotype except with allotype label.
Paratypes: 1♀ (slides), Hawaii.

Dasyhelea excellens Borkent, 1996, Mem. ent. Soc. Wash. 18: 91. HAWAII.
Holotype ♂♂ (slide): 1.5 km W. Hanapepe, Kauai, Hawaii 28-III-1990 A. Borkent CD1160/ HOLOTYPE Dasyhelea excellens Borkent/♂♂.
Allotype ♀ (slide): Same data as holotype except with allotype label.
Paratypes: 7♀♀ (slides), 8♂♂ (slides), Hawaii.

Dasyhelea sinclairi Borkent, 1991, Ent. scand. 22: 110. ECUADOR.
Allotype ♂ (slide): Same data as holotype except with allotype label.
Paratypes: 2♀♀, 4♂♂ (slides), Ecuador.

Forcipomyia (Metaforcipomyia) atenasensis Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 27. COSTA RICA.
Paratypes: 4♀♀, 1♂♂ (slides), Costa Rica.

Forcipomyia (Metaforcipomyia) germiana Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 29. COSTA RICA.
Holotype ♀ (slide): Forcipomyia (Metaforcipomyia) germiana S, M & B HOLOTYPE/ 8 km S E Orosí, Tapanti National Park, CR, 11-XII-1999, A. Picado y A. Borkent, 193200N/560200E, 1200 m, CD5032.
Paratypes: 4♀♀, 1♂♂ (slides), Costa Rica.

Forcipomyia (Metaforcipomyia) heroni Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 31. COSTA RICA.

Forcipomyia (Metaforcipomyia) ronderosae Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 33. COSTA RICA.
Holotype ♂ (slide): Forcipomyia (Metaforcipomyia) ronderosae S., M. & B. HOLOTYPE/ 15 km N. San Isidro, CR, 11-12-III-1999, A. Borkent, Trampa de luz, 2250 m, Avalon Reserva Privada, CD5001.
Paratypes: 5♀♀, 6♂♂ (slides), Costa Rica.

Forcipomyia (Schizoforcipomyia) harpa Spinelli & Borkent, 2004b, Zootaxa 572: 3. COSTA RICA.
Holotype ♀ (slide): Costa Rica, 15 km N. San Isidro, 13-14-III-1999, A. Borkent, Trampa de luz, 2250 meters, CD5002/ HOLOTYPE ♂♂ Forcipomyia harpa Spinelli and Borkent/ INBio CD, 5002.
Allotype ♀ (slide): Costa Rica, 15 km N. San Isidro, 11-12-III-1999, A. Borkent, Trampa de luz, 2250 meters, CD5001/ ALLOTYPE Forcipomyia harpa Spinelli and Borkent.
Paratypes: 8♀♀, 2♀♀ (slides), Costa Rica.

Paratypes in amber: 1♂, 2♀♀ (slides), Alberta.

Isoecacta poeyi Garrett, 1925b, Seventy new Diptera, p. 9. CANADA.
Paratype: 1♂, British Columbia.
Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

Leptoconops (Leptoconops) primaevus Borkent, 1995, Biting Midge? in the Cretaceous Amber of North America: 30. CANADA.
Paratypes in amber: 5♀♀, 2♂♂ (slides), Alberta.


Serromyia nudicolis Borkent in Borkent & Bissett, 1990, Syst. Ent. 15: 188. USA. Holotype ♀ (slide): Maine, 33.5 km. S. Ashland CD587 2.VII.1986 A. Borkent/ HOLOTYPE Serromyia nudicolis Borkent CNC No. 20126. Allotype ♂ (slide): Same data as holotype except with allotype label. Paratypes: 1♀(♀), 2♀(♀), 1♀(♀) (slides), New Brunswick; 15♀(♀) (slides), Quebec; 9♀(♀) (slides), Ontario; 1♀(♀), 7♀(♀) (slides), Vermont; 6♀(♀) (slides), Maine.


CHAMAEMYIIDAE

Echinoleucopis bennetti Gaimari & Tanasijtshuk, 2001, Syst. Ent. 26: 319. BRAZIL.
Holotype ♂: Sao Paulo, Brazil, March 1963/ pred. on Ceroplastes on Baccharis dracunculifolia/ F.D. Bennett, Collector/ HOLOTYPUS ♂.
Echinoleucopis bennetti Gaimari et Tanasijtshuk.
Paratypes: 2♂♂, 2♀♀, Brazil.

Echinoleucopis macula Gaimari & Tanasijtshuk, 2001, Syst. Ent. 26: 324. BRAZIL.
Paratypes: 9♂♂, 9♀♀, Brazil.

Echinoleucopis nigrolinea Gaimari & Tanasijtshuk, 2001, Syst. Ent. 26: 325. CHILE.
Paratypes: 1♂, 1♀♀, Chile.

Hamecamyia stuckenbergeri Gaimari, 2012, Afr. Invertebr. 53: 159. SOUTH AFRICA.
Paratypes: 10♂♂, 10♀♀, South Africa.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Leucopis aglaia Tanasijtshuk, 2003, Zoosyst. Rossica 11: 386. CANADA.
Paratypes: 2♂♂, British Columbia.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Holotype ♂: Chiloquin Ore. VI-25-60/ E.I. Schlinger Collector/ Predacious upon Capitophorus sp. 60-7-28/ E.I. Schlinger/ slide no. 7173.
Paratypes: 2♂♂, California.
Remarks: Holotype terminalia are permanently mounted on a microscope slide. Types not yet deposited in the CNC; label data taken from published description.

Holotype ♂: Thousand palms, Cal. 27.II.1953 J.E.H. Martin.
Paratypes: 4♂♂, 25♀♀, California; 2♂♂, Oregon; 1♀, Wyoming; 1♂, Nevada; 4♂♂, 21♀♀, Arizona; 2♂♂, Texas.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Holotype ♂: Big Bend N.P. Tex. Green Gulch 5000' May 14, 1959/ Bottimer/ slide no. 7359.
Paratypes: 4♂♂, California; 3♀♀, Texas.
Remarks: Holotype terminalia are permanently mounted on a microscope slide. Types not yet deposited in the CNC; label data taken from published description.

Holotype ♂: Salmita Mines 64° 05'N, 111° 15'W N.W.T., 12-VI-1953 J.G. Chillcott.
Paratypes: 4♂♂, 1♀♀, Northwest Territories; 1♂, 1♀♀, Yukon Territory; 1♂, Wyoming; 1♂, Colorado; 3♀♀, Colorado.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Remarks: Holotype terminalia are permanently mounted on a microscope slide. Type not yet deposited in the CNC; label data taken from published description.

Paratype: 1♀♀, California.
Remarks: Holotype terminalia are permanently mounted on a microscope slide. Types not yet deposited in the CNC; label data taken from published description.

Holotype ♂: Alamogordo, N.M. May 26, 1964, J.F. McAlpine/ swept from ornamental shrubs/ slide no. 7230.
Paratypes: 1♂♂, Washington; 1♀♀, Idaho; 1♂, Utah; 2♂♂, Colorado.
Remarks: Holotype terminalia are permanently mounted on a microscope slide. Types not yet deposited in the CNC; label data taken from published description.

Leucopis schlingeri Tanasijtshuk, 2003, Zoosyst. Rossica 11: 381. USA.
Holotype ♂: Riverside Cal., VIII-13, 1959/ E.I. Schlinger collector/ Primary parasite reared from Thecabius populi-monilis. E.I. Schlinger/ Aphid host plant Populus trichocarpa.
Paratypes: 12♂♂, 19♀♀, California.
Remarks: Types not yet deposited in the CNC; label data taken from published description.
Leucopis velutinifrons Tanasijtshuk, 2003, Zoosyst. Rossica 11: 381. CANADA.
Holotype ♂, Spring Creek Terrace, B.C., 11.VI.1960
C.H. Mann, slide no. 7231.
Paratypes: 1♂, Washington; 1♂, Colorado.
Remarks: Holotype terminalia are permanently mounted on a microscope slide. Types not yet deposited in the CNC; label data taken from published description.

CHIRONOMIDAE

CANADA.
Holotype ♂ (slide): Aagaardia long-icalcis sp. n.
Paratypes: 1♂ (slide), 1♂ (slide), Nova Scotia.

Cladotanytarsus aeiparthenus Bilyj.
Remarks: There is a slide labeled as a paratype but it is from a locality not mentioned in published description.

Type No. 19728
Cladotanytarsus daviesi Bilyj.
Type No. 19726

Cladotanytarsus pinnaticornis Bilyj.
Paratypes: 1♂, 1♀ (slides), Ontario.

Type No. 19725
Cladotanytarsus elaensis Bilyj.
Allotype ♂ (slide with associated pupal exuviae): Same data as holotype except with allotype label and Slide No. 1.

Type No. 19724
Cladotanytarsus muricatus Bilyj.
Paratypes: 1♂, 1♂ (slides), Ontario.

Type No. 19721
Cladotanytarsus tribelus Bilyj.
Type No. 19724
Cladotanytarsus muricatus Bilyj.
Paratype: 1♂ (slide), Ontario.

Type No. 19721
Cladotanytarsus tribelus Bilyj.

CANADA:
Remarks: Type not yet deposited in the CNC; label data taken from published description.

CANADA:
Remarks: Type not yet deposited in the CNC; label data taken from published description.

CANADA:
Diptera Types in the CNC: Supplement

Glyptotendipes (Glyptotendipes) sensilis Saether, 2011, Zootaxa 2760: 48. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Linacerus pilola Garrett, 1925b, Seventy new Diptera. p. 9. CANADA.
Paratypes: 1♂, British Columbia.
Remarks: This entry updates the listing in Cooper (1919), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Sublette’s (1967: 291) lectotype designation is invalid.

Micropsectra montana Säwédal, 1976, Ent. scand. 7: 134. NEPAL.

Micropsectra nepalensis Säwédal, 1976, Ent. scand. 7: 134. NEPAL.

Orthocladius (Eudactylocladius) subletteorum Cranston, 1998, J. Kans. ent. Soc. 71: 291. CANADA.
Paratypes: 8♂♂, 10♀♀, Northwest Territories; 25♂♂, 10♀♀, Nunavut; 1♂, Yukon Territory; 1♂, Manitoba; 1♂, Greenland; 1♂, Iceland.

Paratanypus kiefferi Garrett, 1925b, Seventy new Diptera. p. 8. CANADA.
Paratypes: 7♂♂, British Columbia.
Remarks: This entry updates the listing in Cooper (1919), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The lectotype designation by Sublette (1967: 293) is invalid. The terminalia of the holotype are mounted on microscope slide No. 1.

Demeijerea spinulata Saether, 2011, Zootaxa 2760: 40. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Diamesa banana Garrett, 1925b, Seventy new Diptera. p. 6. CANADA.
Paratypes: 13♀♀, British Columbia.
Remarks: This entry updates the listing in Cooper (1919), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The lectotype designation by Sublette (1967: 295) is invalid. The terminalia and terminalia of the holotype are mounted on microscope slides (No. 5141).

Diamesa borealis Garrett, 1925b, Seventy new Diptera. p. 6. CANADA.
Paratypes: 24♀♀, 6♂♂, British Columbia.
Remarks: This entry updates the listing in Cooper (1919), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The lectotype designation by Sublette (1967: 295) is invalid. The terminalia, right antenna, right wing, right foreleg, right midleg and part of the left hindleg are mounted on three microscope slides each labelled 5140.

Glyptotendipes (Glyptotendipes) parasustaces Saether, 2011, Zootaxa 2760: 42. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Glyptotendipes (Glyptotendipes) paulisensus Saether, 2011, Zootaxa 2760: 46. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.
Prodiamesa pertinax

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).


Remarks: Type not yet deposited in the CNC; label data taken from published description.

Procladius malifero Garrett, 1925b, Seventy new Diptera, p. 10.

Holotype ♂: CRANBROOK 20.V BC/ HOLO TYPE

Allotype ♂: Same data as holotype except with allotype label.

Paratypes: 3♂♂, 2♀♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).


Paratypes: 1♂±, 1♀±, 2♀♀, British Columbia.

Remarks: Holotype not yet deposited in the CNC; label data taken from published description.

Prodiamesa sequax Garrett, 1925b, Seventy new Diptera, p. 6.


Paratypes: 6♂♂, 4♀♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

The lectotype designation by Sublette (1967: 302) is invalid. The terminalia of the holotype are mounted on a microscope slide.

Prodiamesa sequax Garrett, 1925b, Seventy new Diptera, p. 7.

Holotype ♂ (slide): Prodiamesa sequax Garrett, CNC Type no. 7919, ♂ genitalia, Slide no. 1, Lectotype J.E.S. 1963.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

Garrett described this species from one male and one female from Cranbrook, British Columbia. The male has been subsequently slide mounted; however, Garrett’s locality and type labels from the original pin mount are not attached to the slide and appear to be lost. This specimen is presumed to be Garrett’s holotype, which renders Sublette’s (1967: 306) lectotype designation invalid. The female specimen (allotype) is not in the CNC.


Holotype ♂: USA: California, Point Lobos, 6.viii.1964, B. Hocking.

Paratypes: 2♂♂, California.

Remarks: Types not yet deposited in the CNC; label data taken from published description.


Paratype: 1♂, New Brunswick.

Remarks: Types not yet deposited in the CNC; label data taken from published description.


Remarks: Type not yet deposited in the CNC; label data taken from published description.


Holotype ♂ (slide): Zool. Staatssammlung München Skutia inopinata Reiss Skutz Falls, Lake Cowichan, B.C., Canada, 23.7.1979 CH4490, CNC leg. I.M. Smith/ Holotypus CNC Type No. 20085.

Paratype: 1♂, New Brunswick.

Tanypus arcuata Garrett, 1925b, Seventy new Diptera, p. 7.


Paratypes: 2♂♂, 1♀♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

Tanytarsus appendiculatus Ekrem et al., 2003, Ann. ent. Soc. Am. 96: 280. CANADA.


Remarks: Type not yet deposited in the CNC; label data taken from published description.

Paratypes: 2♂♂, 1♀♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

Ekrem et al., 2003, Ann. ent. Soc. Am. 96: 280. CANADA.
DIPTERA TYPES IN THE CNC: SUPPLEMENT

Holotype ♂ (slide): White Lake Ontario 4-VI-68 R.D. Macdonald/ Tanytarsus appendiculatus Ekrem, Sublette & Sublette Holotype ♂.

Tanytarsus harperi Ekrem et al., 2003, Ann. ent. Soc. Am. 96: 298. CANADA.
Holotype ♂ (slide): Holotype ♂ (slide): Lac Croche St. Hippolyte Terrobonne, Co., Que. 4-9 June 1977 P.P. Harper Em trap Tany # 6/ Tanytarsus harperi Ekrem, Sublette & Sublette Holotype ♂. Paratypes: 2♂, (slides), Quebec.

Tanytarsus martini Ekrem et al., 2003, Ann. ent. Soc. Am. 96: 306. CANADA.

Tavastia pilipsecta Saether, 2010b, Aquat. Insect. 32: 172. CANADA.

CHLOROPIDAE

Agrophaspidium monticola Wheeler & Mlynarek, 2008, Zootaxa 1926: 46. COSTA RICA.


Camptopeltes citrinum Mlynarek & Wheeler, 2010a, Can. Ent. 142: 197. VENEZUELA.

Cetena nigripalpis Savage & Wheeler, 1999, Ent. scand. 30: 254. CANADA.

Chaetochlorops tanyaspis Hibbert & Wheeler, 2007, Studia dipterol, 14: 102. PERU.


Elachiptera culturata Wheeler & Forrest, 2002, Zootaxa 98: 2. ECUADOR.


Goniaspis versicolor Mlynarek & Wheeler, 2009, Zootaxa 2033: 38. BOLIVIA.


Leptocera transversalis Malloch, 1919, Report of the Canadian Arctic Expedition 3: 53. USA. Syntypes: 2♂♂. Pond at Collinson point, Alaska, June 13, 1914 (F. Johansen). Remarks: The types are supposed to be deposited in the CNC; however, they were not listed in Cooper & Cumming (2000) and could not be located during the preparation of the present edition of the
DIPTERA TYPES IN THE CNC: SUPPLEMENT

Supplement. Leptocera transversalis Malloch is now placed in the Chloropidae (see Sabrosky 1965: 791).

Holotype ♂: ECU: Galapagos, Santa Cruz, 1km E CDRS (Lagoon) littoral, 30.III-7.IV.89, malaise, Peck & Sinclair; 89-188/ HOLOTYPE Liohippelates baptipalpis Wheeler and Forrest.
Paratypes: 3♂♂, 3♀♀, Ecuador.

Medeventor nubosus Wheeler, 2007, Zootaxa 1413: 49. COSTA RICA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Paratypes: 1♀, 1♂, 6♀♀, 1♂♂, Ecuador.

CLUSIIDAE

Paratypes: 6♀♀, 3♂♂, Chile.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 4♀♀, 1♂♂, Chile.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 3♀♀, 3♂♂, Chile.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Clusiodes eremos Caloren & Marshall, 1998, Studia dipterol. 5: 282. USA.
Paratypes: 1♀, 1♂, British Columbia; 1♀, Colorado; 1♀, Oregon.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial that is pinned below specimen.

Paratypes: 1♀, Costa Rica; 1♀, Mexico.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Helomyza vitticollis Blanchard, 1852, Orden IX. Dipteros: 452. CHILE.
Remarks: The neotype of Helomyza vitticollis Blanchard (also the neotype of Peratochetus limbipennis Rondani) was designated by Lonsdale & Marshall (2008: 5, 29).

Heterochroa pictipennis van der Wulp, 1882, Notes Leyden Mus. 4: 91. CHILE.
Neotype ♂: CHILE Conception: 6 km S San Pedro 12.XII.82-2.1.83 A. Newton & M. Thayer/ HOLOTYPE Heterochroa pictipennis van der Wulp/ CNC 91387 ["CNC 91387" on underside].

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Heteromeringia nervosa Lonsdale & Marshall, 2007a, Beitr. Ent. 57: 47. COSTA RICA.
Holotype ♂: CR: Puntarenas Monteverde 1500m 22-27.II.1991 B.J.Sinclair ex.at lights/  
HOLOTYPE Heteromeringia nervosa Lonsdale & Marshall/ CNC 91371.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Heteromeringia zophina Lonsdale & Marshall, 2007a, Beitr. Ent. 57: 53.MEXICO.
Holotype ♂: 10 wi.EL Salto, Dgo. MEX., 9000' June 30 1964 J.F. McAlpine/ HOLOTYPE  
Heteromeringia zophina Lonsdale & Marshall/ CNC 91375.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Peratochetus limbipennis Rondani, 1863, Diptera exotica revisa et annotata: 43. CHILE.
NEOTYPE Heleomyza vitticollis Blanchard/ NEOTYPE Peratochetvs limbipennis Rondani/  
CNC 91389 ["CNC 91389" on underside].
Remarks: The neotype of Peratochetvs limbipennis Rondani (also the neotype of Helomyza vitticollis Blanchard) was designated by Lonsdale & Marshall/ CNC 91442 ["CNC 91442" on underside].

Peratochetus philippii Rondani, 1863, Diptera exotica revisa et annotata: 43. CHILE.

Holotype ♂: MEXICO, Chiapas 8 mi. SE San Cristobal 17.V.1969, B.V. Petersen/ HOLOTYPE  
Procerosoma prominens Lonsdale & Marshall/ CNC 91394 ["CNC 91394" on underside].
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Sobarocephala bicolor Lonsdale & Marshall/ CNC 91410 ["CNC 91410" on underside].
Paratypes: 1♀, Mexico.

Holotype ♂: JAMAICA, 4000, Hardwar Gap VII.10.1966 Howden & Becker/ HOLOTYPE  
Sobarocephala horizontalis Lonsdale & Marshall/ CNC 91437 ["CNC 91437" on underside].
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: CR: Puntarenas Monteverde 1500m 27.II.1991 H. & A. Howden ex. dung trap/  
HOLOTYPE Sobarocephala howdenorum Lonsdale & Marshall/ CNC 91438 ["CNC 91438" on underside].
Paratypes: 1♀, Costa Rica.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: Nova Teutonia 27°11'S 52°23'W Brazil, 300-500m. III.1966 Fritz Plaumann/  
HOLOTYPE Sobarocephala infuscata Lonsdale & Marshall/ CNC 91442 ["CNC 91442" on underside].
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: Coca, Napo R. Napo, ECUADOR. V.1965 250 m., L. Pena/ HOLOTYPE  
Sobarocephala malleata Lonsdale & Marshall/ CNC 91454 ["CNC 91454" on underside].
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: MEX. Chis. 7000ft. 20 mi N. Bochil Y. Buena, cloudfor. Mason 10 June 1969/  
HOLOTYPE Sobarocephala minthomyia Lonsdale & Marshall/ CNC 91458 ["CNC 91458" on underside].
Paratypes: 8♀, Colombia.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: Georgetown GRAND CAYMAN 15-30.III.1965 J.R. McIntosh/ HOLOTYPE  
Sobarocephala oculata Lonsdale & Marshall/ CNC 91468 ["CNC 91468" on underside].
Paratypes: 4♀, Grand Cayman.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: Forsyth, Ga. 2.VI.1970/ HOLOTYPE  
Sobarocephala pengellyi Lonsdale & Marshall/ CNC 91472 ["CNC 91472" on underside].
Paratypes: 10♀, Georgia.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
**DIPTERA TYPES IN THE CNC: SUPPLEMENT**


Paratypes: 2♂, 3♀, Brazil.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 2♂, 3♀, Brazil.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 2♂, 3♀, Brazil.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 4♂, 5♀, St. Vincent; 2♂, ♀, Brazil.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**CONODIDAE**

Holotype ♀: CURIPE TRINIDAD JUNE 1965 F.D.B./ #10 Par on Xyllocopa submordax Dead bee found May 12 Par emerged June 11/ HOLOTYPE Physoecephala bennetti Camras/ 123/ bennetti.
Paratypes: 2♂, Trinidad.

Paratypes: 7♂, 3♀, New Mexico; 2♂♂, Mexico.
Remarks: The page number cited above for the description of Stylogaster berosfordi refers to the online preprint version of the article.

**CORETHRELLIDAE**

*Corethrella (Corethrella) anniae* Borkent, 2008, Zootaxa 1804: 59. COSTA RICA.
Holotype ♀ (slide): HOLOTYPE Corethrella anniae Borkent/ 1 km W. Puerto Viejo, Limón, Costa Rica, 30-X-1993 A. Borkent CD1644.

*Corethrella (Corethrella) aurita* Borkent, 2008, Zootaxa 1804: 122. PANAMA.
Holotype ♀ (slide): HOLOTYPE Corethrella aurita Borkent/ Panama, Gamboa, Canal Area, 9°07.0'N, 79°41.9'W, 08-17-2003, X. Bernal.
Paratypes: 3♂♂, Panama (slides).

*Corethrella (Corethrella) bicincta* Borkent, Grafe & Miyagi in Borkent & Grafe, 2012, Zootaxa 3279: 16. MALAYSIA.
Holotype ♀ (slide): HOLOTYPE Corethrella bicincta Borkent, Grafe, Miyagi/ Gunung Mulu National Park, Sarawak, Malaysia, Headquarters, 14-XI-2009; on Hylarana glandulosa, U. Grafe;.
Paratypes: 10♂♂, Malaysia (slides).

*Corethrella (Corethrella) bipigmenta* Borkent & Grafe, 2012, Zootaxa 3370: 10. BRUNEI.
Holotype ♀ (slide): HOLOTYPE Corethrella bipigmenta Borkent and Grafe/ Tributary of Sungai Temburong in Temburong district of Brunei Darussalam, 115° 09'E, 4° 33'N, 22-VIII-2009; on Hylarana glandulosa, U. Grafe;.
Paratypes: 3♂♂, Brunei (slides).

*Corethrella (Corethrella) blandaferm Borkent & Grafe, 2012, Zootaxa 3279: 60. COSTA RICA.
Allotype ♀ (slide): Same data as holotype except with allotype label.
Paratypes: 2♂♂, Costa Rica (slides).

*Corethrella (Corethrella) brevivena* Borkent, 2008, Zootaxa 1804: 66. COSTA RICA.
Holotype ♀ (slide): HOLOTYPE Corethrella brevivena
Borkent/ 1 km W. Puerto Viejo, Limón, Costa Rica
Allotype ♀ (slide): Same data as holotype except with
allotype label.

Corethrella (Corethrella) caribbeana Borkent, 2008, Zootaxa
1804: 124. SAINT KITTS.
Holotype ♀ (slide): HOLOTYPE Corethrella
caribbeana Borkent/ 1.6 km N. Basseterre, St.
Kitts 11-XI-1985 A. Borkent CD454.
Allotype ♀ (slide): Same data as holotype except with
allotype label.
Paratypes: 1♂, Costa Rica (slides).

Corethrella (Corethrella) curta Borkent, 2008, Zootaxa
1804: 163. COSTA RICA.
Holotype ♀ (slide): HOLOTYPE Corethrella curta
Borkent/ 8 km SE Orosi, Tapanti National Park,
CR, 11-XII-1999, A. Picado y A. Borkent,
1993200N/560200E, 1200 m, CD5032.
Allotype ♀ (slide): Same data as holotype except with
allotype label.
Paratypes: 7♀, Costa Rica (slides).

Corethrella (Corethrella) gilva Borkent & Grafe, 2012, Zootaxa
3279: 17. BRUNEI.
Holotype ♀ (slide): HOLOTYPE Corethrella gilva
Borkent and Grafe/ 12 km S. Liang, Brunei, 15-V-
2007; on Hylarana glandulosa; U. Grafe; 34-1/1,
DNA extracted/ 34-1/1 231007.
Paratypes: 1♀, Brunei (slides).

Corethrella (Corethrella) grandipalpis Borkent, 2008, Zootaxa
1804: 62. COSTA RICA.
Holotype ♀ (slide): HOLOTYPE Corethrella grandipalpis
Borkent/ 5 km NE Tárcoles, CR, 2-
IX-1993, CD1568.
Paratypes: 3♀, Costa Rica (slides).

Corethrella (Corethrella) hirta Borkent, 2008, Zootaxa
1804: 136. COSTA RICA.
Holotype ♀ (slide): HOLOTYPE Corethrella hirta
Borkent/ La Selva Biological Station, Costa Rica,
2-III-2004, A. Borkent, CD5416.
Paratype: 1♀, Costa Rica (slide).

Corethrella (Corethrella) lutea Borkent & Grafe, 2012, Zootaxa
3279: 8. BRUNEI.
Holotype ♀ (slide): HOLOTYPE Corethrella lutea
Borkent and Grafe/ 12 km S. Liang, Brunei, 10-V-
2007; on Hylarana glandulosa; U. Grafe; 18-2/3,
18-2/3 261107.
Paratypes: 12♀, Brunei; 6♂, Malaysia (slides).

Corethrella (Corethrella) mitra Borkent & Grafe, 2012, Zootaxa
3279: 12. BRUNEI.
Holotype ♀ (slide): HOLOTYPE Corethrella mitra
Borkent and Grafe/ lower Sungai Apan, Ulu
Temburong National Park, Brunei, 4-vii-2008; on
Paratype: 1♀, Brunei (slide).

Corethrella (Corethrella) nanoantennalis Borkent & Grafe, 2012,
Zootaxa 3279: 9. BRUNEI.
Holotype ♀ (slide): HOLOTYPE Corethrella
nanoantennalis Borkent and Grafe/ Sungai Mata
Ikan, Ulu Temburong National Park, Brunei, 10-
vi-2008; on M. nasuta, U. Grafe; 11n1 DNA
extracted/ 11n1 050109.
Paratypes: 4♀, Malaysia (slides).

Corethrella (Corethrella) ranapungens Borkent, 2008, Zootaxa
1804: 160. COSTA RICA.
Holotype ♀ (slide): HOLOTYPE Corethrella
ranapungens Borkent/ 5 km NE Tárcoles, CR, 2-
IX-1993 A. Borkent CD1567.
Allotype ♀ (slide): Same data as holotype except with
allotype label.
Paratypes: 1♀, Costa Rica; 1♂, Panama;
14♀, Guyana (slides).

Corethrella (Corethrella) remiantennalis Borkent, 2008, Zootaxa
1804: 63. COSTA RICA.
Holotype ♀ (slide): HOLOTYPE Corethrella
remiantennalis Borkent/ 2 km NE Tárcoles, CR, 1-
I-1994, A. Borkent CD1727.

Corethrella (Corethrella) tigrina Borkent & Grafe, 2012, Zootaxa
3279: 6. BRUNEI.
Holotype ♀ (slide): HOLOTYPE Corethrella tigrina
Borkent and Grafe/ 15 km S. Liang, Brunei, 7-VI-
2007; frog-call trap with synthetic tone; U. Grafe;
075-5.
Allotype ♀ (slide): ALLOTYPE Corethrella tigrina
Borkent and Grafe/ 15 km S. Liang, Brunei, 7-VI-
2007; frog-call trap with synthetic tone; U. Grafe;
075-5/1 0755/1 080108.
Paratypes: 3♀, Brunei; 6♀, Malaysia.

Corethrella (Corethrella) ugandensis Borkent, 2008, Zootaxa
1804: 94. UGANDA.
Holotype ♀ (slide): HOLOTYPE Corethrella ugandensis
Borkent/ UGANDA Entebbe 11–17-?
Allotype ♀ (slide): Same data as holotype except with
allotype label.
Paratypes: 3♀, 3♂, Uganda (slides).

Corethrella (Corethrella) unisetosa Borkent, 2008, Zootaxa
1804: 132. PERU.
Holotype ♀ (slide): HOLOTYPE Corethrella unisetosa
Borkent/ PERU: Loreto, Iquitos, Puerto Almendra
arboetum 03.83894°S, 73.37455°W, ex.
Aechmea in canopy, 29 August 2003, S.
Yanoviak.

Corethrella (Corethrella) unizona Borkent, Grafe & Miyagi in
BRUNEI.
Holotype ♀ (slide): HOLOTYPE Corethrella unizona
Borkent, Grafe, Miyagi/ 15 km S. Liang, Brunei,
7-VI-2007; frog-call trap with synthetic tone +
200, U. Grafe; 76-4/1 DNA extracted/ 076-4/1
080108.
Paratypes: 1♀, Malaysia (slides).
CTENOSTYLIDAE


DIASTATIDAE

Diastata dorosola Chandler, 1987, Ent. scand. 18: 34. NEPAL.
Paratypes: 2♂, 3♀, Nepal.
Remarks: Holotype abdomen is mounted in glycerine in a plastic microvial pinned below specimen.

Diastata flavipes Chandler, 1987, Ent. scand. 18: 37. NEPAL.
Paratypes: 1♂, 6♀, Nepal.
Remarks: Holotype abdomen and genitalia are mounted in euparol placed on a coverslip that is affixed to a card pinned below specimen; the preabdomen is stored in glycerine in a plastic microvial pinned below specimen.

Diastata hirsuta Chandler, 1987, Ent. scand. 18: 36. NEPAL.
Paratypes: 1♂, Nepal.
Remarks: Holotype abdomen and genitalia are mounted in euparol placed on a coverslip that is affixed to a card pinned below specimen.

Diastata lugubris Chandler, 1987, Ent. scand. 18: 36. NEPAL.
Holotype ♀: 27°57’N, 85°00’E, Mal. tr. 8, 10,000’ 22 May 1967 Can. Nepal Exped./ Diastata lugubris sp. n. det. P.J. Chandler HOLOTYPE ♀/ HOLOTYPE Diastata lugubris CNC No.
Paratypes: 2♂♂, Costa Rica.
Remarks: The coverslip and euparol preparation of the holotype abdomen has been separated from the card mount and lost.

Diastata macula Chandler, 1987, Ent. scand. 18: 37. NEPAL.
Paratypes: 4♂♂, Nepal.

Remarks: Holotype abdomen and genitalia are mounted in euparol placed on a coverslip that is affixed to a card pinned below specimen.

Diastata mirabilis Chandler, 1987, Ent. scand. 18: 34. NEPAL.
Paratypes: 1♂, 6♀♀, Nepal.
Remarks: Holotype genitalia are mounted in euparol placed on a coverslip that is affixed to a card pinned below specimen; the preabdomen is stored in glycerine in a plastic microvial pinned below specimen.

Diastata rustica Chandler, 1987, Ent. scand. 18: 36. NEPAL.
Remarks: Holotype broken from pin, reglued to card with one wing separate, head missing, 3 legs missing. The coverslip and euparol preparation of the holotype abdomen has been separated from the card mount and lost.

DIXIDAE

Dixella hansoni Chaverri & Borkent, 2007, Zootaxa 1575: 13. COSTA RICA.

Dixella fernandezae Chaverri & Borkent, 2007, Zootaxa 1575: 15. COSTA RICA.
Holotype ♀ (slide): Costa Rica, Puntarenas, Monteverde, 2 Km E. de Santa Elena, Estación Biológica Monteverde, 1540 m, 12-VI-2000, A. Borkent, CD 5085, LN 255800 447900/ HOLOTYPE Dixella fernandezae Chaverri & Borkent.

Dixella jironi Chaverri & Borkent, 2007, Zootaxa 1575: 17. COSTA RICA.
Holotype ♀ (slide): Costa Rica, San José, Escazù, Alto Tapexco, 1700 m, 31-V-1999, A. Borkent, LN 209100 518900/ HOLOTYPE Dixella jironi Chaverri & Borkent.

DOLICHOPODIDAE

Holotype ♀: CANADA, Manitoba, Assiniboine - Sours River Fork [1 km E of Treesbank, fairly open
shallow rocky banks lined with willow and alder trees; 11.viii.1993.

Paratypes: 1♂, 4♀♀, Ontario.

Remarks: Holotype and paratypes stored in 70% alcohol. Types not yet deposited in the CNC; label data taken from published description.

**Achalcus brevicornis** Pollet, 2005, Zool. J. Linn. Soc. 143: 37. CHILE.


Paratypes: 4♂♂, 2♀♀, Chile.

Remarks: Holotype hypopygium mounted on semipermanent slide. Types not yet deposited in the CNC; label data taken from published description.


Remarks: Holotype front leg, antenna and terminalia are mounted on a microscope slide.

**Achalcus californicus** Pollet & Cumming, 1998, Zool. J. Linn. Soc. 143: 44. CANADA.


Paratypes: 1♀, Maine.

Remarks: Holotype and paratype stored in 70% alcohol. Types not yet deposited in the CNC; label data taken from published description.

**Australachalcus micromorphoides** Pollet, 2005, Zool. J. Linn. Soc. 143: 59. CHILE.


Remarks: Holotype hypopygium mounted on semipermanent slide. Type not yet deposited in the CNC; label data taken from published description.

**Argentinia bickeli** Naglis, 2002a, Studia dipterol. 8: 481. CHILE.


Paratypes: 2♂♂, 1♀♀, Chile.

**Asyndetus bursericola** Bickel & Sinclair, 1997, Ent. scand. 28: 253. ECUADOR.


Paratype: 1♂, Ecuador.

**Asyndetus mystacinus** Bickel & Sinclair, 1997, Ent. scand. 28: 256. ECUADOR.


Paratypes: 6♂♂, 6♀♀, Ecuador.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Amblypsilopus deplis** Bickel & Sinclair, 1997, Ent. scand. 28: 243. ECUADOR.


Paratype: 1♂, Ecuador.

**Australachalcus cummingi** Pollet, 2005, Zool. J. Linn. Soc. 143: 56. CHILE.

Holotype ♂: Gualletue; Malleco, CHILE; 9-14.XII.1963; L. Pena. 1200m/ Holotype/ Australachalcus cummingi; Pollet; det. M. Pollet, 2002.

Remarks: Holotype hypopygium mounted on semipermanent slide. Type not yet deposited in the CNC; label data taken from published description.

**Australachalcus incisicornis** Pollet, 2005, Zool. J. Linn. Soc. 143: 59. CHILE.


Paratypes: 2♂♂, Chile.

Remarks: Holotype hypopygium mounted on semipermanent slide. Types not yet deposited in the CNC; label data taken from published description.

**Australachalcus latipennis** Pollet, 2005, Eur. J. Entomol. 102: 284. USA.

Holotype ♂: USA, Arizona, Cochise Co., Huachuca Mts., 5354 Ash Cyn., R2, 0.5 mi W. Hwy 92 (5100 ft), 21.-31.x.1992, MT, N. McFarland.

Paratype: 1♀, Arizona.

Remarks: Holotype and paratype stored in 70% alcohol. Types not yet deposited in the CNC; label data taken from published description.

**Australachalcus pseudorobustus** Pollet, 2005, Zool. J. Linn. Soc. 143: 61. CHILE.

Holotype ♂: Estero La Jaula; Curico, CHILE; I.1964. L. Pena; Nothofagus/ Holotype/ Australachalcus pseudorobustus; Pollet; det. M. Pollet, 2002.

Remarks: Holotype hypopygium mounted on semipermanent slide. Type not yet deposited in the CNC; label data taken from published description.

**Australachalcus robustus** Pollet, 2005, Zool. J. Linn. Soc. 143: 64. CHILE.


Paratype: 1♂, Chile.

Remarks: Holotype hypopygium mounted on semipermanent slide Types not yet deposited in
the CNC; label data taken from published description.

**Australachalcus setosus** Pollet, 2005, Zool. J. Linn. Soc. 143: 65. CHILE.
Holotype ♂: Bosque de los; Conservadores; Graneros, 1100m; O'Higgins, CHILE; 1-4.III.62. Pena/ Holotype/ Australachalcus setosus; Pollet; det. M. Pollet, 2002. Paratypes: 4♂♂, Chile.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

**Australachalcus variabilis** Pollet, 2005, Zool. J. Linn. Soc. 143: 67. CHILE.
Holotype ♂: Rio Blanco; Malleco, CHILE; II.1964; 1100-1200 m/ Holotype/ Australachalcus variabilis; Pollet; det. M. Pollet, 2002. Paratypes: 4♂♂, Chile.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

**Bickelomyia canescens** Naglis, 2002b, Studia dipterol. 9: 236. MEXICO.

**Bickelomyia flaviseta** Naglis, 2002b, Studia dipterol. 9: 232. MEXICO.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Right hindleg of holotype is glued to locality label.

**Bickelomyia nigriseta** Naglis, 2002b, Studia dipterol. 9: 230. COSTA RICA.

**Bickelomyia setipyga** Naglis, 2002b, Studia dipterol. 9: 237. MEXICO.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Bickelomyia subcanescens** Naglis, 2002b, Studia dipterol. 9: 234. MEXICO.

Remarks: The published description of the holotype mentions a genitalic preparation, "No. SN2001-8, St. Naglis 2001". However, the specimen labeled as holotype does not have its terminalia dissected.

**Cheiromyia brevitarsis** Brooks in Brooks et al., 2010, Zootaxa 2333: 48. FRENCH GUIANA.
Paratypes: 4♂♂, French Guiana.

**Campsicnemus keokeo** Evenhuis, 2003, Bishop Mus. Occ. Pap. 75: 13. HAWAII.

**Campsicnemus pe** Evenhuis, 2003, Bishop Mus. Occ. Pap. 75: 23. HAWAII.

**Chrysotus baerti** Bickel & Sinclair, 1997, Ent. scand. 28: 248. ECUADOR.
Holotype ♂: ECU:Galapagos Isabela, St. Tomas 4-15.III.89, 300m humid forest, FIT Peck&Sinclair, 89-100/ HOLOTYPE Chrysotus baerti Bickel&Sinclair.
Paratypes: 1♂♂, 1♀, Ecuador.
Remarks: There are 2 additional specimens labeled as paratypes but their label data do not agree with the published data.

**Chrysotus pachystoma** Capellari, 2015, Neotrop. Entomol. 44: 55. BELIZE.
Holotype ♂♂: BELIZE: Belize District Caye Caulker Is. 6.xii.2001, L Masner, Yellow Pan Trap mangrove/ Chrysotus pachystoma Capellari HOLOTYPE.
Paratypes: 15♂♂, 1♀, Belize.


Paratypes: 4♂♂, 5♀♀, 1 partial specimen (sex unknown), Costa Rica.

**Hydrophorus pilitarsis** Malloch, 1919, Report of the Canadian Arctic Expedition 3: 51. USA.
Syntypes: 2♂♂, 1♀. HOLOTYPE Hydrophorus pilitarsis Mall. CNC No. 328/ Teller, July 29.13, Alaska/ Canadian Arctic Expedition F.J. 1913/ Hydrophorus pilitarsis Mall. Type.

Remarks: This entry updates the listing in Cooper & Cumming (1903). Malloch (1919) did not designate a holotype in the original description, so the three specimens in the CNC are syntypes.


Holotype ♀ Dumbea 100 m. NEW CALEDONIA Sept. 7. 1972 J.F. McAlpine/ HOLOTYPE Lapita dumbea Bickel.

Paratypes: 6♂♂, 8♀♀, New Caledonia.

Microphorella chillcotti Bickel & Sinclair, 1997, Ent. scand. 28: 246. ECUADOR.


Paratypes: 1♂♂, 2♀♀, Ecuador.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Medetera galapagensis Bickel & Sinclair, 1997, Ent. scand. 28: 246. ECUADOR.


Paratypes: 1♂♂, 2♀♀, Ecuador.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Mesorhaga falciunguis Bickel, 2007, Zootaxa 1411: 62. MEXICO.

Holotype ♀ ΒRES: ZOTA 1411: 62. MEXICO. Holotype ♀ ZOTA 1411: 62. MEXICO.

Paratypes: 1♂, Mexico.


Paratypes: 3♂♂, 4♀♀, British Columbia; 1♂, Alberta.

Oedematopiella nathaliae Naglis, 2001, Studia dipterol. 8: 201. COSTA RICA.

Holotype ♀ : CR: Chiriqui, 1km W of Natural Bridge, 4-11.IV.1997/ HOLOTYPE Oedematopiella nathaliae Naglis, 2001/ COSTA RICA.

Paratypes: 3♂♂, 2♀♀, Costa Rica.
DIPTERA TYPES IN THE CNC: SUPPLEMENT

**Thalassophorus arnaudi**

Paratypes: 4♂, 1♀, Chile.

**Scellus abditus** Hurley, 1995, Flies of the Neartic Region. Schweizerbart, Stuttgart. 6: 145. CANADA.


Paratypes: 6♂, 3♀, 1♀, Chile.

**Scellus asaroticus**


Paratypes: 4♂, 3♀, Saskatchewan; 5♂, 5♀, Alberta.

**Syntormon aotearoa**


Paratypes: 1♂, 1♀, New Zealand.

**Tachytrechus dios** Brooks in Brooks & Cumming, 2008, Zootaxa 1676: 11. PERU.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Telmaturgus robinsoni**


Holotype ♀: Lac Phillipe Que. 2. ix. 1968 45°37'N. 76° W J.R. Vockeroth/ HOLOTYPE ♀

*Telmaturgus robinsoni* J.B. Runyon.

Paratypes: 1♂, British Columbia; 3♂, 13♀, Ontario; 3♂, Quebec.


*Telmaturgus vockerothi* J.B. Runyon.

Paratypes: 4♂, 1♀, New Brunswick; 1♂, 1♀, Ontario.

**Viridigona albisigna** Naglis, 2003a, Studia dipterol. 9(2): 575. PERU.


Paratypes: 20♂, 5♂, Peru.

**Viridigona beckeri** Naglis, 2003a, Studia dipterol. 9(2): 582. BRAZIL.


**Viridigona bisetosa** Naglis, 2003a, Studia dipterol. 9(2): 572. CHILE.


Paratypes: 41♂, 4♀, Chile.

**Viridigona longicornis** Naglis, 2003a, Studia dipterol. 9(2): 570. CHILE.


Paratypes: 1♂, 1♀, Chile.

**Viridigona longiseta** Naglis, 2003a, Studia dipterol. 9(2): 593. BELIZE.


Paratypes: 2♂, 3♀, Belize.

**Viridigona magnifica** Naglis, 2003a, Studia dipterol. 9: 597. PERU.


Paratypes: 12♂, 3♀, Peru.

**Viridigona merzi** Naglis, 2003a, Studia dipterol. 9(2): 573. CHILE.


Paratypes: 7♂, 5♀, Chile.

**Viridigona ponti** Naglis, 2003a, Studia dipterol. 9: 589. BRAZIL.

**Diptera Types in the CNC: Supplement**

**Viridigona subrondinha** Naglis, 2003a, Studia dipterol. 9(2): 578. BRAZIL.
- Holotype ♂: Nova Teutonia, 27°11’S, 52°23’W Brazil, 300-500 m X.1944 Fritz Plaumann/ CNC National Collections/ Holotype
  - Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Viridigona tinalandia** Naglis, 2003a, Studia dipterol. 9(2): 587. ECUADOR.
- Holotype ♂: ECU., Pichincha 16 km. SE Sto. Domingo Tinalandia, 680 m. 15-30.VI.75, S.&J. Peck/ ex Malaise Trap mounted from alcohol/ Canadian National Collections/ Holotype
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

  - Paratypes: ♂♂, NEPAL.
    - Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen. Left wing of holotype is mounted on a paper slide mount pinned below specimen.

  - Paratypes: ♂♂, Mexico.

**Cladochaeta volsella** Grimaldi.
- Paratypes: 1♂, ECUADOR.

  - Paratypes: 1♂, Ecuador.

  - Paratypes: 1♂, Mexico.

**EMPIDIDAE**

- Holotype ♂: MEX. Chis. 7mi SE. San Cristobal 28.V.69 7000’ H.J. Teskey/ 34/ HOLOTYPE Cladochaeta ambidextra Grimaldi.
  - Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

  - Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

  - Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen. Left wing of holotype is mounted on a paper slide mount pinned below specimen.

  - Paratypes: ♂♂, NEPAL.

**Chelifera circinata** MacDonald, 1994, Proc. ent. Soc. Wash. 96: 248. USA.
  - Allotype ♂: Same data as holotype except with allotype label.
Chelipodozus araucariana
Chelipoda limitaria
Chelifera vockerothi
Chelifera subnotata
Chelipoda truncata

Paratypes: 3♀, British Columbia; 11♂, 5♀, Alaska.

Paratypes: 2♂, 2♀, North Carolina; 1♂, 2♀, Tennessee.

Paratype: 1♂, New York.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Chelipera vockerothi Vaillant & Chvála, 1973, Steenstrupia 3: 58. SPAIN.
Holotype ♀ (slide): N. slope Veleta Sierra Nevada SPAIN 2400m. / 25.VII.1960 J.R. Vockeroth/ HOLOTYPE Slide No./ Chelifera vockerothi Vaillant & Chvála HOLOTYPE F. VAILLANT.
Remarks: Cooper & Cumming (1993: 27) indicated that the type was still in the collection of F. Vaillant; it is now deposited in the CNC.

Allotype ♀: Same data as holotype except with allotype label and a date of "28.IV.1987".
Paratypes: 37♀, Georgia; 5♀, Texas.

Holotype ♀: Warwoman Cr. Ga Rabun Co. 1500' 31.VI.1957 J.G.Chillcott/ male gen. cleared by MacDonald Idena-illus./ HOLOTYPE Chelipoda truncata MACDONALD CNC No. 21334.
Paratypes: 1♂, Ontario; 1♂, Georgia; 3♂♀, North Carolina.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Chelipodozus araucariana Plant, 2008, Tijdschr. Ent. 151: 105. CHILE.
Holotype ♂: CHILE: Malloco, 14 Km E. Malalcahuello 3-31.XII.82570m A. Newton & M. Thayer/ Chelipodozus sp. 3 det. B.J. Sinclair 2007/ HOLOTYPE/ Chelipodozus araucariana Plant HOLOTYPE.
Paratypes: 43♂♂, 112♀♀, Chile.

Holotype ♂: CHILE, Malleco, 14 Km E. Malalcahuello 3-31.XII.821570m A. Newton & M. Thayer/ Chelipodozus sp. 3 det. B.J. Sinclair 2007/ HOLOTYPE/ Chelipodozus luteothorax Plant HOLOTYPE.

Holotype ♂: CHILE: Malleco, 14 Km E. Malalcahuello 3-31.XII.821570m A. Newton & M. Thayer/ Chelipodozus sp. 3 det. B.J. Sinclair 2007/ HOLOTYPE/ Chelipodozus chelipodiformis Plant HOLOTYPE.
Paratypes: 83♂♂, 41♀♀, Chile.

Clinocera amarilla Sinclair, 2008, The systematics of New World Clinocera Meigen: 49. CANADA.
Paratypes: 1♂, Alberta; 17♀♀, 16♀♀, British Columbia

Clinocera appalachia Sinclair, 2008, The systematics of New World Clinocera Meigen: 147. USA.
Paratypes: 6♂♂, 6♀♀, North Carolina; 5♂♂, 4♀♀, Tennessee.

Clinocera attenuata Sinclair, 2008, The systematics of New World Clinocera Meigen: 182. BRAZIL.
Holotype ♂: Cruzeiro Brazil XII.1962 F. Plauman/ HOLOTYPE Clinocera attenuata Sinclair.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Clinocera borkenti Sinclair, 2008, The systematics of New World Clinocera Meigen: 53. CANADA.
Paratypes: 20♂♂, 17♀♀, British Columbia; 3♂♂, 1♀, Oregon; 1♂, Washington.

Clinocera brevicauda Sinclair, 2008, The systematics of New World Clinocera Meigen: 126. USA.
Paratypes: 12♂♂, 18♀♀, Arizona

Clinocera brunea Sinclair, 2008, The systematics of New World Clinocera Meigen: 30. CANADA.
Paratypes: 4♂♂, 5♀♀, Ontario.

Clinocera caerulea Sinclair, 2008, The systematics of New World Clinocera Meigen: 34. USA.
Clinocera coloradensis Sinclair, 2008, The systems of New World Clinocera Meigen: 183. CHILE.
Paratypes: 1♂, Alberta; 6♀♀, 2♀♀, British Columbia; 15♀♀, 17♀♀, Oregon.

Clinocera chilensis Sinclair, 2008, The systems of New World Clinocera Meigen: 55. USA.
Paratypes: 12♀♀, 17♀♀, Colorado.

Clinocera daniellae Sinclair, 2008, The systems of New World Clinocera Meigen: 38. USA.
Paratypes: 2♀♀, 4♀♀, Oregon.

Clinocera disjuncta Sinclair, 2008, The systems of New World Clinocera Meigen: 90. CANADA.
Paratypes: 2♀♀, 2♀♀, Alberta; 1♂, British Columbia; 1♀, Quebec; 1♀, New Hamshire.

Clinocera femorata Sinclair, 2008, The systems of New World Clinocera Meigen: 96. CANADA.
Paratypes: 2♀♀, 2♀♀, British Columbia; 2♂♂, Oregon.

Clinocera isabellina Sinclair, 2008, The systems of New World Clinocera Meigen: 198. COSTA RICA.
Paratypes: 17♀♀, 27♀♀, Costa Rica; 2♂♂, 1♀, Venezuela.

Clinocera lapazensis Sinclair, 2008, The systems of New World Clinocera Meigen: 200. BOLIVIA.
Holotype ♀: BOLIV. Unduvai 3500-4000m. La Paz, Yungas 29.X.68. Penà/ HOLOTYPE Clinocera lapazensis Sinclair.
Remarks: Holotype missing aristalike stylus; hindlegs, left wing and genitalia stored in glycerine in a plastic microvial pinned below specimen.

Clinocera longicauda Sinclair, 2008, The systems of New World Clinocera Meigen: 39. USA.
Paratypes: 6♀♀, 5♂♂, Oregon.

Clinocera madera Sinclair, 2008, The systems of New World Clinocera Meigen: 135. USA.
Paratypes: 2♀♀, Arizona.

Clinocera meridana Sinclair, 2008, The systems of New World Clinocera Meigen: 202. VENEZUELA.
Holotype ♀: Venez. Merida S. Bolivar N.P. nr. La Aguada 3000m, 13.v.81 L. Masner/ HOLOTYPE Clinocera meridana Sinclair.
Paratypes: 12♀♀, Venezuela.

Paratypes: 3♀♀, 3♀♀, Costa Rica.

Clinocera obunca Sinclair, 2008, The systems of New World Clinocera Meigen: 141. COSTA RICA.
Paratypes: 1♀♀, 1♂, COSTA RICA.

Clinocera penai Sinclair, 2008, The systems of New World Clinocera Meigen: 210. CHI F.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Clinocera stigma Sinclair, 2008, The systems of New World Clinocera Meigen: 115. USA.
Dolichocephala borkenti
Paratypes: 3♀, Alberta; 13♂, 9♀♀, British Columbia; 10♂, 7♀♀, Washington.

Clinocera sublineata Sinclair, 2008, The systematics of New World Clinocera Meigen: 143. USA.
Paratypes: 16♂, 27♀♀, Georgia; 3♂, 9♀♀, Kentucky; 1♂, North Carolina; 2♂, 1♀, South Carolina; 5♂, 13♀♀, Tennessee; 3♂, West Virginia.

Clinocera woodi Sinclair, 2008, The systematics of New World Clinocera Meigen: 180. USA.
Paratypes: 8♂, 9♀♀, Alberta; 1♂, British Columbia; 2♂, 1♀, Alaska; 2♀♀, Wyoming.

Clinocera subsitans Sinclair, 2008, The systematics of New World Clinocera Meigen: 81. CANADA.
Paratypes: 27♂, 37♀♀, British Columbia.

Clinocera woodi Sinclair, 2008, The systematics of New World Clinocera Meigen: 144. COSTA RICA.

Dolichocephala borkenti Sinclair & MacDonald, 2013, Can. Ent. 144: 70. CANADA.
Paratypes: 15♂, 8♀♀, British Columbia; 2♀♀, Colorado.

Dolichocephala chillicotti Sinclair & MacDonald, 2013, Can. Ent. 144: 71. CANADA.
Paratypes: 15♂, 8♀♀, British Columbia; 2♀♀, Colorado.

Dolichocephala teskeyi Sinclair & MacDonald, 2013, Can. Ent. 144: 73. USA.
Paratypes: 2♂, 2♀♀, California.

Dolichocephala vockerothi Sinclair & MacDonald, 2013, Can. Ent. 144: 75. CANADA.
Paratypes: 1♂, British Columbia; 1♀, Newfoundland; 3♂, 4♀♀, Nova Scotia; 3♂, 1♀, Ontario; 2♂, Quebec; 1♂, 3♀♀, Saskatchewan; 1♂, Alaska; 2♀♀, Georgia; 9♂, 8♀♀, Indiana; 1♂, Michigan; 1♂, Ohio; 1♂, 1♀, Tennessee.

Dolichocephala woodi Sinclair & MacDonald, 2013, Can. Ent. 144: 78. CANADA.
Paratypes: 1♂, Northwest Territories; 1♂, 1♀, Russia.

Empis (Enoplempis) appalachicola Sinclair in Sinclair et al., 2013, Zootaxa 3736: 410. USA.
Paratypes: 8♂, 5♀♀, North Carolina.

Empis (Enoplempis) montywoodi Brooks in Sinclair et al., 2013, Zootaxa 3736: 425. CANADA.
Paratypes: 5♂, 4♀♀, North Carolina; 1♂, North Carolina/Tennessee.

Empis (Enoplempis) pectinata Sinclair in Sinclair et al., 2013, Zootaxa 3736: 433. USA.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Empis (Enoplempis) vockerothi Cumming in Sinclair et al., 2013, Zootaxa 3736: 448. CANADA.
Paratypes: 12♂, 11♀♀, Ontario; 1♂, 2♀♀, Virginia.

Holotype ♂: Devil's River Del Rio, TEXAS April 28 1959 J.F. McAlpine/ HOLOTYPE Hemerodromia ligata MACDONALD CNC No. 21335.
Allotype ♂: Same data as holotype except with allotype label.
Paratypes: 2♂, 4♀♀, Texas.

Allotype ♂: Same data as holotype except with allotype label.
Paratypes: 1♂, 3♀♀, California.
Allotype ♂: Same data as holotype except with allotype label.
Remarks: 5♂, 2♀♀, New Mexico.

Holotype ♀: Kerri, TX, April 14 1959 J. F. McAlpine/ HOLOTYPE Hemerodromia subchelata MACDONALD CNC No. 21337.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 7♂, 12♀♀, Texas.

Hesperempis anatolica Cumming & Brooks in Cumming et al., 2013, Can. Ent. 146: 182. USA.
Paratypes: 1♂, 1♀♀, North Carolina; 2♀♀, Georgia; 1♀♀, Kentucky.

Hesperempis vespera Cumming & Brooks in Cumming et al., 2013, Can. Ent. 146: 204 USA.
Paratypes: 1♂, 1♀♀, California.

Holotype ♀: CHILE: Chiloé I. Ahono Alto 70m March 1988 L.E. Penin, MT primary forest/ HOLOTYPE Hydropeza curiosa Sinclair & Plant.
Paratypes: 1♂, 3♀♀, Chile.

Kowarzia nevadensis Sinclair & Ivković in Ivković et al. 2014, Zootaxa 3786: 544. SPAIN.
Holotype ♀: SPAIN: Sierra Nevada Barranco Frío, Hoya Carlos 1560 m, 17.iv.2013 36°56’47”N, 03°23’34”W leg. M. Ivković/ HOLOTYPE Kowarzia nevadensis Sinclair & Ivković.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Macrostomus ciliaticosta Raphael & Cumming, 2006, Zootaxa 1136: 52. PERU.
Paratypes: 2♂, Peru.

Macrostomus penai Raphael & Cumming, 2006, Zootaxa 1136: 58. PERU.
Paratypes: 7♀♀, Peru; 2♀♀, Ecuador.

Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 2♀♀, Alabama; 2♂♂, South Carolina.

Holotype ♀: USA: KY: Indiana Tippecanoe Co. 5 km W. Lafayette May 10, 1979 J. F. MacDonald/ HOLOTYPE Neoplasta deyrupi MacDonald & Turner/ HOLOTYPE Neoplasta deyrupi MACDONALD & Turner CNC No. 21339.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 1♂, Virginia; 2♂♂, Georgia. Remarks: Date of collection of holotype and allotype was published as "May 10, 1992".

Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 5♂, Albert; 1♂, Colorado.

Ragas alpina Sinclair & Saigusa, 2001, Ent. Sci. 4: 511. USA.
Holotype ♀: USA: AZ: Cochise Co. Huachuca Mts 5354 Ash Cyn Rd 0.5mi. W Hwy92 12.XI-31.XII.93
N. McFarland 5100ft/ HOLOTYPE Ragas alpina Sinclair & Saigusa.
Paratypes: 7♂, 2♀♀, Arizona.

Ragas longicauda Sinclair & Saigusa, 2001, Ent. Sci. 4: 514. USA.
Holotype ♀: USA: AZ: Cochise Co. Huachuca Mts 5354 Ash Cyn Rd 0.5mi.W Hwy92 1.1-14.II.1994
N. McFarland 5100ft/ HOLOTYPE Ragas longicauda Sinclair & Saigusa.
Paratypes: 7♂, 6♀♀, Arizona.

Ragas murooi Sinclair & Saigusa, 2001, Ent. Sci. 4: 515. USA.
Holotype ♀: USA: AZ: Cochise Co. Huachuca Mts 5354 Ash Cyn Rd 0.5mi.W Hwy92 1.1-14.II.1994
N. McFarland 5100ft/ HOLOTYPE Ragas murooi Sinclair & Saigusa.
Paratypes: 1♂ (slide), 1♀♀, California.

Paratypes: 12♂, 8♀, British Columbia; 1♀, California.

Holotype ♀: Chalk River, Ont. 28.V. 1959 J.R. Vockeroth/ Holotypus Rhamphomyia contracta Barták.
Paratypes: 2♂♂, 2♀♀, Ontario.

Paratypes: 12♂♂, New Jersey.

Paratypes: 6♂♂, 6♀♀, British Columbia.

Rhamphomyia herschelli Malloch, 1919, Report of the Canadian Arctic Expedition 3: 47. CANADA.
Syntypes: 2♂♀.
Remarks: This entry updates the listing in Cooper & Cumming (1993). Malloch (1919) did not designate a holotype in the original description, so the two females in the CNC are syntypes.

Holotype ♀: Miners B., Ont. 26 V -1939 G.E. Shewell/ [blank pink label]/ Holotypus Rhamphomyia lataliobata Barták.
Paratypes: 12♂♂, Ontario.

Paratypes: 16♂♂, Quebec.

Paratypes: 19♂♂, Labrador.

Paratypes: 19♂♂, Alaska.
Remarks: Date of collection of holotype was published as "13.VII.1962".

Holotype ♀: Doolittle Ranch, 9800'Mt. Evans COLO. 3-VI.1960 J.G. Chillcott/ [blank pink label]/ Holotypus Rhamphomyia rythmica Barták.
Paratypes: 17♂♂, Colorado.

Paratypes: 9♂♂, Yukon Territory; 1♂♂, Colorado.

Paratypes: 17♂♂, British Columbia.

Paratypes: 18♂♂, Ontario.

Rhamphomyia (Rhamphomyia) bellinoxetosa Barták, 2007, Rev. suisse zool. 114: 418. ITALY.
Remarks: Holotype terminalia are stored in a plastic microvial pinned below specimen.

Rhamphomyia (Rhamphomyia) piedmontensis Barták, 2007, Rev. suisse zool. 114: 420. ITALY.

Rhamphomyia (Vockerothepis) chilcottiana Saigusa, 2012, Can. Ent. 144: 304. USA.
Holotype ♀: Highlands N.C. 3800’29.V.1957 J.R. Vockeroth/ at light during heavy rain/ Colot. 3.
Paratypes: 2♂♂, North Carolina; 1♂♂, 5♀♀, Virginia.
Remarks: Types not yet deposited in the CNC; label data taken from published description.
Paratypes: 1♂, North Carolina.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Trichoclinocera agilis Sinclair, 1994, Can. Ent. 126: 1024. USA.
Holotype ♀: USA:TN:Van Buren Co. Fall Creek. Falls St. PK. Cane Creek below falls 19.VI.1990 B.J. Sinclair, BS9029 ex. emergent rocks/ HOLOTYPE Trichoclinocera agilis Sinclair.
Paratypes: 1♂, Tennessee.

Holotype ♀: USA:OK:Latimer Co. 5mi N Wilburton Robber's Cave St. PK. 21.V.93; J.M. Cumming ex. Rough Canyon Creek/ HOLOTYPE Trichoclinocera falcata Sinclair.
Paratypes: 1♀, 1♂, Nova Scotia; 4♀, 8♂, Ontario.

Trichoclinocera dasycoxa Sinclair, 1994, Can. Ent. 126: 1026. CANADA.
Holotype ♀: Ottawa, Ont. 11.IX.1947 G.E. Shewell/ HOLOTYPE Trichoclinocera dasycoxa Sinclair.
Paratypes: 1♀, 1♂, Nova Scotia; 4♀, 8♂, Ontario.

Trichoclinocera cummingi Sinclair, 1994, Can. Ent. 126: 1028. CANADA.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 2♀, 1♂, Quebec; 1♀, Ontario; 11♀, 8♂, Georgia; 3♀, 2♂, Pennsylvania.

Paratypes: 14♀, 19♂, Nepal.

Trichoclinocera ozarkensis Sinclair, 1994, Can. Ent. 126: 1033. USA.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 39♀, 115♂, Arkansas; 10♀, 22♂, Illinois; 42♀, 45♂, Indiana; 12♀, 21♂, Oklahoma.

Trichoclinocera pectinifemur Sinclair, 1994, Can. Ent. 126: 1034. USA.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 20♀, 12♂, Connecticut; 40♀, 57♂, Ontario; 3♂, 64♀, Indiana; 13♂, 3♀, Pennsylvania; 3♂, 2♀, West Virginia.

Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 3♀, 3♂, Alberta; 7♂, 7♀, British Columbia; 12♂, 7♀, Wyoming.

Wiedemannia apicalis Sinclair, 1997, Studia dipterol. 4: 340. USA.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 2♂, 1♀, Colorado.

Wiedemannia daroi Sinclair & Ivković in Ivković et al., 2014, Zootaxa 3786: 545. SPAIN.
Holotype ♀: SPAIN: Sierra Nevada; Rio Aguas Blancas, Cenes de la Vega, 760 m, 13.v.2013 37°09’55’’N, 03°30’53’’W leg. M. Ivković/ HOLOTYPE Wiedemannia daroi Sinclair & Ivković
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Wiedemannia undulata Sinclair, 1997, Studia dipterol. 4: 348. USA.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 1♀, 1♂, Wyoming; 1♀, 1♂, British Columbia; 1♀, 4♂, Utah; 1♀, 1♂, 17♂, Washington; 4♂, 17♀, Wyoming.

Wiedemannia vexillum Sinclair, 1997, Studia dipterol. 4: 339. CANADA.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

EMPIDOIDEA Incertae sedis

Iteaphila bulbosa Sinclair in Sinclair & Shamshev, 2013, Zootaxa 3561: 7. CANADA.
Paratypes: 7♂♂, 27♀♀, Alberta; 7♀♀, Yukon Territory; 6♀♀, Alaska.

*Iteaphila nepalensis* Shamshev in Sinclair & Shamshev, 2013, Zootaxa 3561: 27. NEPAL.
Holotype ♂: 27°58’N, 85°00’E, Mal. tr. 1, 11,100’ 16 May 1967 Can. Nepal Expd./ HOLOTYPE
$Iteaphila$ nepalensis Shamshev.
Paratypes: 9♀♀, Nepal.

*Iteaphila pumila* Sinclair in Sinclair & Shamshev, 2013, Zootaxa 3561: 40. USA.
Paratypes: 25♂♂, 5♀♀, Northwest Territories; 30♂♂, 12♀♀, Alaska.

*Iteaphila sicamous* Sinclair in Sinclair & Shamshev, 2013, Zootaxa 3561: 45. CANADA.
Holotype ♂: 8 km E. Sicamous, B.C. 8-VI-1992 A. Borkent CD1419/ HOLOTYPE *Iteaphila* sicamous Sinclair.
Paratype: 1♂, British Columbia.

**HELEOMYZIDAE**

*Anorostoma hinei* Garrett, 1925b, Seventy new Diptera, 4. USA.
Holotype ♂: Katmai Alaska July '17/ Jas S Hine Collector/ HOLO TYPE ANOROSTOMA HINEI ♂ C Garrett C. B. D. GARRETT.
Paratypes: 2♀♀, Alaska.
Remarks: This entry updates the listing in Cooper & Cumming (2000), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

Paratypes: 6♂♂, 7♀♀, Quebec.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

*Pseudoleria media* Garrett, 1925b, Seventy new Diptera, 3. USA.
Paratypes: 3♂♂, Kansas.
Remarks: This entry updates the listing in Cooper & Cumming (2000), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Holotype terminalia are mounted on a microscope slide.

*Pseudoleria parvitarsus* Garrett, 1925b, Seventy new Diptera, 2. CANADA.
Paratypes: 1♂♂, British Columbia; 1♂, Montana.
Remarks: This entry updates the listing in Cooper & Cumming (2000), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Holotype terminalia are mounted on a microscope slide.

*Pseudoleria robusta* Garrett, 1925b, Seventy new Diptera, 2. CANADA.
Holotype ♂: COPU N/ RADIUM B.C. 20 IX. C GARRETT/ 5049 HYPO/ HOLO TYPE PSEUDOLERIA ROBUSTA ♂ C Garrett C. B. D. GARRETT.
Allotype: ♂♂ Same data as holotype except with allotype label.
Paratypes: 2♀♀, British Columbia.
Remarks: This entry updates the listing in Cooper & Cumming (2000), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Holotype terminalia are mounted on a microscope slide.

*Pseudoleria vulgaris* Garrett, 1925b, Seventy new Diptera, 2. USA.
Holotype ♂: ColfaxWASH 4 Jul 1920 ALMelander/ 5229 HYPO/ HOLO TYPE PSEUDOLERIA VULGARIS ♂ C Garrett C. B. D. GARRETT.
Allotype: ♂♂ ColfaxWASH 4 Jul 1920 ALMelander/ 5564 VAG/ ALLOTYPE ♂ VULGARIS.
Paratypes: 2♀♀, British Columbia; 2♀♀, Washington; 1♂, Idaho; 1♂, Wyoming.
Remarks: This entry updates the listing in Cooper & Cumming (2000), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Holotype terminalia are mounted on a microscope slide.

Neotype ♂: ECUADOR: Galapagos Islands Isla Santa Fe, arid zone, 10-50m, 4-6.iv.1989, Peck & Sinclair malaise (89–186)/ NEOTYPE ♂ Rhicnoessa costalis Coquillet Foster & Mathis CNC.
Remarks: The neotype of *Rhicnoessa costalis* Coquillet was designated by Foster & Mathis (2012).

*Spanoparia walkeri* Garrett, 1925b, Seventy new Diptera, 3. CANADA.
Allotype: ♂♂ Same data as holotype except with allotype label.
Paratype: 1♂, British Columbia.
Remarks: This entry updates the listing in Cooper & Cumming (2000), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

**DIPTERA TYPES IN THE CNC: SUPPLEMENT**

Holotype ♂: Daggett, Cal. 14 IV 1955 W.R.M. Mason/ 
HOLOTYPE ♂ Trioxocelis gigapeza Foster & 
Mathis CNC. 
Paratypes: 2♂, 1♀, California. 
Remarks: Holotype abdomen is stored in glycerine in a 
glass microvial pinned below specimen.

**HILARIMORPHIDAE**

CANADA. 
Holotype ♂: Yoho Natl. Pk., B.C. 22-VII-55 R. Coyles/ 
Watpa Lake 5200 feet/ PARATYPE Hilarimorpha 
stena Webb/ PARATYPE Hilarimorpha stena 
Webb CNC No.18521/ Actually HT!! det. B.J. 
Sinclair 2014/ HOLOTYPE CNCNo. 
Remarks: Holotype terminalia are stored in glycerine in a 
glass microvial pinned below specimen.

**HIPPOBOSCIDAE**

COLUMBIA. 
Holotype ♀ (in alcohol): Colombia; Departamento 
Santander, El Hoyo de Pajaros near San Gil. 15- 
X-1966 C. J. Marinkelle. ex Vampyrops helleri 
Peters/ Basilia Astochia HOLOTYPE ♀ CNC 
No.11,548. 
Remarks: The left legs of the holotype are mounted on a 
slide.

CHILE. 
Holotype ♂ (in alcohol): Near Valdivia, Valdivia Chile 
July 16 or Aug. 12, 1968. C. Hoffens V. ex Pudu 
pudui Molina/ HOLOTYPE CNC No. 11034 
Lipoptena pudui P.& M/ HOLOTYPE CNCNo. / 
♀. 
Allotype ♀ (in alcohol): Same data as holotype except 
for allotype label.

*Trichobius neotropicus* Petersen & Hůrka, 1974, Can. Ent. 106: 
1054. DOMINICAN REPUBLIC. 
Holotype ♂ (in alcohol): Dominican Republic Cueva 
Sin Nombre -Sanchez, 26 Sept. 1968 F. H. 
Armstrong ex Macrotus waterhousii waterhousii 
Grey #16/ HOLOTYPE ♀ CNC No. Trichobius 
neotropicus Petersen and Hurka/ Holotype ♂ 
Trichobius neotropicus. 
Allotype ♂ (in alcohol): Same data as holotype except 
for allotype labels. 
Paratypes: 29♂, 18♀♀, Dominican Republic (in 
alcohol).

**HYBOTIDAE**

JAPAN. 
Holotype ♂: Japan, Hokkaido, Daisetsuzan Nt. Pk., 
Paratypes: 2♂, Japan. 
Remarks: Types not yet deposited in the CNC; label 
data taken from published description.

*Chersodromia dominicana* Solórzano Kraemer, Sinclair & 
Cumming, 2005, Zootaxa 37: 42. DOMINICAN 
REPUBLIC. 
Holotype ♂ in amber: HOLOTYPE Chersodromia 
dominicana Solórzano Kraemer, Sinclair & 
Cumming. 
Remarks: Type locality in Dominican Republic 
unknown; found in jewelry pendant.

*Chersodromia floreana* Sinclair & Cumming, 2013, Tijdschr. Ent. 
156: 129. ECUADOR. 
Holotype ♂: ECU: Galap, Floreana Pt. Cormorant, 
littoral white sand beach 26.III.1989 BJ Sinclair/ 
HOLOTYPE Chersodromia floreana Sinclair & 
Cumming. 
Paratypes: 47♂, 46♀♀, Ecuador.

*Chersodromia isabela* Sinclair & Cumming, 2013, Tijdschr. Ent. 
156: 133. ECUADOR. 
Holotype ♂: EQU: Galap, Isabella Pto. Villamil, littoral 
7.III.1989, sweeping sand beach, BJ Sinclair/ 
HOLOTYPE Chersodromia isabela Sinclair & 
Cumming. 
Paratypes: 2♂, 7♀♀, Ecuador.

BOLIVIA. 
Holotype ♂: BOLIVIA: LaPaz, Chulumani, Apa-Apa 
16°22’S, 67°30’W, 1-4.V.1997 1800m, L. Masner 
s.s. B-09/ Holótipo Chvalaea boliviana Ale- 
Rocha/ [white label with microslide wing mount] 
CNC. 
Remarks: Holotype abdomen is stored in glycerine in a 
plastic microvial pinned below specimen. Left 
wing of holotype mounted on microslide wing mount 
in amber: HOLOTYPE Chersodromia 
*dominican* Solórzano Kraemer, Sinclair & 
Cumming, 2005, Zootaxa 37: 42. DOMINICAN 
REPUBLIC. 
Holotype ♂ in amber: HOLOTYPE Chersodromia 
dominicana Solórzano Kraemer, Sinclair & 
Cumming. 
Remarks: Type locality in Dominican Republic 
unknown; found in jewelry pendant.

*Leptopezella masneri* Sinclair & Cumming, 2007, Zootaxa 1629: 
31. BOLIVIA. 
Holotype ♂: BOLIVIA: LaPaz, Chulumani, Apa-Apa 
16°22’S, 67°30’W, 1-4.V.1997 1800m, L. Masner 
s.s. B-09/ HOLOTYPE Leptopezella masneri 
Sinclair & Cumming. 
Paratypes: 7♂, 1♀, Guatemala.

*Oropezella arcuata* Ale-Rocha & Freitas-Silva, 2014, Zootaxa 
3852: 506. COSTA RICA.
Oropezella granulosa Ale-Rocha & Freitas-Silva, 2014, Zootaxa 3852: 513. COSTA RICA.

Holotype ♀: C.R. Heredia, Vara Blanca, Finca Georgina 2100m, IX.89, P. Hanson [blank red label]. Holótipo Oropezella arcuata Ale-Rocha, R. & Freitas-Silva, R.

Paratypes: 2♂, Costa Rica.

Oropezella costaricensis Ale-Rocha & Freitas-Silva, 2014, Zootaxa 3852: 513. COSTA RICA.

Holotype ♀: CR: Puntarenas R.F. Golfo Dulce 24km W. Piedras Blancas 200m. XI.90 P. Hanson/ Holótipo Oropezella granulosa Ale-Rocha, R. & Freitas-Silva, R.

Remarks: Holotype abdomen is stored in glycerine in a glass microvial pinned below specimen. Left wing of holotype mounted on microslide pinned below specimen.

Platypalpus cummingi Shamshev & Grootaert, 2012, Zootaxa 3525: 42. USA.


Paratypes: 3♂, 1♀, California; 1♂, Mexico.

Platypalpus submicrophona Shamshev & Grootaert, 2012, Zootaxa 3525: 44. USA.


Allotype ♀: Same data as holotype except with allotype label.

Paratypes: 2♂, 2♀, Virginia; 4♂, 5♀, New York; 3♂, 5♀, Maryland; 3♂, 1♀, Georgia; 1♂, Tennessee; 1♀, North Carolina; 1♀, Massachusetts.

Stilpion limitaris Cumming in Cumming & Cooper, 1992, Can. Ent. 124: 975. CANADA.


Allotype ♀: Same data as holotype except with allotype label and dated “9.29 V, 1987”.

Paratypes: 36♂, 42♀, Georgia; 1♂, 1♀, Florida; 1♂, 3♀, Massachusetts; 1♂, Texas.

Inbiomyiidae
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

**IRONOMYIIDAE**


Canada.


Remarks: This species was inadvertently listed under the family Phoridae by Cooper & Cumming (1993: 36)

**KEROPLATIDAE**


Holotype ♂: Tingomaria Huanuco, PERU 5-9.VI.1963 L. Pena. 800m./ Vockerothia frontalis n.sp. ♂ holotype L. Matile det. 1981./ HOLOTYPE.

Remarks: The holotype is in poor condition. The left wing and some leg parts are glued to uppermost label. The head, most of thorax and additional leg parts are stored in glycerine in glass microvial pinned below specimen. The terminalia are missing.

**LAUXANIIDAE**


Holotype ♂: MALAYA, Pahang Ringlet 1150m 12.I.1990 J.R. Vockeroth/ HOLOTYPE

Paratypes: 3 ♂♂, 3 ♀♀, Malaya.


Paratype: 1 ♂, Singapore.


Paratypes: 1 ♂, 1 ♀, Singapore.


Holotype ♀: NEVADA 12 mi. SW. Wells 11.VII.61 8400' J.G. Chillcott/ HOLOTYPE

Lauxania glabrifrons Perusse and Wheeler.

Paratypes: 3 ♂♂, 3 ♀♀, British Columbia; 1 ♂, 8 ♀♀, Nevada; 1 ♂, 4 ♀♀, Colorado; 2 ♂♂, Utah.

**LIMONIIDAE**

*Symplecta (Symplecta) edlundae* Starý & Brodo, 2009, Can. Ent. 141: 19. CANADA.


Paratypes: 2 ♂♂, British Columbia; 1 ♂, Northwest Territories.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**LONCHOPTERIDAE**


Paratypes: 2 ♂♂, British Columbia; 1 ♂, Northwest Territories.

**MILICHIIDAE**

*Milichiella abditoargentea* Brake, 2009, Zootaxa 2188: 107. ARGENTINA.


Paratypes: 1 ♂, Argentina.

*Milichiella argentinae* Brake, 2009, Zootaxa 2188: 114. ARGENTINA.


Paratypes: 4 ♂♂, Argentina.
BRAZIL.
Holotype ♂: Brazil, Manaus Amaz., 2.III.73
B.V.Peterson/ HOLO- TYPE/ Brake 0598/
Milichiella griseo-macula Brake, det. 1. Brake
2009, photogr., © HOLOTYPE ID: 3217876.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

JAMAICA.
Holotype ♂: JAMAICA, Try. Good Hope, VIII 8 1966
H.F.Howden/ HOLO- TYPE/ Brake 0631/
Milichiella jamaicen-sis Brake, det. 1. Brake 2009,
illus. ©, HOLOTYPE ID: 3217238.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Milichiella laselvae Brake, 2009, Zootaxa 2188: 131. COSTA RICA.
Holotype ♂: C.R., Heredia Pto Viejo-La Selva 17-20-
II-1980, G. +M. Wood/ Milichiidae sp. Det
Paratypes: 2♂, Arizona.

Milichiella santacatalinae Brake, 2009, Zootaxa 2188: 25. USA.
Holotype ♂: Sta.CatalinaMts.,ARIZ. Molino Basin
4400' VII.8.1972/ T.P.Sluss Collector/
Milichiella sp Det. J.F. McAlpine 19 73-160/
Paratypes: 2♂♂, 7 Mi. E. Griffith, Ont., 31.v.1983, B.E.
Kerr, 2011, ZooKeys 137: 46. CANADA.
Paratypes: 8♂♂, 10♀♀, Arizona.

Acomoptera crispa Kerr, 2011, ZooKeys 137: 46. CANADA.
11G483 [label with genitalic mount]/
HOLOTYPE 11G483 Acomoptera crispa © P.H. Kerr 2011.
Remarks: Holotype terminalia are mounted on a card marked “11G483” pinned below specimen.

NEPAL.
Holotype ♂: 28°00′N, 85°00′E, Mal. tr.7, 9900′ 20. May
Paratypes: 6♂♂, Nepal.
Remarks: Holotype terminalia are stored in glycerine in a plastic depression strip pinned below specimen.

Muscidae

ETHIOPIA.
Holotype ♂: The Divide,n.w. of Addis Ababa
ETHIOPIA 3100m/ 16.168 J.W.Boyes/ slide e z
12/ Holotypus Morellia ♂ muscaoides n.sp. det.
E. Zielke 1972.
Remarks: The original entry for this species in Cooper & Cumming (2000: 80) did not mention that the female holotype ovipositor slide ez 12 is missing from the CNC.

ECUADOR.
Holotype ♂: ECU:Galapagos Isabela, Villamil
4KmNW, 2-15.III.89 arid forest malaise, 20m
Peck&Sinclair, 89-90/ Philornis isla Couri det
M.S. Couri/ Holotipo.
Paratypes: 12♂♂, 22♀♀, Ecuador.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
Anaclileia vallis Coher, 1995, Ent. News 106: 258. CANADA.
Remarks: Holotype terminalia and wing are mounted in glycerine in a plastic microvial pinned below specimen.

Anaclileia vockerothi Bechev, 1990, Reichenbachia 28: 71. USA.
Holotype ♀: Highlands, N.C. 3800' 21.VI.1957 J.R.
Vockeroth/ Anaclileia vockerothi Bechev/ HOLOTYPE.
Paratypes: 2♂♂, North Carolina; 1♂, Georgia.
Remarks: The holotype terminalia are stored in glycerine in a plastic depression strip pinned below specimen.

Remarks: The holotype terminalia are mounted on a microscope slide. Consistently throughout Coher's paper the generic name Anaclileia was misspelled as Anaclileia.

CANADA.
Allotype ♀: Same data as holotype except collected on 24.VI., and with allotype label.
Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The terminalia of the holotype are mounted on microscope slide No. 5309. Holotype and allotype out on loan to E.I. Coher since 1999.

CANADA.
Holotype ♀: Cranbrook, B.C., 10.VII./ HYPO 528Y/ HOLO TYPE CORDYLA VIRES [sic] C Garrett C.B.D. GARRETT.
Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The terminalia of the holotype are mounted on microscope slide No. 528Y. Holotype out on loan to E.I. Coher since 1999.

Ctenoceridion (Gymnoceridon) inexpectatum Matile & Duret, 1987, Bull. Soc. Ent. Fr. 9-10: 302, MEXICO.
Holotype ♂: MEXICO, Chis. San Cristobal de Las Casas7087 25.V.1969 B.V. Peterson/ C.290/
Ctenoceridion (Gymnoceridon) inexpectatum Matile & Duret 1986/ HOLOTYPE Ctenoceridion (Gymnoceridon) inexpectatum Matile & Duret CNC No.
Remarks: Holotype antenna, wing and genitalia preparations are mounted on a separate pin.

CANADA.
Paratypes: 3♀♀, British Columbia.
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Two additional CNC paratypes from British Columbia (1♂, 1♀), have been out on loan since 1979, and are provisionally housed in the National Museum in Prague, Czech Republic.

Dicosia affinis Garrett, 1925b, Seventy new Diptera, p. 12.
CANADA.
Paratypes: 3♀♀, British Columbia.
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

CANADA.
Remarks: The holotype and allotype have been out on loan since 1979, and are provisionally housed in the National Museum in Prague, Czech Republic.

CANADA.
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

CANADA.
Remarks: The holotype female has been out on loan since 1979, and is provisionally housed in the National Museum in Prague, Czech Republic.

Dicosia setosa Garrett, 1925b, Seventy new Diptera, p. 12.
CANADA.
Remarks: The holotype, allotype and paratypes have been out on loan since 1979, and are provisionally housed in the National Museum in Prague, Czech Republic.

Dicosia similis Garrett, 1925b, Seventy new Diptera, p. 12.
CANADA.
DIPTERA TYPES IN THE CNC: SUPPLEMENT

**Type Docosia similis** ♂ C Garrett C.B.D. GARRETT.

Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

*Dicosia vierecki* Garrett, 1925b, Seventy new Diptera, p. 13. CANADA.


Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The apical portion of the abdomen and terminalia of the holotype are mounted on microscope slide No. 5182.

*Dynatosoma obscurum* Zaitzev, 1988, Vest. Zoologii 1988: 34. USA.


Remarks: Holotype terminalia are stored in glycerine in a plastic depression slide pinned below specimen.


Remarks: Holotype terminalia are stored in glycerine in a plastic depression slide pinned below specimen. Date of collection of holotype was published as “3.VII.1957”.


Remarks: The holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.

*Monoclona simplex* Garrett, 1925a, Sixty-one new Diptera, p. 9. CANADA.


Remarks: Both the holotype and paratype are from Capilano in North Vancouver, British Columbia; however, Garrett (1925a) erroneously listed the type locality as “Caulfields” likely referring to Caulfield, in West Vancouver.

*Leia cephalia* Garrett, 1925b, Seventy new Diptera, p. 11. CANADA.


Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were stored in glycerine in a plastic microvial pinned below specimen.

*Monoclona simplex* Garret 1925a, Sixty-one new Diptera, p. 9. CANADA.


Remarks: Both the holotype and paratype are from Capilano in North Vancouver, British Columbia; however, Garrett (1925a) erroneously listed the type locality as “Caulfields” likely referring to Caulfield, in West Vancouver.

*Leia cephalia* Garrett, 1925b, Seventy new Diptera, p. 11. CANADA.


Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were stored in glycerine in a plastic microvial pinned below specimen.
considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).

**Mycomya alticola** Väisänen, 2013b, Zoootaxa 3737: 138. NEPAL.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Mycomya elephas** Väisänen, 2013a, Zoootaxa 3666: 310. NEPAL.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

**Mycomya cuon** Väisänen, 2013a, Zoootaxa 3666: 141. NEPAL.
Paratypes: 1♂, 2♀, Nepal.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Mycomya ducula** Väisänen, 2013b, Zoootaxa 3737: 141. NEPAL.
Paratypes: 1♂, 6♀, Nepal.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Mycomya elephas** Väisänen, 1984, Annls ent. fenn. 50: 115. USA.
Holotype ♂: Thousand Palms, Cal. 6-III-1955 W. R. Richards/ Holotypus Mycomya elephas Väisänen/ Mycomya elephas n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE Mycomya elephas Väisänen CNC No. 21919.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Mycomya sus** Väisänen, 1996, Entomologica fenn. 7: 125. NEPAL.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

**Mycomya ikar** Väisänen, 1996, Entomologica fenn. 7: 110. NEPAL.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

**Neuratelia abrevena** Garrett, 1925b, Seventy new Diptera, p. 11. CANADA.
Allotype ♂: Same data as holotype except with allotype label.
Remarks: This entry updates the listing in Cooper & Cumming (1993: 82).

**Sceptonia johannseni** Garrett, 1925b, Seventy new Diptera, p. 15. CANADA.
Remarks: Holotype missing part of left front leg, terminalia stored in glycerine in a plastic microvial pinned below specimen. Type not yet deposited in the CNC; label data taken from published description.
Diptera Types in the CNC: Supplement

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Holotype ♀: MARYSVILLE, B.C., 14.VII., C. GARRETT/ 5255 HYPO/ HOLO TYPE SCEPTONIA JOHANSEN C Garrett, C.B.D. GARRETT.

Allotype ♀: MARYSVILLE, B.C., 14.VII., C. GARRETT/ ALLO TYPE SCEPTONIA JOHANSEN C Garrett, C.B.D. GARRETT.

Paratypes: 7♂, 7♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The terminalia of the holotype are mounted on microscope slide No. 5253.


Paratypes: 5♂, 3♀, Ontario.

Remarks: Holotype mounted in Canada balsam on slide.


Lectotype ♀: Savary Id., 10.4.17.[on mount]/ Tetragonuera marceda R.S. Sherman, ♀ TYPE, See letter [handwritten], C.B.D. Garrett/ HOLOTYPE, Megophtalmidia [sic] marceda, (Sherman) 1921 [”Sherman 1921” on underside]/ Megophtalmidia [sic] marceda (Sherman) 1921, 98 EIC [handwritten label created by E.I. Coher]/ Lectotype, Ectrepesthoneura marceda (Sherman, 1921), P.H. Kerr, xii.2013.

Paralecotypes: 1♂, 3♀, British Columbia.


Allotype ♀: 7 mi N Entebbe, nr Lk Victoria UGANDA March 2 1972 H. Falke 1135m/ ALLOTYPE/ Truplaya erythropyga n.sp. ♀ allotype L. Matile det. 1977.

Paratypes: 5♂, 3♀, Uganda.

Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.

Truplaya (Truplayella) falkei Matile, 1978, Annls. Soc. Ent. Fr. (N.S.) 14: 472. UGANDA.


Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.

Zygomyia bifasciata Garrett, 1925b, Seventy new Diptera, p. 15. CANADA.


Allotype ♀: Cranbrook BC, 2. VI/ ALLO TYPE ZYGOMYIA BIFASCIATA ♂ C Garrett C.B.D. GARRETT.

Paratypes: 3♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The holotype is stored in glycerine in a plastic microvial. The terminalia of the holotype are mounted on microscope slide No. 1400.

Zygomyia christata Garrett, 1925b, Seventy new Diptera, p. 15. CANADA.


Paratype: 1♂, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The holotype is stored in glycerine in a plastic microvial. The terminalia of the holotype are mounted on microscope slide No. 760.

Zygomyia christulata Garrett, 1925b, Seventy new Diptera, p. 15. CANADA.


Paratypes: 2♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The holotype is stored in glycerine in a plastic microvial. The terminalia of the holotype are mounted on microscope slide No. 642. The allotype has broken off the mount and is lost.

Zygomyia coxale Garrett, 1925b, Seventy new Diptera, p. 15. CANADA.
DIPTERA TYPES IN THE CNC: SUPPLEMENT

**Zygomyia coxale**


Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The terminalia of the holotype are mounted on microscope slide No. 1200. The remainder of holotype is badly damaged and mostly missing with the exception of one wing, a partial leg and part of the thorax.

**Zygomyia pilosa**


*Paratype*: 1♀, British Columbia.

Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). The terminalia of the holotype are mounted on microscope slide No. 840.

**MYTHICOMYIIDAE**

**Pieza sinclairi**

Evenhuis, 2002, Zootaxa 36: 22. ECUADOR.


*Allotype♀*: Same data as holotype except with allotype label.

Remarks: Types not yet deposited in the CNC; label data taken from published description.

**OREOLEPTIDAE**

**Oreoleptis torrenticola**

Zloty, Sinclair & Prichard, 2005, Syst. Ent. 30: 256. CANADA.


*Paratype*: 1♀, Alberta.

Remarks: Holotype antennae are stored in glycerine in a plastic microvial pinned below specimen. The pupal exuviae of the holotype is stored in alcohol.

**PARALEUCOPIDAE**

**Mallochianamyia cladostyla**

Wheeler, 2000a, Insect Syst. Evol. 31: 212. CHILE.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

**Mallochianamyia fenestra**

Wheeler, 2000a, Insect Syst. Evol. 31: 214. CHILE.

*Holotype♂*: Puerto Aysen, Aysen, CHILE, 30.i.1959 L. Peña. 1050m/ HOLOTYPE Mallochianamyia fenestra Wheeler.

*Paratypes*: 3♀♀, Chile.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

**Mallochianamyia flavitibia**

Wheeler, 2000a, Insect Syst. Evol. 31: 216. CHILE.


*Paratypes*: 1♂, 2♀♀, Chile.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

**Mallochianamyia furcata**

Wheeler, 2000a, Insect Syst. Evol. 31: 217. CHILE.


*Paratypes*: 1♂, 2♀♀, Chile.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

**Mallochianamyia latigena**

Wheeler, 2000a, Insect Syst. Evol. 31: 216. CHILE.


*Paratypes*: 1♀, 2♀, Chile.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

**Mallochianamyia latigenu**

Wheeler, 2000a, Insect Syst. Evol. 31: 217. CHILE.

*Holotype♂*: CHILE: Rio Blanco, Malleco, CHILE, 30.i.1959 L. Peña. 1050m/ HOLOTYPE Mallochianamyia latigenu Wheeler.

*Paratypes*: 3♀♀, 1♀, Chile.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).
Apocephalus gracilis Wheeler, 2000a, Insect Syst. Evol. 31: 218. CHILE.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

Paratype: 1♂, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

Mallochianamyia truncata Wheeler, 2000a, Insect Syst. Evol. 31: 220. CHILE.  
Paratypes: 2♂♂, 1♀, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

Mallochianamyia setosa Wheeler, 2000a, Insect Syst. Evol. 31: 221. CHILE.  
Paratypes: 1♂, 1♀, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Placed in Paraleucopidae by Wheeler (2010).

Mallochianamyia pittadearaujoi Brown, 2014, Zootaxa 3857: 565. MEXICO.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Apocephalus leptotarsus Brown, 1993b, Syst. Ent. 18: 224. MEXICO.  
Paratype: 1♂, Mexico.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Apocephalus mexacanthus Brown, 2014, Zootaxa 3857: 558. MEXICO.  
Holotype ♀: MEXICO: Chiapas: San Cristóbal de Las Casas, 16.73°N, 92.67°W, 2200m, 25.vi.1969, W.Mason, Malaise trap [LACM ENT 007709].  
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Apocephalus micrepelis Brown, 1993b, Syst. Ent. 18: 224. DOMINICAN REPUBLIC.  
Holotype ♀: DOMINICAN REPUBLIC: La Vega. P.N.Armando Bermudez 1000m, 12-22.i.1989.L.Masner Malaise déciduous forest/ [white label with "LACM ENT 001211" and barcode on underside]/ HOLOTYPE CNC Apocephalus (Mesophora) micrepelis Brown.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Apocephalus anfractus Brown, 1993b, Syst. Ent. 18: 220. ECUADOR.  
Paratype: 1♂, Ecuador.

Apocephalus brunnipes Brown, 1993b, Syst. Ent. 18: 221. CANADA.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Apocephalus gracilis Brown, 1993b, Syst. Ent. 18: 221. COSTA RICA.  
Holotype ♀: COSTA RICA : Puntarenas Monteverde, 1700m 28.V.-1.VI.1988 BV.Brown malaise, stunted forest/ [white label with "LACM ENT 001215" and barcode on underside]/ HOLOTYPE CNC Apocephalus (Mesophora) gracilis Brown.

Apocephalus pristinus Brown, 1993b, Syst. Ent. 18: 221. USA.  
Holotype ♀: Forsyth,Ga. 2.VI.1970/ [white label with "LACM ENT 001811" and barcode on underside]/ HOLOTYPE CNC Apocephalus (Mesophora) pristinus Brown.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Apocephalus prolatus Brown, 1993b, Syst. Ent. 18: 225. MEXICO.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Apocephalus trisetus Brown, 1993b, Syst. Ent. 18: 220. COSTA RICA.  
Holotype ♀: COSTARICA: Monteverde 29.i.1980 1500m WR Mason,Cloud. For./ [white label with "LACM ENT 001208" and barcode on underside]/
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underside/ HOLOTYPE Apocephalus (Mesophora) trisetus Brown.
Remarks: Holotype abdomen are stored in glycerine in a plastic microivial pinned below specimen.

MEXICO.
Holotype ♂: MEXICO, Chis. San Cristobal de Las Casas 7087' 18.19.V.1969 B.V. Peterson [white label with "LACM ENT 001207" and barcode on underside]/ HOLOTYPE Apocephalus (Mesophora) tritarsus Brown/ genitalia extremely faint, overcleared PTs are much better.
Paratypes: 4♂, Mexico.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

ECUADOR.
Holotype ♂: Masham Twp. QUE. Gatineau Co. 20-24 V.1974 D.M. Wood [white label with "LACM ENT 001206" and barcode on underside]/ HOLOTYPE CNC Apocephalus (Mesophora) unitarsus Brown/ genitalia extremely faint, overcleared PTs are much better.
Paratypes: 3♀, 1♂, Quebec; 5♂, 1♀, Ontario; 1♀, New York.

Cootiphora angustata Brown, 1993a, Mem. Ent. Soc. Wash. 10: 136. PANAMA.
Holotype ♂ (slide): PANAMA: 4 km N of Hartmann’s Finca Chiriqui B. Gill 28.VI-3.VII. 1981/ HOLOTYPE Cootiphora angustata Brown CNC.
Paratypes: 4♂, 1♀, Quebec; 5♂, 1♀, Maryland; 1♂, New York.

Phylogeny 65: 192. ECUADOR.
CANADA.
Paratypes: 5♂, 3♀, Ontario; 2♂♀, Nova Scotia.

PIOPHILIDAE

Protopiophila peckorum Disney & Sinclair, 2008, Tijdschr. Ent. 151: 122. ECUADOR.
Holotype ♂ (slide): Megaselia edensis ♂ HOLOTYPE/ ECUADOR, GALAPAGOS. Santa Cruz, Pto. Ayora, El Eden, 00°44'43.9"S 090°18'70.3"W; 30 Oct. 2006. Malaise T. Vacio P. Lincango E. Lomas 31-80.
Paratypes: 2♂♂, 1♀, Ecuador.

Megaselia edensis Disney in Disney & Sinclair, 2008, Tijdschr. Ent. 151: 122. ECUADOR.
Holotype ♂ (slide): Megaselia edensis ♂ HOLOTYPE/ ECUADOR, GALAPAGOS. Santa Cruz, Pto. Ayora, El Eden, 00°44'43.9"S 090°18'70.3"W; 30 Oct. 2006. Malaise T. Vacio P. Lincango E. Lomas 31-80.
Paratypes: 3♂♂, 1♀, Ecuador.

PIPUNCULIDAE

CANADA.
Paratypes: 1♂, New Brunswick; 1♂, 9♀♀, Ontario; 1♂, Virginia.
Remarks: Holotype terminalia are stored in glycerine in a plastic microivial pinned below specimen.

Remarks: Type not yet deposited in the CNC; label data taken from published description.

Paratypes: 2♂♂, Mexico.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Dohrniphora tritarsus Brown, 1993b, Syst. Ent. 18: 227.
MEXICO.
Holotype ♂: HOLOTYPE CNC Apocephalus (Mesophora) unitarsus Brown.
Remarks: Holotype abdomen are stored in glycerine in a plastic microivial pinned below specimen.
**Nephrocerus corpulentus** Skevington, 2005, Zootaxa 977: 19.

Holotype ♂: USA.

Paratypes: 6 ♀, Quebec.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Holotype ♂: CANADA: ONTARIO Wellington Co.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Holotype ♂: MEXICO, Chis. 3 mi. NE San Cristobal 27.VI.1969 B.V. Peterson/ Holotype ♂ Pipunculus maritimus Skevington.

Allotype ♀: Same data as holotype except with allotype label.

Paratypes: 1 ♀, Prince Edward Island; 1 ♀, New Brunswick.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratype: 1 ♂, Arizona.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratype: 1 ♀, Arizona.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Alloeotype ♀: Same data as holotype except with allotype label, and dated "7.VII.1966".

Paratypes: 16 ♀♂, 19 ♀♂.

**RHINOPHORIDAE**


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen. Left wing of holotype is mounted in euparal on a microscope slide.


Holotype ♀: MEXICO, Chis.3.mi. NE San Cristobal 27.VI.1969 B.V.Peterson/ Holotype ♀ Bezzimyia orestes Pape & Arnaud.


Paratype: 1 ♂, Mexico.


Remarks: Left fore tibia and tarsus and left wing of holotype are mounted in euparal on two microscope slides.


Holotype ♀: Mt. Koghis 800 m. NEW CALEDONIA.

Paratypes: 2 ♂♂, 2 ♀♀, New Caledonia.

Remarks: Types not yet deposited in the CNC; label data taken from published description.
SARCOPHAGIDAE

Chauliooestrus capensis Villeneuve, 1925a: 25 [also 1925b: 49], Konowia 4: SOUTH AFRICA.
Remarks: This species was inadvertently listed under the family Oestridae by Cooper & Cumming (2000: 86).

Sarcophaga (Bulbostyla) airosalis Giroux & Wheeler, 2010, Zootaxa 2553: 40. CANADA.
Remarks: holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Sarcophaga (Bulbostyla) cadyi Giroux & Wheeler, 2010, Zootaxa 2553: 40. CANADA.
Remarks: holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: Big Bend N.P. TEX. Pine Can. 5-6000' May 10 1959 J.F. McAlpine/ HOLOTYPE Sarcophaga (Neoelliera) longisterna Giroux & Wheeler.
Remarks: holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

SCATHOPHAGIDAE

Paratypes: 4♂♂, 6♀♀, Quebec; 1♂♂, Manitoba; 29♂♂, 41♀♀, Northwest Territories; 106♂♂, 85♀♀, Nunavut.
Remarks: This species was originally cited as a "nomen nudum" by Vockeroth (1987b: 1095).

Remarks: holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 1♂, 1♀♀, Canada, Yukon, km 155 Dempster Hwy, pan trap, 28.6.2.7.1988, D.M. Wood.
Remarks: holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Remarks: holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

SCIARIDAE

Baesoeciara pectinata Vilkamaa, 2003, Entomologica fennica 14: 224. CANADA.
Holotype ♂: CANADA, British Columbia, Vancouver Island, Upper Carmanah Valley, forest floor, malaise trap, 30 VII.1991, N. Winchester.
Paratypes: 1♂, British Columbia.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Remarks: Type not yet deposited in the CNC; label data taken from published description.

Paratypes: 14♂♂, 1♀♀, Ontario.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Remarks: Type not yet deposited in the CNC; label data taken from published description.

Camptochaeta falacitor Hippa & Vilkamaa, 1994, Acta zool. fenn. 14: 44. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Holotype ♂: CANADA, British Columbia, Vancouver Island, Upper Carmanah Valley, forest floor.
30.7.1991, N. Winchester.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Camptochaeta formosa Vilkamaa, Hippa & Heller, 2013, Zootaxa 3636: 479. CANADA.
Holotype ♂ (slide): CANADA, British Columbia, Lake Kinbasket, Canoe Reach near Valemount,
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Camptochaeta quadriceps

Camptochaeta mimica

Camptochaeta triloba

Claustropyga simplicis

Claustropyga spicea

Claustropyga winchesteri

Camptochaeta uniceps

Remarks: Types not yet deposited in the CNC; label data taken from published description.

Camptochaeta uniceps Hippa & Vikamaa, 1994, Acta zool. fenn. 194: 56. CANADA.
Holotype ♂: Canada, British Columbia, Vancouver Island, Upper Carmanah Valley, forest floor, 30.7.1991, N. Winchester.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Camptochaeta winchesteri Vikamaa, Hippa & Heller, 2013, Zootaxa 3636: 485. CANADA.
Paratypes: 3♂♂, British Columbia (slides).
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Claustropyga mirifica Vikamaa & Hippa, 2007, Zootaxa 1552: 60. CANADA.
Holotype ♂ (slide): CANADA, Quebec, Laniel, Cage # 54, 18.VIII.1933, P. J. Skitsko.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Claustropyga simplicis Hippa, Vikamaa & Mohrig, 2003, Studia dipterol. 9: 506. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Claustropyga spicea Vikamaa & Hippa, 2007, Zootaxa 1552: 63. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Claustropyga triloba Vikamaa & Hippa, 2007, Zootaxa 1552: 65. CANADA.
Paratypes: 7♂♂, Yukon Territory (slides).

Remarks: Types not yet deposited in the CNC; label data taken from published description.

Corynoptera aequispina Hippa, Vikamaa & Heller, 2010, Zootaxa 2695: 73. CANADA.
Holotype ♂ (slide): CANADA, Quebec, Gatineau Park, King Mountain 45°29’20”N 75°51’45”W, summit, 354 m, Malaise trap, 16–21.vi.2005, P. Vikamaa.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Corynoptera armigera Vikamaa & Hippa, 2006, Zootaxa 1150: 38. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Corynoptera phili Hippa, Vikamaa & Heller, 2010, Zootaxa 2695: 90. CANADA.
Holotype ♂ (slide): CANADA, Quebec, Gatineau Park, King Mountain, 45°29’20”N 75°51’45”W, summit, 354 m, Malaise trap, 11–16.vi.2005, P. Vikamaa.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Corynoptera reducna Hippa, Vikamaa & Heller, 2010, Zootaxa 2695: 40. CANADA.
Paratypes: 3♂♂, Quebec (slides).
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Corynoptera robustior Vikamaa & Hippa, 2006, Zootaxa 1150: 39. CANADA.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Corynoptera trichistyris Hippa, Vikamaa & Heller, 2010, Zootaxa 2695: 110. CANADA.
Paratype: 1♂♂, British Columbia (slide).
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Remarks: Type not yet deposited in the CNC; label data taken from published description.

Holotype ♂ (slide): Prosciara pectinifera Hippa & Vikamaa 1991 CNC # 2207 Holotype/ JAPAN

sampling station 15, Malaise trap, 12.VI.2010, Cooper, Beaucnesne and Associates Ltd.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Vilkamaa & Hippa, 2007, Zootaxa 1552: 63. CANADA.
King Mountain, 45°29’20”N 75°51’45”W, summit, 354 m, Malaise trap, 30.vii.1991, N. Winchester.
Paratypes: 3♂♂, British Columbia (slides).
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Vilkamaa & Hippa, 2006, Zootaxa 1150: 38. CANADA.
Vilkamaa & Hippa, 2007, Zootaxa 1552: 60. CANADA.
King Mountain, 45°29’20”N 75°51’45”W, summit, 354 m, Malaise trap, 16–21.vi.2005, P. Vikamaa.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Vilkamaa & Hippa, 2006, Zootaxa 1150: 38. CANADA.
Vilkamaa & Hippa, 2007, Zootaxa 1552: 60. CANADA.
King Mountain, 45°29’20”N 75°51’45”W, summit, 354 m, Malaise trap, 11–16.vi.2005, P. Vikamaa.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Vilkamaa & Hippa, 2006, Zootaxa 1150: 38. CANADA.
Vilkamaa & Hippa, 2007, Zootaxa 1552: 60. CANADA.
King Mountain, 45°29’20”N 75°51’45”W, summit, 354 m, Malaise trap, 16–21.vi.2005, P. Vikamaa.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Vilkamaa & Hippa, 2006, Zootaxa 1150: 38. CANADA.
Vilkamaa & Hippa, 2007, Zootaxa 1552: 60. CANADA.
DIPTERA TYPES IN THE CNC: SUPPLEMENT


Sciara diota


Remarks: This entry updates the listing in Cooper

Paratypes: 3♂♂, 2♀♀, Ecuador.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Thecomyia naponica

Greniera humeralis

Sciara diderma Garrett, 1925b, Seventy new Diptera, p. 16. CANADA.
Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6).
The designation of a lectotype by Mohrig et al. (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Thecomyia naponica.

Holotype ♀: Coca,Napo R. Napo,ECUADOR 25-30.IV.65 250 m./L.Pena/ HOLOTYPE Thecomyia tricuneata.
Paratypes: 3♂♂, 2♀♀, Ecuador.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

SIMULIIDAE

Eusimulium fallisi Golini, 1975, Ent. scand. 6: 232. NORWAY.
Paratypes: 8♂♂, 4♀♀, Norway.

Eusimulium rendalense Golini, 1975, Ent. scand. 6: 229. NORWAY.
Holotype ♀: NORWAY: Rendalen Renaa R. @ water level 16.vii.1968, V.I. Golini Ex CO2 trap, 100cc/min/ HOLOTYPE Eusimulium rendalense Golini CNC No. 13913.
Paratypes: 8♂♂, 4♀♀, Norway.

Allotype ♀: Same data as holotype except with allotype label.

Holotype ♀: California, Lake Co., Mendocino National Forest, small creek, CR 301 (Elk Mountain Road, Forest Route M1), 2.9 km north of Middle Creek Campground, 39°15’N, 122°56’ W, 23 March 1990, P.H. & C.R.L. Adler.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Holotype ♀: California, Lake Co., Mendocino National Forest, small creek, CR 301 (Elk Mountain Road, Forest Route M1), 2.9 km north of Middle Creek Campground, 39°15’N, 122°56’ W, 23 March 1990, P.H. & C.R.L. Adler.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

SCIOMYZIDAE

Thecomyia tricuneata Marinoni & Steyskal, in Marinoni et al., 2003, Zootaxa 191: 27. ECUADOR.
Holotype ♀: Coca,Napo R. Napo,ECUADOR 25-30.IV.65 250 m./L.Pena/ HOLOTYPE Thecomyia tricuneata.
Paratypes: 5♂♂, 2♀♀, Ecuador.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Date of collection of holotype was published as "25-30 Jun 1965".

Holotype ♂: Oregon, Benton Co., ditch (76m long) into tributary of Beaver Creek, junction of Bellfountain and Greenberry Roads, 44°27'N, 123°20'W, 12 March 1993, D.C. Currie & D.M. Wood.

Remarks: Pupal exuviae of holotype stored in glycerine in a plastic microvial pinned below specimen.


Holotype ♂: Manitoba, Churchill, first large coastal stream ca. 180m on road past rocket-launching site, 2 August 1957, R.W. Dunbar.

Remarks: Type not yet deposited in the CNC; label data taken from published description.


Remarks: Holotype pin mount also has pupal exuviae attached. Type not yet deposited in the CNC; label data taken from published description.


Remarks: Type not yet deposited in the CNC; label data taken from published description.


Holotype pupal exuviae + cocoon (in alcohol): Nova Scotia, Lunenburg Co., near New Germany, LaHave River, 44°33'N, 64°43'W, 21 May 1999, C.L. Brockhouse/ HOLOTYPE Simulium rothfelsi Adler, Brockhouse & Currie

Paratypes: 7 larvae (in alcohol), Nova Scotia.

Remarks: Adults of this species are unknown.

Simulium (Ectemnaspis) shewellianum Coscaron, 1984, Rev. Soc. Ent. Argentina 43: 318. ECUADOR.

Holotype ♂ (slide): ECUAD. Rio Palenque 0°35'S, 70°22'W, 22-26 Feb. 1976 150 m. G.E. Shewell/ Simulium (Ectemnaspis) shewellianum n.sp. det. Coscaron 1984 HOLOTIPO ♂/ S. shewellianum Coscaron, 1984 Det. L.M. Hernandez '08/ DIGITALLY PHOTOGRAPHED ♀ genitalia; legs; gill; ft clypeus; ♀ head; wing; cocoon L.M. Hernandez/ [blank rectangular red label]/ IN DB [circular yellow label].


Simulium (Simulium) tormentor Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 427. CANADA.


Remarks: Type not yet deposited in the CNC; label data taken from published description.


Remarks: Holotype pin mount also has pupal exuviae attached. Type not yet deposited in the CNC; label data taken from published description.

Stegopterna diplomutata Currie & Hunter, 2003, Zootaxa 214: 2. CANADA.


Remarks: Holotype pupal exuviae is stored in glycerine in a plastic microvial pinned below specimen.


Remarks: Holotype pin mount also has pupal exuviae attached. Type not yet deposited in the CNC; label data taken from published description.


Holotype ♀: Oregon, Benton Co., Corvallis, 60th Street, Dimple Hill, Outgate Beck, 44°35.9'N,
DIPTERA TYPES IN THE CNC: SUPPLEMENT

Remarks: Pupal exuviae of holotype stored in glycerine in a plastic microvial stored below specimen.
Type not yet deposited in the CNC; label data taken from published description.

**Tlalocomyia ramifera** Currie, Adler & Wood in Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 292. CANADA.
Remarks: Holotype pin mount also has pupal exuviae attached.

**SPHAEROCERIDAE**

VENEZUELA.

VENEZUELA.

VENEZUELA.

ECUADOR.

BOLIVIA.
Paratype: 1♀, Bolivia.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.

CHILE.
Paratype: 1♀, Chile.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.

COLUMBIA.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.

CHILE.
Paratypes: 1♂, 1♀, Chile.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.

ECUADOR.
Paratypes: 5♂♂, 4♀♀, Ecuador.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

ECUADOR.
Paratypes: 6♂♂, 4♀♀, Ecuador.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

MEXICO.
Paratypes: 3♂♂, 4♀♀, Mexico.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.

**Ischiolepta polyankistrion** Buck & Marshall, 2002, Studia dipterol. 9: 276.NEPAL.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Ischiolepta scabifer** Buck & Marshall, 2002, Studia dipterol. 9: 259. CANADA.
Paratype: 1♂, Manitoba.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.
Leptocera argentinica Buck in Buck & Marshall, 2009, Zootaxa 2039: 25, ARGENTINA.
Holotype ♀ ARGENT. Tucuman Arroyo 14 km. S El Tala. 700m. 13-14 X 68, Pena/ ♂ Leptocera argentinica Buck sp. n. Det. M. Buck 1999 cnci00000847/ HOLOTYPE ♀ Leptocera argentinica Buck sp.n.
Paratypes: 65♂, 56♀♀, Argentina.

Leptocera longilimbata Buck in Buck & Marshall, 2009, Zootaxa 2039: 48, CHILE.
Paratypes: 29♂, 12♀♀, Mexico.

Leptocera tenuispina Buck in Buck & Marshall, 2009, Zootaxa 2039: 91, CANADA.
Paratypes: 2♂, 3♀♀, British Columbia.


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 10♂, 1♀, Costa Rica.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 15♂, 10♀♀, Ecuador.

Paratypes: 4♂, 2♀♀, Costa Rica.

Paratypes: 18♂, 22♀♀, Ecuador.

Holotype ♀ Tandapi, 40km. SW Quito, 1300-1500m, ECUADOR 15-21.VI.65, Pena/ HOLOTYPE Opacifrons triloba S.A. Marshall.
Paratypes: 31♂, 20♀♀, Ecuador.


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Remarks: Holotype abdomen is stored in glycerine in a glass microvial pinned below specimen.


Holotype  ♂  ECU:Napo, 27kmNW Baeza, 2-6.III.1976 2700m, DgTp, SPeck/ HOLOTYPE Palaeocoprina equiseta S.A. Marshall.


Remarks: Date of collection of holotype was published as "10-18.i.1983".


Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 13♂, 20♀♀, Argentina.


Holotype  ♂♂  10Km. S. Cuenca Azuay, ECUADOR 13-14.III.1965 2200m., L. Pena/ HOLOTYPE Rachispoda altimontana WHEELER.

Paratypes: 7♂♂, 6♀♀, Ecuador.


Paratypes: 1♂, 2♀♀, Dominican Republic.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Holotype  ♂♂  ECU. Napo Baeza, 2000m. 1/3/1979 S.A. Marshall/ HOLOTYPE Rachispoda baezensis WHEELER.

Paratypes: 1♂, Ecuador.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 2♂♂, 1♀, Costa Rica.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 5♂♂, 2♀♀, Ontario; 75♂♂, 27♀♀, Manitoba.


Holotype  ♂♂  COSTA RICA: Hwy 2 km 95 83°34'W: 9°36'N 1-7.vi.1985 H. Goulet-L. Masner/ HOLOTYPE Rachispoda cesta Wheeler.

Paratypes: 2♂♂, 1♀, Costa Rica.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 5♂♂, 1♀, CHILE.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 17♂♂, 15♀♀, Quebec; 44♂♂, 17♀♀, Ontario; 2♂♂, 1♀♀, Manitoba; 2♂♂, Northwest Territories; 1♂, Colorado.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 2♂♂, 1♀, Argentina; 1♂, 3♀♀, Chile.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.


Paratypes: 2♂♂, 1♀, Argentina; 1♂, 3♀♀, Chile.
Diptera Types in the CNC: Supplement

Remarks: Holotype terminalia are stored in glycerine in plastic microvial pinned below specimen.

Paratypes: 2♂, 1♀, Ecuador.
Remarks: Holotype terminalia are stored in glycerine in plastic microvial pinned below specimen.

Paratypes: 1♂, St. Lucia.
Remarks: Holotype terminalia are stored in plastic microvial pinned below specimen.

Paratypes: 105♂, 95♀, Chile.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 105♂, 95♀, Chile.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: ARGENT. Tucuman Arroyo 14km. S. El Tala. 700m, 13-14.X.68. Penau/ HOLOTYPE Rachispoda merga Wheeler.
Paratypes: 15♂, 24♀, Argentina.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 3♂, 4♀, Brazil; 1♂, Peru.

Paratypes: 5♂, 38♀, Mexico.
Remarks: Holotype terminalia are stored in glycerine in plastic microvial pinned below specimen.

Paratypes: 1♂, 2♀, Venezuela.

Holotype ♂: ECU: Napo, 4000 km Qulto-Baeza Pass Elfin For dung trap S. Marshall, iii'79/ HOLOTYPE Rachispoda praealta WHEELER.
Paratypes: 2♂, 2♀, Ecuador.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 9♂, 9♀, Mexico.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 1♂, 1♀, Dominican Republic; 2♂, Puerto Rica.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♂: Salton Sea, Mecca, Cal. 2-III-1955 W.R. Richards/ HOLOTYPE Rachispoda spatulata WHEELER.
Paratypes: 58♂, 40♀, California.

Paratypes: 1♂, 1♀, Indiana; 14♂, 7♀, Kansas; 8♂, 1♀, Texas; 5♂, 3♀, Florida; 1♂, 1♀, Georgia.

Paratypes: 26♂, 13♀, Texas; 4♂, Arizona.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

DIPTERA TYPES IN THE CNC: SUPPLEMENT

Holotype $\varnothing$: Los Dueendes Carchi, ECUADOR elev. 2000m. 10.VI.65, L. Pena/ HOLOTYPE Rachispoda thermastris Wheeler.
Paratypes: 2♂, 5♀, ECUADOR.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Sclerocoelus caribensis

Sclerocoelus brasilensis Wheeler.

Holotype $\varnothing$: Cuenca, 2200m. Azuay, ECUADOR 10-20.III.65, Pena/ HOLOTYPE Rachispoda zygolepis Wheeler.
Paratypes: 2♂, 5♀, Ecuador.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Paratypes: 2♂, 7♀, Yukon Territory; 8♂, 9♀, Northwest Territories; 6♂, 5♀, Alberta; 36♂, 30♀, Manitoba.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Scleroceocus andensis Marshall, 1997a, Insecta Mundi 11: 99. ARGENTINA.
Holotype $\varnothing$: Argentina. Salta. 1500m, 40kmN Salta, Camino La Cornisa, sweep in roadside forest remnant. 27.i.1992, S.A. Marshall.
Paratypes: 1♂, Argentina; 4♂, 3♀, Bolivia.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Scleroceocus brasiliensis Marshall, 1997a, Insecta Mundi 11: 100. BRAZIL.
Paratypes: 1♂, Bolivia.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Scleroceocus caribensis Marshall, 1997a, Insecta Mundi 11: 102. DOMINICAN REPUBLIC.
Paratypes: 18♂, 15♀, Costa Rica; 11♂, 13♀, Guatemala; 1♀, Jamaica.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Scleroceocus galapagensis Marshall, 1997a, Insecta Mundi 11: 103. ECUADOR.
Holotype $\varnothing$: ECUADOR. Galapagos, St.Cruz, Los Gemelos, 600m, forest dung trap, 31.i-4.ii.1989, B.J. Sinclair.
Paratypes: 1♂, 2♀, Ecuador.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Scleroceocus hemorrhoidalis Marshall, 1997a, Insecta Mundi 11: 104. VENEZUELA.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

SUTUREMYIDAE

Syntype: 1♀.
♀: San Jose del cabo Eisen/ Frank M. Hull Collection

Neopachygaster vitreus Hull, 1930, Ent. News 41: 103. USA.
Holotype $\varnothing$: Ames, la. 7-15 1923/ Neopachygaster vitreus TYPE! Hull.

Holotype $\varnothing$: MEX. Chis. 9500' Mt. Tzontehuitz des. Woodley 1995.
Paratypes: 5♂, 4♀, Mexico.
Remarks: Holotype and allotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Types not yet deposited in the CNC; label data taken from published description.

Pecticus elegans Rozkošný & Hauser, 2009, Zootaxa 2034: 6. NEPAL.

Pecticus indicus Rozkošný & Hauser, 2009, Zootaxa 2034: 9. INDIA.

Pecticus infuscatus Rozkošný & Hauser, 2009, Zootaxa 2034: 10. MALAYSIA.

**Ptecticus semimetallicus** Rozkošný & Hauser, 2009, Zootaxa 2034: 14. NEPAL.
Paratypes: 2♀, Nepal.

Remarks: Types not yet deposited in the CNC; label data taken from published description.

Remarks: Types out on loan since 1994 to A. Maibach. Label data taken from published description.

**Dasyosyrphus occidualis** Locke & Skevington, 2013, Zootaxa 3660: 52. USA.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Dioprosoa vocerothi** Kassebeer, 2000b, Dipteron 3: 76. ECUADOR.
Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.

**Epistrophe flavopilosa** Ghorpadé, 1994, Coleomina: Insect Biosystematics 3: 10. MYANMAR.
Holotype ♂: Kambaiti. 24.v.1934 (Malaise). Remarks: Type not yet deposited in the CNC; label data taken from published description.

**Furcanella nepalensis** Reemer in Reemer & Stähls, 2013, ZooKeys 288: 98. NEPAL.

♀: Rio Songo Ost Bolivia 800 m.Fassl/ COTYPE Habromyia rectilinea Hull [white label with “USNM ENT 00022471” on underside]. Remarks: There is an additional specimen labeled as cotype but it is from “Huanoabamba C. Peru”, a locality not mentioned in the published description.

**Hypsosyrphus pseudorhoga** Reemer, 2013, Zootaxa 3697: 35. PERU.
Holotype ♂: Quincemil Peru 24/31 X 1962 L.E. Pena/ CNC Ottawa/ Pseudorhoga new genus! n. sp.!
DIPTERA TYPES IN THE CNC: SUPPLEMENT

**Microdon angulata**
- Remarks: Type not yet deposited in the CNC; label data taken from published description.

**Microdon albipilis**
- Remarks: Type not yet deposited in the CNC; label data taken from published description.

**Metasyrphus**
- Remarks: Types apparently deposited in CNC; but label data taken from published description.

**Melanostoma chilosia** Curran, 1922, Can. Ent. 53: 275. CANADA.
- Holotype ♂: Banff, Alta. 1916. B.N.Sanson/
- Paratypes: 1♂, 1♀, Sweden.
- Remarks: The CNC specimen labelled “Ega” and bearing a yellow paratype label was discovered by Reemer (2013) to be the holotype.

- Paratypes: 1♂, 1♀, Sweden.
- Remarks: Types apparently deposited in CNC, but could not be located; label data taken from published description.

- Paratypes: 2♂, 1♀, Austria.
- Remarks: Types apparently deposited in CNC, but the holotype and one of the two paratypes could not be located; label data taken from published description.

**Microdon albilis** Curran, 1925, Kans. Univ. Sci. Bull. 15: 51. CANADA.
- Holotype ♂: TYPE Microdon albilis Curr. No. 275/
- Paratypes: 5♂, 5♀, Kansas.
- Remarks: Type not yet deposited in the CNC; label data taken from published description.

- Holotype ♂: Ega/ PARATYPE Microdon angulata
- Remarks: The CNC specimen labelled “Ega” and bearing a yellow paratype label was discovered by Reemer (2013) to be the holotype.

**Microdon aureopilis** Marinoni in Marinoni & Thompson, 2004, Studia dipterol. 10: 569. BRAZIL.
- Holotype ♂: Great Falls, Va. 27-VL/
- Remarks: Holotype terminalia mounted on point directly below specimen.

**Microdon conflictus** Curran, 1927, Can. Ent. 59: 89. CANADA.
- Remarks: Holotype terminalia mounted on point directly below specimen.

**Microdon (Microdon) hutchingsi** Thompson in Marinoni & Thompson, 2004, Studia dipterol. 10: 569. BRAZIL.
- Holotype ♂: Nova Teutonia 27°11’S, 52°23’W Brazil, 300-500m. 1.966 Fritz Plaumann/ Holotype Microdon mourei Thompson 01/ CNC DIPTERA # 186065.
- Remarks: The head of the holotype is glued to the corner of the uppermost label.

**Musca pinastri** De Geer, 1776, Mémoires pour servir à l’histoire des Insects: 113. SWEDEN.
- Remarks: Right mid- and hindlegs missing; terminalia are stored in glycerine in a plastic microvial pinned below specimen. Neotype designated by Locke & Skevington (2013: 64).

- Holotype ♂: ECUADOR: Carchi, 10 km SW Tulcan, 2900 m, 28 Jun 1965 (L. Peña).
- Paratypes: 2♂, 1♀, Ecuador.
- Remarks: Types not yet deposited in the CNC; label data taken from published description.

**Paragus (Pandasyophthalmus) apicalis** Kassebeer, 1998, Dipteron 1: 2. IVORY COAST.

**Paragus boyesi** Kassebeer, 1999b, Dipteron 2: 80. MADAGASCAR.
- Paratypes: 5♂, 5♀, Madagascar.

**Paragus manensis** Kassebeer, 1999a, Dipteron 2: 35. IVORY COAST.
Parasyrphus vockerothi

Thompson, 2012, Can. Ent. 144: 10. CANADA.

Remarks: Type not yet deposited in the CNC; label data taken from published description.

Parasyrphus vockerothi

Pelecinobaccha portachueloi


Paratypes: 1♂, Colombia; 1♀, Ecuador.
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Pelecinobaccha gracilitas

Miranda in Miranda et al., 2014, Zootaxa 3819: 49. BRAZIL.

Paratypes: 1♂, Brazil; 1♀, from unknown locality.
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Pelecinobaccha invisibilis

Miranda in Miranda et al., 2014, Zootaxa 3819: 49. BRAZIL.

Paratypes: 2♂♂, Brazil; 1♀, Venezuela.
Remarks: Holotype with left foreleg and genitalia stored in separate plastic microvials pinned below specimen.

Pelecinobaccha morgani

Miranda in Miranda et al., 2014, Zootaxa 3819: 56. BOLIVIA.

Paratypes: 2♂♂, Peru; 1♀, Brazil.
Remarks: Holotype with left foreleg mounted on point directly below specimen. Genitalia dissected, but absent from plastic microvial pinned below specimen.

Pelecinobaccha portachueloi

Miranda in Miranda et al., 2014, Zootaxa 3819: 67. VENEZUELA.

Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Pelecinobaccha pucallpa

Pereira & Miranda, 2014, Zootaxa 3819: 68. PERU.

Paratypes: 2♂♂, 2♀♀, Brazil.
Remarks: Holotype with right foreleg mounted on point and genitalia stored in plastic microvial pinned below specimen.

Pelecinobaccha seara

Miranda in Miranda et al., 2014, Zootaxa 3819: 69. BRAZIL.

Holotype ♂: Nova Teutonia 27°11’S, 52°23’W Brazil, 300-500m XI.1969 Fritz Plaumann/ CNC Diptera # 161186/ Holotype Pelecinobaccha seara Miranda.
Paratypes: 5♂♂, Brazil; 1♀, Bolivia.
Remarks: Holotype with left foreleg and genitalia stored in separate plastic microvials pinned below specimen.

Pelecinobaccha squamagula

Miranda in Miranda et al., 2014, Zootaxa 3819: 70. BRAZIL.

Paratypes: 5♂♂, Brazil; 1♀, Bolivia.
Remarks: Holotype with left foreleg and genitalia stored in separate plastic microvials pinned below specimen.

Pelecinobaccha vesca

Miranda in Miranda et al., 2014, Zootaxa 3819: 82. PERU.

Holotype ♂: Quincemil Cuzco, PERU 13–31.VIII.’62 L. Pena. 780m./ CNC Diptera # 161221/ Holotype Pelecinobaccha vesca Miranda.
Paratypes: 4♂♂, 2♀♀, Peru; 1♀, Venezuela.

Pelecinobaccha wyatti

Miranda in Miranda et al., 2014, Zootaxa 3819: 84. PERU.

Holotype ♂: Chanchamayo Peru Feb. 24 ’41 J.Schunke 1000 m./ Frank M. Hull Collection C.N.C. 1973/ CNC Diptera # 161221/ Holotype Pelecinobaccha wyatti Miranda.
Remarks: Holotype with left foreleg and genitalia stored in separate plastic microvials pinned below specimen.

Pipiza subinflatifrons


Holotype ♂: Summit Lake , B.C. Mi392 Alaska Hwy 25. VI. 1959 5000’ R.E. Lecch/ HOLOTYPE ♂ Pipiza subinflatifrons Covert/ CNC DIPTERA# 48501.
Allotype ♂: Same data as holotype except with allotype label and CNC DIPTERA# 48494 .
Sericomyia woodi Nielsen & Vockeroth, 2000, Dipter 3: 137. CANADA.
Holotype ♀; N.W.T. -21 m.e. Tuktoyaktuk 5-12.VII.71
HOLOTYPE Nielsen & Vockeroth design.

Allotype ♀: Reindeer Depot, Mackenzie Delta 12.VII
Paratypes: 5♂ 3♀, Northwest Territories; 10♂, Yukon Territory.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Holotype ♀; 2♀ W. La Cuidad Dgo. MEX. 7000'
July 17 1964, J.F. McAlpine/ 76-32 Det. F.C. Thompson 19/ Holotype Sphiximorpha mcalpinei
Thompson 2010/ CNC DIPTERA 183396.

Holotype ♀; N. Teutonia 27°11’S-52°23’W Brazil
300-500 m. XI.1969 Fritz Plaumann.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Neotype ♀; USA-UT:Wasatch-CacheNF: Tony Grove Lake; 41.89316°N,111.641841°W; 1.vii.2010; M.M.Locke/ J. Skevington Specimen # 24616
NEOTYPE Syrphus pauxillus Willistoun/ designated by Locke & Skevington 2013.

Syriria unicolor Lyneborg & Barkemeyer, 2005, Entomonigr. 15:
75. UGANDA.
Holotype ♀; Entebbe, UGANDA 10.VI. 1972 H. Falke Mal.
tr./ HOLOTYPE Syrri ta unicolor♀
Paratypes: 1♂, Uganda; 1♀, Cameroon.

Syriria vockerothi Lyneborg & Barkemeyer, 2005, Entomonogr. 
15: 120. UGANDA.
Holotype ♀; Entebbe, UGANDA 13. VI. 1972 H. Falke
In forest/ Syrri ta hirtipes Cn. Det. J.R. Vockeroth/ 4. 74 ♀ hirta Cn./ HOLOTYPE Syrri ta ♀
Paratype: 1♀, Uganda.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Toxomerus papaveri Borges & Couri, 2009, Zootaxa 2179: 43. BZH.
Paratype: 1♂, Argentina.
Remarks: Types not yet deposited in the CNC; label data taken from published description.

Toxomerus paraduplicatus Borges & Couri, 2009, Zootaxa 2179: 44. BRAZ.
Holotype ♀; FS30/ Est. Biol. Boracca Salesopolis, S.P. 
Paratypes: 9♂, 3♀, Brazil.

TABANIDAE

Paratypes: 9♂, 2♀♀, Texas.

Belvosia ansata Reinhard, 1951, Bull. Brooklyn ent. Soc. 46: 2. MEXICO.
Allotype ♂: Same data as holotype except for allotype label.
Paratypes: 9♂, 1♀, Mexico.

Belvosia auratilis Reinhard, 1951, Bull. Brooklyn ent. Soc. 46: 1. MEXICO.
Allotype ♂: Same data as holotype except for allotype label.
Paratypes: 2♂♂, 5♀♀, Mexico.

Holotype ♂: Piapoto Reserve 4.7.08/ TYPE Belvosia [sic] canadensis Curran No. 2291.
Paratypes: 1♂, Manitoba; 1♀, Kansas; 1♀, Oklahoma.

Belvosia matamorosa Reinhard, 1951, Bull. Brooklyn ent. Soc. 46: 3. MEXICO.

Holotype ♂: Sask./ TYPE ♂ Belvosia [sic] splendens Curran No. 2292.

Paratypes: 1♀, Manitoba; 1♀, Saskatchewan.


CANADA.
Paratypes: 2♂♂, 1♀, Nova Scotia; 5♂♂, 2♀♀, New Brunswick; 2♂♂, 1♀, Quebec; 3♂♂, 2♀♀, Ontario; 2♂♂, Saskatchewan; 6♂♂, 4♀♀, Alberta; 2♂♂, British Columbia; 5♂, 3♀, Vermont; 1♂, Washington; 1♂, Idaho; 1♂, New Hampshire; 1♂, Colorado; 1♀, Massachusetts; 1♀, Tennessee.
Remarks: This species was incorrectly listed under the genus Linaenymia by Cooper and O’Hara (1996: 46).

Carcelia kowarzi Villeneuve, 1912, Feuille des Jeunes Naturalistes 42 (= ser. 5, 2): 90. FRANCE.

Carceliocephala simillima Thompson, 1963, Studia ent. 6: 327. TRINIDAD.
Paralectotype: 1♀, Trinidad.
Remarks: The lectotype of Carceliocephala simillima Thompson was designated by Wood in Fleming et al. (2014: 14). The presence of the original syntype in CNC was overlooked by Cooper & O’Hara (1996).

Chrysotachina auriceps O’Hara, 2002, Studia dipterol. Suppl. 10: 91. USA.
Allotype ♂: Same data as holotype except for allotype label.
Paratypes: 7♂♂, Arizona.
Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.
Chrysotachina infrequens O’Hara, 2002, Studia dipterol. Suppl. 10: 92. USA.  
Paratypes: 1♂, Wyoming.  

Chrysotachina longipennis O’Hara, 2002, Studia dipterol. Suppl. 10: 93. USA.  
Paratypes: 3♂♂, 2♀♀, Florida; 2♀♀, South Carolina.  

Paratypes: 4♀♀, 4♀♀, 1 partial specimen (sex unknown), Costa Rica.  

Remarks: The holotype is in bad condition (postpedicel damaged, most of the setae of the head and thorax are broken off, and all left side legs are missing). Type not yet deposited in the CNC; label data taken from published description.  

Dolichocolon vicinum Mesnil, 1968a, Bull. Annls Soc. r. ent. Belg. 104: 176. VIETNAM.  
Paratypes: 1♂, Vietnam; 1♂, Japan.  
Remarks: Presence of male paratype from Vietnam in the CNC was overlooked by Cooper & O’Hara (1996: 29).  

Doryphorophaga patrita Reinhard, 1935, J. N.Y. Ent. Soc. 43: 394. USA.  
Paralectotypes: 9♀♀, Ohio.  
Remarks: Cooper & O’Hara (1996: 29) wrote, “Though Wood (1985: 66) referred to a female holotype, no holotype was designated or labeled by Reinhard.”  
A specimen in the CNC was later found with a holotype label and this specimen was considered by O’Hara & Wood (2004: 101) to be a lectotype of D. patrita by fixation of Wood (1985: 66). The syntype labels affixed to the type series in 1994 by Cooper & Wood (see Cooper & O’Hara 1996: 29) were replaced in 2004 with lectotype and paralectotype labels.  

Erythromelana arcfiølge Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 35. BRAZIL.  
Paratype: 1♂, Brazil.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.  

Erythromelana catarina Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 32. BRAZIL.  
Paratypes: 2♀♀, Brazil.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.  

Erythromelana convexiforeceps Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 33. MEXICO.  
Holotype ♀: Mexico, Oax 4.6 km S Suchistepec 23 VII.1992 D.M. Wood 2150 m/ HOLOTYPE Erythromelana convexiforeceps Inclán D.J./ DI54CA.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.  

Erythromelana cryptica Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 29. VENEZUELA.  
Paratypes: 4♀♀, Venezuela; 3♀♀, Ecuador; 1♂, Bolivia; 2♀♀, Mexico.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.  

Erythromelana cuvírons Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 23. ECUADOR.  
Holotype ♀: Ecuador: Napo Prov. Yanayacu Biological Station, S 00°35.9’W 77°53.4’W 2163 m REARED January 2006 11280/ HOLOTYPE Erythromelana cuvírons Inclán D.J./ DI477CA.  
Paratypes: 4♀♀, Ecuador; 3♀♀, Venezuela; 1♂, Bolivia; 2♀♀, Mexico.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.  

Erythromelana distincta Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 39. VENEZUELA.


Paratypes: 1♂, 1♀, Venezuela; 3♂♂, Ecuador; 7♀♀, Peru; 13♀♀ Perú. Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Erythromelana ecuadoriana Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 25. ECUADOR.

Holotype ♀: Ecuador: Napo Prov. Yanayacu Biological Station, S 00°35.9' W 77°53.4', 2163 m REARED Feb 2009 37297/ HOLOTYPE Erythromelana ecuadoriana Inclán D.J.


Remarks: Puparium of holotype stored in glycerin in a plastic microvial pinned below specimen.

Erythromelana eois Inclán & Stireman, 2013, Zootaxa 3621: 27. ECUADOR.


Allotype ♀: Ecuador: Napo Prov. Yanayacu Biological Station, S 00°35.9' W 77°53.4', 2163 m REARED 26–viii–06 J.O. Stireman III 16608/ ALLOTYPE Erythromelana eois Inclán D.J.

Paratypes: 1♂, 1♀, Ecuador. Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Erythromelana leptoforceps Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 18. COSTA RICA.


Paratypes: 5♂♂, 2♀♀, Costa Rica; 34♂♂, 18♀♀, Brazil; 1♂, New Mexico. Remarks: Holotype puparium and terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Erythromelana napensis Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 37. ECUADOR.

Holotype ♀: ECUADOR: Napo Prov. Yanayacu Biological Station S 00°35.9' W 77°53.4', 2163 m REARED October 2005 8135/ HOLOTYPE Erythromelana napensis Inclán D.J.

Remarks: Holotype puparium and terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Erythromelana woodi Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 42. COSTA RICA.


Paratypes: 1♂, 2♀♀, Mexico; 1♂, Costa Rica; 1♂, 1♀, Ecuador; 1♂, 1♀, Bolivia.

Eucelatoria flav a Inclán & Stireman, 2014, ZooKeys 464: 79. ECUADOR.

Holotype ♀: ECUADOR, Napo 7 km. s. Baeza 20-25.II.79 G. & M. Wood 2000m/ HOLOTYPE Eucelatoria flav a Inclán & Stireman/ DI244CA.

Paratypes: 1♂, Ecuador. Remarks: Types not yet deposited in the CNC; label data taken from published description.

Eumacrohoughia minor Thompson, 1963, Studia ent. 6: 333. TRINIDAD.


Holotype ♀: USA NM Torrance Co. ca. 9mi. s. Cedarvale North Peak, hilltop 34°16.4'N 108°13.6'W 43.5'W 7400' 16-19.viii.1999 Malaise1 J.E. O’Hara/ HOLOTYPE Euthera woodi O’Hara.

Paratypes: 1♀, New Mexico.


Paratypes: 17♀♀, 11♀♀, Northwest Territories; 4♂♂, Yukon; 2♀♀, Greenland.

Exoristoides blattarius O’Hara, 2002, Studia dipterol. Suppl. 10: 76. USA.

Holotype ♀: Indiana Dunes St. Pk., Indiana May 18, 1957 J. F. McAlpine/ Coll. as puparium under leaf. mould emerged: May 31/57/ HOLOTYPE Exoristoides blattarius O’Hara.

Paratypes: 1♂, 1♀, Florida; 1♂, 3♀♀, Maryland; 1♂, 3♀♀, North Carolina; 1♂, New York; 43♀♀, Virginia.

Remarks: Holotype puparium is glued to pin below specimen.

Exoristoides sabroskyi O’Hara, 2002, Studia dipterol. Suppl. 10: 81. USA.


Allotype ♀: Same data as holotype except with allotype label and collected on "15-16.viii.1999".

Paratypes: 1♂, New Mexico.
Remarks: Holotype specimen was mounted from alcohol.

Gonia sagax Townsend, 1892, Can. Ent. 24: 65. USA.

Fabriciella latifrons
Gymnostyla minor
Gonia sagax
Houghia aerata
Houghia aurifera
Houghia biseriata

Paralectotypes: 2 ♂
Syntype: 1 ♂
Remarks: A neotype was designated by Tothill (1924a: Neotype).
Paratypes: 26 ♂, 18 ♀♀, Costa Rica.

Houghia bivittata Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 37. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA /
Paratypes: 9 ♂, 11 ♀♀, Costa Rica.

Houghia blancoi Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 39. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA /
Paratypes: 34 ♂, 16 ♀♀, Costa Rica.

Houghia brevipilosa Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 40. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA /
Paratypes: 85 ♂, 89 ♀♀, Costa Rica.

Houghia chavarriae Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 42. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA /
Paratypes: 82 ♂, 89 ♀♀, Costa Rica.

Houghia confinis Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 43. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA /
Paratypes: 8 ♂, 10 ♀♀, Costa Rica.
Houghia delospilota Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 47. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 3♂, 49♀♀, Costa Rica.

Houghia destituta Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 48. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 3♂, 6♀♀, Costa Rica.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Houghia fimbriata Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 50. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 22♂, 21♀♀, Costa Rica.

Houghia gracilis Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 51. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/

Houghia graciloides Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 53. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 46♂, 69♀♀, Costa Rica.

Houghia griseifrons Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 55. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 29♂, 18♀♀, Costa Rica.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Houghia inflatipalpis Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 56. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 51♂, 37♀♀, Costa Rica.

Houghia latigena Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 58. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/

Houghia latilobus Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 59. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 2♂, 7♀♀, Costa Rica.

Houghia longicercus Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 61. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/

Houghia longipilosa Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 63. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
DHJPAR0008819/ Voucher: D.H. Janzen & W.
Houghia luteiventris Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 64. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 11♂♂, 106♀♀, Costa Rica.

Houghia macilenta Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 66. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 10♂♂, 12♀♀, Costa Rica.

Houghia marini Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 69. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 25♂♂, 29♀♀, Costa Rica.

Houghia matarritai Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 70. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 2♂♂, Costa Rica.

Houghia nigrofemur Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 72. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 5♂♂, 6♀♀, Costa Rica.

Houghia omissa Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 74. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 10♂♂, 16♀♀, Costa Rica.

Houghia pallida Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 75. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 35♂♂, 27♀♀, Costa Rica.

Houghia parmata Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 77. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 2♂♂, 5♀♀, Costa Rica.

Houghia pilosifrons Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 78. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
Paratypes: 78♂♂, 80♀♀, Costa Rica.

Houghia romeroae Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 80. COSTA RICA.
Holotype ♂: LEGS AWAY FOR DNA/
DHJPAR0030201/ Voucher: D.H. Janzen & W.
Houghia sexmaculata Fleming & Wood in Fleming et al. 2014a, Zoootaxa 3858: 81. COSTA RICA.
Paratypes: 1♂, Costa Rica.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Houghia spatulata Fleming & Wood in Fleming et al. 2014a, Zoootaxa 3858: 82. COSTA RICA.
Paratypes: 4♂, 2♀♀, Costa Rica.
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

Houghia triangularis Fleming & Wood in Fleming et al. 2014a, Zoootaxa 3858: 84. COSTA RICA.
Paratypes: 3♂, 2♀♀, Costa Rica.

Hypostena vexans Curran, 1925, Can. Ent. 57: 151. CANADA.
Holotype ♀: Barrington Passage, June 24, 1910 N.S. C.H. Young/ TYPE Hypostena vexans Curran No. 1308.


Lypha cristerverpa O’Hara, 2002, Studia dipterol. Suppl. 11: 106. CANADA.
Paratypes: 5♂♂, Manitoba; 10♂♂, Ontario; 12♂♂, Quebec; 1♂, 1♀, Saskatchewan; 1♂, Massachusetts; 6♂♂, Texas.
Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.

Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 6♂♂, 35♀♀, Yukon Territory; 2♂♂, Russia.

Holotype ♀: YUKON km 465 Dempster Hwy 23- 25.VI.80 800m Wood & Lafontaine/ HOLOTYPE Macquartia plumbea Richter & Wood CNC No. 22106.
Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 29♂♂, 9♀♀, Yukon Territory; 4♂♂, 2♀♀, Russia.

Micronychia woodi O’Hara, 2002, Studia dipterol. Suppl. 10: 122. CANADA.
Holotype ♀: YUKON 10 km S Carcross 18.VII.80 1830m G. & M. Wood/ Holotype ♀: Allotype ♀: Same data as holotype except with allotype label.
Paratypes: 9♂♂, 9♀♀, Yukon Territory; 4♂♂, 2♀♀, Russia.

Holotype ♀: Marley Durban 12-19/ fulvo-testacea Type Villen./ Myiocerops (Africodexia) fulvo-testacea Type Villen./ TYPE.


Syntype: 1♂, GOTA GOTA URUNGWE Dept. Agric. S. Rhodesia 17/9/1938/ W.L. Williams Collector/
DIPTERA TYPES IN THE CNC: SUPPLEMENT

Myiopharus neilli O’Hara, 2007, Zootaxa 1521: 34. CANADA.
Paratypes: 34♂, 1♀, Manitoba; 1♂, Colorado; 7♀♀, North Dakota; 1♂, South Dakota.

Nigrilypha gnoma O’Hara, 2002, Studia dipterol. Suppl. 10: 125. USA.
Holotype ♀: USA NM Grant Co. 14mi. n. Silver City Cherry Crk. campgrd. 32°54.8’N 108°13.6’W 7500’ USA.
Paratypes: 1♂, 5♀♀, New Mexico.

Holotype ♂: Atherton VIII-4-5 Mo./ HOLOTYPE Neothelaira pusilla Reinhard/ Aporotachina pusilla R. Rnh./ Neothelaira pusilla R. Rnh.
Paratypes: 1♂, 12♀♀, Arizona; 31♀♀, 8♀♀, South Dakota. 

Ostracophyto flavicaudalis O’Hara, 2002, Studia dipterol. Suppl. 10: 125. USA.
Paratypes: 5♂, 5♀♀, Arizona; 31♂, 7♀♀, New Mexico.

Paratypes: 5♂, 17♀♀, Malaysia.

TANYPEZIDAE


TEPHRITIDAE

Gymnocarena macalpinei Norrbom, 2006, Instrumenta Biodiversitatis VII: 222. MEXICO.
Remarks: Type not yet deposited in the CNC; label data taken from published description.

Phacelochaeta obtiqua Norrbom et al., 2010, Zootaxa 2398: 35. ECUADOR.
Holotype ♀: (CNC USNMENT00213089), ECUADOR: Cañar: El Tambo, 2800 m, 4–7 Mar 1965, L. E. Peka.
Paratype: 1♂, Ecuador.
Remarks: Types not yet deposited in the CNC; label data taken from published description.
Trypeta californiensis Han & Norrbom, 2005, Syst. Ent. 30: 225. USA.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Trypeta bifasciata Han & Norrbom, 2005, Syst. Ent. 30: 225. MEXICO.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Trypeta flavifasciata Han & Norrbom, 2005, Syst. Ent. 30: 225. MEXICO.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Trypeta chiapasensis Han & Norrbom, 2005, Syst. Ent. 30: 227. MEXICO.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Trypeta wulpi Han & Norrbom, 2005, Syst. Ent. 30: 244. MEXICO.
Paratype: 1♀, Mexico.
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

Androprosopa vaillantiana Sinclair, 1996, Ent. scand. 27: 373. USA.
Remarks: This entry updates the listing in Cooper & Cumming (1993: 11).


Orphnephila pilosa Garrett, 1925b, Seventy new Diptera, p. 10. CANADA.
Paratypes: 2♂♂, British Columbia.
Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Arnaud & Boussy’s (1994: 128) lectotype designation is invalid. The terminalia of the holotype are mounted on a microscope slide.

Thaumalea anolo Schmid, 1970, Naturaliste can. 97: 501. USA.
Paratypes: ♂, ♂, 1♀, British Columbia.
Remarks: This entry updates the listing in Cooper (1991), in which Garrett’s type specimens were considered to be syntypes. See comments on Garrett’s (1925b) types in the Introduction (p. 6). Arnaud & Boussy’s (1994: 128) lectotype designation is invalid. The terminalia of the holotype are mounted on a microscope slide.

Thaumalea conferta Arnaud & Boussy, 1994, Myia 5: 82. USA.
Remarks: Holotype and allotype have their abdomens stored on a microscope slide.
**DIPTERA TYPES IN THE CNC: SUPPLEMENT**


Paratypes: 7♀, California. Remarks: Holotype abdomen is stored on a microscope slide. Allotype is mounted on two separate microscope slides.

**Trichothaumalea elakalensis** Sinclair, 1992, Can. Ent. 124: 492. USA.


Paratypes: 3♀, 6♂, West Virginia.

**THEREVIDAE**

**Amplisegmentum eucadorensis** Webb, 2005, Zootaxa 1091: 4. ECUADOR.


Paratype: 1♂, Ecuador

**Anabarhynchus bicuspidatus** Lyneborg, 2001, Entomonomogr. 13: 82. AUSTRALIA.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Coleiana nigricopis** Gaimari & Irwin, 2000, Zool. J. Linnean Soc. 129: 181. BRAZIL.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Insulatitan romaynae** Metz & Irwin, 2000, Ann. ent. Soc. Am. 93: 995. BAHAMAS.


**Lindneria browni** Metz & Irwin, 2000, Ann. ent. Soc. Am. 93: 1009. BRAZIL.

Holotype ♀: Nova Teutonia 27°11’S. 52°23’W Brazil, 300-500m. I. 1966 Fritz Plaumann/ THEREVIDAE M. E. Irwin Specimen # 79677/ Holotype ♀ Lindneria browni Metz and Irwin.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Penniverpa insular** Webb in Webb & Metz, 2008, Zootaxa 1720: 33. JAMAICA.


Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

**Protothereva eucadorensis** Webb in Webb & Metz, 2003, Zootaxa 234: 4. ECUADOR.

Holotype ♀: San Isidro, Carchi, ECUADOR elev. 2500 mm. 23.VI.65, L. Pena/ THEREVIDAE M. E. Irwin 39726/ HOLOTYPE Protothereva eucadorensis Webb.

Paratype: 1♂, Ecuador

**Thereva colorado** Holston & Irwin, 2005, Studia dipterol. Suppl. 13:.87. USA.


Paratype: 1♀, Colorado.


**TIPULIDAE**

**Limonia albertensis** Krzeminski & Teskey, 1987, Can. Ent. 119: 891. CANADA.


**Macalpina incomparabilis** Krzeminski & Teskey, 1987, Can. Ent. 119: 889. CANADA.

Holotype ♀ in amber: No. 661A Holotype ♀ CNC 19079 Macalpina incomparabilis Krzeminski & Teskey Family Limoniidae (Diptera) Canadian amber Leg: J.F. McAlpine & H.J. Teskey May, 1973/ CAS 661 Specimen 1 4mm. Tipulidae -
Limoniinae picture of wing (folded piece of white paper inside box).

Paratypes: 2♂♂, Manitoba.  
Remarks: Holotype abdomen and right wing are glued to paper points below the specimen. All legs are missing from holotype.

Holotype ♂ in alcohol with ♀ allotype: Wrangel Is., Siberia Allen Crawford Tipula crawfordi Alex Holotype = ♂ Allotype = ♀ Tipula crawfordi Alex.Wrangel Is., Siberia TYPES.  
Allotype ♀: Same data as holotype.  
Remarks: Holotype and allotype in very poor shape and disarticulated. The single detached wing in the vial belongs to the ♂ holotype as noted by Curran in a footnote on page 293 of the original description.

*Trichoneura (Trichoneura) canadensis* Krzeminski & Teskey, 1987, Can. Ent. 119: 888. CANADA.  

**XYLOPHAGIDAE**

Paratypes in amber: 5♀♀ (slides), Alberta.

**UNPLACED TO FAMILY**

*Cretaphormia fowleri* McAlpine, 1970, Can. Ent. 102: 345. CANADA.  
Holotype (fossiliferous puparia): HOLOTYPE Cretaphormia fowleri McAlpine, 1969 CNC # 1267/ 817 [on underside of fossil].  
Paratypes: 3 (fossiliferous puparia), Alberta.  
Remarks: The rock fragment containing the fossil puparia is ironstone from the Edmonton formation (Upper Cretaceous) and was discovered by Mr. Fowler in 1939 near Drumheller, Alberta (E% Sect. 1, twp. 29, range 20, west of 4° Meridian). Puparium C was designated as holotype and puparia A, B and D as paratypes. These type specimens were deposited in CNC, contrary to the depository cited in the original description. Presence of holotype in the CNC was overlooked by Cooper & Cumming (2000). The fossil species was originally described in the Calliphoridae, but has an uncertain family placement (see Grimaldi & Cumming 1999: 117).
LITERATURE CITED


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