



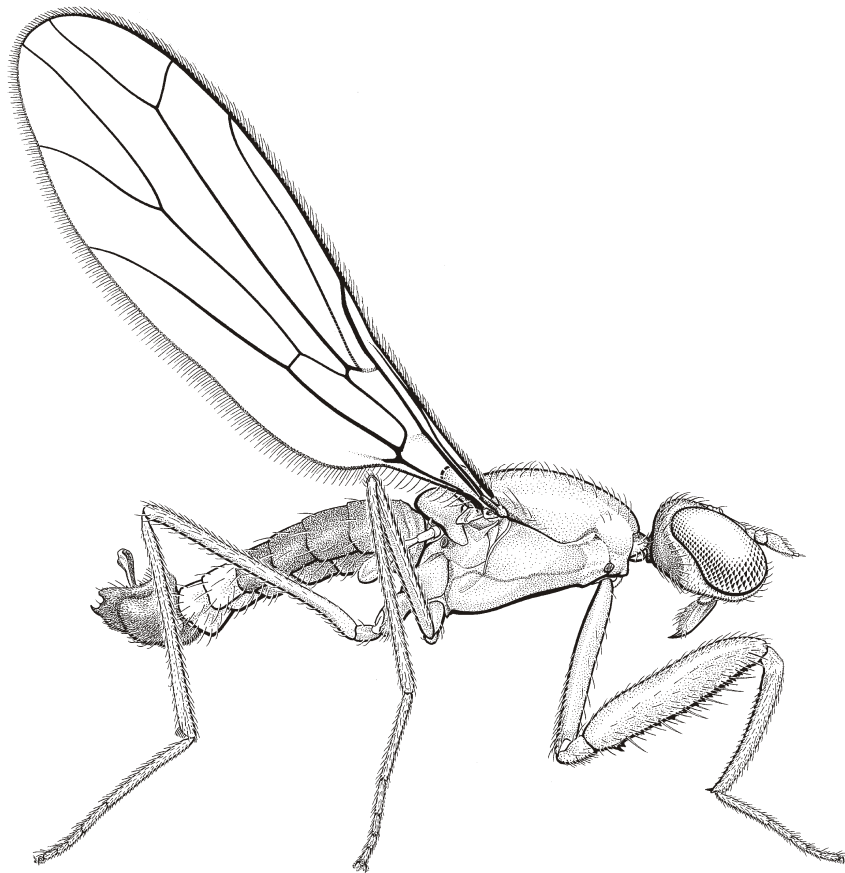
Agriculture and  
Agri-Food Canada

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*Diptera types in the  
Canadian National  
Collection of Insects*

*Supplement  
Edition 4.0*

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**Diptera types in the  
Canadian National  
Collection of Insects**

**Supplement  
Edition 4.0**

Scott E. Brooks, Bradley J. Sinclair, Jeffrey M. Cumming, James E. O'Hara,  
Jeffrey H. Skevington, Owen Lonsdale and Bruce E. Cooper

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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](mailto:Scott.Brooks@agr.gc.ca)), for inclusion in future editions of the Supplement.

## AGROMYZIDAE

*Cerodontha (Cerodontha) adunca* Boucher, 2002, Can. Ent. 134: 592. MEXICO.

Holotype ♂: Para- type/ PARATYPE *Cerodontha* (Cer.) trispinata Spen CNC No16500/ MEX.Dgo.24 mi. W. La Ciudad, 7000' 8 Aug. 1964 W.R.M.Mason/ Mounted from alcohol/ Cer. (Cer.) trispinata K.A.Spencer det. 1976 ♂/ HOLOTYPE *Cerodontha* (*Cerodontha*) *adunca* Boucher.

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

*Cerodontha (Cerodontha) inflata* Boucher, 2002, Can. Ent. 134: 593. MEXICO.

Holotype ♂: Para- type/ PARATYPE *Cerodontha* (Cer.) trispinata Spen. CNC No. 16500/ 11 mi.E.El Salto,Dgo. MEX.June 13, 1964 J.F.McAlpine 8000'/ 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.

*Cerodontha (Cerodontha) toluca* Boucher, 2002, Can. Ent. 134: 595. MEXICO.

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.

Holotype ♂: Firth River, Y.T. 30-vii-1956 E.F. Cashman/ Cer. (Ict.) *pollinosa* K.A. Spencer det. 1967 ♂/ HOLOTYPE *Cerodontha* (*Icteromyza*) *pilosa* Boucher/ 1622 23.3.67 Ict. *pollinosa* K.A.S.

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

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

Holotype ♂: Nr Entebbe, UGANDA Dec. 20-31, 1972 H. Falke, 1160m/ ♂ HOLOTYPE *Japanagromyza crinicolis* Lonsdale.

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

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

Holotype ♂: Entebbe, UGANDA 10.III.1972 H. Falke In forest/ ♂ HOLOTYPE *Japanagromyza dolobrata* Lonsdale.

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

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

Holotype ♂: Entebbe, UGANDA 1.XII.1971, H. Falke Mal. Tr./ ♂ HOLOTYPE *Japanagromyza laureata* Lonsdale.

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

*Phytomyza nemopanthe* Griffiths & Piercey, 1995, Can. Field Nat. 109: 24. CANADA.

Holotype ♂: Nfld. Avalon Pen. Cochrane Pond Rd. 02.04 1992/ From Leafmine: *Nemopanthe mucronata*/ 22/ *Phytomyza nemopanthe* Grif. & Norm. det. GCD Griffiths/ Holo- type.

Paratypes: 5♂♂, Newfoundland.

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

## ANTHOMYIIDAE

*Anthomyia brevicerca* Ackland & 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. & Grif. 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: 2227. USA.

Holotype ♂: Holo- type/ Big Bend N.P.TEX. Oak Spring 4500 ft. May 22 W.R.M.Mason 1959/ *Anthomyia ceratophora* Grif. det. GCD Griffiths.

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.

Holotype ♂: Holo- type/ McQueen L., 10mi.N. Kamloops, B.C. 14.VI. 1973 H.J. Teskey/ *Anthomyia cuneicerca* Grif. det. GCD Griffiths.

Paratypes: 1♂, Saskatchewan; 5♂♂, 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.

Holotype ♀: Holo- type/ McQueen L., 10mi.N. Kamloops, B.C. 2.VII. 1973 H.J. Teskey/ *Anthomyia dichoptica* Grif. det. GCD Griffiths.

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 ♂: Holo- type/ 7mi. E. Griffith, Ont. 15.V.1982 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 ♂: Holo- type/ Waterton, ALTA. 8 June, 1962 K.C.Herrmann/ *Anthomyia nodulosa* Grif. det. GCD Griffiths.  
 Paratypes: 2♂♂, 1♀, 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.  
 Holotype ♂: Holo- type/ Ottawa, Ont. 1-XI-1956 J.R.Vockeroth/ On window Science Serv.Bldg./ *Anthomyia ottawana* Grif. det. GCD Griffiths.  
 Paratypes: 23♂♂, 14♀♀, Ontario.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Chirosia holoptica* Griffiths, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2552. CANADA.  
 Holotype ♂: Holo- type/ N.S., CBHNT. Pk. North Mt. bog PG767865 400m. 31.V. 1984 B.E. Cooper/ *Chirosia 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.
- Chirosia platyptera* Griffiths, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2618. CANADA.  
 Holotype ♂: Holo- type/ N.S., C.B.H.N.P. Black Brook 2-4-VI-1983 Herbs QGO35833/ *Chirosia platyptera* Grif. det. GCD Griffiths.  
 Paratypes: 6♂♂, 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.
- Chortophila parcepilosa* Villeneuve, 1908, Wien. ent. Ztg 27: 202. FRANCE.  
 Syntypes: 2♂♂, 1♀.  
 ♂: Le Vernet (Pyr.Or.) 14.7.04/ tarsi interm ciliés 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.
- Coenosopsia mexicana* Michelsen, 1991, Syst. Ent. 16: 102. MEXICO.  
 Holotype ♂: MEX. Chiapas, San Cristobal 7000' 26 May 1969 H.J. Teskey/ *Coenosopsia* ♂ mexicana Michelsen HOLOTYPE det. V. Michelsen 1989  
 Paratypes: 2♂♂, 1♀, Mexico.
- Coenosopsia peruviana* Michelsen, 1991, Syst. Ent. 16: 101. PERU.  
 Holotype ♂: Quincemil Cuzco, PERU 1-15.XI.1962 L.Pena. 700m/ *Coenosopsia* ♂ peruviana Michelsen HOLOTYPE det. V. Michelsen 1989.  
 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.  
 Holotype ♂: Holo- type/ Shawinigan Falls/ Que. 30.IV. 1951 E. G. Munroe/ On *Salix* flowers/ *Egle acicularis* Grif. det. GCD Griffiths.  
 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.  
 Holotype ♀: Holo- type/ Victoria Is., N.W.T. 71°17'N, 114°W 8-10.VII.1975 G. & M. Wood/ *Egle arctophila* Grif. det. GCD Griffiths.  
 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.  
 Holotype ♂: Holo- type/ 34 mi. Dawson Y.T. Swede Dome 3900' 6.VI.1962 R.E.Leech/ *Egle falcata* Ackl. & Grif. det. GCD Griffiths.  
 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.  
 Holotype ♂: Holo- type/ Baker Lake, N.W.T. 17.VII 1947 T.N.Freeman/ *Egle polychaeta* Grif. det. GCD Griffiths.  
 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.  
 Holotype ♂: Holo- type/ Yellowknife, N.W.T. 20.V. 1953 J. G. Chillcott/ *Egle protuberans* Grif. det. GCD Griffiths.  
 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 pseudosteini* Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2334. CANADA.



- Holotype ♂: Holo- type/ N Sask. River at Clover Bar Bridge, Edmonton, Alberta/ ex catkins of *Salix lutea* coll. GCD Griffiths/ coll. 11.vi.1999 em. 1.iv.2000/ Egle pseudosteini Grif. det.GCD Griffiths.
- Paratypes: 57♂♂, Quebec; 9♂♂, Ontario; 7♂♂, Manitoba; 2♂♂, Saskatchewan; 3♂♂, Yukon Territory; 8♂♂, Northwest Territories; 1♂, Alaska.
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Holotype puparium is glued to double mount.
- Hydrophoria hucketti* Griffiths, 1998, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1897. CANADA.
- Holotype ♂: Holo- type/ Val Marie,Sask. 49°15' 107°44' 5-VI.1955 J.R. Vockeroth/ *Hydrophoria hucketti* Grif. det. GCD Griffiths
- Paratypes: 2♀♀, Alberta; 1♂, Wyoming; 1♀, Colorado.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Lasiomma atlanticum* Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2398. CANADA.
- Holotype ♂: Holo- type/ Kouchibouguac N.P. N.B. 16.VI.1978 D.B. Lyons Code-7067U/ *Lasiomma atlanticum* Grif. det. GCD Griffiths.
- Paratypes: 1♂, Nova Scotia; 2♀♀, New Brunswick.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Lasiomma brevirostre* Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2404. MEXICO.
- Holotype ♂: Holo- type/ 10 mi.W.El Salto, Dgo.MEX., 9000' June 8 1964 J.F.McAlpine/ *Lasiomma brevirostre* Grif. det. GCD Griffiths.
- Paratype: 1♀, Mexico.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Lasiomma propleurale* Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2470. CANADA.
- Holotype ♂: Holo- type/ Summit Lake, B.C. Mi392 Alaska Hwy 16. VI. 1959 4700' R.E. Leech/ *Lasiomma propleurale* Grif. det. GCD Griffiths.
- Paratypes: 1♀, Manitoba; 1♀ (slide), Alberta.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Lasiomma tenuirostre* Griffiths, 2003, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2401. CANADA.
- Holotype ♂: Holo- type/ Pr. Albert,Sask. 3. VII -1954 W. J. Turnock/ Emerg. cage Larix bog/ B-13 174/ *Acrostilpna* n.sp. Det. J.F. McAlpine 1955/ *Lasiomma tenuirostre* Grif. det. GCD Griffiths.
- Paratypes: 4♀♀, New Brunswick; 4♂♂, 4♀♀, Quebec; 4♂♂, 2♀♀, Ontario; 1♂, Saskatchewan; 1♀, British Columbia.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Leucophora miltoparia* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1662. CANADA.
- Holotype ♂: Holo- type/ Cascade Trail Banff, ALTA. 5000 July. 10. 1968 H.J. Teskey/ *Leucophora miltoparia* Grif.det. GCD Griffiths.
- Paratypes: 1♂, Colorado.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Oxyphorbia dyscrita* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1796. CANADA.
- Holotype ♂: Holo- type/ Mt. Lolo Kamloops, B.C 31-V-1938 G.S. Walley/ *Oxyphorbia dyscrita* Grif.det. GCD Griffiths.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Paregle popocatepetlensis* Griffiths, 2001, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2139. MEXICO.
- Holotype ♂: Holo- type/ Popocatepetl N. Slope, 13000' Mex. Mex. 11 - VIII-1954 J. G. Chillcott/ *Paregle popocatepetlensis* Grif. det. GCD Griffiths.
- Paratypes: 6♂♂, 18♀♀, Mexico.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Phorbia digitata* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1860. CANADA.
- Holotype ♂: Holo- type/ Parkside Sask. 21.V.1961J.R.Vockeroth/ *Phorbia digitata* Grif. det. GCDGriffiths.
- Paratypes: 2♀♀, Saskatchewan.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Phorbia hirtella* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1814. MEXICO.
- Holotype ♂: Holo- type/ 24 mi. W. La Ciudad, Dgo. MEX. 7000' June 25 1964 J.F.McAlpine/ *Phorbia hirtella* Grif. det. GCD Griffiths.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Phorbia minuscula* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1863. CANADA.
- Holotype ♂: Holo- type/ Ninette,Manitoba 20.V-1958 J. F. McAlpine/ *Phorbia minuscula* Grif. det.GCD Griffiths.
- Paratypes: 1♂, 2♀♀, Quebec; 3♂♂, Ontario; 8♂♂, 10♀♀, Manitoba.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Phorbia pityina* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1817. MEXICO.
- Holotype ♂: Holotype male: Holo- type/ 10 mi. W. El Salto, Dgo. MEX., 9000' July 1. 1964 J.F.McAlpine/ *Phorbia pityina* Grif. det. GCD Griffiths.
- Paratypes: 3♂♂, 1♀, Mexico.
- Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

- Phorbia striata* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1843. CANADA.  
 Holotype ♂: Holo- type/ Cartwright Lab 29-VI-1955 E. F. Cashman/ Phorbia genitalis (Schnabl) det. H.C. Huckett/ Phorbia striata Grif. 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.
- Phorbia trinitatis* Griffiths, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 1848. CANADA.  
 Holotype ♂: Holo- type/ Trinity Valley B.C. 21.V. 59 L.A. Kelton/ Phorbia trinitatis Grif. det. GCD Griffiths.  
 Paratypes: 6♂♂, 1♀, British Columbia.  
 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.  
 Holotype ♂: Holo- type/ 5800' Eva Lk. trail 9-VII-1952 G. P. Holland/ Mt. Revelstoke Nat'l. Pk. B.C./ Strobilomyia columbiana Grif. det. GCDGriffiths.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Strobilomyia flexiliventris* Griffiths, 2004, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 8: 2535. CANADA.  
 Holotype ♀: Holo- type/ Grand Forks, B.C. 23.V. 1950 H. R. MacCarthy/ Seed onion/ Strobilomyia flexili-ventris Griffiths det. GCDGriffiths  
 Paratype: 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: 2512. CANADA.  
 Holotype ♂: Holo- type/ Robson, B.C. 15-IV-1950 H. R. Foxlee/ Strobilomyia intermontana Grif. det. GCDGriffiths.  
 Paratypes: 1♂, 3♀♀, British Columbia.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- ANTHOMYZIDAE**
- Arganthomyza acuticuspis* Roháček & Barber, 2013, Zootaxa 3604: 18. USA.  
 Holotype ♂: USA: NM: Torrance Co., Manzano Mts, 12 mi W Manzano Red Canyon Cmpgd, 8000' 27-30.viii.1993, J.E. O'Hara malaise trap/ HOLOTYPUS ♂ *Arganthomyza acuticuspis* sp.n. J. Roháček & K.N. Barber det. 2011.  
 Paratype: 1♀, New Mexico.
- Quametopia amplistylus* Roháček & Barber, 2011, Eur. J. Entomol. 108: 320. USA.  
 Holotype ♂: Gr. Smoky Mt. Nat. Pk., N.C., 18.VI.1957, J.R. Vockeroth/ Clingman's Dome, 6300' 6642'/ HOLOTYPUS ♂, *Quametopia amplistylus* sp.n., J. Roháček & K.N. Barber det. 2010.  
 Paratype: 1♂, North Carolina.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Stiphrosoma helvum* Roháček & Barber, 2005, Beitr. Ent. 55(1): 64. CANADA.  
 Holotype ♂: High Prairie, Alta. 17.7. 1961 A.R. Brooks/ HOLOTYPUS *Stiphrosoma helvum* sp.n. J. Roháček & K. N. Barber det 2004.  
 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.  
 Holotype ♂: Ramsey Cn. -ARIZ Huachuca Mts. 10.IV.67 5500' D.M. Wood/ HOLOTYPUS ♂ *Stiphrosoma minor* sp.n. J. Roháček & K. N. Barber det. 2004.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Stiphrosoma sororium* Roháček & Barber, Beitr. Ent. 55(1): 84. MEXICO.  
 Holotype ♂: MEX. Chris. 7200ft. S. Crist. las Casas 1. June 1969 Malaise Trap/ HOLOTYPUS ♂ *Stiphrosoma sororium* sp.n. J. Roháček & K. N. Barber det. 2004.  
 Paratypes: 3♂♂, 6♀♀, Mexico.
- ASILIDAE**
- Efferia okanagana* Cannings, 2011, Can. Ent. 143: 580. CANADA.  
 Holotype ♂: CAN, BC, Vernon Kalamalka Lake Prov. Park Cosens Bay, grassland slopes to N 50°11'57.4"N 119°16'06.7"W, 452 m 23.v.1987, R.A. Cannings/ HOLOTYPUS *Efferia* ♂ *okanagana* Cannings det. R.A. Cannings 2011.  
 Paratypes: 7♂♂, 9♀♀, British Columbia.  
 Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Lasiopogon marshalli* Cannings, 2002, The Systematics of *Lasiopogon* (Diptera: Asilidae): 160. USA.  
 Holotype ♂: USA:VA: Giles CountyRipplemead 2k E Pearisburg 37°19'N 80°44'W 27.v.99 NewR. rocky shore SAMarshall/ HOLOTYPUS ♂ *Lasiopogon marshalli* Cannings des. R.A. Cannings 2002.  
 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 ♂: 20 km.w. Silvia Cauca, COLOMBIA 22.II.1970ca. 2000m. D.M.Wood/ HOLOTYPUS *Ommatius Ampliatus* Scarbrough.

*Ommatius aridus* Scarbrough, 2002, Trans. Am. ent. Soc. 128: 201. ECUADOR.

Holotype ♂: ECU:Galapagos Floreana, 3KmEBlack Beach, 120m. 21-28.III.89 up. arid zone malaise Peck&Sinclair, 89-140/ HOLOTYPE *Ommatius aridus* Scarbrough.

Allotype ♀: ECU: Galap; Isabela Arenales, Arid zone, yellow pan tps., 2m, 8-14.III.1989 BJ Sinclair/ ALLOTYPE *Ommatius aridus* Scarbrough.

*Ommatius carbonarius* Scarbrough & Marascia in Scarbrough et al., 2003, Afr. Ent. 11: 239. TANZANIA.

Holotype ♂: TANGANYIKA Uluguru Mts. 1500-1800 m/ HOLOTYPE *Ommatius carbonarius* Scarbrough/Marascia.

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

Paratypes: 3♀♀, Tanzania.

*Ommatius (Pygmatius) 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.

*Ommatius pernecessarius* Scarbrough, 2003, Proc. ent. Soc. Wash. 105: 623. UGANDA.

Holotype ♂: Budongo Forest nr Lk.Albert UGANDA 1000 M Apr 1972 E. B. Babyetagara/ HOLOTYPE *Ommatius pernecessarius* Scarbrough.

Paratype: 1♀, Zambia.

*Ommatius sinuatus* Scarbrough & Marascia in Scarbrough et al., 2003, Afr. Ent. 11: 256. TANZANIA.

Holotype ♂: TANGANYIKA E. Usambara Mts. 1150 m, IV, 1962/ HOLOTYPE *Ommatius sinuatus* Scarbrough/Marascia.

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

*Ommatius tandapiensis* Scarbrough, 2002, Trans. Am. ent. Soc. 128: 184. 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.

Holotype ♂: ECU: Galap: Santa Fe 4.iv.1989, B.J.Sinclair Sweeping Sea lion beach/ HOLOTYPE *Astiosoma sabulosum* Forrest and Wheeler.

Paratypes: 5♂♂, 6♀♀, Ecuador.

*Loewimyia fasciata* Forrest & Wheeler, 2002, Studia dipterol. 9: 310. ECUADOR.

Holotype ♂: ECU:Galap:St.Cruz LosGemelos, 31KmN.Sta.Rosa 13.VI-15.VII.85, S&J Peck Scalesia Forest, 570 m FIT and malaise/ HOLOTYPE *Loewimyia fasciata* Forrest and Wheeler.

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.

Holotype ♂: ECU:GALAPAGOS:Isla Isabela, Pto Villamil 6.III.1989, littoral B.J. Sinclair/ ex. sweeping beach morning glories/ HOLOTYPE *Sigaloessa variatincta* Forrest and Wheeler.

Paratypes: 10♂♂, 18♀♀, Ecuador.

#### ATELESTIDAE

*Nemedromia campania* Grimaldi & Cumming, 1999, Bull. Am. Mus. nat. Hist. 239: 37. CANADA.

Holotype ♂ in amber: AMBER: CANADA (Cretaceous) ALBERTA: Nr. Medicine Hat McAlpine, Cooper, Daze colls CAS 1091 June 1974/ DIPTERA: Empididae/ HOLOTYPE *Nemedromia campania* Grimaldi & Cumming Bull. AMNH. 239: 37-39.

Remarks: Grimaldi & Cumming (1999) incorrectly cited the type locality as Cedar Lake, Manitoba.

*Nemedromia telescopica* Grimaldi & Cumming, 1999, Bull. Am. Mus. nat. Hist. 239: 39. CANADA.

Holotype ♀ in amber: AMBER: CANADA (Cretaceous) ALBERTA: Nr. Medicine Hat McAlpine, Cooper, Daze colls. CAS 920 June 1974/ DIPTERA: Empididae/ HOLOTYPE *Nemedromia telescopica* Grimaldi & Cumming Bull. AMNH. 239: 39-40.

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

#### AXYMYIIDAE

*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

*Bibio atrigigas* Fitzgerald, 1997, Trans. Am. ent. Soc. 123: 239.  
MEXICO.

Holotype ♂: MEXICO, Chiapas Yerba Buena, Hwy 195, 10.VI.1969 B.V. Peterson/ HOLOTYPE

*Bibio atrigigas* Fitzgerald 1997.

Paratypes: 9♂♂, 1♀, Mexico.

*Bibio oreonanus* Fitzgerald, 1997, Trans. Am. ent. Soc. 123: 253.  
MEXICO.

Holotype ♂: 24 mi. W. La Ciudad, Dgo. MEX. 7000' July 8 1964 J.F. McAlpine/ HOLOTYPE *Bibio oreonanus* Fitzgerald 1997.

Paratypes: 9♂♂, Mexico.

*Plecia boliviana* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 142.  
BOLIVIA.

Holotype ♂: BOLIV. Sta. Barbara N. Coroico, Yungas 4-5.I.1976 1100m., L.E. Pena/ HOLOTYPE *Plecia boliviana* Fitzgerald 1998.

Paratypes: 3♂♂, 1♀, Bolivia.

*Plecia pellucida* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 152.  
PERU.

Holotype ♂: Quincemil Cuzco, PERU 13-31.VIII.'62 L. Pena. 780m./ HOLOTYPE *Plecia pellucida* Fitzgerald 1998.

Paratypes: 4♀♀, Peru.

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

*Plecia protea* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 154.  
JAMAICA.

Holotype ♂: JAMAICA, 4000' Hardwar Gap VII.4.1966 Howden & Becker/ HOLOTYPE *Plecia protea* Fitzgerald, 1998.

Paratype: 1♂, Jamaica.

Remarks: The original description of the holotype gives the elevation as 400' and a date of collection of "4 August 1966".

*Plecia ramosa* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 157.  
BRAZIL.

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

Paratypes: 13♂♂, 13♀♀, Brazil.

*Plecia tephra* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 160.  
VENEZUELA.

Holotype ♂: Choroni Rd., Edo. Aragua, VENEZUELA 26.II.71 1500m. G. & M. Wood/ HOLOTYPE *Plecia tephra* Fitzgerald 1998.

Paratypes: 2♀♀, Venezuela.

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

*Plecia triquetra* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 162.  
PERU.

Holotype ♂: Quincemil Cuzco, PERU 13-31.VIII.'62 L. Pena. 780m./ HOLOTYPE *Plecia triquetra* Fitzgerald 1998.

Paratypes: 3♂♂, Peru.

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

*Plecia trunca* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 163.  
BRAZIL.

Holotype male: BRAZIL Sao Paulo, S.P. 27.XII.1972 B.V. Peterson/ HOLOTYPE *Plecia trunca* Fitzgerald 1998.

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

*Plecia xyele* Fitzgerald, 1998, Trans. Am. ent. Soc. 124: 164.  
BRAZIL.

Holotype ♂: Chapada, Parana BRAZIL, 1350 m. 26°34' 51°37' III.63 F. Plaumann/ HOLOTYPE *Plecia xyele* Fitzgerald 1998.

Paratypes: 19♂♂, Brazil.

## BLEPHARICERIDAE

*Bibiocephala canadensis* Garrett, 1922, Insector Inscit. menstr. 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

*Adelogenys culicoides* Hesse, 1938, Ann. S. Afr. Mus. 34: 814.  
SOUTH AFRICA.

Syntypes: 2♂♂, 1♀.

♂: Melton Wold Nieuweveld Victoria W. CP ["Museum Staff Oct 1935" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Adelogenys culicoides* n. sp. ♂ paratype Hesse/ *Adelogenys culicoides* Hesse det. N. Evenhuis.

♂: Melton Wold Nieuweveld Victoria W. CP ["Museum Staff Oct 1935" on underside]/ *Adelogenys culicoides* n. sp. ♂ paratype Hesse/ Frank M. Hull Collection C.N.C. 1973.

♀: Melton Wold Nieuweveld Victoria W. CP ["Museum Staff Oct 1935" on underside]/ Frank

- M. Hull Collection C.N.C. 1973/ *Adelogenys culicoides* n. sp. ♀ paratype Hesse.
- Amictogeron meromelanus* Hesse, 1938, Ann. S. Afr. Mus. 34: 929. SOUTH AFRICA.  
 Syntypes: 2♂♂, 2♀♀.  
 ♂: Tree Kloof Fraserburg C.P. ["Mus. Staff Nov. 1935," on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Amictogeron meromelanus* n. gen & n. sp. ♂ paratype Hesse.  
 ♂: Nieuwveld Beaufort W. Dist. C.P. ["Museum Staff Nov. 1935" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Amictogeron meromelanus* n. gen & n. sp. ♂ paratype Hesse.  
 2♀♀: Nieuwveld Beaufort W. Dist. C.P. ["Museum Staff Nov. 1935" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Amictogeron meromelanus* n. gen & n. sp. ♀ paratype Hesse.
- Apolysis druias* Melander, 1946, Ann. ent. Soc. Am. 39: 460. USA.  
 Remarks: The 4 specimens in the CNC (2 males and 2 females) formerly listed as syntypes by Cooper & Cumming (1993) are now paralectotypes. The lectotype male was designated by Evenhuis & Greathead (1999: 657) and is housed in the United States National Museum of Natural History.
- Crocidium namaquense* Hesse, 1963, Ann. Natal Mus. 15: 279. SOUTH AFRICA.  
 Syntypes: 1♂, ♀.  
 ♂: Knersvlakte ["Mus. Staff Oct. 1939" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Crocidium namaquense* n.sp. ♂ paratype det. A.J. Hesse/ SYNTYPE *Crocidium namaquense* Hesse, CNC No. 20912/ CNC DIPTERA # 195498.  
 ♀: Knersvlakte ["Mus. Staff Oct. 1939" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Crocidium namaquense* n.sp. ♀ paratype det. A.J. Hesse/ CNC DIPTERA # 195499.  
 Remarks: This entry updates that in Cooper & Cumming (1993) with the addition of a subsequently discovered female syntype.
- Doliogethes aridicolus* Hesse, 1938, Ann. S. Afr. Mus. 34: 577. SOUTH AFRICA.  
 Syntypes: 1♂, 1♀.  
 ♂: Melton Wold Nieuweveld Victoria W. CP ["Museum Staff Oct 1935" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Doliogethes aridicolus* n. sp. ♂ paratype det. A.J.Hesse/ CNC DIPTERA # 195506.  
 ♀: Melton Wold Nieuweveld Victoria W. CP ["Museum Staff Oct 1935" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Doliogethes aridicolus* n. sp. ♀ paratype det. A.J.Hesse/ CNC DIPTERA # 195507.
- Doliogethes seriatus vagens* Hesse, 1938, Ann. S. Afr. Mus. 34: 557. SOUTH AFRICA.  
 Syntypes: 1♂, 1♀.  
 ♂: Melton Wold Nieuweveld Victoria W. CP ["Museum Staff Oct 1935" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Doliogethes seriatus* (Wied.) v. *vagens* n. ♂ paratype det. A.J.H./ CNC DIPTERA # 195510.  
 ♀: Melton Wold Nieuweveld Victoria W. CP ["Museum Staff Oct 1935" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Doliogethes seriatus* (Wied.) v. *vagens* n. ♀ paratype det. A.J.H./ CNC DIPTERA # 195511.
- Euprepina truxalia* Hull, 1971, Proc. ent. Soc. Wash. 73: 183. BRAZIL.  
 Holotype ♂: 24 kil. E. of Formosa, Go., Brazil. F.S. Truxal, May 28, 1956.  
 Remarks: Although the original description cites the type as being in the Los Angeles County Museum, it was purchased by the Canadian National Collection as part of the Hull collection, where it is now deposited. Presence of holotype in the CNC was overlooked by Cooper & Cumming (1993).
- Lepidochlanus fimbriatus* Hesse, 1938, Ann. S. Afr. Mus. 34: 615. SOUTH AFRICA.  
 Syntypes: 1♂, 1♀.  
 ♂: Kamieskroon Namaqualand ["Museum Staff Nov. 1936" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Lepidochlanus fimbriatus* n. gen & n. sp. ♂ paratype det. A.J. Hesse/ CNC DIPTERA # 195515.  
 ♀: Kamieskroon Namaqualand ["Museum Staff Nov. 1936" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Lepidochlanus fimbriatus* n. gen & n. sp. ♀ paratype det. A.J. Hesse/ CNC DIPTERA # 195516.
- Mancia nana* Coquillett, 1886, Can. Ent. 18: 159. USA.  
 Remarks: The single male specimen in the CNC formerly listed as a syntype by Cooper & Cumming (1993) is 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* Melander, 1946b, Ann. ent. Soc. Am. 39: 481. USA.  
 Remarks: The single male specimen in the CNC formerly listed as a syntype by Cooper & Cumming (1993) is 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* Hesse, 1956, Ann. S. Afr. Mus. 35: 87. SOUTH AFRICA.  
 Syntypes: 2♂♂, 1♀.  
 ♂: Gough Lainsburg Div. ["Mus. Staff Feb. 1938" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Tomomyza philoxera* n. sp. ♂ paratype det. A.J. Hesse/ CNC DIPTERA # 195542.  
 ♂: Dikbome Merweville Koup C.P. ["Mus. Expd., Oct. 1952" on underside]/ Frank M. Hull Collection C.N.C. 1973/ *Tomomyza philoxera* n. sp. ♂ paratype det. A.J. Hesse/ CNC DIPTERA # 195544.  
 ♀: Gough Lainsburg Div. ["Mus. Staff Feb. 1938" on underside]/ *Tomomyza philoxera* n. sp. ♀ paratype det. A.J. Hesse/ Frank M. Hull

Collection C.N.C. 1973/ CNC DIPTERA #  
195543.

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.

Holotype ♂: Sandbanks, Prince Edward County, Ontario, 8.viii.1965, J.R. Vockeroth.

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.

#### BRACHYSTOMATIDAE

*Heleodromia chillcotti* Sinclair in Sinclair et al., 2011, Can. Ent. 143: 635. CANADA.

Holotype ♂: Kleanza Creek, 14 mi.E.Terrace B.C. 13.VII.1960 J.G. Chillcott/ HOLOTYPE

*Heleodromia chillcotti* Sinclair.

Paratypes: 20♂♂, 4♀♀, British Columbia; 7♂♂, California; 3♂♂, 4♀♀, Utah.

*Heleodromia cranehollowensis* Cumming & Coovert in Sinclair et al., 2011, Can. Ent. 143: 638. USA.

Holotype ♂: GAC 3185#3/ OHIO, Hocking Co., Laurel Twp. Crane Hollow Aug. 19, 2009/ Collector: G.A. Coovert cf field notes/ HOLOTYPE

*Heleodromia cranehollowensis* Cumming & Coovert

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.

#### CALLIPHORIDAE

*Catapicephala dasyophthalma* Villeneuve, 1927, Rev. Zool. Afr. 15: 222. TAIWAN.

Holotype ♀: Formosa Sauter/ Kosempo 908.III.21/ Oculi pilosi/ *Catapicephala dasyophthalma* Typ. Villen. ♀/ Holotype C. dasyophthalma Villeneuve Det. H. Kurahashi.

#### CAMILLIDAE

*Afrocamilla arizona* Barraclough & Wheeler, 1995, Proc. ent. Soc. Wash. 97: 739. USA.

Holotype ♂: Ramsey Canyon Huachuca Mts 13 m.s. Sierra Vista Cochise Co. ARIZ Mar. 7- 11.1967 R.F. Sternitski/ Holotype ♂ AFROCAMILLA ARIZONA Barraclough & Wheeler/ HOLOTYPE Afrocamilla arizona Barraclough & Wheeler CNC No. 22274.

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

*Afrocamilla bispinosa* Barraclough & Wheeler, 1995, Proc. ent. Soc. Wash. 97: 741. USA.

Holotype ♀: San Dimas Can. Los Angeles Co. II - 2 - 1958 Reared III-10-58/ Collector R.E. Ryckman/ Holotype ♀ AFROCAMILLA BISPINOSA Barraclough & Wheeler/ HOLOTYPE Afrocamilla bispinosa Barraclough & Wheeler CNC No. 22275.

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

#### CANACIDAE

*Masoniella advena* Foster & Mathis, 2003, Smithson. Contr. Zool. 619: 50. ARGENTINA.

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

Paratype: 1♂, Argentina.

*Masoniella flabella* Foster & Mathis, 2003, Smithson. Contr. Zool. 619: 54. ARGENTINA.

Holotype ♂: ARGENT.Salta Rio Juramento, 60km. S. Guemes, 18.X.68.Pena/ HOLOTYPE Masoniella flabella ♂ Foster & W.N. Mathis.

Paratypes: 4♂♂, 7♀♀, Argentina.

*Masoniella richardsi* Vockeroth, 1995, Proc. ent. Soc. Wash. 97: 732. USA.

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).

*Masoniella spatulata* Foster & Mathis, 2003, Smithson. Contr. Zool. 619: 56. CHILE.

Holotype ♂: Chile Chico Lag. Buenos Aires Aysen, CHILE 24-31.XII. '60. Pena/ HOLOTYPE Masoniella spatulata ♂ Foster & W.N. Mathis.

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

*Pelomyia crassiseta* Foster & Mathis, 2003, Smithson. Contr. Zool. 619: 44. CHILE.

- Holotype ♂: Chile Chico Lag. Buenos Aires Aysen, CHILE 24-31.XII. '60. Pena/ HOLOTYPE  
*Pelomyia* ♂ *crassisetata* Foster & W.N. Mathis.  
 Paratypes: 9♂♂, 28♀♀, Chile.
- Pelomyia crassispina* Foster & Mathis, 2003, *Smithson. Contr. Zool.* 619: 46. ARGENTINA.  
 Holotype ♂: ARGENT.Jujuy La Quiaca 23.X.68.3500m. L.E.Pena/ HOLOTYPE *Pelomyia* ♂ *crassispina* Foster & W.N. Mathis.  
 Paratypes: 2♀♀, Argentina.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Pelomyia dentata* Foster & Mathis, 2003, *Smithson. Contr. Zool.* 619: 24. ARGENTINA.  
 Holotype ♂: ARGENT.Jujuy La Quiaca 23.X.68.3500m. L.E.Pena/ HOLOTYPE *Pelomyia dentata* ♂ Foster & W.N. Mathis.  
 Remarks: Holotype abdomen is stored in glycerine in a glass microvial pinned below specimen. Right wing of holotype is glued to pin above pinned specimen.
- Pelomyia grisecoxa* Foster & Mathis, 2003, *Smithson. Contr. Zool.* 619: 47. CHILE.  
 Holotype ♂: El Coigo, Curico, CHILE. Jan. 1961 L.E.Pena/ HOLOTYPE *Pelomyia grisecoxa* ♂ Foster & W.N. Mathis.  
 Remarks: Holotype abdomen is stored in glycerine in a glass microvial pinned below specimen. Right wing of holotype is glued to pin above pinned specimen.
- Pelomyia nigritarsis* Foster & Mathis, 2003, *Smithson. Contr. Zool.* 619: 29. ARGENTINA.  
 Holotype ♂: ARGENT.Jujuy La Quiaca 23.X.68.3500m. L.E.Pena/ HOLOTYPE *Pelomyia nigritarsis* ♂ Foster & W.N. Mathis.  
 Paratypes: 11♂♂, 1♀, Argentina; 20♂♂, 16♀♀, Chile.
- Pelomyia robustiseta* Foster & Mathis, 2003, *Smithson. Contr. Zool.* 619: 31. ARGENTINA.  
 Holotype ♂: ARG.Juj.4100m. Coyaquayma. 7km. S.Mina Perquitas 4.XI.68.Pena/ HOLOTYPE *Pelomyia robustiseta* ♂ Foster & W.N. Mathis.  
 Paratype: 1♂, Chile.  
 Remarks: Holotype abdomen is stored in glycerine in a glass microvial pinned below specimen.
- Pelomyia vockerothi* Foster & Mathis, 2003, *Smithson. Contr. Zool.* 619: 35. ARGENTINA.  
 Holotype ♂: ARGENT.Jujuy Agua Caliente NE.Guemes,1100m. 18-19.X.68.Pena/ HOLOTYPE *Pelomyia vockerothi* ♂ Foster & W.N. Mathis.  
 Paratypes: 29♂♂, 29♀♀, Argentina.
- CARNIDAE**
- Meoneura sinclairi* Wheeler, 2000b, *Studia dipterol.* 7: 116. ECUADOR.  
 Holotype ♂: ECU: Galap; San Cristobal Pto. Baquerizo, South beach 21.II.1989, marine iguana nesting sites, littoral BJ Sinclair/ HOLOTYPE *Meoneura sinclairi* Wheeler.  
 Paratypes: 100♂♂, 96♀♀, Ecuador.
- CECIDOMYIIDAE**
- Chamaediplosis nootkatensis* Gagne & Duncan, 1990, *Proc. ent. Soc. Wash.* 92: 151. CANADA.  
 Holotype ♂ (slide): *Chamaecyparis nootkatensis* Saanichton, B.C. 3.III.87 R. Duncan Can. Balsam [red bordered label]/ ♂ Holotype *Chamaediplosis nootkatensis* Gagne & Duncan C.N.C. # 21180 [red bordered label].  
 Paratypes: 1♂, 2♀♀ (slides), British Columbia.
- Contarinia constricta* 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.  
 Allotype ♀ (slide): *Contarinia pseudotsugae* ♀ Allotype CNC.  
 Paratypes: 4♂♂, 4♀♀ adults (slides), 3♂♂, 2♀♀ pupae (slides), 5 instar II larvae, 5 instar III larvae, British Columbia.
- Cretocatocha mcalpinei* Gagné, 1977, *Proc. ent. Soc. Wash.* 79: 58. CANADA.  
 Holotype ♂ in amber: nr. Medicine Hat, Alta., McAlpine and Teskey, May 1973/ Can. Nat. Coll. Type No. CAS 593, *Cretocatocha mcalpinei* Gagné Holotype Slide No.  
 Remarks: This species was listed in an addendum in Cooper & Cumming (1993: 82).
- Cretomiaster ferejunctus* Gagné, 1977, *Proc. ent. Soc. Wash.* 79: 62. CANADA.  
 Holotype ♀ in amber: nr. Medicine Hat, Alta., McAlpine, Cooper, Daze/ Can. Nat. Coll. Type No. CAS 1163c, *Cretomiaster ferejunctus* Gagné, HOLOTYPE, Slide No.  
 Paratype in amber: 1♂, Alberta.  
 Remarks: This species was listed in an addendum in Cooper & Cumming (1993: 82).

- Cretowinnertzia angustala* Gagné, 1977, Proc. ent. Soc. Wash. 79: 60. CANADA.  
Holotype ♀ in amber: Cedar Lake, Man., July 1950, Bird and Brown/ Can. Nat. Coll. Type No. CAS 25, *Cretowinnertzia angustala* Gagné, HOLOTYPE Slide No.  
Remarks: This species was listed in an addendum in Cooper & Cumming (1993: 82).
- Dicerura adunca* Borkent, 1990, Proc. ent. Soc. Wash. 92: 574. CANADA.  
Holotype ♂ (slide): Ancaster Spring Valley Cons. Area, Wentworth Co., ONT. 6-7.VI.1984 I.M.Smith CD207/ HOLOTYPE ♂ *Dicerura adunca* Borkent CNC No. 20343.  
Paratype: 1 ♂ (slide), Ontario.
- Dicerura carpiensis* Borkent, 1990, Proc. ent. Soc. Wash. 92: 575. CANADA.  
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.
- Dicerura cooperi* Borkent, 1990, Proc. ent. Soc. Wash. 92: 576. CANADA.  
Holotype ♂ (slide): 3km N.Picadilly, Nfld. 25-VI-83 A.Borkent CD71 Sweeping grass/ HOLOTYPE ♂ *Dicerura cooperi* Borkent CNC No. 20345.
- Dicerura curva* Borkent, 1990, Proc. ent. Soc. Wash. 92: 576. CANADA.  
Holotype ♂ (slide): Springwater Cons.area nr. Alymer, ONT. 27-VI-11-VII-1984 K. Ferguson CD253/ HOLOTYPE ♂ *Dicerura curva* Borkent CNC No. 20346.  
Paratypes: 1 ♂ (slide), Nova Scotia; 1 ♂ (slide), Ontario.
- Dicerura loba* Borkent, 1990, Proc. ent. Soc. Wash. 92: 580. CANADA.  
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.
- Insulestremia sinclairi* Jaschhof, 2004, Faun. Abh. Dresden 25: 103. ECUADOR.  
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: 4 ♂♂, 1 ♀ (slides), Ecuador, Galapagos Islands.
- Peromyia galapagensis* Jaschhof, 2004, Faun. Abh. Dresden 25: 104. ECUADOR.  
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./ Holo-type/ det. M. JASCHHOF *Peromyia galapagensis* JASCHHOF.  
Paratypes: 2 ♂♂ (slides), Ecuador, Galapagos Islands.
- Phytophaga piceae* Felt, 1926, Can. Ent. 58: 229. CANADA.  
Lectotype ♀: Aweme, Man., N. Criddle I.V.1926/Paratype P. *piceae* Felt, No. 2288/Syntype *Phytophaga piceae* Felt, CNC No. 2288.  
Paralectotypes: 23 ♂♂, Manitoba.  
Remarks: This entry updates the listing in Cooper (1991) in light of the designation of a lectotype for *Phytophaga piceae* Felt by Gagné & Graney (2014: 390).
- Phytophaga thujae* Hedlin, 1959, Can. Ent. 91: 719. CANADA.  
Holotype ♂ (slide): *Phytophaga thujae* Hedlin Jan. 23, 1958 Langford, 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.
- Stenodiplosis phragmicola* Sinclair & Ahee, 2013, Can. Ent. 145: 239. CANADA.  
Holotype ♂ (slide): CAN: ONT: Peterborough 28.viii.2011 N44°17.635' W78°20.150' J. Ahee, leg. ex. reared from inflorescences of *Phragmites australis* ♂/ HOLOTYPE *Stenodiplosis phragmicola* Sinclair & Ahee/ CNC DIPTERA #12257.  
Paratypes: 10 ♂♂, 10 ♀♀, Ontario.

## CERATOPOGONIDAE

- Adelohelea glabra* Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 46. CANADA.  
Holotype ♂ in amber (slide): HOLOTYPE *Adelohelea glabra* Borkent ♂ CNC # 22062 Cedar Lake, Manitoba August, 1963 J.F. McAlpine & CAS 530 J.E.H.Martin.  
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 & Jarzembowski, 2013, Polskie Pismo Ent. 82: 275. ENGLAND.  
Holotype ♀ (compression fossil of wing): Holotype *Archiaustroconops besti* BORKENT, CORAM and JARZEMBOWSKI, Durlston Bay, Swanage, Dorset (National Grid Reference SZ 035 780), Durlston Formation, Purbeck Limestone Group, coll. A.A. Mitchell/ CNC DIPTERA 225232.
- Atrichopogon borkenti* Wirth, 1994, Insecta Mundi 8: 25. CANADA.  
Holotype ♀ (slide): 20 km. E. Pemberton, B.C. 14-VIII-1991 A. Borkent CD1374/ Holotype ♀ *Atrichopogon borkenti* Wirth.  
Allotype ♂ (slide): Same data as holotype except with allotype label.
- Atrichopogon carnatus* Borkent & Picado, 2004, Zootaxa 637: 13. COSTA RICA.



- Holotype ♂ (slide): COSTA RICA. Prov. Puntarenas. 2km E. Sta. Elena. 1540m. 26 AGO 1993. Borkent. A. LN 257050 447000 # 74985/ HOLOTYPE *Atrichopogon carnatus* Borkent and Picado/ INB0003754658 INBIOCRI COSTA RICA/ H *Atrichopogon* sp. B6 ♂ INBio CD. 1557 6.  
Paratypes: 11 ♂♂ (slides), Costa Rica.
- Atrichopogon colossus* Borkent & Picado, 2004, Zootaxa 637: 10. COSTA RICA.  
Holotype ♂ (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/ INB0003754666 INBIOCRI COSTA RICA/ H *Atrichopogon* sp. AD ♂ INBio CD. 1556 2.  
Allotype ♀ (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/ INB0003754671 INBIOCRI COSTA RICA/ A *Atrichopogon* sp. AD ♀ INBio CD. 1556 4.  
Paratypes: 6 ♂♂ (slides), Costa Rica.
- Atrichopogon granditibialis* Borkent & Picado, 2004, Zootaxa 637: 20. COSTA RICA.  
Holotype ♂ (slide): COSTA RICA. Prov. Cartago. P.N. Tapanti. 8 Km SE Orosi. 22 DEC 1993. Borkent. A. L N 192600 560500 # 74977/ HOLOTYPE *Atrichopogon granditibialis* Borkent and Picado/ INB0003754583 INBIOCRI COSTA RICA/ H *Atrichopogon* sp. O ♂ INBio CD. 1718 5.  
Allotype ♀ (slide): Same data as holotype except allotype label and "INB0003754585"; "A *Atrichopogon* sp. O ♀ INBio CD. 1718 1".  
Paratypes: 11 ♂♂ (slides), Costa Rica.
- Atrichopogon setosilateralis* Borkent & Picado, 2004, Zootaxa 637: 33. COSTA RICA.  
Holotype ♂ (slide): COSTA RICA. Prov. Cartago. P.N. Tapanti. 8 Km SE Orosi. 1400m. 12 DEC 1999. Borkent, A., A. Picado. L.N. 192600 560500 # 74970/ HOLOTYPE *Atrichopogon setosilateralis* Borkent and Picado/ INB0003754480 INBIOCRI COSTA RICA/ H *Atrichopogon* sp. BW ♂ (Lophomyiidae) CD.5037 3.  
Paratype: 1 ♂ (slide), Costa Rica.
- Atrichopogon spinosus* Borkent & Picado, 2004, Zootaxa 637: 12. COSTA RICA.  
Holotype ♂ (slide): La Selva Biological Station, Costa Rica, 40 m, 1-2-III-2004, A. Borkent, CD5408/ HOLOTYPE *Atrichopogon spinosus* Borkent and Picado/ A ♂ 2 INBio CD. 5408.
- Atrichopogon tapantiensis* Borkent & Picado, 2004, Zootaxa 637: 34. COSTA RICA.  
Holotype ♂ (slide): Costa Rica. Prov. Cartago. P.N. Tapanti. 8 Km SE Orosi. 22 DEC 1993. Borkent. A. L. N. 192600 560500 # 74977/ HOLOTYPE *Atrichopogon tapantiensis* Borkent and Picado/ INB0003754586 INBIOCRI COSTA RICA/ H *Atrichopogon* sp BX ♂ INBio CD. 1718 3  
Paratypes: 3 ♂♂ (slides), Costa Rica.
- Atrichopogon yolancae* Borkent & Picado, 2004, Zootaxa 637: 24. COSTA RICA.  
Holotype ♂ (slide): 3kmE. Cahuita, C.R. 29-X-1993 A. Borkent CD1641/ HOLOTYPE *Atrichopogon yolancae* Borkent and Picado/ ♂ INBio CD.1641 3.  
Paratypes: 19 ♂♂ (slides), Costa Rica.
- Atrichopogon (Meloehalea) ladislavi* Tóthová in Tóthová et al., 2009, Zootaxa 2023: 13. CANADA.  
Holotype ♀ (slide): HOLOTYPE *Atrichopogon ladislavi* Tóthová/ nr. Rowanton, P.Q., 29. vii. 1954, J.A. Downes, No. J.A.D. 126/4/29, Can. Nat. Collection.  
Paratype: 1 ♀, Quebec (slide).
- Baeodasymyia christopheri* Borkent in Borkent & Craig, 1999, Am. Mus. Novit. 3274: 15. COSTA RICA.  
Holotype ♂ (slide): HOLOTYPE *Baeodasymyia christopheri* Borkent/ Atenas, C.R., 4-X-1993, A. Borkent CD1600/ ♂ CD1600 4.  
Allotype ♀ (slide): ALLOTYPE *Baeodasymyia christopheri* Borkent/ Atenas, C.R. 8-IX-1993 A. Borkent CD1573/ ♀ CD1573 10.  
Paratypes: 16 ♂♂, 17 ♀♀, 1 pupal exuviae, 1 pupa, 1 larval exuviae, 7 ♂♂, 6 ♀♀, (slides), 2 pupae, 1 larvae, (slides), Costa Rica.
- Baeodasymyia lydiae* Borkent in Borkent & Craig, 1999, Am. Mus. Novit. 3274: 19. COSTA RICA.  
Holotype ♂ (slide): Atenas, C.R. 7-XII-1993 A. Borkent CD1697/ ♂ CD1697 2/ HOLOTYPE *Baeodasymyia lydiae* Borkent.  
Allotype ♀ (slide): Atenas, C.R. 5-X-1993 A. Borkent CD1604/ ♀ CD1604 1/ ALLOTYPE *Baeodasymyia lydiae* Borkent.  
Paratypes: 2 ♂♂ (slides), 1 ♀ (slide), 1 ♀ (pinned), Costa Rica.
- Baeodasymyia michaeli* Borkent in Borkent & Craig, 1999, Am. Mus. Novit. 3274: 13. COSTA RICA.  
Holotype ♂ (slide): HOLOTYPE *Baeodasymyia michaeli* Borkent/ Atenas, C.R., 25-X-1993, A. Borkent CD1630/ ♂ CD1630 8.  
Allotype ♀ (slide): ALLOTYPE *Baeodasymyia michaeli* Borkent/ Atenas, C.R. 16-X-1993 A. Borkent CD1610/ ♀ L,P CD1610 9.  
Paratypes: 110 ♂♂, 120 ♀♀, 9 pupal exuviae, 1 pupa, 10 larval exuviae, 2 second instars, 8 third instars, 8 fourth instars, 11 ♂♂, 12 ♀♀, (slides), 11 larvae, 7 pupae (slides) Costa Rica.
- Ceratopogon abstrusus* Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 40. CANADA.  
Holotype ♂ (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 ♂ [white label with black border].  
Allotype ♀ (slide): Same data as holotype except with allotype label.  
Paratypes: 2 ♂♂ (slides), British Columbia.

- Ceratopogon annettae* 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 annettae* 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 ater* Meigen, 1818, Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. 1: 84. LATVIA.  
 Neotype ♂ (slide): LATVIA, Jumurda lake E. Remm, 21.6.67/ NEOTYPE *Ceratopogon ater* Meigen male CNC No. 20130/ *Serromyia atra* Mg. H. Remm/ *Serromyia atra* Det. A. Borkent.  
 Remarks: Neotype designation of *Serromyia ater* (Meigen) in Borkent & Bissett (1990: 194).
- 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.  
 Allotype ♀ (slide): Same data as holotype except with allotype label.  
 Paratypes: 1♂, 2♀♀ (slides), Austria.
- Ceratopogon flavipes* Gimmerthal, 1847, Bull. Soc. Nat. Moscou 20: 144. ENGLAND.  
 Neotype ♂ (slide): Oxford, ENGLAND 6. V. 1953 J. R. Vockeroth/ NEOTYPE *Ceratopogon flavipes* Gimmerthal male CNC No. 20272/ *Serromyia femorata* Det. A. Borkent.  
 Remarks: Neotype designation of *Serromyia flavipes* (Gimmerthal) in Borkent & Bissett (1990: 197).
- Ceratopogon foersteri* Meigen, 1838, Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. 7: 21. ENGLAND.  
 Neotype ♂ (slide): Newcastle-u-Lyme Staffs. ENGLAND 3. VI. 1960 J. R. Vockeroth/ NEOTYPE *Ceratopogon foersteri* Meigen ♂ CNC No. 20249/ *Serromyia femorata* Det. A. Borkent.  
 Remarks: Neotype designation of *Serromyia foersteri* (Meigen) in Borkent & Bissett (1990: 197).
- Ceratopogon inverecondus* 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 inverecondus* 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♂♂ (slides), British Columbia.
- Ceratopogon mammulus* Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 65. CANADA.  
 Holotype ♂ (slide): HOLOTYPE *Ceratopogon mammulus* Borkent and Grogan CNC #21291/ Yukon Territory, km 75-125 Dempster Hwy 19-VI-1984 S.&J. Peck CD245.  
 Allotype ♀ (slide): Same data as holotype except with allotype label.  
 Paratypes: 1♀ (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.  
 Allotype ♀ (slide): ALLOTYPED *Ceratopogon multisetosus* Borkent and Grogan CNC #21293/ Nova Scotia, 30 km NE Cheticamp, North Mountain, 10.vi.1983.  
 Paratypes: 2♀♀ (slides), Nova Scotia; 6♂♂ (slides), British Columbia.
- Ceratopogon pubiantennalis* Borkent & Grogan, 1995, Mem. ent. Soc. Wash. 15: 74. CANADA.  
 Holotype ♂ (slide): HOLOTYPE *Ceratopogon pubiantennalis* Borkent and Grogan CNC #21292/ Hazen Camp, Ellesmere I., 24.VII.1961, D.R. Oliver J.A.D. 328/2/2.  
 Allotype ♀ (slide): Same data as holotype except with allotype label and a date of "11.vii.1962".  
 Paratypes: 12♂♂, 39♀♀ (slides), Nunavut; 1♂ (slide), Yukon Territory; 1♀ (slide), Quebec.
- Culex morio* Fabricius, 1775, Systema entomologiae: 800. ENGLAND.  
 Neotype ♂ (slide): Oxford, ENGLAND 13. V. 1953 J. R. Vockeroth/ *Serromyia morio* Fabricius Neotype CNC No. 20131/ 57.  
 Remarks: Neotype designation of *Serromyia morio* (Fabricius) in Borkent & Bissett (1990: 199).
- Culicoides bullus* Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 61. CANADA.  
 Holotype ♂ in amber (slide): HOLOTYPE *Culicoides bullus* Borkent ♂ CNC # 22064 nr. Medicine Hat, Alta. 1973 P. Boston CAS 791.
- Culicoides picadoae* Spinelli & Borkent, 2004a, Proc. ent. Soc. Wash. 106: 381. COSTA RICA.  
 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.
- Culicoides zumbadoi* Spinelli & Borkent, 2004a, Proc. ent. Soc. Wash. 106: 383. COSTA RICA.  
 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".
- Culicoides (Avaritia) hermani* Spinelli & Borkent, 2004a, Proc. ent. Soc. Wash. 106: 363. PANAMA.  
 Holotype ♂ (slide): 8kmW. Boquete, PAN 21-IX-1993 A. Borkent CD1583 CD.1583/ HOLOTYPE *Culicoides hermani* Spinelli and Borkent/ ♂/ H.  
 Allotype ♀ (slide): 4kmN. Sacramento, C.R. 10-X-1993 A. Borkent CD1609/ ALLOTYPED *Culicoides*

- hermani Spinelli and Borkent/ ♀ biting human  
INBio CD.1609/ A.  
Paratypes: 2♀♀ (slides), Costa Rica.
- Culicoides (Hoffmania) annettae* Spinelli & Borkent, 2004a, Proc. ent. Soc. Wash. 106: 365. COSTA RICA.  
Holotype ♂ (slide): Tarcoles, C.R. 1-I-1994 A. Borkent CD1730/ HOLOTYPE *Culicoides annettae* Spinelli and Borkent/ ♂ INBio CD.1730.  
Allotype ♀ (slide): Same data as holotype except with allotype label.  
Paratype: 1♀ (with pupal exuviae) (slide), Costa Rica.
- Dasyhelea digna* Borkent, 1996, Mem. ent. Soc. Wash. 18: 92. HAWAII.  
Holotype ♂ (slide): 2 km.S. Puhī, Kauai, HA, 8-III-1990 A. Borkent, CD1160/ HOLOTYPE *Dasyhelea digna* Borkent/ ♂.  
Allotype ♀ (slide): Same data as holotype except with allotype label.  
Paratypes: 10♀♀ (slides), Hawaii.
- Dasyhelea excellentis* Borkent, 1996, Mem. ent. Soc. Wash. 18: 91. HAWAII.  
Holotype ♂ (slide): 1.5 km.W. Hanapepe, Kauai, Hawaii 28-II-1990 A. Borkent CD1156/ HOLOTYPE *Dasyhelea excellentis* 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.  
Holotype ♂ (slide): HOLOTYPE *Dasyhelea sinclairi* Borkent, CNC No. 20847/ Galapagos Is., Ecu., Is. Isabella, Pto. Villamil, 7-III-89, B. J. Sinclair.  
Allotype ♀ (slide): Same data as holotype except with allotype label.  
Paratypes: 2♂♂, 4♀♀ (slides), Ecuador.
- Forcipomyia (Metaforcipomyia) atenasensis* Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 13. COSTA RICA.  
Holotype ♂ (slide): *Forcipomyia (Metaforcipomyia) atenasensis* S., M. & B. HOLOTYPE/ Atenas, C.R. 29-XI-1993 A. Borkent CD1688.
- Forcipomyia (Metaforcipomyia) albipluma* Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 27. COSTA RICA.  
Holotype ♂ (slide): *Forcipomyia (Metaforcipomyia) albipluma* S., M. & B. HOLOTYPE/ 8 km SE Orosi, Tapantí National Park, CR, 11-XII-1999, A. Picado y A. Borkent, 193200N/560200E, 1200 m, CD5032.  
Paratypes: 4♂♂, 1♀ (slides), Costa Rica.
- Forcipomyia (Metaforcipomyia) germinata* Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 29. COSTA RICA.  
Holotype ♂ (slide): *Forcipomyia (Metaforcipomyia) germinata* S, M & B HOLOTYPE, 2 km NE Tárcoles, C.R. 17-XII-1993, Borkent, CD1710.
- Forcipomyia (Metaforcipomyia) heroni* Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 31. COSTA RICA.  
Holotype ♂ (slide): *Forcipomyia (Metaforcipomyia) heroni* S, M & B HOLOTYPE/ 3 km E Cahuita, C.R. 27-X-1993, A. Borkent CD1633.  
Paratypes: 2♂♂, 10♀♀ (slides), Costa Rica.
- Forcipomyia (Metaforcipomyia) ronderosae* Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 33. COSTA RICA.  
Holotype ♂ (slide): *Forcipomyia (Metaforcip.) 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♂♂ (slides), Costa Rica.
- Forcipomyia (Metaforcipomyia) rursa* Spinelli, Marino & Borkent, 2012, Zootaxa 3419: 24. COSTA RICA.  
Holotype ♂ (slide): *Forcipomyia (Metaforcipomyia) rursa* S., M & B. HOLOTYPE/ 8 km SE Orosí, Tapantí National Park, CR, 11-XII-1999, A. Picado y A. Borkent, 193200N/560200E, 1200 m, CD5032.  
Paratypes: 6♂♂, 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/ ALLOTYPED *Forcipomyia harpa* Spinelli and Borkent.  
Paratypes: 8♂♂, 2♀♀ (slides), Costa Rica.
- Heleageron arenatus* Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 48. CANADA.  
Holotype ♂ in amber (slide): HOLOTYPE *Heleageron arenatus* Borkent male CNC # 22066 nr. Medicine Hat, Alta. June, 1974 McAlpine, Cooper & Daze CAS 985M-1.  
Paratypes in amber: 1♂, 2♀♀ (slides), Alberta.
- Isoeacta poeyi* Garrett, 1925b, Seventy new Diptera, p. 9. CANADA.  
Holotype ♀: CRANBROOK, 24.VIII. BC/ HOLOTYPE ISOEACTA POEYI ♀ C Garrett, C.B.D. GARRETT/ SYNTYPE *Isoeacta poeyi* Garrett, CNC No. 7928.  
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 Midges in the Cretaceous Amber of North America: 30. CANADA.  
Holotype ♂ in amber (slide): HOLOTYPE *Leptoconops primaevus* Borkent ♂ CNC # 22067 nr. Medicine Hat, Alta. 1973 P. Boston A-1 CAS 792.  
Allotype ♀ in amber (slide): ALLOTYPED *Leptoconops primaevus* Borkent ♀ CNC # 22067 nr. Medicine Hat, Alta. May, 1973 McAlpine : TeskeyAG-6 CAS 733.  
Paratypes in amber: 5♀♀ (slides), Alberta.

- Minyohelea pumilis* Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 69. CANADA.  
 Holotype ♂ in amber (slide): C.N.C. No. CAS 131 CERATOPOGONIDAE (DIPTERA) nr. Medicine Hat, Alta. 1963 P. Boston Det. Phuoc T. Dang CNC # 22068/ HOLOTYPE *Minyohelea pumilis* Borkent (closest to arrows)/ 5 PARATYPES *Minyohelea pumilis* Borkent.  
 Allotype ♀ in amber (slide): ALLOTYPE *Minyohelea pumilis* Borkent female CNC # 22069 nr. Medicine Hat, Alta. May, 1973 McAlpine : Teskey CAS 709.  
 Paratypes in amber: 5♂♂ (slide), Alberta.  
 Remarks: Holotype and paratypes are mounted on the same slide.
- Palaeobrachypogon remmi* Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 76. CANADA.  
 Holotype ♂ in amber (slide): HOLOTYPE *Palaeobrachypogon remmi* Borkent ♂ CNC # 22069 nr. Medicine Hat, Alta. June, 1974 N-1 Daze, Cooper, McAlpine CAS 947b- 1 ass.♂.
- Palaeobrachypogon vetus* Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 78. CANADA.  
 Holotype ♂ in amber (slide): HOLOTYPE *Palaeobrachypogon vetus* Borkent ♂ CNC # 22070+mite ? & homoptera ? nr. Medicine Hat, Alta. June, 1974 McAlpine, Cooper & Daze CAS 1198.  
 Allotype ♀ in amber (slide): ALLOTYPE *Palaeobrachypogon vetus* Borkent ♀ CNC # 22070 nr. Medicine Hat, Alta. May, 1973 AJ-1 McAlpine & Teskey CAS 692.  
 Paratype in amber: 1♀ (slide), Alberta.
- Peronehelea chrimikalydia* Borkent, 1995, Biting Midges in the Cretaceous Amber of North America: 82. CANADA.  
 Holotype ♂ in amber (slide): HOLOTYPE *Peronehelea chrimikalydia* Borkent CNC # 22071 nr. Medicine Hat, Alta. May, 1973 McAlpine & Teskey J-4 CAS 882.  
 Allotype ♀ in amber (slide): ALLOTYPE *Peronehelea chrimikalydia* Borkent ♀ CNC # 22071 nr. Medicine Hat, Alta. July 8-11, 1971 J.F. McAlpine A-1 J- ♂ (3) CAS 339b ass.♂.  
 Paratypes in amber: 2♂♂, 1♀ (slides), Alberta; 1♀ (slide), Manitoba.
- Protoculicoides ciliatus* Borkent, 2012, Can. Ent. 144: 762. CANADA.  
 Holotype ♂ (amber inclusion): HOLOTYPE *Protoculicoides ciliatus* Borkent/ ♂ nr. Medicine Hat, Alta. June, 1976 McAlpine, Cooper, Daze CAS 1231 I-2.  
 Paratype: 1♂, Alberta.  
 Remarks: The amber piece including the holotype is mounted on a microscope slide with Canada Balsam.
- Serromyia borealis* Borkent in Borkent & Bissett, 1990, Syst. Ent. 15: 186. CANADA.  
 Holotype ♂ (slide): 3.2 km.N.Nordegg, Alta., 28-VI-1985 A.Borkent CD379/ HOLOTYPE *Serromyia borealis* Borkent CNC No. 20128.  
 Allotype ♀ (slide): Same data as holotype except with allotype label.  
 Paratypes: 1♀ (slide), Manitoba; 2♂♂, 1♀ (slides), Alberta.
- Serromyia gelida* Kieffer, 1925, Archs Inst. Pasteur Algér. 429. LATVIA.  
 Neotype ♂ (slide): LATVIA Sivera lake E.Remm 17.6.67/ *Serromyia* ♂ dipetala R. det. H. Remm/ CNC No. 20250 *Serromyia gelida* Kieffer NEOTYPE/ *Serromyia rufitarsus* Det. A. Borkent/ 7.  
 Remarks: Neotype designation of *Serromyia gelida* (Kieffer) in Borkent & Bissett (1990: 202).
- Serromyia inermipes* Kieffer, 1919, Annl. Mus. Hungarici 17: 73. ENGLAND.  
 Neotype ♂ (slide): Brockenhurst Hants, ENGLAND 3.V. 1951 J.R.Vockeroth/ NEOTYPE *Serromyia inermipes* Kieffer ♂ CNC No. 20273/ *Serromyia femorata* Det. A. Borkent.  
 Remarks: Neotype designation of *Serromyia inermipes* (Kieffer) in Borkent & Bissett (1990: 197).
- Serromyia ledicola* Kieffer, 1925, Beitr. Kunde Estlands 10: 156. ESTONIA.  
 Neotype ♂ (slide): ESTONIA Hiiumaa H.Remm 8.8.53/ NEOTYPE CNC No. 20129/ *Serromyia ledicola* K det. H.Remm/ 56.  
 Remarks: Neotype designation of *Serromyia ledicola* Kieffer in Borkent & Bissett (1990: 192).
- Serromyia nudiculis* Borkent in Borkent & Bissett, 1990, Syst. Ent. 15: 188. USA.  
 Holotype ♂ (slide): Maine, 33.5km S. Ashland CD587 2.VII.1986 A.Borkent/ HOLOTYPE *Serromyia nudiculis* Borkent CNC No. 20126.  
 Allotype ♀ (slide): Same data as holotype except with allotype label.  
 Paratypes: 1♂, 2♀♀ (slides), New Brunswick; 15♀♀ (slides), Quebec; 6♀♀ (slides), Ontario; 1♂, 7♀♀ (slides), Vermont; 6♀♀ (slides), Maine.
- Serromyia nudipennis* Kieffer, 1913, Bull. Soc. Hist. nat. Metz 28: 10. ENGLAND.  
 Neotype ♂ (slide): Oxford, ENGLAND 13. V. 1953 J. R. Vockeroth/ *Serromyia nudipennis* Kieffer NEOTYPE CNC No. 20248/ *Serromyia morio* Det. A. Borkent.  
 Remarks: Neotype designation of *Serromyia nudipennis* (Kieffer) in Borkent & Bissett (1990: 199).
- Serromyia vockerothi* Borkent in Borkent & Bissett, 1990, Syst. Ent. 15: 191. CANADA.  
 Holotype ♂ (slide): 10 km.S.Victoria Beach, Manitoba 18-VI-1985 A.Borkent CD368/ HOLOTYPE *Serromyia vockerothi* Borkent CNC No. 20127.  
 Allotype ♀ (slide): Same data as holotype except with allotype label.

## 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.  
Holotype ♂: Brazil: Sao Paulo, Analandia, 19-2-1989, F.D. Bennett/ ex waxy scale on guava/ HOLOTYPUS ♂, Echinoleucopis macula Gaimari et Tanasijtshuk.  
Paratypes: 9♂♂, 9♀♀, Brazil.
- Echinoleucopis nigrolinea* Gaimari & Tanasijtshuk, 2001, Syst. Ent. 26: 325. CHILE.  
Holotype ♂: La Cruz, Valpo, Dic. 12, 1960/ ex Ceroplastes ceriferus on Baccharis rosmarinifolia/ S. Rojas colector [sic]/ N. gen., n. sp. 65-732 (5), Det. J.F. McAlpine/ HOLOTYPUS ♂ Echinoleucopis nigrolinea Gaimari et Tanasijtshuk.  
Paratypes: 1♂, 1♀, Chile.
- Hamecamyia stuckenbergi* Gaimari, 2012, Afr. Invertebr. 53: 159. SOUTH AFRICA.  
Holotype ♂: RSA, Natal 1760m 75km WSW Estcourt Cathedral Pks. For. Sta. 21-31.XII.79 S. & J. Peck/ CHAMAEMYIIDAE S.D. Gaimari Specimen # 7579/ Holotypus ♂ *Hamecamyia stuckenbergi* Gaimari.  
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.  
Holotype ♂: Shames B.C. 16 miles S.W. Terrace 4.VI.1960 J.G. Chillcott/ river bank scrub.  
Paratypes: 2♂♂, British Columbia.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Leucopis ankophalla* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 379. USA.  
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.
- Leucopis askophalla* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 388. USA.  
Holotype ♂: Thousand palms, Cal. 27.II.1953 J.E.H. Martin.  
Paratypes: 42♂♂, 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.
- Leucopis charactophalla* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 387. USA.  
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.
- Leucopis chillcotti* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 392. CANADA.  
Holotype ♂: Salmite 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.
- Leucopis hermanni* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 395. CANADA.  
Holotype ♂: Coleman, Alta. 12.VI.1962 K.C. Hermann/ slide no. 7213.  
Remarks: Holotype terminalia are permanently mounted on a microscope slide. Type not yet deposited in the CNC; label data taken from published description.
- Leucopis philoisos* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 385. USA.  
Holotype ♂: Redwood City, Cal. San Mateo County, aug. 20, 1949 P.H. Arnaud Jr./ *Leucopis americana* Mall. Det. Sabrosky/ slide no. 7006.  
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.
- Leucopis rotundogena* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 377. USA.  
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 schlingerii* Tanasijtshuk, 2003, Zoosyst. Rossica 11: 381. USA.  
Holotype ♂: Riverside Cal., VIII-10, 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

*Aagaardia longicalcis* Saether, 2000, Aquat. Insects 22: 193. CANADA.

Holotype ♂ (slide): *Aagaardia longicalcis* sp. n. Saether Holotype ♂ CANADA: New Brunswick, Kouchi-bouguac Natnl. Park, 7 VII 1978, D.R. Oliver & M. Russell [sic] CNC CH7219.

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

*Cladotanytarsus aeiparthenus* Bilyj & Davies, 1989, Can. J. Zool. 67: 950. CANADA.

Holotype ♀ (slide with associated pupal exuviae): Holotype ♀ Slide No. 1 E.L.A. 70km ESE Kenora, Ont. Lake 233 no. X1019. A5 17.VI.1976 leg. I. Davies Can. Nat. Coll. Type No. 19720 *Cladotanytarsus aeiparthenus* B. Bilyj.

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

*Cladotanytarsus daviesi* Bilyj & Davies, 1989, Can. J. Zool. 67: 951. CANADA.

Holotype ♂ (slide): ♂ HOLOTYPE Slide No. 4 ELA 70km ESE Kenora, Ont. Lake 239 no. P0009. A5 30. 31.VII.1980 leg. I. Davies Can. Nat. Coll. Type No. 19726 *Cladotanytarsus daviesi* B. Bilyj.

Allotype ♀ (slide): ♀ ALLOTYPE Slide No. 1 ELA 70km ESE Kenora Ont. Lake 226 no. V9015. A3 27-28.VII.1975 leg. I. Davies Can. Nat. Coll. Type No. 19726 *Cladotanytarsus daviesi* B. Bilyj.

*Cladotanytarsus pinnaticornis* Bilyj & Davies, 1989, Can. J. Zool. 67: 953. CANADA.

Holotype ♂ (slide with associated pupal exuviae): ♂ HOLOTYPE Slide No. 1 E.L.A. 70km ESE Kenora, Ont. Lake 223 no. X1022. A3 23-24.VI.1976 leg. I. Davies Can. Nat. Coll. Type No. 19723 *Cladotanytarsus pinnaticornis* B. Bilyj.

Allotype ♀ (slide): ♀ ALLOTYPE Slide No. 5 E.L.A. 70km ESE Kenora, ON. Lake 223 no. V1025. A4 22-23.VII.1975 leg. I. Davies Can. Nat. Coll. Type No. 19723 *Cladotanytarsus pinnaticornis* B. Bilyj.

Paratype: 1♂ (slide), Ontario.

*Cladotanytarsus fusiformis* Bilyj & Davies, 1989, Can. J. Zool. 67: 954. CANADA.

Holotype ♂ (slide): ♂ HOLOTYPE Slide No. 7 ELA 70km ESE Kenora, ON Lake 223 no. 01013. A1 26-27.VI.1979 leg. I. Davies Can. Nat. Coll. Type No. 19722 *Cladotanytarsus fusiformis* B. Bilyj.

Allotype ♀ (slide with associated pupal exuviae): ♀ ALLOTYPE Slide No. 7 ELA 70km ESE Kenora,

ON Lake 223 no. X1022. A1 23.24.VI.1976 leg. I. Davies Can. Nat. Coll. Type No. 19722

*Cladotanytarsus fusiformis* B. Bilyj.

Paratypes: 1♂, 1♀ (slides), Ontario.

*Cladotanytarsus elaensis* Bilyj & Davies, 1989, Can. J. Zool. 67: 955. CANADA.

Holotype ♂ (slide): Holotype ♂ Slide No. 3 E.L.A. 70km ESE Kenora ON Lake 223 no. X1031. A5 14-15.VII.1976 leg. I. Davies Can. Nat. Coll. Type No. 19725 *Cladotanytarsus elaensis* B. Bilyj.

Allotype ♀ (slide with associated pupal exuviae): Same data as holotype except with allotype label and Slide No. 1.

*Cladotanytarsus muricatus* Bilyj & Davies, 1989, Can. J. Zool. 67: 956. CANADA.

Holotype ♂ (slide): ♂ HOLOTYPE Slide No. 2 E.L.A. 70km ESE Kenora, ON Lake 223 no. X1025. A3 30.VI.-1.VII.1976 leg. I. Davies Can. Nat. Coll. Type No. 19724 *Cladotanytarsus muricatus* B. Bilyj.

Allotype ♀ (slide): ♀ ALLOTYPE Slide No. 3 E.L.A. 70km Kenora, ON Lake 223 no. V1025. A4 22-23.VII.1975 leg. I. Davies Can. Nat. Coll. Type No. 19724 *Cladotanytarsus muricatus* B. Bilyj.

Paratype: 1♂ (slide), Ontario.

*Cladotanytarsus tribelus* Bilyj & Davies, 1989, Can. J. Zool. 67: 957. CANADA.

Holotype ♂ (slide): ♂ HOLOTYPE Slide No. 6 E.L.A. 70km ESE Kenora, ON Lake 223 no. P1004. A2 13-14.V.1980 leg. I. Davies Can. Nat. Coll. Type No. 19721 *Cladotanytarsus tribelus* B. Bilyj.

Allotype ♀ (slide): ♀ ALLOTYPE Slide No. 6 E.L.A. 70km ESE Kenora, ON Lake 227 no. V0001. A1 19-20.V.1975 leg. I. Davies Can. Nat. Coll. Type No. 19721 *Cladotanytarsus tribelus* B. Bilyj.

Paratype: 1♀ (slide with associated pupal exuviae), Ontario.

*Cladotanytarsus tribelus* Bilyj & Davies, 1989, Can. J. Zool. 67: 957. CANADA.

Holotype ♂ (slide): ♂ HOLOTYPE Slide No. 6 E.L.A. 70km ESE Kenora, ON Lake 223 no. P1004. A2 13-14.V.1980 leg. I. Davies Can. Nat. Coll. Type No. 19721 *Cladotanytarsus tribelus* B. Bilyj.

*Corynoneura hortonensis* Fu & Saether, 2012, Zootaxa 3536: 33. CANADA.

Holotype ♂: CANADA: Northwest Territories, Horton River (6921'N, 12649.8'W), 4.vii.2000, Bohdan Bilyj.

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

*Corynoneura porrecta* Fu & Saether, 2012, Zootaxa 3536: 41. CANADA.

Holotype ♂: CANADA: Lake Winnipeg, Victoria Beach, light trap. 9.vii.1969, P.S.S. Chang.

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

*Cryptotendipes tuberosus* Saether, 2010a, Zootaxa 2412: 4. CANADA.

- Holotype ♂ (reared from larva): CANADA: Manitoba, South Indian Lake, Trailer Bay, depth 1 m, 13.vi.1976, E. Phillips.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Demeijerea spinulata* Saether, 2011, Zootaxa 2760: 40. CANADA.  
Holotype ♂: CANADA: Manitoba, Lake Winnipeg, 3 km off McCreary Island, 15.vii.1969, P.S.S. Chang.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Diamesa banana* Garrett, 1925b, Seventy new Diptera, p. 6. CANADA.  
Holotype ♂: CRANBROOK 12.VIII BC/ 5141 HYPO ANT./ HYPO ♂ ANT 5141/ HOLO TYPE DIAMESA BANANA ♂ C Garrett C.B.D. GARRETT/ Lectotype Sublette, 1963.  
Allotype ♀: CRANBROOK 12.VIII BC/ ALLO TYPE DIAMESA BANANA ♀ C Garrett C.B.D. GARRETT.  
Paratypes: 13 ♀♀, 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: 295) is invalid. The antennae and terminalia of the holotype are mounted on microscope slides (No. 5141).
- Diamesa borealis* Garrett, 1925b, Seventy new Diptera, p. 6. CANADA.  
Holotype ♂: CRANBROOK 9.XI BC/ HYPO. ANT. LEGS, WING 5140/ HOLO TYPE (PSILO) DIAMESA BOREALIS ♂ C Garrett C.B.D. GARRETT.  
Allotype ♀: CRANBROOK 21.X.24 BC/ 5511/ 5619 WING/ ALLO TYPE DIAMESA BOREALIS ♀ C Garrett C.B.D. GARRETT.  
Paratypes: 24 ♂♂, 6 ♀♀, 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: 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) paratestaceus* Saether, 2011, Zootaxa 2760: 42. CANADA.  
Holotype ♂: CANADA: Manitoba, Lake Winnipeg, 3 km off George Island, 27.vi.1969, P.S.S. Chang.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Glyptotendipes (Glyptotendipes) paulisensus* Saether, 2011, Zootaxa 2760: 46. CANADA.  
Holotype ♂: CANADA: Manitoba, Lake Winnipeg, Grand Rapids Government Wharf, 28.vii.1969, P.S.S. Chang.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Glyptotendipes (Glyptotendipes) sensilis* Saether, 2011, Zootaxa 2760: 48. CANADA.  
Holotype ♂: CANADA: Manitoba, Lake Winnipeg, Pine Dock, 31.vii.1969, P.S.S. Chang.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Linacerus piloala* Garrett, 1925b, Seventy new Diptera. p. 9. CANADA.  
Holotype ♀: CRANBROOK 25.V BC/ HOLO TYPE LINACERUS PILOALA ♀ C Garrett, C.B.D. GARRETT/ Lectotype Sublette, 1963.  
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). Sublette's (1967: 291) lectotype designation is invalid.
- Micropsectra montana* Säwedal, 1976, Ent. scand. 7: 134. NEPAL.  
Holotype ♂ (slide): 17.-23.V.1967 Micropsectra Sp. N3 CANAD. NEPAL EXPED. 27° 56'N. 85° 00'E.  
Mal. tr. 8 10000/ Holotypus Micropsectra montana n.sp. Säwedal CNC Type No 10952/ Can. Nat. Coll. Type No. 10952 Micropsectra montana Säwedal.
- Micropsectra nepalensis* Säwedal, 1976, Ent. scand. 7: 134. NEPAL.  
Holotype ♂ (slide): 26.-31.V.67 Micropsectra Sp. N2 CANAD. NEPAL EXPED. 27° 57'N. 84° 59'E  
Mal. tr. 5 10100/ Holotypus Micropsectra nepalensis n.sp. Säwedal/ Can. Nat. Coll. Type No. 10956.
- Orthocladus (Eudactylocladius) subletteorum* Cranston, 1998, J. Kans. ent. Soc. 71: 291. CANADA.  
Holotype ♂ (slide): Orthocladus mixtus Hazen Camp, N.W.T. 81°49'N., 71°18'W. Date:21 July 1961  
Coll: D.R. Oliver Det: D.R. Oliver No: CH1101  
Can. Nat. Collection 46/ N1/ HOLOTYPE CNCNo. O.(E.) subletteorum.  
Paratypes: 8 ♂♂, Northwest Territories; 25 ♂♂, 10 ♀♀, Nunavut; 1 ♂, Yukon Territory; 1 ♂, Manitoba; 1 ♂, Greenland; 1 ♂, Iceland.
- Paratanypus kiefferi* Garrett, 1925b, Seventy new Diptera, p. 8. CANADA.  
Holotype ♂: CRANBROOK 21.X BC/ HOLO TYPE PARATANYPUS KEIFFERI ♂ C Garrett C.B.D. GARRETT/ CNC Type No.7926 Slide No. 1/ Lectotype Sublette, 1963.  
Allotype ♀: CRANBROOK 18.XI. BC/ ALLO TYPE PARATANYPUS KEIFFERI ♀ C Garrett C.B.D. GARRETT.  
Paratypes: 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 lectotype designation by Sublette (1967: 293) is invalid. The terminalia of the holotype is mounted on microscope slide No. 1.

- Polypedilum (Pentapedilum) intuber* Oyewo & Saether, 2008, Zootaxa 1953: 67. CANADA.  
 Holotype ♂ (slide): CANADA: Manitoba, Lake Winnipeg, 5 km off Selkirk (Horse) Island, 29.vi.1969, light trap, S. S. Chang.  
 Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Procladius malifero* Garrett, 1925b, Seventy new Diptera, p. 10. CANADA.  
 Holotype ♂: CRANBROOK 20.V BC/ HOLO TYPE PROCLADIUS MELAFERO [sic] ♂ C Garrett C.B.D. GARRETT.  
 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).
- Procladius (Holotanypus) rugulosus* Saether, 2010c, Zootaxa 2726: 46. CANADA.  
 Holotype ♂: CANADA: Manitoba, Lake Winnipeg, Gull Harbor, 16. vi.1969, P.S.S. Chang.  
 Paratypes: 3♂♂, Manitoba.  
 Remarks: Holotype not yet deposited in the CNC; label data taken from published description.
- Prodiamesa pertinax* Garrett, 1925b, Seventy new Diptera, p. 6. CANADA.  
 Holotype ♂: CRANBROOK 6.IV. BC/ 2835/ HOLO TYPE PRODIAMESA PERTINAX ♂ C Garrett C.B.D. GARRETT/ CNC Type No. 7918 Slide No. 1/ Lectotype Sublette, 1963.  
 Allotype ♀: CRANBROOK 21.X.24 BC/ 5511/ ALLO TYPE PRODIAMESA PERTINAX ♀ C Garrett C.B.D. GARRETT.  
 Paratypes: 6♀♀, 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. CANADA.  
 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.
- Pseudosmittia parinavama* Ferrington & Saether, 2011, Zootaxa 2849: 282. USA.  
 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.
- Pseudosmittia pedata* Ferrington & Saether, 2011, Zootaxa 2849: 290. CANADA.  
 Holotype ♂: CANADA: New Brunswick, Kouchibougerae [sic] National Park, 9.vii.1977, I. M. Smith, (CH 4401-1, CNC).  
 Paratype: 1♀, New Brunswick.  
 Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Pseudosmittia acutilobata* Ferrington & Saether, 2011, Zootaxa 2849: 291. CANADA.  
 Holotype ♂: CANADA: Manitoba, Delta Marsh, 2.vi.1981, H. Murkin.  
 Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Skutzia inopinata* Reiss, 1985, Spixiana Suppl. No. 11: 174. CANADA.  
 Holotype ♂ (slide): Zool. Staatssammlung München Skutzia 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♂ (slide), British Columbia.
- Stempellinella sublettorum* Ekrem, 2007, J. Nat. Hist. 41: 1441 CANADA.  
 Holotype ♂ (slide): N.W. Miramichi R. Northumb. Co., 29-VII-1962 J. Marshall CNC 1/ *Stempellinella sublettorum* Ekrem 2007 HOLOTYPE.  
 Paratype: 1♂, New Brunswick.
- Tanypus arcuata* Garrett, 1925b, Seventy new Diptera, p. 7. CANADA.  
 Holotype ♀: CRANBROOK 12.V BC/ HOLO TYPE TANYPUS ARCUATA ♀ C Garrett, C.B.D. GARRETT.  
 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).
- Tanypus bifida* Garrett, 1925b, Seventy new Diptera, p. 8. CANADA.  
 Holotype ♀: CRANBROOK 25.VI BC/ HOLO TYPE TANYPUS BIFIDA ♀ C Garrett, C.B.D. GARRETT.  
 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).
- Tanytarsus appendiculatus* Ekrem et al., 2003, Ann. ent. Soc. Am. 96: 280. CANADA.



- 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.  
Holotype ♂ (slide): Holotype ♂ (slide): *Tanytarsus martini* Ekrem, Sublette & Sublette Holotype ♂ Canada, Ontario: Algonquin Park, Research station, at light, leg. J. Martin.
- Tavastia pilipecta* Saether, 2010b, Aquat. Insect. 32: 172. CANADA.  
Holotype ♂: Canada: Manitoba, Lake Winnipeg, Gull Harbour, light trap 14, 16 vii 1969, P.S.S. Chang.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- CHLOROPIDAE**
- Agrophaspidium monticola* Wheeler & Mlynarek, 2008, Zootaxa 1926: 46. COSTA RICA.  
Holotype ♂: COSTA RICA: Prov. Puntarenas, Monteverde, Estacion Biologica, 1540–1800m, 21–24.vii.1995, J.M. Cumming.  
Paratype: 1♂, Costa Rica.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Allomeidea prolata* Mlynarek & Wheeler, 2010b, Ann. ent. Soc. Am. 103: 467. KENYA.  
Holotype ♂: KENYA: Meru District, Upper Impenetrable Forest, VII-1973, E. Balyetagara.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Camptopeltes citrinum* Mlynarek & Wheeler, 2010a, Can. Ent. 142: 197. VENEZUELA.  
Holotype ♂: VENEZ, Yacambo 1200m, 10.V.81 H.K. Townes/ HOLOTYPE *Camptopeltes citrinum* Mlynarek & Wheeler.  
Paratypes: 4♀♀, Venezuela.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Cetema nigripalpis* Savage & Wheeler, 1999, Ent. scand. 30: 254. CANADA.  
Holotype ♂: Old Chelsea, QUE. Summit King Mt. 1150' 25.VI.1962, J. R. Vockeroth/ HOLOTYPE *Cetema nigripalpis* Savage and Wheeler.  
Paratypes: 3♂♂, 4♀♀, Quebec.
- Chaetochlorops tanyaspis* Hibbert & Wheeler, 2007, Studia dipterol. 14: 102. PERU.  
Holotype ♂: PERU: Quincemil, Cuzco, 780 m, 13-31.viii.1962, L. Pena.
- Paratype: 1♀, Peru.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Conioscinella empheria* Wheeler & Forrest, 2003, Insect Syst. Evol. 34: 268. ECUADOR.  
Holotype ♂: ECU: Galap: Espanola, Bahia Manzanilla, 5-10.vi.85, S & J Peck, littoral cryptocarpus and Prosopis, FIT, malaise/ HOLOTYPE *Conioscinella empheria* Wheeler and Forrest.  
Paratypes: 50♂♂, Ecuador.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Diptotoxa loma* Wheeler & Forrest, 2003, Insect Syst. Evol. 34: 267. ECUADOR.  
Holotype ♂: ECU: Galap: Sta. Cruz, 4kmN Bellavista, MediaLuna 620m, 14.v-13.vii.85, S&JPeck, MiconiaZone, FIT/ HOLOTYPE *Diptotoxa loma* Wheeler and Forrest.  
Paratypes: 14♂♂, 32♀♀, Ecuador.
- Elachiptera cultrata* Wheeler & Forrest, 2002, Zootaxa 98: 2. ECUADOR.  
Holotype ♂: ECU: Galap: Sta. Cruz, 4kmN Bellavista, MediaLuna 620m, 14.v-13.vii.85, S&JPeck, MiconiaZone, FIT/ HOLOTYPE *Elachiptera cultrata* Wheeler and Forrest.  
Paratypes: 49♂♂, 69♀♀, Ecuador.
- Gaurax gethosyne* Wheeler & Forrest, 2003, Insect Syst. Evol. 34: 271. ECUADOR.  
Holotype ♂: ECU: Galapagos, Isabela, Sto. Tomas, 4-15.III.89, 300m, humidforest, malaise, Peck&Sinclair, 89-99/ HOLOTYPE *Gaurax gethosyne* Wheeler and Forrest.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Goniaspis versicolor* Mlynarek & Wheeler, 2009, Zootaxa 2033: 38. BOLIVIA.  
Holotype ♂: BOLIVIA: LaPaz Chulumani, env. 1600m R. Portugal's Finca 16°22'S, 67°30'W 30.iv.1997 s.s. L. Masner B-07/ HOLOTYPE *Goniaspis versicolor* Mlynarek & Wheeler.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Hippelates alyscus* Wheeler & Forrest, 2003, Insect Syst. Evol. 34: 273. ECUADOR.  
Holotype ♂: ECUAD: Galap: Fernandina, Cabo Hammond, 0m, 3.v.1991, J. Heraty, beach grasses, H91/015/ HOLOTYPE *Hippelates alyscus* Wheeler and Forrest.  
Paratypes: 1♂, 1♀, Ecuador.
- Leptocera transversalis* Malloch, 1919, Report of the Canadian Arctic Expedition 3: 53. USA.  
Syntypes: 2♀♀.  
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

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

- Liohippelates baptipalpis* Wheeler & Forrest, 2003, Insect Syst. Evol. 34: 273. ECUADOR.  
 Holotype ♂: ECU: Galapagos, SantaCruz, 1kmE CDRS (Lagoon) littoral, 30.III-7.IV.89, malaise, Peck&Sinclair, 89-188/ HOLOTYPE  
*Liohippelates baptipalpis* Wheeler and Forrest.  
 Paratypes: 3♂♂, 12♀♀, Ecuador.
- Medeventor nubosus* Wheeler, 2007, Zootaxa 1413: 49. COSTA RICA.  
 Holotype ♂: COSTA RICA: Prov. Puntarenas, Monteverde, 1995, B.J. Sinclair.  
 Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Ocella anaclasta* Wheeler & Forrest, 2003, Insect Syst. Evol. 34: 277. ECUADOR.  
 Holotype ♂: ECUADOR: Galapagos Is., Pinta, 220m, sticky traps, 08.ii.1982, Y. Lubin/ HOLOTYPE  
*Ocella anaclasta* Wheeler and Forrest.  
 Paratypes: 14♂♂, Ecuador.

#### CLUSIIDAE

- Apiochaeta dacryodes* Lonsdale & Marshall, 2008, Zootaxa 1944: 15. CHILE.  
 Holotype ♂: CHILE, Concepción 6Km S. San Pedro 12.XII.82-2.I.83 A. Newton & M. Thayer/ ♂  
 HOLOTYPE *Apiochaeta dacryodes* Lonsdale & Marshall/ CNC 91381 ["CNC 91381" on underside].  
 Paratypes: 6♂♂, Chile.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Apiochaeta furcillata* Lonsdale & Marshall, 2008, Zootaxa 1944: 17. CHILE.  
 Holotype ♂: CHILE, Concepción 6Km S. San Pedro 12.XII.82-2.I.83 A. Newton & M. Thayer/ ♂  
 HOLOTYPE *Apiochaeta furcillata* Lonsdale & Marshall/ CNC 91383 ["CNC 91383" on underside].  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Apiochaeta lenticula* Lonsdale & Marshall, 2008, Zootaxa 1944: 18. CHILE.  
 Holotype ♂: Rio Maniguales 72°30'W, 45°25'S. Aysen, CHILE 26-28. I.'61. Pena/ A. excepta ♂  
 Mall. det. Soós Á./ ♂ HOLOTYPE *Apiochaeta lenticula* Lonsdale & Marshall/ CNC 91384 ["CNC 91384" on underside].  
 Paratypes: 4♀♀, Chile.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Apiochaeta mallochi* Lonsdale & Marshall, 2008, Zootaxa 1944: 20. CHILE.  
 Holotype ♂: CHILE, Concepción 6Km S. San Pedro 12.XII.82-2.I.83 A. Newton & M. Thayer / ♂
- HOLOTYPE *Apiochaeta mallochi* Lonsdale & Marshall/ CNC 91385 ["CNC 91385" on underside].  
 Paratypes: 3♂♂, 3♀♀, Chile.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Clusiodes eremnos* Caloren & Marshall, 1998, Studia dipterol. 5: 282. USA.  
 Holotype ♂: 9 mi. W. Unity Baker Co. ORE. 4500' 2.VII.65 Malaise trap/ HOLOTYPE *Clusiodes eremnos* D.C. Caloren.  
 Paratypes: 1♀, Alberta; 1♀, British Columbia; 1♂, Colorado; 1♀, Oregon.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial that is pinned below specimen.
- Clusiodes kinetrolicros* Caloren & Marshall, 1998, Studia dipterol. 5: 295. COSTA RICA.  
 Holotype ♂: COSTA RICA, Guanacaste, GCA Cacao station, creek bed 900 m, 14.iii.1996, L. Masner 30 YPT C-05/ *Clusiodes* Det.J.M.Cumming/ HOLOTYPE *Clusiodes kinetrolicros* D.C. Caloren.  
 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.  
 Neotype ♂: CHILE: Malcho-750m. Parrel-Talca 24-26.I.1993 L.Pena mixed for. yellow pan trap / ♂  
 NEOTYPE *Heleomyza vitticollis* Blanchard/ ♂  
 NEOTYPE *Peratochetus limbipennis* Rondani/ CNC 91389 ["CNC 91389" on underside].  
 Remarks: The neotype of *Heleomyza 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 Concepción: 6 km S. San Pedro 12.XII.82-2.I.83 A. Newton & M. Thayer/ ♂  
 NEOTYPE *Heterochroa pictipennis* van der Wulp/ CNC 91387 ["CNC 91387" on underside].  
 Remarks: Neotype designation of *Heterochroa pictipennis* van der Wulp in Lonsdale & Marshall (2008: 5, 22).
- Heteromeriingia apholis* Lonsdale & Marshall, 2007a, Beitr. Ent. 57: 61. MEXICO.  
 Holotype ♂: 10 mi. W. El Salto, Dgo. MEX., 9000' June 5 1964 J.F. McAlpine/ ♂ HOLOTYPE  
*Heteromeriingia apholis* Lonsdale & Marshall/ CNC 91366.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Heteromeriingia decora* Lonsdale & Marshall, 2007a, Beitr. Ent. 57: 62. MEXICO.  
 Holotype ♀: Montebello Nat. Park Chiapas 5000' 31.V.1969 B.V. Peterson (Mal./ ♀ HOLOTYPE  
*Heteromeriingia decora* Lonsdale & Marshall. CNC/ CNC 91368.

- Heteromeria 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 *Heteromeria nervosa* Lonsdale & Marshall/ CNC 91371.
- Heteromeria zophina* Lonsdale & Marshall, 2007a, Beitr. Ent. 57: 53.MEXICO.  
Holotype ♂: 10 mi.W.El Salto, Dgo. MEX., 9000' June 30 1964 J.F. McAlpine/ ♂ HOLOTYPE  
*Heteromeria 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 ♂: CHILE: Malcho-750m. Parrel-Talca 24-26.I.1993 L.Pena mixed for. yellow pan trap / ♂  
NEOTYPE *Heleomyza vitticollis* Blanchard/ ♂  
NEOTYPE *Peratochetus limbipennis* Rondani/ CNC 91389 ["CNC 91389" on underside].  
Remarks: The neotype of *Peratochetus limbipennis* Rondani (also the neotype of *Heleomyza vitticollis* Blanchard) was designated by Lonsdale & Marshall (2008: 5, 29). Rondani (1863: 42) misspelled *Peratochetus* Rondani, 1856 as *Peratochetvs* in his description of new species of the genus (see O'Hara et al. 2011: 139-140).
- Peratochetus philippii* Rondani, 1863, Diptera exotica revista et annotata: 43. CHILE.  
Neotype ♂: CHILE S. Concepción Laraquete 10-25.I.1993, P. Salinas/ ♂ NEOTYPE *Peratochetus philippii* Rondani/ CNC 91386 ["CNC 91386" on underside].  
Remarks: Neotype designation of *Peratochetus philippii* Rondani in Lonsdale & Marshall (2008: 5, 21). Rondani (1863: 42) misspelled *Peratochetus* Rondani, 1856 as *Peratochetvs* in his description of new species of the genus (see O'Hara et al. 2011: 139-140).
- Procerosoma prominens* Lonsdale & Marshall, 2006, Eur. J. Entomol. 103: 167. MEXICO.  
Holotype ♀: MEXICO, Chiapas 8 mi. SE San Cristobal 17.V.1969, B.V. Peterson/ ♀ 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, 2012, Zootaxa 3370: 182. MEXICO.  
Holotype ♀: Potrerillos, Sin., 15. W. El Palmito MEX. 16 VII 1964 J.F. McAlpine 5000' Malaise trap Mounted from Alcohol/ ♀ HOLOTYPE  
*Sobarocephala bicolor* Lonsdale & Marshall/ CNC 91410 ["CNC 91410" on underside].  
Paratype: 1 ♀, Mexico.
- Sobarocephala horizontalis* Lonsdale & Marshall, 2012, Zootaxa 3370: 90. JAMAICA.  
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.
- Sobarocephala howdenorum* Lonsdale & Marshall, 2012, Zootaxa 3370: 90. COSTA RICA.  
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].  
Paratype: 1 ♂, Costa Rica.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Sobarocephala infuscata* Lonsdale & Marshall, 2012, Zootaxa 3370: 126. BRAZIL.  
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.
- Sobarocephala malleata* Lonsdale & Marshall, 2012, Zootaxa 3370: 131. ECUADOR.  
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.
- Sobarocephala minthomyia* Lonsdale & Marshall, 2012, Zootaxa 3370: 79. MEXICO.  
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.
- Sobarocephala oculata* Lonsdale & Marshall, 2012, Zootaxa 3370: 134. GRAND CAYMAN.  
Holotype ♂: Georgetown GRAND CAYMAN 15-30.III.1965 J.R. McLintock / ♂ HOLOTYPE  
*Sobarocephala oculata* Lonsdale & Marshall/ CNC 91468 ["CNC 91468" on underside].  
Paratypes: 4 ♂♂, 2 ♀♀, Grand Cayman.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Sobarocephala pengellyi* Lonsdale & Marshall, 2007b, J. ent. Soc. Ont. 138: 94. USA.  
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.

*Sobarocephala robusta* Lonsdale & Marshall, 2012, Zootaxa 3370: 210. MEXICO.

Holotype ♂: MEX. Sin. 15 mi. W. El Palmito, 5000'  
30-July 1964 W.E.M. Mason/♂ HOLOTYPE  
Sobarocephala robusta Lonsdale & Marshall/  
CNC 91482 ["CNC 91482" on underside].

*Sobarocephala sublimita* Lonsdale & Marshall, 2012, Zootaxa 3370: 215. MEXICO.

Holotype ♂: MEX. Dgo. 24 mi. W. La Ciudad, 7000'  
28 VI 1964 W.E.M. Mason/Sobarocephala Det.  
D.C. Caloren 1996/♀ HOLOTYPE Sobarocephala  
sublimita Lonsdale & Marshall/ CNC 91489  
["CNC 91489" on underside].

*Sobarocephala theiodes* Lonsdale & Marshall, 2012, Zootaxa 3370: 99. PERU.

Holotype ♂: Quincemil Cuzco, PERU 13-31.VII.'62 L.  
Pena, 780m./♂ HOLOTYPE Sobarocephala  
theiodes Lonsdale & Marshall/ CNC 91492  
["CNC 91492" on underside].

Paratypes: 4♂♂, PERU.

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

*Sobarocephala tibialis* Lonsdale & Marshall, 2012, Zootaxa 3370: 148. BRAZIL.

Holotype ♂: Nova Teutonia, 27°11'S, 52°23'W,  
BRAZIL, 300-500m, XI.1966, Fritz Plaumann/♂  
HOLOTYPE Sobarocephala tibialis Lonsdale &  
Marshall/ CNC 91494 ["CNC 91494" on  
underside].

Paratypes: 2♂♂, Brazil.

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

*Sobarocephala virilipeza* Lonsdale & Marshall, 2012, Zootaxa 3370: 151. MEXICO.

Holotype ♂: MEX. Chis. 32 mi W. San Cristobal Jct  
190-195 Hwys. 12, V, 1969 H.J. Teskey/♂  
HOLOTYPE Sobarocephala virilipeza Lonsdale  
& Marshall/ CNC 91501 ["CNC 91501" on  
underside].

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

*Sobarocephala xanthotibialis* Lonsdale & Marshall, 2012, Zootaxa 3370: 156. ST. VINCENT.

Holotype ♂: Majorca, 1500' St. Vincent, W.I. VII-  
VIII.1972/ Malaise Trap A.D. Harrison/♂  
HOLOTYPE Sobarocephala xanthotibialis  
Lonsdale & Marshall/ CNC 91506 ["CNC 91506"  
on underside].

Paratypes: 4♂♂, 5♀♀, St. Vincent; 2♀♀, Brazil.

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

#### CONOPIDAE

*Physocephala bennetti* Camras, 1996, Ent. News 107: 105. TRINIDAD.

Holotype ♀: CURIPE TRINIDAD JUNE 1965 F.D.B./  
#10 Par on *Xylocopa submordax* Dead bee found

May 12 Par emerged June 11/ HOLOTYPE

*Physocephala bennetti* Camras/ 123/ bennetti.

Paratypes: 2♀♀, Trinidad.

*Stylogaster beresfordi* Burt, Skevington & Rocha, 2014, Can. Ent. [doi:10.4039/tce.2014.39]: 4. USA.

Holotype ♂: USA: NM: Grant Co., 14mi. n Silver City,  
Cherry Crk. campgrd. 32°54.8'N 108°13.6'W  
7400' 16-19.viii.1999 Malaise2 J.E. O'Hara/  
CNC DIPTERA #195998/ *Stylogaster neglecta*  
Det. J.H. Skevington, 2012/ Barcode of Life DNA  
voucher specimen SmpID CNC DIPTERA  
195998 BOL Proc ID: CNCDS066-13/  
HOLOTYPE *Stylogaster beresfordi* T.O. Burt, L.  
Rocha & J.H. Skevington.

Paratypes: 7♂♂, 3♀♀, New Mexico; 2♂♂, Mexico.

Remarks: The page number cited above for the description of *Stylogaster beresfordi* 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 3279: 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-  
2006, U. Grafe, CD2069.

Paratype: 1♀, Brunei (slide).

*Corethrella (Corethrella) blandafemur* Borkent, 2008, Zootaxa 1804: 65. COSTA RICA.

Holotype ♂ (slide): HOLOTYPE *Corethrella*  
*blandafemur* Borkent/ Manuel Antonio NP, C.R.  
17-XI-1993 A. Borkent CD1672/ INBio CD1672.  
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/ 1kmW. Puerto Viejo, Limón, Costa Rica 30-X-1993, A. Borkent CD1644/ INBio CD1644.  
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: 3♂♂, 3♀♀, Saint Kitts (slides).
- Corethrella (Corethrella) curta* Borkent, 2008, Zootaxa 1804: 163. COSTA RICA.  
Holotype ♂ (slide): HOLOTYPE *Corethrella curta* Borkent/ 8 km SE Orosi, Tapantí National Park, CR, 11-XII-1999, A. Picado y A. Borkent, 193200N/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: 14♀♀, Brunei (slides).
- Corethrella (Corethrella) grandipalpis* Borkent, 2008, Zootaxa 1804: 62. COSTA RICA.  
Holotype ♀ (slide): HOLOTYPE *Corethrella grandipalpis* Borkent/ 5kmNE. Tárcoles, C.R., 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 *L. leporinus*, U. Grafe; 6.  
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-vii-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/ 5kmNE Tárcoles, C.R., 2-IX-1993 A. Borkent CD1567.  
Allotype ♀ (slide): Same data as holotype except with allotype label.  
Paratypes: 1♂, 40♀♀, Costa Rica; 10♀♀, Panama; 14♀♀, Guyana (slides).
- Corethrella (Corethrella) remiantennalis* Borkent, 2008, Zootaxa 1804: 63. COSTA RICA.  
Holotype ♂ (slide): HOLOTYPE *Corethrella remiantennalis* Borkent/ 2kmNE. Tárcoles, C.R., 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-?-1972 3720' H. Falke CD459.  
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 arboretum 03.83894°S, 73.37455°W, ex. *Aechmea* sp. in canopy, 29 August 2003, S. Yanoviak.
- Corethrella (Corethrella) unizona* Borkent, Grafe & Miyagi in Borkent & Grafe, 2012, Zootaxa 3279: 13. 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: 14♀♀, Malaysia (slides).

## CTENOSTYLIDAE

*Nepaliseta mirabilis* Barraclough, 1995, Ann. Natal Mus. 36: 138. NEPAL.

Holotype ♀: NEPAL, Ktmd. Godavari, 6000'  
16.viii.1967 Mal. Tr., Can. Exp./ Ramulisetia sp  
Det. J.F. McAlpine 1975/ HOLOTYPE ♀  
*Nepaliseta mirabilis* Barraclough, 1995.

## DIASTATIDAE

*Diastata dolorosa* Chandler, 1987, Ent. scand. 18: 34. NEPAL.  
Holotype ♂: 27°56'N, 85°00'E, Mal. tr. 9, 9900' 22 May  
1967 Can. Nepal Exped./ Diastata n.sp NEP 3  
Det. J.F. McAlpine 1974/ Diastata dolorosa sp. n.  
det. P.J. Chandler HOLOTYPE ♂/ HOLOTYPE  
Diastata dolorosa CNC No.

Paratypes: 2♂♂, 3♀♀, Nepal.  
Remarks: Holotype abdomen is stored in glycerine in a  
plastic microvial pinned below specimen.

*Diastata flavipes* Chandler, 1987, Ent. scand. 18: 37. NEPAL.  
Holotype ♂: NEPAL, Ktmd. Pulchauki 7300'  
6.viii.1967 #14, Mal. Tr., Can. Exp./ Diastata n.sp.  
Nep 2. Det. J.F. McAlpine 1974/ flavipes Type  
[card mount of abdomen and genitalia]/ Diastata  
flavipes sp. n. det. P.J. Chandler HOLOTYPE ♂/  
HOLOTYPE Diastata flavipes CNC No.

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

*Diastata hirsuta* Chandler, 1987, Ent. scand. 18: 36. NEPAL.  
Holotype ♂: 27°57'N. 84°59'E. 10,100', Mal. tr. 5,  
10,000' 25 May 1967 Can. Nepal Exped./ Diastata  
n.sp. NEP. 5. Det. J.F. McAlpine 1975/ Diastata  
hirsuta sp. n. det. P.J. Chandler ♂ HOLOTYPE/  
hirsuta [card mount of abdomen and genitalia]/  
HOLOTYPE Diastata hirsuta CNC No.

Paratype: 1♂, Nepal.  
Remarks: Holotype genitalia are mounted in euparal  
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 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./ lug Type [card  
mount for abdomen]/ Diastata lugubris sp. n. det.  
P.J. Chandler ♂ HOLOTYPE/ HOLOTYPE  
Diastata lugubris CNC No.

Remarks: The coverslip and euparal preparation of the  
holotype abdomen has been separated from the  
card mount and lost.

*Diastata macula* Chandler, 1987, Ent. scand. 18: 37. NEPAL.  
Holotype ♂: 28°00'N. 85°00'E. Mal. tr. 7, 9,900' 1. June  
1967 Can. Nepal Exped./ Diastata macula sp. n.  
det. P.J. Chandler ♂ HOLOTYPE/ macula Hol  
[card mount of abdomen and genitalia]/  
HOLOTYPE Diastata macula CNC No.  
Paratypes: 4♂♂, Nepal.

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

*Diastata mirabilis* Chandler, 1987, Ent. scand. 18: 34. NEPAL.  
Holotype ♂: 27°58'N. 85°00'E. Mal. tr. 3, 11,400' 31.  
May 1967 Can. Nepal Exped./ Diastata n.sp.  
NEP.4 Det. J.F. McAlpine 1975/ Diastata  
mirabilis sp. n. det. P.J. Chandler ♂ HOLOTYPE/  
mirabilis [card mount of genitalia]/ HOLOTYPE  
Diastata mirabilis.

Paratypes: 1♂, 6♀♀, Nepal.  
Remarks: Holotype genitalia are mounted in euparal  
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.  
Holotype ♂: 27°58'N. 85°00'E. Mal. tr. 1, 11,100' 16  
May 1967 Can. Nepal Exped./ mid femur dark/  
Diastata rustica sp. n. det. P.J. Chandler ♂  
HOLOTYPE/ rustica [card mount for abdomen]/  
HOLOTYPE Diastata rustica CNC No.

Remarks: Holotype broken from pin, reglued to card  
with one wing separate, head missing, 3 legs  
missing. The coverslip and euparal preparation of  
the holotype abdomen has been separated from  
the card mount and lost.

## DIXIDAE

*Dixella hansonii* Chaverri & Borkent, 2007, Zootaxa 1575: 13.  
COSTA RICA.  
Holotype ♂ (slide): ♂ Costa Rica, 2 Km NE Tarcoles,  
Carara NP, 1-1-1994, A. Borkent, CD 1726/  
HOLOTYPE *Dixella hansonii* Chaverri &  
Borkent.

*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, Escazú,  
Alto Tapezco, 1700 m, 31-V-1999, A. Borkent,  
LN 209100 518900/ HOLOTYPE *Dixella jironi*  
Chaverri & Borkent  
Paratype: 2♂♂ (slides), Costa Rica.

## DOLICHOPODIDAE

*Achalcus bicolor* Pollet, 2005, Eur. J. Entomol. 102: 281.  
CANADA.  
Holotype ♂: CANADA, Manitoba, Assiniboine - Souris  
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.  
Holotype ♂: CHILE: Rio Blanco; Malleco, CHILE; II.1964. Pena; 1100-2000m/ Holotype/ *Achalcus brevicornis* Pollet; det. M. Pollet, 2002.  
Paratypes: 4♂♂, 2♀♀, Chile.  
Remarks: Holotype hypopygium mounted on semipermanent slide. Types not yet deposited in the CNC; label data taken from published description.
- Achalcus californicus* Pollet & Cumming, 1998, Syst. Ent. 23: 377. USA.  
Holotype ♂: Inverness Marin Co., CAL. 10.V.1968 D.D. Munroe/ IDEMA illustration/ HOLOTYPE/ *Achalcus californicus* HOLOTYPE det. M. Pollet, 1997/ slide with leg I, antenna, hypop.  
Remarks: Holotype front leg, antenna and terminalia are mounted on a microscope slide.
- Achalcus longicercus* Pollet, 2005, Eur. J. Entomol. 102: 283. CANADA.  
Holotype ♂: CANADA, Ontario, R.M. of Durham, Town of Georgina, Jacksons Point, Sibbald Point Provincial Park (grassy path at clearing in wooded marshland at Georgian Bay, site II), 29.vi.2001, MSW, M. Pollet.  
Paratypes: 1♀, Maine.  
Remarks: Holotype and paratype stored in 70% alcohol. Types not yet deposited in the CNC; label data taken from published description.
- Achalcus micromorphoides* Pollet, 2005, Zool. J. Linn. Soc. 143: 44. CHILE.  
Holotype ♂: Huaquen; Coquimbo, CHILE; 26.VII.1960. Pena/ Holotype/ *Achalcus micromorphoides*; 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.
- Argentina bickeli* Naglis, 2002a, Studia dipterol. 8: 481. CHILE.  
Holotype ♂: Valle Los Piuquenes Aconcagua, CHILE 7-12.II.64. Pena/ Holotype *Argentina bickeli* n. sp. St. Naglis det. 2000.  
Paratypes: 2♂♂, 1♀, Chile.
- Asyndetus bursericola* Bickel & Sinclair, 1997, Ent. scand. 28: 253. ECUADOR.  
Holotype ♂: ECU: Galap., Genovesa Bahia Darwin, 20m Bursera forest malaise 10-27.III.92 S. Peck 92-13/ HOLOTYPE *Asyndetus bursericola* Bickel&Sinclair.  
Paratype: 1♂, Ecuador.
- Asyndetus mystacinus* Bickel & Sinclair, 1997, Ent. scand. 28: 256. ECUADOR.  
Holotype ♂: ECU:Galap; Espanola Bahia Manzanilla 5-10.VI.85, S&J Peck littoral *Cryptocarpus* & *Prosopis*, FIT, malaise/ HOLOTYPE *Asyndetus mystacinus* Bickel&Sinclair.  
Paratypes: 6♂♂, 6♀♀, Ecuador.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Amblypsilopus depilis* Bickel & Sinclair, 1997, Ent. scand. 28: 243. ECUADOR.  
Holotype ♂: ECU:Galapagos Isabela, Sto. Tomas 4-15.III.89, 300m humid forest, malaise Peck&Sinclair, 89-99/ HOLOTYPE *Amblypsilopus depilus* [sic] Bickel&Sinclair.  
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 inciscicornis* Pollet, 2005, Zool. J. Linn. Soc. 143: 59. CHILE.  
Holotype ♂: Dalcahue; Isla Chiloe; Chiloe, CHILE; 17-31.I.62. Pena/ Holotype/ *Australachalcus inciscicornis*; Pollet; det. M. Pollet, 2002.  
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.  
Holotype ♂: Dalcahue; Isla Chiloe; Chiloe, CHILE; 22.I.62. Pena/ Holotype/ *Australachalcus robustus* Pollet; det. M. Pollet, 2002.  
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.  
Holotype ♂: 10 mi.W. El Salto, Dgo. MEX., 9000' June 10 1964 J.F. McAlpine/ Gen. Prep. No. SN2001-9 St. Naglis 2001/ Holotype Bickelomyia n. gen. canescens n. sp. St. Naglis det. 2001.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Bickelomyia flaviseta* Naglis, 2002b, Studia dipterol. 9: 232. MEXICO.  
Holotype ♂: MEXICO, Chis. San Cristobal de Las Casas 7087'27.V.1969 B.V. Peterson/ Gen. Prep. No. SN2001-6 St. Naglis 2001/ Holotype Bickelomyia n. gen. flaviseta n. sp. St. Naglis det. 2001.  
Paratypes: 2♀♀, 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.  
Holotype ♂: COSTA RICA Monteverde 15.II-15.III. 1986 A. Forsyth/ Holotype Bickelomyia n. gen nigriseta n. sp. St. Naglis det. 2001.  
Paratype: 1♂, Costa Rica
- Bickelomyia setipyga* Naglis, 2002b, Studia dipterol. 9: 237. MEXICO.  
Holotype ♂: 10 mi.W.El Salto, Dgo. MEX., 9000' June 12 1964 J.F. McAlpine/ Gen. Prep. No. SN2001-10 St. Naglis 2001/ Holotype Bickelomyia n. gen. setipyga n. sp. St. Naglis det. 2001.  
Paratypes: 2♀♀, Mexico.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Bickelomyia subcanescens* Naglis, 2002b, Studia dipterol. 9: 234. MEXICO.  
Holotype ♂: MEX.Dgo.9000' El Salto, 10 mi.W 30 June 1964 W.R.M.Mason/ Holotype Bickelomyia n. gen. subcanescens n. sp. St. Naglis det. 2001.  
Paratype: 1♂, 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.  
Holotype ♂: FRENCH GUIANA: Sinnamary (Commune), Sinnamary, Pointe/ Combi, 1-31.x.2000, rainforest MT, Philippe Cerdan FRGY/2000/008/ HOLOTYPE *Cheiromyia brevitarsis* Brooks.  
Paratypes: 4♂♂, French Guiana.
- Campsicnemus keokeo* Evenhuis, 2003, Bishop Mus. Occ. Pap. 75: 13. HAWAII.  
Holotype ♂: Pihea-Kilohana Trail, Kokee St. Pk. KAUAI 1200m ~~IV~~.1979 25.IV./ J.R. VOCKEROTH Ex wet forest -pan trap/ HOLOTYPE *Campsicnemus keokeo* Evenhuis ♂.  
Paratype: 1♂, Hawaii.
- Campsicnemus pe* Evenhuis, 2003, Bishop Mus. Occ. Pap. 75: 23. HAWAII.  
Holotype ♂: Pihea-Kilohana Trail, Kokee St. Pk. KAUAI 1200m ~~IV~~.1979 25.IV./ HOLOTYPE *Campsicnemus pe* Evenhuis ♂.  
Paratype: 1♂, Hawaii.
- Chrysotus baerti* Bickel & Sinclair, 1997, Ent. scand. 28: 248. ECUADOR.  
Holotype ♂: ECU:Galapagos Isabela, Sto. 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: 13♂♂, 1♀, Belize.
- Eothalassius borkenti* Cumming & Brooks in Brooks & Cumming, 2012, Can. Ent. 143: 439. COSTA RICA.  
Holotype ♂: CR: Herradura 16.XII.1993 A. Borkent CD 1709/ ex. tidal rocks at low tide/ HOLOTYPE *Eothalassius borkenti* Cumming and Brooks.  
Paratypes: 1♂♂, 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.



- ♂, ♀: PARATYPE H. pilitarsis Mall. CNC No. 328/ Teller, July 29.13, Alaska/ Canadian Arctic Expedition F.J. 1913.  
Remarks: This entry updates the listing in Cooper & Cumming (1993). Malloch (1919) did not designate a holotype in the original description, so the three specimens in the CNC are syntypes.
- Lapita dumbea* Bickel, 2002, Mém. Mus. natn. Hist. nat., Paris 187: 55. NEW CALEDONIA.  
Holotype ♂: Dumbea 100 m. NEW CALEDONIA Sept. 7. 1972 J.F. McAlpine/ HOLOTYPE *Lapita dumbea* Bickel.  
Paratypes: 6♂♂, 8♀♀, New Caledonia.
- Macroductylomyia magnicauda* Naglis, 2002a, Studia dipterol. 8: 497. BRAZIL.  
Holotype ♂: Nova Teutonia 27° 11'S, 52° 23'W Brazil, 300-500m. XI.1964 Fritz Plaumann/ Gen. Prep. No. SN2000-28 St. Naglis 2000/ Holotype *Macroductylomyia* n. gen. *magnicauda* n. sp. St. Naglis det. 2000.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Medetera galapagensis* Bickel & Sinclair, 1997, Ent. scand. 28: 246. ECUADOR.  
Holotype ♂: ECU:Galap: St. Cruz 2KmN Bellavista 360m, guava thicket 14.V-13.VII.85, S&J Peck Agricultural area, FIT/ HOLOTYPE *Medetera galapagensis* Bickel&Sinclair.  
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 ♂: Cuernavaca, 34 Mi. S., 2600' Morelos Mex. 4-VIII-1954 J.G. Chillcott/ HOLOTYPE *Mesorhaga falciunguis* Bickel.  
Paratype: 1♀, Mexico.
- Microphorella chillcotti* Brooks & Cumming, 2012, Can. Ent. 144: 115. CANADA.  
Holotype ♂: CANADA: BC: Exchamsiks River, 58km SW of Terrace N54°20.00' W129°17.81' 17-18.VIII.2008, MT S.E. Brooks & J.M. Cumming/ HOLOTYPE *Microphorella chillcotti* Brooks & Cumming.  
Paratypes: 3♂♂, 4♀♀, British Columbia; 1 ♂, Alberta.
- Microphorella vockerothi* Brooks & Cumming, 2012, Can. Ent. 144: 119. CANADA.  
Holotype ♂: YUKON Dempster Hwy km 135-145 14.VI.84 S&J Peck Spuce-willow for./ HOLOTYPE *Microphorella vockerothi* Brooks & Cumming.  
Paratypes: 7♂♂, 8♀♀, Yukon Territory.
- Nepalomyia dilaticosta* Runyon & Hurley, 2003, Ann. ent. Soc. Am. 96: 410. CANADA.  
Holotype ♂: Ottawa, ONT., 8.VII.1990, J.R. Vockeroth/ Damp second-growth Acer-Betula wood/ HOLOTYPE *Nepalomyia dilaticosta* desig. J. B. Runyon and R. L. Hurley 2003.
- Neurigona montebello* Naglis, 2003b, Studia dipterol. 10(1): 302. MEXICO.  
Holotype ♂: Montebello Nat. Park, Chiapas 5000' 31.V.1969, B.V. Peterson (Mal./ CNC Canadian National Collections/ Holotype *Neurigona montebello* n. sp. det. St. Naglis 2002/ Gen. Prep. No. SN2002-32.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Neurigona obscurata* Naglis, 2003b, Studia dipterol. 10(1): 305. MEXICO.  
Holotype ♂: MEXICO, Chiapas, Yerba Buena Hwy 195, 24.VI.1969, B.V. Peterson/ CNC Canadian National Collections/ Holotype *Neurigona obscurata* n. sp. det. St. Naglis 2002.  
Paratypes: 8♂♂, Mexico.
- Neurigona pseudobanksi* Naglis, 2003b, Studia dipterol. 10(1): 295. BRAZIL.  
Holotype ♂: Nova Teutonia 27°11' S, 52°23' W Brasil, 300-500 m, X.1962, Fritz Plaumann/ CNC Canadian National Collections/ Holotype *Neurigona pseudobanksi* n. sp. det. St. Naglis 2002.  
Paratypes: 2♂♂, Brazil.
- Neurigona purulha* Naglis, 2003b, Studia dipterol. 10(1): 304. GUATEMALA.  
Holotype ♂: GUATEMALA:BV, 8km S. Purulha, 20-25.V.91, MT H. Howden/ CNC Canadian National Collections/ Holotype *Neurigona purulha* n. sp. det. St. Naglis 2002/ Gen. Prep. No. SN2002-34.  
Paratype: 1♂, Guatemala.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Neurigona subnervosa* Naglis, 2003b, Studia dipterol. 10(1): 301. MEXICO.  
Holotype ♂: MEXICO, Veracruz, Lake Catemaco 18.VI.1969, B.V. Peterson/ CNC Canadian National Collections/ Holotype *Neurigona subnervosa* n. sp. det. St. Naglis 2002/ Gen. Prep. No. SN2002-26.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Neurigona yacambo* Naglis, 2003b, Studia dipterol. 10(1): 287. VENEZUELA.  
Holotype ♂: VENEZ. Yacambo 1200m, 10.V.81 H.K. Townes/ CNC Canadian National Collections/ Holotype *Neurigona yacambo* n. sp. det. St. Naglis 2002/ Gen. Prep. No. SN2002-10.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Oedematopiella nathaliae* Naglis, 2011, Zootaxa 2756: 50. COSTA RICA.  
Holotype ♂: CR, Puntarenas, Monteverde, 23-27.II.1991, B.J. Sinclair/ 1700m, ex. madicolous stream CNC ex AMS Canadian Nat. Coll. Ottawa/ Holotype *Oedematopiella nathaliae* det. S. Naglis  
Paratypes: 3♂♂, 2♀♀, Costa Rica.
- Paracoelognathus chilensis* Naglis, 2001, Studia dipterol. 8: 201. CHILE.

- Holotype ♂: Dalcahue Isla Chiloe Chiloe, CHILE 17-22.I.62. Pena/ Holotype Paracoelloglutus n. gen. chilensis sp. n. St. Naglis det. 5.2000.  
Paratypes: 6♂♂, 1♀, Chile.
- Pinacocerus candiptorum* Bickel, 2012, Can. Ent. 144: 57. CHILE.  
Holotype ♂: Lincura Malleco, CHILE 6-10.I.1959 L.E. Peña 1800m/ HOLOTYPE Pinacocerus candiptorum Bickel.  
Paratype: 1♂, Chile.
- Scellus abditus* Hurley, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 6: 145. CANADA.  
Holotype ♂: Jumping Pd. Cr., 20mi. W. Calgary, ALTA. 28 June, W.R.M. Mason '62/ Scellus amplus Curran dt. Hendrickson/ HOLOTYPE Scellus abditus ds. R. Hurley '92.  
Paratypes: 4♂♂, Saskatchewan; 6♂♂, 5♀♀, Alberta.
- Scellus asaroticus* Hurley, 1995, Flies of the Nearctic Region. Schweizerbart, Stuttgart. 6: 153. USA.  
Holotype ♂: BRIGHTON, UTAH, 7-24-49/ F.C. Harmston, Collectors/ Scellus filifer Loew, dt. Hendrickson/ HOLOTYPE Scellus asaroticus ds. R. Hurley '92.  
Paratype: 1♂, Utah.
- Syntormon aotearoa* Bickel, 1999, Invert. Taxon. 13: 202. NEW ZEALAND.  
Holotype ♂: N.Z. Banks Pen. Forsythe Lake 14.I. 1974 G.E. Shewell/ HOLOTYPE Syntormon aotearoa Bickel.  
Paratypes: 1♂, 1♀, New Zealand.
- Tachytrechus dios* Brooks in Brooks & Cumming, 2008, Zootaxa 1676: 11. PERU.  
Holotype ♂: Avispas, Madre de Dios, PERU 10-20.ix.1962, L. Pena 400 m./ HOLOTYPE Tachytrechus dios Brooks.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Telmaturgus robinsoni* Runyon, 2012, Can. Ent. 144: 342. CANADA.  
Holotype ♂: Lac Phillippe 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* Runyon, 2012, Can. Ent. 144: 344. CANADA.  
Holotype ♂: Kouchibouguac N.P. N.B. 5.VII.1977 J.R. Vockeroth Code-54862/ HOLOTYPE ♂ Telmaturgus vockerothi J.B. Runyon.  
Paratypes: 4♂♂, 1♀, New Brunswick; 1♂, 1♀, Ontario.
- Thalassophorus arnaudi* Brooks & Cumming, 2011, Can. Ent. 143: 429. CANADA.  
Holotype ♂: CAN: BC: Prince Rupert Ridley Island, N54°14.13' W130°19.80', 16.viii.2008 shore/beach with rocks, logs & boulders S.E. Brooks/ HOLOTYPE Thalassophorus arnaudi Brooks & Cumming.  
Paratypes: 4♂♂, 14♀♀, British Columbia; 18♂♂ 11♀♀, Oregon; 30♂♂, 16♀♀, California.
- Viridigona albisigna* Naglis, 2003a, Studia dipterol. 9(2): 575. PERU.  
Holotype ♂: Quincemil Cuzco, PERU 13-31.VIII.'62 L. Pena, 780m./ CNC Canadian National Collections/ Holotype Viridigona albisigna n. sp. St. Naglis det. 2001.  
Paratypes: 20♂♂, Peru.
- Viridigona beckeri* Naglis, 2003a, Studia dipterol. 9(2): 582. BRAZIL.  
Holotype ♂: Nova Teutonia 27° 11'S, 52°23'W Brazil, 300-500 m, x.1962, Fritz Plaumann/ CNC Canadian National Collections/ Holotype Viridigona beckeri n. sp. St. Naglis det. 2001/ Gen. Prep. No. SN2001-17 St. Naglis 2001.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Viridigona bisetosa* Naglis, 2003a, Studia dipterol. 9(2): 572. CHILE.  
Holotype ♂: Estero la Jaula, Curico, CHILE I. 1964, L. Pena Nothofagus/ CNC Canadian National Collections/ Holotype Viridigona bisetosa n. sp. St. Naglis det. 2001.  
Paratypes: 41♂♂, 4♀♀, Chile.
- Viridigona longicornis* Naglis, 2003a, Studia dipterol. 9(2): 570. CHILE.  
Holotype ♂: Dalcahue Isla Chiloe Chiloe, CHILE 17-31.I.62. Pena./ CNC Canadian National Collections/ Holotype Viridigona longicornis n. sp. St. Naglis det. 2001.  
Paratypes: 1♂, 1♀, Chile.
- Viridigona longiseta* Naglis, 2003a, Studia dipterol. 9(2): 593. BELIZE.  
Holotype ♂: BR. HONDURAS Middlesex, 125 m. 20.IV.1965 E.C. Welling/ CNC Canadian National Collections/ Holotype Viridigona longiseta n. sp. St. Naglis det. 2001.  
Paratypes: 2♂♂, Belize.
- Viridigona magnifica* Naglis, 2003a, Studia dipterol. 9: 597. PERU.  
Holotype ♂: Avispas, Madre de Dios, PERU 10-20.IX.1962 L. Pena. 400 m./ CNC Canadian National Collections/ Holotype Viridigona magnifica n. sp. St. Naglis det. 2001.  
Paratypes: 12♂♂, 3♀♀, Peru.
- Viridigona merzi* Naglis, 2003a, Studia dipterol. 9(2): 573. CHILE.  
Holotype ♂: Rio Blanco Malleco, CHILE II. 1964. Pena 1100-2000m./ CNC Canadian National Collections/ Holotype Viridigona merzi n. sp. St. Naglis det. 2001.  
Paratypes: 7♂♂, 5♀♀, Chile.
- Viridigona ponti* Naglis, 2003a, Studia dipterol. 9: 589. BRAZIL.  
Holotype ♂: Nova Teutonia 27°11'S, 52°23'W Brazil, 300-500 m 15.XI. 1962 Fritz Plaumann/ CNC Canadian National Collections/ Holotype Viridigona merzi n. sp. St. Naglis det. 2001/ Gen. Prep. No. SN2001-25.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

*Viridigona subbrondinha* Naglis, 2003a, *Studia dipterol.* 9(2): 578. BRAZIL.  
 Holotype ♂: Nova Teutonia, 27°11'S, 52°23'W Brazil, 300-500m 16.X.1962 Fritz Plaumann/ CNC Canadian National Collections/ Holotype *Viridigona subbrondinha* n. sp. St. Naglis det. 2001/ Gen. Prep. No. SN2001-35  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

*Viridigona teutonia* Naglis, 2003a, *Studia dipterol.* 9(2): 587. BRAZIL.  
 Holotype ♂: Nova Teutonia 27°11'S, 52°23'W Brazil, 300-500 m X.1944 Fritz Plaumann/ CNC Canadian National Collections/ Holotype *Viridigona teutonia* n. sp. St. Naglis det. 2001/ Gen. Prep. No. SN2001-24.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

*Viridigona tinalandia* Naglis, 2003a, *Studia dipterol.* 9(2): 582. 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 *Viridigona tinalandia* n. sp. St. Naglis det. 2001/ Gen. Prep. No. SN2001-18.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

#### DROSOPHILIDAE

*Cladochaeta ambidextra* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 14. MEXICO.  
 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.

*Cladochaeta erecta* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 145. ECUADOR.  
 Holotype ♂: Coca,Napo R. Napo, ECUADOR 25-30.IV.65 250 m.,L. Pena/ 107 ♂/ HOLOTYPE *Cladochaeta erecta* Grimaldi.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

*Cladochaeta glans* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 146. ECUADOR.  
 Holotype ♂: Loja, 2500m. Loja, ECUADOR 23-25.III.1965 L.E. Pena/ 110 male/ HT ♂ glans [paper slide mount]/ HOLOTYPE *Cladochaeta glans* Grimaldi.  
 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. Date of collection of holotype was published as "23-25.II.65".

*Cladochaeta mexinversa* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 65. MEXICO.

Holotype ♂: MEXICO,Chis.San Cristobal de Las Casas 7087'3-7.VI. 1969 B.V.Peterson/ 100 male/ mexinversa: HT ♂ [paper slide mount]/ HOLOTYPE *Cladochaeta mexinversa* Grimaldi.  
 Paratype: 1♀, Mexico.  
 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.

*Cladochaeta mystaca* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 101. MEXICO.  
 Holotype ♂: 20 mi.E. Concordia Sin.MEX 3000' 8 VIII.1964/ 102 ♂/ mystaca HT ♂ [paper slide mount]/ HOLOTYPE *Cladochaeta mystaca* Grimaldi.  
 Remarks: Left wing of holotype is mounted on a paper slide mount pinned below specimen.

*Cladochaeta ostia* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 194. MEXICO.  
 Holotype ♂: MEX.Chis. 6500ft. 20 mi. N. Bochil Yerba Buena 24 June W.R.M. Mason 1969/ 98 ♂/ ostia HT ♂ [paper slide mount]/ HOLOTYPE *Cladochaeta ostia* Grimaldi.  
 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.

*Cladochaeta spectabilis* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 270. ECUADOR.  
 Holotype ♂: ECUADOR Napo Province Jondachi, 7200m 20.V.1991 Legit: G. Onore/ 326/ 326 [paper slide mount]/ HOLOTYPE *Cladochaeta spectabilis* Grimaldi.  
 Paratype: 1♂, Ecuador.  
 Remarks: Left wing of holotype is mounted on a paper slide mount pinned below specimen.

*Cladochaeta volsella* Grimaldi & Nguyen, 1999, *Bull. Am. Mus. nat. Hist.* 241: 241. MEXICO.  
 Holotype ♂: MEX.Chis. 7000ft. 20 mi N. Bochil Y. Buena, cloudfor. Mason 10 June 1969/ ♂/ *Cladochaeta volsella* Grimaldi.  
 Paratypes: 1♂, Mexico.

#### EMPIDIDAE

*Anaclastoctedon sano* Plant, 2010, *Raffels B. Zool.* 58: 22. NEPAL.  
 Holotype ♂: NEPAL: between Ghopte and Thari Pati 3200m, 26.IV.1985 A. Smetana/ Holo-type/ *Anaclastoctedon sano* Plant HOLOTYPE.  
 Paratypes: 6♂♂, 1♀, Nepal.

*Chelifera circinata* MacDonald, 1994, *Proc. ent. Soc. Wash.* 96: 248. USA.  
 Holotype ♂: On tundra Cold Bay, 163°W Alaska 26-VII 1952, W.R. Mason/ HOLOTYPE *Chelifera circinata* MACDONALD CNC No. 21330.  
 Allotype ♀: Same data as holotype except with allotype label.

- Paratypes: 3♀♀, British Columbia; 11♂♂, 5♀♀, Alaska.
- Chelifera multidentata* MacDonald, 1994, Proc. ent. Soc. Wash. 96: 259. USA.  
Holotype ♂: USA:NC: Swain Co. Great Smoky Mtns N.P. 15.VI.1990, Newfound Gap B.J. Sinclair ex. sweeping/ HOLOTYPE *Chelifera multidentata* MACDONALD CNC No. 21331.  
Allotype ♀: Gr. Smoky Mt. Nat. Pk., N.C. 2.VII-1957 J.R. Vockeroth/ Indian Gap 5200/ Allotype *Chelifera multidentata*.  
Paratypes: 2♂♂, 2♀♀, North Carolina; 1♂, 2♀♀, Tennessee.
- Chelifera subnotata* MacDonald, 1994, Proc. ent. Soc. Wash. 96: 271. USA.  
Holotype ♂: NY Schuyler Co. Texas Hollow 20 Aug 1980 [date handwritten over typed "July 1978"] leg DJ Bickel/ HOLOTYPE *Chelifera subnotata* MACDONALD CNC No. 21332.  
Paratype: 1♂, New York.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Chelifera 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.
- Chelipoda limitaria* MacDonald, 1993, Proc. ent. Soc. Wash. 95: 338. USA.  
Holotype ♂: GA: McIntosh Co. Sapelo Island 28.IV-9.V.1987; MT Live Oak Forest BRC HYM. TEAM/ HOLOTYPE *Chelipoda limitaria* MACDONALD CNC No. 21333.  
Allotype ♀: Same data as holotype except with allotype label and a date of "28.IV.1987".  
Paratypes: 37♀♀, Georgia; 5♀♀, Texas.
- Chelipoda truncata* MacDonald, 1993, Proc. ent. Soc. Wash. 95: 347. USA.  
Holotype ♂: Warwoman Cr. Ga Rabun Co. 1500' 31.VII.1957 J.G.Chillcott/ male gen. cleared by Mc.Donald Idema-illustr./ HOLOTYPE *Chelipoda truncata* MACDONALD CNC No. 21334.  
Allotype ♀: Rabun Bald, Ga. Rabun Co. 3000' 14-VII-1957 J.G. Chillcott/ Allotype *Chelipoda truncata*.  
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: Cautin, 1150m Conguillio Nat. Park Araucaria Nothophagus Feb. 4, 1988; L. Masner, Chile Exp./ Holo-type/ *Chelipodozus araucariana* Plant HOLOTYPE.  
Paratypes: 43♂♂, 112♀♀, Chile.
- Chelipodozus luteothorax* Plant, 2008, Tijdschr. Ent. 151: 109. CHILE.  
Holotype ♂: CHILE, Malleco, 14 Km E. Malalcahuello 3-31.XII.821570m A. Newton & M. Thayer/ *Chelipodozus* sp. 3 det. B.J. Sinclair 2007/ Holo-type/ *Chelipodozus luteothorax* Plant HOLOTYPE.
- Chelipodozus chelipodiformis* Plant, 2008, Tijdschr. Ent. 151: 107. CHILE.  
Holotype ♂: CHILE: Cautin, 1150m Conguillio Nat. Park Araucaria Nothophagus Feb. 4, 1988; L. Masner, Chile Exp./ Holo-type/ *Chelipodozus chelipodiformis* Plant HOLOTYPE.  
Paratypes: 83♂♂, 41♀♀, Chile.
- Clinocera amarilla* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 49. CANADA.  
Holotype ♂: CANADA: BRITISH COLUMBIA Manning Prov. Pk. 4.VII.1989 Strawberry Flats, small stream, BJ Sinclair/ HOLOTYPE *Clinocera amarilla* Sinclair.  
Paratypes: 1♀, Alberta; 17♂♂, 16♀♀, British Columbia
- Clinocera appalachia* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 147. USA.  
Holotype ♂: USA:NC: Buncombe Co. Craggy Gardens Picnic Area, Blue Ridge Pkwy 12.VI.1990, 1580m roadcut seep, BS9021 B.J. Sinclair/ HOLOTYPE *Clinocera appalachia* Sinclair.  
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.  
Holotype ♂: 50 mi SW of Terrace, B.C. 9.VII.1960 J.G. Chillcott/ HOLOTYPE *Clinocera borkenti* Sinclair.  
Paratypes: 20♂♂, 17♀♀, British Columbia; 3♂♂, 1♀, Oregon; 1♀ Washington.
- Clinocera brevicauda* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 126. USA.  
Holotype ♂: USA:AZ: Santa Cruz Co. Coronado Nat. For. Santa Rita Mtns. Madera Canyon B.J. Sinclair/ ex. Madera Creek 4.VI.1991/ HOLOTYPE *Clinocera brevicauda* Sinclair.  
Paratypes: 12♂♂, 18♀♀, Arizona
- Clinocera brunnea* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 30. CANADA.  
Holotype ♂: ONT: Owen Sound Inglis Falls - spring 29.XI.1985 B. Sinclair/ HOLOTYPE *Clinocera brunnea* Sinclair.  
Paratypes: 4♂♂, 5♀♀, Ontario.
- Clinocera caerulea* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 34. USA.

- Holotype ♂: USA OREGON: Siuslaw Nat.For, Mary's Peak Benton Co. 14.VII.1989 Parkers Ck. & Falls BJ Sinclair/ HOLOTYPE *Clinocera caerulea* Sinclair.  
Paratypes: 1♂, Alberta; 6♂♂, 2♀♀, British Columbia; 15♂♂, 17♀♀, Oregon.
- Clinocera chilensis* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 183. CHILE.  
Holotype ♂: Puerto Ibanez Lag. Buenos Aires Aysen, CHILE 12-15.I.'61. L. Pena/ HOLOTYPE *Clinocera chilensis* Sinclair.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen (terminalia fractured, missing distiphallus).
- Clinocera coloradensis* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 55. USA.  
Holotype ♂: Corona Pass, Colo. Boulder Co., 10,600' 11.VII.1961 J.G. Chillcott/ HOLOTYPE *Clinocera coloradensis* Sinclair.  
Paratypes: 12♂♂, 17♀♀, Colorado.
- Clinocera cordillerana* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 66. USA.  
Holotype ♂: Corona Pass, Colo. Boulder Co. 10,600' 11.VIII.1961 J. G. Chillcott/ HOLOTYPE *Clinocera cordillerana* Sinclair.  
Paratypes: 2♂♂, 3♀♀, Alberta; 3♂♂, 4♀♀, Colorado.
- Clinocera daniellae* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 38. USA.  
Holotype ♂: USA: OREGON: Siskiyou Nat.For. 24 kmE Elk R.Rd. Pt Orford Curry Co.17.VII.1989 roadcut seep BJ Sinclair/ Wing Slide No. 9927/ HOLOTYPE *Clinocera daniellae* Sinclair.  
Paratypes: 2♂♂, 4♀♀, Oregon.
- Clinocera disjuncta* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 90. CANADA.  
Holotype ♂: CANADA: Alberta Peter Lougheed P.Pk Lk. Rawson, 2020m 18.ix.2003 B.J. Sinclair ex. outlet from Lake/ HOLOTYPE *Clinocera disjuncta* Sinclair.  
Paratypes: 2♂♂, 2♀♀, Alberta; 1♂, British Columbia; 1♀, Quebec; 1♂, New Hampshire.
- Clinocera femorata* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 96. CANADA.  
Holotype ♂: CANADA: BRITISH COLUMBIA 12kmN Revelstoke-Hwy23 2.VII.1989, St. Cyr Ck. BJ Sinclair/ HOLOTYPE *Clinocera femorata* Sinclair.  
Paratypes: 2♂♂, 2♀♀, British Columbia; 2♂♂, Oregon.
- Clinocera isabellina* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 198. COSTA RICA.  
Holotype ♂: COSTA RICA: San Jose Prov. San Gerardo de Dota 7-10.viii.1995, 2200m J.M. Cumming ex. trib. R. Savegre/ HOLOTYPE *Clinocera isabellina* Sinclair.  
Paratypes: 17♂♂, 27♀♀, Costa Rica; 2♂♂, 1♀, Venezuela.
- Clinocera lapazensis* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 200. BOLIVIA.  
Holotype ♂: BOLIV. Unduavi 3500-4000m. La Paz, Yungas 29.X.68. Pena/ HOLOTYPE *Clinocera lapazensis* Sinclair.  
Remarks: Holotype missing arista-like stylus; hindlegs, left wing and genitalia stored in glycerine in a plastic microvial pinned below specimen.
- Clinocera longicauda* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 39. USA.  
Holotype ♂: USA: OREGON: Siskiyou Nat. For. 17.6 kmE Elk . Rd. Pt. Orford Curry Co. 17.VII.1989 stream BJ Sinclair/ HOLOTYPE *Clinocera longicauda* Sinclair.  
Paratypes: 6♂♂, 5♀♀, Oregon.
- Clinocera macdonaldi* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 135. USA.  
Holotype ♂: USA:AZ: Grand Canyon NP CR#7, Elves Canyon 10-21.v.1998, J.F. MacDonald/ HOLOTYPE *Clinocera macdonaldi* Sinclair.  
Paratypes: 2♀♀, Arizona.
- Clinocera madera* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 136. USA.  
Holotype ♂: USA:AZ: Santa Cruz Co. Santa Rita Mountains Coronado Nat. Forest Madera Canyon B.J. Sinclair/ 3.VI.1991 ex. Bog Spring 6000 feet/ HOLOTYPE *Clinocera madera* Sinclair.  
Paratypes: 50♂♂, 24♀♀, Arizona.
- Clinocera meridana* Sinclair, 2008, The systematics 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.
- Clinocera nigriscutata* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 139. COSTA RICA.  
Holotype ♂: CR: Puntarenas Monteverde, 1500m 1-10.III.1992 D.M. Wood MT beside stream/ HOLOTYPE *Clinocera nigriscutata* Sinclair.  
Paratypes: 3♂♂, 3♀♀, Costa Rica.
- Clinocera obunca* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 141. COSTA RICA.  
Holotype ♂: CR: Puntarenas/ Monteverde, 1700m 25.II.1991 ex. spring B.J. Sinclair HOLOTYPE *Clinocera obunca* Sinclair.  
Paratypes: 1♂, 1♀, COSTA RICA.
- Clinocera penai* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 210. CHILE.  
Holotype ♂: CHILE: Chiloe Is. Ahoni Alto April 1988 L.E. Pena, MT primary forest/ HOLOTYPE *Clinocera penai* Sinclair.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Clinocera stigma* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 115. USA.  
Holotype ♂: USA: WASHINGTON Mt. Rainier Nat.Pk. nr.Paradise 8.vii.1989 Edith Ck. BJ Sinclair/ HOLOTYPE *Clinocera stigma* Sinclair.

- Paratypes: 3♀♀, Alberta; 13♂♂, 9♀♀, British Columbia; 10♂♂, 7♀♀, Washington.
- Clinocera sublineata* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 143. USA.  
Holotype ♂: USA:GA: White Co. Chattahoochee Nat. For. 21.VI.1990 Raven Cliff Falls Tr. ex. Spring seepage BJ Sinclair/ HOLOTYPE *Clinocera sublineata* Sinclair.  
Paratypes: 16♂♂, 27♀♀, Georgia; 3♀♀, Kentucky; 1♂, North Carolina; 2♂♂, South Carolina; 5♂♂, 13♀♀, Tennessee; 3♂♂, West Virginia.
- Clinocera substagnalis* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 180. USA.  
Holotype ♂: USA: ALASKA, Mile 206 Richardson Hwy Beaver pond margins 16.VII.1989 D.M. Wood/ HOLOTYPE *Clinocera substagnalis* Sinclair.  
Paratypes: 8♂♂, 8♀♀, Alberta; 1♂, British Columbia; 2♂♂, 1♀, Alaska; 2♀♀, Wyoming.
- Clinocera subtrunca* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 81. CANADA.  
Holotype ♂: CAN: B.C.20km. N. Squamish 30.VII.1990 A. Borkent CD 1240; HOLOTYPE *Clinocera subtrunca* Sinclair.  
Paratypes: 27♂♂, 37♀♀, British Columbia.
- Clinocera woodi* Sinclair, 2008, The systematics of New World *Clinocera* Meigen: 144. COSTA RICA.  
Holotype ♂: CR: Puntarenas Monteverde, 1500m 24.II.1991 ravine seepage B.J. Sinclair/ HOLOTYPE *Clinocera woodi* Sinclair.  
Paratypes: 32♂♂, 30♀♀, Costa Rica.
- Dolichocephala borkenti* Sinclair & MacDonald, 2013, Can. Ent. 144: 70. CANADA.  
Holotype ♂: CANADA: BC; 6km NE Falkland CD 1054 12–13.VII.1989 A. Borkent/ ex. floated from wet moss/ HOLOTYPE *Dolichocephala borkenti* Sinclair & MacDonald.
- Dolichocephala chillcotti* Sinclair & MacDonald, 2013, Can. Ent. 144: 71. CANADA.  
Holotype ♂: Kleanza Creek, 14. mi. E. Terrace B.C. 30.VI.1960 J.G. Chillcott/ wet scrubby clearing/ HOLOTYPE *Dolichocephala chillcotti* Sinclair & MacDonald.  
Paratypes: 15♂♂, 8♀♀, British Columbia; 2♀♀, Colorado.
- Dolichocephala teskeyi* Sinclair & MacDonald, 2013, Can. Ent. 144: 73. USA.  
Holotype ♂: USA: CA: Del Norte County Jediah Smith Redwoods SP Walker Rd., ca. 41°48'44"N 124°6'36"W, 25.V.2009, creek, S.E. Brooks/ HOLOTYPE *Dolichocephala teskeyi* Sinclair & MacDonald.  
Paratypes: 2♂♂, 2♀♀, California.
- Dolichocephala vockerothi* Sinclair & MacDonald, 2013, Can. Ent. 144: 75. CANADA.  
Holotype ♂: N.S. CBHnt. Pk. Beulach Ban Falls PG812870 8.VII.1983/ Swept along fast rocky stream J.R. Vockeroth/ HOLOTYPE *Dolichocephala vockerothi* Sinclair & MacDonald.  
Paratypes: 1♀, British Columbia; 1♂, Newfoundland; 3♂♂, 4♀♀, Nova Scotia; 3♀, 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.  
Holotype ♂: Umiat, Alaska 14.VII.1959 R. Madge/ HOLOTYPE *Dolichocephala woodi* Sinclair & MacDonald.  
Paratypes: 1♂, Northwest Territories; 1♂, 1♀, Russia.
- Empis (Enoplemis) appalachicola* Sinclair in Sinclair et al., 2013, Zootaxa 3736: 410. USA.  
Holotype ♂: Clingmans Dome, N.C. 6647' 3.VI.1962 Great Smoky M.N.P. J.G. Chillcott/ HOLOTYPE *Empis (Enoplemis) appalachicola* Sinclair.  
Paratypes: 8♂♂, 5♀♀, North Carolina.
- Empis (Enoplemis) montywoodi* Brooks in Sinclair et al., 2013, Zootaxa 3736: 425. CANADA.  
Holotype ♂: Great Smoky Mt. N.P.,N.C. Tenn. 18-VI-1957 W.R.M. Mason/ Indian Gap 5200'/ HOLOTYPE *Empis (Enoplemis) montywoodi* Brooks.  
Paratypes: 5♂♂, 4♀♀, North Carolina; 1♀, North Carolina/Tennessee.
- Empis (Enoplemis) pectinata* Sinclair in Sinclair et al., 2013, Zootaxa 3736: 433. USA.  
Holotype ♂: CAN: QC: Gatineau Masham, Duncan Lk N45°40'59.43" W76°3'21.38" 21.vi.1993 D.M. Wood/ HOLOTYPE *Empis (Enoplemis) pectinata* Sinclair.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Empis (Enoplemis) vockerothi* Cumming in Sinclair et al., 2013, Zootaxa 3736: 448. CANADA.  
Holotype ♂: Niagara Glen, Ont., 22.V.66 J.R. Vockeroth/ Bearing balloons/ HOLOTYPE *Empis (Enoplemis) vockerothi* Cumming.  
Paratypes: 12♂♂, 11♀♀, Ontario; 1♂, 2♀♀, Virginia.
- Hemerodromia ligata* MacDonald, 1998, Proc. ent. Soc. Wash. 100: 809. USA.  
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.
- Hemerodromia loba* MacDonald, 1998, Proc. ent. Soc. Wash. 100: 811. USA.  
Holotype ♂: Truckee, CALIF. 6000' Tahoe Co. 14. VII. 1961 B.H. Poole/ HOLOTYPE *Hemerodromia loba* MACDONALD CNC No. 21336.  
Allotype ♀: Same data as holotype except with allotype label.  
Paratypes: 1♂, 3♀♀, California.

- Hemerodromia sinclairi* MacDonald, 1998, Proc. ent. Soc. Wash. 100: 815. USA.  
 Holotype ♂: USA:NM: Grant Co. Gila Nat. For. 29.VI.1991 E. Fork Gila River BJ Sinclair BS9101/ HOLOTYPE *Hemerodromia sinclairi* MacDonald.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Remarks: 5♂♂, 2♀♀, New Mexico.
- Hemerodromia subchelata* MacDonald, 1998, Proc. ent. Soc. Wash. 100: 818. USA.  
 Holotype ♂: Kerrville, TEX. 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.  
 Holotype ♂: USA: KY: Whitely Co. Cumberland Falls St. Pk. 20 mi. W. Corbin 27.IV.89, J.M. Cumming, along river/ HOLOTYPE ♂  
*Hesperempis anatolica* Cumming & Brooks.  
 Allotype ♀: NC: Watauga Co., Valle Crucis, Camp Broadstone 6mi. W. Boone, 26.V.1999 J.M. Cumming/ ALLOTYPE ♀ *Hesperempis anatolica* Cumming & Brooks.  
 Paratypes: 1♂, 1♀, North Carolina; 2♀♀, Georgia; 1♀, Kentucky.
- Hesperempis vespera* Cumming & Brooks in Cumming et al., 2013, Can. Ent. 146: 204 USA.  
 Holotype ♂: USA:OR:Multnomah Co. Wahkeena Falls 45°34.54'N 122°07.68'W 7.vi.2009, I. Winkler/ HOLOTYPE ♂ *Hesperempis vespera* Cumming & Brooks.  
 Allotype ♀: Lily Pond, Alpine Lk., Marin Co. CALIF. 1500'/ V. VI.1970/ Mal. tr. D.D. Munroe/ ALLOTYPE ♀ *Hesperempis vespera* Cumming & Brooks.  
 Paratype: 1♂, California.
- Hydropeza curicoa* Sinclair & Plant, 2007, Acta entomol. chil. 31: 8. CHILE.  
 Holotype ♂: CHILE: Chiloe I. Ahono Alto 70m March. 1988 L.E. Pena, MT primary forest/ HOLOTYPE *Hydropeza curicoa* 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°23'44"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.  
 Holotype ♂: Quincemil Cuzco PERU 1-15.XI.1962, L. Pena. 700m./ HOLOTYPE ♂ *Macrostomus ciliaticosta* Raphael.  
 Paratypes: 2♂♂, Peru.
- Macrostomus penai* Raphael & Cumming, 2006, Zootaxa 1136: 58. PERU.  
 Holotype ♂: Quincemil Cuzco PERU 1-15.XI.1962, L. Pena. 700m./ HOLOTYPE ♂ *Macrostomus penai* Raphael.  
 Paratypes: 7♀♀, Peru; 2♀♀, Ecuador.
- Neoplasta chrysopleura* MacDonald & Turner, 1993, Proc. ent. Soc. Wash. 95: 373. USA.  
 Holotype ♂: USA:AL, Conecuh Co. 10kmE. Evergreen 23.IV.1989 J.M. Cumming/ ex: along woodland sandbottom stream/ HOLOTYPE *Neoplasta chrysopleura* MACDONAD [sic] & Turner CNC No. 21338.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Paratypes: 2♀♀, Alabama; 2♂♂, South Carolina.
- Neoplasta deyrupi* MacDonald & Turner, 1993, Proc. ent. Soc. Wash. 95: 366. USA.  
 Holotype ♂: USA: 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".
- Neoplasta paramegorchis* MacDonald & Turner, 1993, Proc. ent. Soc. Wash. 95: 370. USA.  
 Holotype ♂: UTAH Cache Co Logan Cyn, Turner C.G. 16-30 Aug 85 W. J. Hanson/ HOLOTYPE *Neoplasta paramegorchis* MacDonald & Turner/ HOLOTYPE *Neoplasta paramegorchis* MACDONALD & Turner CNC No. 21340.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Paratypes: 5♂♂, Alberta; 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♂♂, 23♀♀, 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 munroei* Sinclair & Saigusa, 2001, Ent. Sci. 4: 515. USA.  
 Holotype ♂: Lily Pond, Alpine Lk., Marin Co., CALIF. 1500'/ 15-XII-70 9-1- 1971 Malaise Trap D.D. Munroe/ HOLOTYPE *Ragas munroei* Sinclair & Saigusa.  
 Paratypes: 1♂ (slide), 1♀, California.
- Rhamphomyia (Megacyttarus) astragala* Barták, 2002, Acta Univ. Carol. Biologica 46: 59. CANADA.

- Holotype ♂: Bowser, B. C. 31- V -55 R. Coyles/  
Holotypus *Rhamphomyia astragala* Barták.
- Rhamphomyia (Megacyttarus) canella* Barták, 2002, Acta Univ. Carol. Biologica 46: 69. CANADA.  
Holotype ♂: Zymoetz R. B.C. 6 mi. E. Terrace 3.VI 1960 J.G. Chillcott/ on flowers and leaves of devil's club/ [blank pink label]/ Holotypus *Rhamphomyia canella* Barták.  
Paratypes: 5♂♂, British Columbia; 1♂, California.
- Rhamphomyia (Megacyttarus) contracta* Barták, 2002, Acta Univ. Carol. Biologica 46: 81. CANADA.  
Holotype♂: Chalk River, Ont. 28.V. 1959 J.R. Vockeroth/ Holotypus *Rhamphomyia contracta* Barták.  
Paratypes: 2♂♂, Ontario.
- Rhamphomyia (Megacyttarus) cummingi* Barták, 2002, Acta Univ. Carol. Biologica 46: 84. USA.  
Holotype ♂: NJ: Burlington Co. Bass River State For. 26.IV.1987 J.M. Cumming/ Holotypus *Rhamphomyia cummingi* Barták.  
Paratypes: 12♂♂, New Jersey.
- Rhamphomyia (Megacyttarus) disconnecta* Barták, 2002, Acta Univ. Carol. Biologica 46: 89. CANADA.  
Holotype ♂: Mt Allard, B.C. 23mi. N.Terrace 28-VI 1960 J.G. Chillcott/ Dancing low over pool clearing 3000'/ Holotypus *Rhamphomyia disconnecta* Barták.  
Paratypes: 8♂♂, British Columbia.
- Rhamphomyia herschelli* Malloch, 1919, Report of the Canadian Arctic Expedition. 3: 47. CANADA.  
Syntypes: 2♀♀.  
♀: HOLOTYPE *Rhamphomyia herschelli* Mall., CNC No. 218/ Herschell [sic] Isl., N.W.T./ F. Johansen Coll./ Canadian Arctic Expedition July 29, 1916/ *Rhamphomyia herschelli* Mall., type.  
♀: PARATYPE *Rhamphomyia herschelli* Mall., CNC No. 218/ Herschell [sic] Isl., N.W.T./ F. Johansen Coll./ Canadian Arctic Expedition July 29, 1916.  
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.
- Rhamphomyia (Megacyttarus) latilobata* Barták, 2002, Acta Univ. Carol. Biologica 46: 124. CANADA.  
Holotype ♂: Miners B., Ont. 26 V -1939 G.E. Shewell/ [blank pink label]/ Holotypus *Rhamphomyia latilobata* Barták.  
Paratypes: 12♂♂, Ontario.
- Rhamphomyia (Megacyttarus) laticaura* Barták, 2002, Acta Univ. Carol. Biologica 46: 127. CANADA.  
Holotype ♂: Parke Reserve Kam. Co., Que. 24.VII.1957 G.E. Shewell/ 13/ [blank pink label]/ Holotypus *Rhamphomyia laticaura* Barták.  
Paratypes: 16♂♂, Quebec.
- Rhamphomyia (Megacyttarus) pendens* Barták, 2002, Acta Univ. Carol. Biologica 46: 162. CANADA.
- Holotype ♂: Hebron Lab. 19-VII-1954 E.E. Sterns/  
[blank pink label]/ Holotypus *Rhamphomyia pendens* Barták.  
Paratypes: 19♂♂, Labrador.
- Rhamphomyia (Megacyttarus) praecipua* Barták, 2002, Acta Univ. Carol. Biologica 46: 167. USA.  
Holotype ♂: Isabel Pass, Alaska Mi.206 Richardson Hwy. 2900'17.VII.1962 P.J.Skitsko/ Holotypus *Rhamphomyia praecipua* Barták.  
Paratypes: 19♂♂, Alaska.  
Remarks: Date of collection of holotype was published as "13.vii.1962".
- Rhamphomyia (Megacyttarus) rhythmica* Barták, 2002, Acta Univ. Carol. Biologica 46: 180. USA.  
Holotype ♂: Doolittle Ranch, 9800'Mt. Evans COLO. 3 -VIII J.G.Chillcott'61/ [blank pink label]/ Holotypus *Rhamphomyia rhythmica* Barták.  
Paratypes: 17♂♂, Colorado.
- Rhamphomyia (Megacyttarus) rivalis* Barták, 2002, Acta Univ. Carol. Biologica 46: 186. CANADA.  
Holotype ♂: North Fork Crossing Mi.43 Peel Plt.Rd. 3500'2.VII.1962 R.E.Leech Y.T./ [blank pink label]/ Holotypus *Rhamphomyia rivalis* Barták.  
Paratypes: 9♂♂, Yukon Territory; 1♂, Colorado.
- Rhamphomyia (Megacyttarus) subacuta* Barták, 2002, Acta Univ. Carol. Biologica 46: 199. CANADA.  
Holotype ♂: Mt. Thornhill, nr. Terrace, B.C. 14.VII 1960 J.G.Chillcott/ in boggy seepage area 3500'/ [blank pink label]/ Holotypus *Rhamphomyia subacuta* Barták.  
Paratypes: 17♂♂, British Columbia.
- Rhamphomyia (Megacyttarus) vockerothi* Barták, 2002, Acta Univ. Carol. Biologica 46: 210. CANADA.  
Holotype ♂: Normandale Ont. 21-V-1956 42°42', 80°19' J.R.Vockeroth/ swarming over small stream 8:30 AM/ [blank pink label]/ Holotypus *Rhamphomyia vockerothi* Barták.  
Paratypes: 18♂♂, Ontario.
- Rhamphomyia (Rhamphomyia) bellinsetosa* Barták, 2007, Rev. suisse zool. 114: 418. ITALY.  
Holotype ♂: Celle de Bellino Piedmont, ITALY July 11-12, 1974 W. Baker-Mal. Trap/ Holotypus *Rhamphomyia bellinsetosa* Barták.  
Remarks: Holotype terminalia are stored in a plastic microvial pinned below specimen.
- Rhamphomyia (Rhamphomyia) piedmontensis* Barták, 2007, Rev. suisse zool. 114: 420. ITALY.  
Holotype ♂: Celle de Bellino Piedmont, ITALY July 11-12, 1974 W. Baker-Mal. Trap/ Holotypus *Rhamphomyia piedmontensis* Barták.
- Rhamphomyia (Vockerotherpis) chillcottianna* 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.



- Rhamphomyia (Vockerothepis) fortisetosa* Saigusa, 2012, Can. Ent. 144: 307. USA.  
 Holotype ♀: Highlands, 3800', N.C., 3.vi.1957, J.R. Vockeroth.  
 Paratype: 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 Ck. Falls St. Pk. Cane Ck. below falls 19.VI.1990 B.J. Sinclair, BS9029 ex. emergent rocks/ HOLOTYPE  
 Trichoclinocera agilis Sinclair.  
 Paratypes: 5♂♂, Tennessee.
- Trichoclinocera cummingsi* Sinclair, 1994, Can. Ent. 126: 1035. USA.  
 Holotype ♀: USA:OK:Latimer Co. 5mi N Wilburton Robber's Cave St. Pk. 21.V.93, J.M. Cumming ex. Rough Canyon Ck./ HOLOTYPE Trichoclinocera cummingsi Sinclair.  
 Paratypes: 3♀♀, Oklahoma.
- Trichoclinocera dasycoxa* Sinclair, 1994, Can. Ent. 126: 1026. CANADA.  
 Holotype ♂: Ottawa, Ont. 11.IX-1947 G.E. Shewell/ HOLOTYPE Trichoclinocera dasycoxa Sinclair.  
 Allotype ♀: Ottawa River Remic Rapids Ont. 18.VI.1949 G. E. Shewell/ Emerged into cage/ ALLOTYPE Trichoclinocera dasycoxa Sinclair.  
 Paratypes: 1♂, 1♀, Nova Scotia; 4♂♂, 8♀♀, Ontario.
- Trichoclinocera falcata* Sinclair, 1994, Can. Ent. 126: 1028. CANADA.  
 Holotype ♂: CANADA:Quebec Gatineau Park, Lac Philippe Cpg'd 7.VII.1990, stream at Lusk Cave BJ Sinclair BS9033/ HOLOTYPE  
 Trichoclinocera falcata Sinclair.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Paratypes: 23♂♂, 29♀♀, Quebec; 1♀, Ontario; 11♂♂, 8♀♀, Georgia; 3♂♂, 2♀♀, Pennsylvania.
- Trichoclinocera nepalensis* Sinclair & Saigusa, 2005, Bonn. Zool. Beitr. 53: 202. NEPAL.  
 Holotype ♂: NEPAL, Ktm. Godavari 6000' 18 July 1967 Can. Nepal Exped./ HOLOTYPE  
 Trichoclinocera nepalensis Sinclair + Saigusa.  
 Paratypes: 14♂♂, 19♀♀, Nepal.
- Trichoclinocera ozarkensis* Sinclair, 1994, Can. Ent. 126: 1033. USA.  
 Holotype ♂: USA:AR:Johnson Co. Ozark Nat.For. Haw Ck. Falls 8.VI.1991 ex. Haw Ck. BS9105 B.J. Sinclair/ HOLOTYPE Trichoclinocera ozarkensis Sinclair.  
 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.  
 Holotype ♂: Phoenixville Chester Co., Pa. 17.V.1964 J.G. Chillcott/ HOLOTYPE Trichoclinocera pectinifemur Sinclair.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Paratypes: 20♂♂, 12♀♀, Quebec; 40♂♂, 57♀♀, Ontario; 3♂♂, 6♀♀, Indiana; 13♂♂, 3♀♀, Pennsylvania; 3♂♂, 2♀♀, West Virginia.
- Trichoclinocera rupestris* Sinclair, 1994, Can. Ent. 126: 1021. USA.  
 Holotype ♂: USA : WYOMING, Park Co. Shoshone Nat. For. 20.VII.1989, Newton Ck. Cpgd., Newton Ck. BJ Sinclair/ HOLOTYPE  
 Trichoclinocera rupestris Sinclair.  
 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.  
 Holotype ♂: Taylor Canyon Colo. Gunnison Co. 8000' 29.VII.1961 B. Poole/ HOLOTYPE Wiedemannia apicalis Sinclair.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Paratypes: 2♂♂, 1♀, Colorado.
- Wiedemannia darioi* Sinclair & Ivković in Ivković et al., 2014, Zootaxa 3786: 545. SPAIN.  
 Holotype ♂: SPAIN: Sierra Nevada; Río Aguas Blancas, Cenes de la Vega, 760 m, 13.v.2013 37°09'55"N, 03°30'53"W leg. M. Ivković/ HOLOTYPE Wiedemannia darioi 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.  
 Holotype ♂: USA: WYOMING: Bighorn Nat. For., Bighorn Co. 10kmE Shell 21.VII.1989 Shell Ck. BJ Sinclair.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Paratypes: 1♂, 4♀♀, British Columbia; 1♂, 4♀♀, Utah; 1♂, 1♀, Washington; 4♂♂, 17♀♀, Wyoming.
- Wiedemannia vexillum* Sinclair, 1997, Studia dipterol. 4: 339. CANADA.  
 Holotype ♂: NWT:Martin River FWI. Pipeline Proj. 20.VI.1972 MRI. 35 DE/ Wiedemannia sp. Det. H.J. Teskey 1972/ HOLOTYPE Wiedemannia vexillum Sinclair.  
 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.  
 Holotype ♂: Atlin B.C. 2200' 7.vi.1955 H. Huckel/ HOLOTYPE Iteaphila bulbosa Sinclair.

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 Exped./ HOLOTYPE  
Iteaphila nepalensis Shamshev.

Paratypes: 9♀♀, Nepal.

*Iteaphila pumila* Sinclair in Sinclair & Shamshev, 2013, Zootaxa 3561: 40. USA.

Holotype ♂: Unalakleet, Alaska, 16.VI.61 R. Madge/ HOLOTYPE Iteaphila pumila Sinclair.

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).

*Neossos atlanticus* Gilbert & Wheeler, 2007, Ann. Entomol. Soc. Am. 100: 613. CANADA.

Holotype ♂: CANADA: Quebec: Île Bonaventure, 27-VII-1954, kittiwake nest, G. P. Holland.

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.

Holotype ♂: Manhattan Kan.V-5-09/ 5190 HYPO/ HOLO TYPE PSEUDOLERIA MEDIA ♂ C Garrett C. B. D. GARRETT.

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 parvitorsus* Garrett, 1925b, Seventy new Diptera, 2. CANADA.

Holotype ♂: Cranbrook BC 5.VI.21/ C.Garrett Collector/ 4062 HYPO/ HOLO TYPE PSEUDOLERIA PARVITORSUS ♂ C Garrett C. B. D. GARRETT.

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 ♂: Colfax WASH 4 Jul 1920 ALMelander/ 5229 HYPO/ HOLO TYPE PSEUDOLERIA VULGARIS ♂ C. Garrett C. B. D. GARRETT.

Allotype ♀: Colfax WASH 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.

*Rhinoessa costalis* Coquillett, 1901, Proc. Wash. Acad. Sci. 3: 378. ECUADOR.

Neotype ♂: ECUADOR: Galapagos Islands Isla Santa Fe, arid zone, 10-50m, 4-6.iv.1989, Peck & Sinclair malaise (89-186)/ NEOTYPE ♂ *Rhinoessa costalis* Coquillett Foster & Mathis CNC.

Remarks: The neotype of *Rhinoessa costalis* Coquillett was designated by Foster & Mathis (2012).

*Spanoparia walkeri* Garrett, 1925b, Seventy new Diptera, 3. CANADA.

Holotype ♂: Cranbrook BC 29.VII 24/ HOLO TYPE SPANOPARIA WALKERI C Garrett ♂ C. B. D. GARRETT.

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).

*Trixoscelis gigapeza* Foster & Mathis, 2012, Smithson. Contr. Zool. 637: 35. USA.

Holotype ♂: Daggett, Cal. 14 IV 1955 W.R.M. Mason/  
HOLOTYPE ♂ *Trixoscelis gigapeza* Foster &  
Mathis CNC.

Paratypes: 2♂♂, 1♀, California.

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

#### HILARIMORPHIDAE

*Hilarimorpha stena* Webb, 1974, J. Kans. ent. Soc. 47: 205.  
CANADA.

Holotype ♂: Yoho Natl. Pk., B.C. 22-VII-55 R. Coyles/  
Wapta Lake 5200 feet/ PARATYPE *Hilarimorpha*  
*stena* Webb/ PARATYPE *Hilarimorpha stena*  
Webb CNC No18321/ Actually HT!! det. B.J.  
Sinclair 2014/ HOLOTYPE CNCNo.

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

#### HIPPOBOSCIDAE

*Basilina astochia* Petersen & Maa, 1970b, Can. Ent. 102: 1519.  
COLUMBIA.

Holotype ♀ (in alcohol): Colombia: Departamento  
Santander, El Hoyo de Pajaros near San Gil. 15-  
X-1966 C. J. Marinkelle. ex *Vampyrops helleri*  
Peters/ *Basilina Astochia* HOLOTYPE ♀ CNC  
No.11,548.

Remarks: The left legs of the holotype are mounted on a  
slide.

*Lipoptena pudui* Petersen & Maa, 1970a, Can. Ent. 102: 1117.  
CHILE.

Holotype ♂ (in alcohol): Near Valdivia, Valdivia Chile  
July 16 or Aug. 12, 1968. C. Hoffens V. ex Pudu  
pudu 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 & Hürka, 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

*Bicellaria woodi* Barták, Plant & Kubík, 2013, Zootaxa 3710: 252.  
JAPAN.

Holotype ♂: Japan, Hokkaido, Daisetsuzan Nt. Pk.,  
Tenninkyō, 800 m, 10–14.vii.1986, D.M.Wood.

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: 2♂♂, Ecuador.

*Chersodromia galapagensis* Sinclair & Cumming, 2013, Tijdschr.  
Ent. 156: 129. ECUADOR.

Holotype ♂: ECU: Galap; St. Cruz CDRS, littoral,  
5.II.1989 white sand beach, BJ Sinclair/  
HOLOTYPE *Chersodromia galapagensis* 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.

*Chvalaea boliviana* Ale-Rocha, 2006, Zootaxa 1167: 22.  
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 pinned  
below specimen.

*Chvalaea masneri* Ale-Rocha, 2006, Zootaxa 1167: 26. BOLIVIA.

Holotype ♂: BOLIVIA: LaPaz, Chulumani, Apa-Apa  
16°22'S, 67°30'W, 1-4.v.1997, 1800 m, L. Masner  
s.s. B-09/ Holótipo *Chvalaea masneri* Ale-Rocha.  
Paratypes: 7♂♂ Bolivia; 1♂ Guatemala.

*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: 4♂♂, 17♀♀, Bolivia.

*Oropezella arcuata* Ale-Rocha & Freitas-Silva, 2014, Zootaxa  
3852: 506. 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 Rd. to Rincon 200m, 24km W.Pan-Am.Hwy. III-V.1989 Hanson & Gould/ CNC/ costaricensis [white label with microslide wing mount]/ Holótipo *Oropezella costaricensis* 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.
- Oropezella granulosa* Ale-Rocha & Freitas-Silva, 2014, Zootaxa 3852: 518. 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.
- Platypalpus cummingi* Shamshev & Grootaert, 2012, Zootaxa 3525: 42. USA.  
Holotype ♂: Apple Valley, Cal., 9.V.1955 W.R. Richards/ Charadrodromia microphona Mel. Det. J.M. Cumming/ Holotype/ Platypalpus cummingi sp. nov. Shamshev, Grootaert, 2012.  
Paratypes: 3♂♂, 1♀, California; 1♂, Mexico.
- Platypalpus submicrophona* Shamshev & Grootaert, 2012, Zootaxa 3525: 44. USA.  
Holotype ♂: Tanbark Flat Los Angeles Co. Calif. VI-23-50/ Eriogonum/ R. Schuster Collection/ Holotype/ Platypalpus submicrophona sp. nov. Shamshev, Grootaert, 2012.
- Platypalpus tanbarkiensis* Shamshev & Grootaert, 2012, Zootaxa 3525: 46. USA.  
Holotype ♂: Tanbark Flat Los Angeles Co. Calif. VI-23-50/ Eriogonum/ R. Schuster Collector/ B. Adelson Collection/ Holotype/ Platypalpus tanbarkiensis sp. nov. Shamshev, Grootaert, 2012.  
Paratypes: 3♂♂, 2♀, California.
- Stilpon campestris* Cumming in Cumming & Cooper, 1992, Can. Ent. 124: 959. CANADA.  
Holotype ♂: HOLOTYPE/ Assiniboia Sask. 23.VI.1955 J.R. Vockeroth/ On ground among Carex roots/ HOLOTYPE Stilpon campestris Cumming CNC No. 21307.  
Allotype ♀: Same data as holotype except with allotype label.  
Paratypes: 6♂♂, 7♀♀, Saskatchewan; 1♀, Kansas.
- Stilpon chillcotti* Cumming in Cumming & Cooper, 1992, Can. Ent. 124: 961. USA.  
Holotype ♂: HOLOTYPE/ AL: Conecuh Co. 10 km E. Evergreen 23.IV.89 J.M. Cumming ex: along woodland sandbottom stream/ HOLOTYPE Stilpon chillcotti Cumming CNC No. 21313.  
Allotype ♀: Same data as holotype except with allotype label.
- Paratypes: 5♂♂, 13♀♀, Alabama; 7♂♂, Maryland; 1♂, Michigan; 1♂, Virginia; 22♂♂, 2♀♀, Indiana; 1♂, Georgia; 1♂, North Carolina; 1♀, Mississippi; 1♀, South Carolina.
- Stilpon ctenistes* Cumming in Cumming & Cooper, 1992, Can. Ent. 124: 962. USA.  
Holotype ♂: HOLOTYPE/ N.Y.: Tompkins Co. Salmon Ck. 16 vi 1981; leg D.J. Bickel/ HOLOTYPE Stilpon ctenistes Cumming CNC No. 21312.  
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.
- Stilpon limitaris* Cumming in Cumming & Cooper, 1992, Can. Ent. 124: 966. USA.  
Holotype ♂: HOLOTYPE/ GA: McIntosh Co. Sapelo Island 29.V-20.VI.1987; MT Live Oak Forest BRC HYM. TEAM/ HOLOTYPE Stilpon limitaris Cumming CNC No. 21310.  
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.
- Stilpon vockerothi* Cumming in Cumming & Cooper, 1992, Can. Ent. 124: 975. CANADA.  
Holotype ♂: HOLOTYPE/ ONT: Ottawa 13-19VII 1987 J.M. Cumming ex./ HOLOTYPE Stilpon vockerothi Cumming CNC No. 21305.  
Allotype ♀: Same data as holotype except with allotype label and dated "1-5. VII 1987".  
Paratypes: 26♂♂, 12♀♀, Ontario; 3♂♂, Virginia; 1♂, Tennessee; 4♂♂, 6♀♀, Massachusetts; 4♂♂, North Carolina; 1♂, Maryland; 3♂♂, New York; 1♂, Michigan.
- Stilpon wirthi* Cumming in Cumming & Cooper, 1992, Can. Ent. 124: 978. USA.  
Holotype ♂: HOLOTYPE/ Dennisport Mass 7.VIII.1964 J.R. Vockeroth/ On ground among Carex roots/ HOLOTYPE Stilpon wirthi Cumming CNC No. 21311.  
Allotype ♀: ALLOTYPED/ Holliston Mass. 6 VII N. Banks/ ALLOTYPED Stilpon wirthi Cumming CNC No. 21311.  
Paratypes: 2♂♂, North Carolina; 1♂, New York; 2♂♂, 2♀♀, Massachusetts; 1♀, Maryland.  
Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.
- INBIOMYIIDAE**
- Inbiomyia empheres* Buck in Buck & Marshall, 2006, Contrib. Sci. 512: 22. ECUADOR.  
Holotype ♂: ECU: Napo Prov. El Chaco, 2000 m. 15-23.II.1983, Mal. Tp., L. Masner & M. Sharkey/ from Kevin Barber Det. J.F. McAlpine 1985/ CNC/ ♂ HOLOTYPE Inbiomyia empheres Buck.  
Paratype: 1♂, Ecuador.

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

### IRONOMYIIDAE

*Cretonomyia pristina* McAlpine, 1973, Can. Ent. 105: 106.  
CANADA.

Holotype ♀ in amber: Cedar Lake, Manitoba, J.E.H. Martin & J.F. McAlpine, August 1963, CNC No. 12920.

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

### KEROPLATIDAE

*Vockerothia frontalis* Matile, 1990, Mem. Mus. Natl. Hist. Nat. 148: 177. PERU.

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

*Homoneura (Euhomoneura) bistylata* Sasakawa, 1998, Scient. Rep. Kyoto prefect. Univ. 50: 52. MALAYA.

Holotype ♂: MALAYA, Pahang Ringlet 1150m 12.I.1990 J.R. Vockeroth/ HOLOTYPE  
*Homoneura (Euh.) bistylata* n.sp. Det. M. Sasakawa.

Paratypes: 3♂♂, 3♀♀, Malaya.

*Homoneura (Homoneura) longiparameria* Sasakawa, 1998, Scient. Rep. Kyoto prefect. Univ. 50: 54. SINGAPORE.

Holotype ♀: SINGAPORE, Bt. Timah Nat. Res. 23.I.1990 J.R. Vockeroth/ Holotype ♀  
*Homoneura longiparameria* n.sp. Det. M. Sasakawa.

Paratype: 1♂, Singapore.

*Homoneura (Homoneura) shewelli* Sasakawa, 1998, Scient. Rep. Kyoto prefect. Univ. 50: 56. SINGAPORE.

Holotype ♀: SINGAPORE, Bt. Timah Nat. Res. 23.I.1990 J.R. Vockeroth/ Holotype ♀  
*Homoneura shewelli* n.sp. Det. M. Sasakawa.

Paratypes: 1♂, 1♀, Singapore.

*Lauxania glabrifrons* Perusse & Wheeler, 2000, Can. Ent. 132: 416. USA.

Holotype ♂: Angel L. 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.

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

*Minettia (Frendelia) vockerothi* Sasakawa, 1998, Scient. Rep. Kyoto prefect. Univ. 50: 58. MALAYA.

Holotype ♀: MALAYA, Pahang Tanah Rata 7.I.90 1460m J.R. Vockeroth/ Holotype ♀ *Minettia (Frend.) vockerothi* n.sp. Det. M. Sasakawa.  
Paratype: 1♂, Malaya.

*Prosopomyia orientalis* Sasakawa, 1998, Scient. Rep. Kyoto prefect. Univ. 50: 49. MALAYA.

Holotype ♀: MALAYA, Pahang Tanah Rata 4.I.90 1460m J.R. Vockeroth/ [white label with "genus? Hom." on underside]/ Holotype ♀ *Prosopomyia orientalis* n.sp. Det. M. Sasakawa

### LIMONIIDAE

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

Holotype ♂: Herschel Is. - Y.T. 24-28.VI.71 D.M. Wood/ HOLOTYPE *Symplecta (s. str.) edlundae* sp. n. ♂ J. Starý & F. Brodo 2005.

Allotype ♀: Same data as holotype except 29-29.VI.71, and with allotype label.

Paratypes: 2♂♂, 5♀♀, Yukon Territory; 1♂, 6♀♀, Northwest Territories.

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

### LONCHOPTERIDAE

*Lonchoptera longiphallus* Klymko in Klymko & Marshall, 2008, Can. Ent. 140: 661. CANADA.

Holotype ♂: B.C., Hixon 24 iv.1966 E.D.A. Dyer/ ♂ HOLOTYPE *Lonchoptera longiphallus* Klymko.  
Paratypes: 2♂♂, British Columbia; 1♂, Northwest Territories.

### MILICHIIDAE

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

Holotype ♂: ARGENT. Salta. Palo Pintado, N. San Carlos, 1900m. 6.X.68 L. Pena/ *Milichiella* Det. J.F. McAlpine 1980/ HOLOTYPE/ *Milichiella abditoargentea* Brake, det. I. Brake 2009, fotogr., ♂ HOLOTYPE ID: 3217427.  
Paratypes: 1♂, Argentina.

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

Holotype ♂: ARGENT, Jujuy Agua Caliente, N.E.Guemes, 1100m. 18-19.X.68. Pena/ HOLOTYPE/ *Milichiella argentinae* Brake, det. I. Brake 2009, ♂ HOLOTYPE, ID: 3217567.  
Paratypes: 4♂♂, Argentina.

*Milichiella griseomacula* Brake, 2009, Zootaxa 2188: 125.

BRAZIL.

Holotype ♂: Brazil, Manaus Amaz., 2.III.73  
B.V.Peterson/ HOLO- TYPE/ Brake 0598/  
*Milichiella griseo-macula* Brake, det. I. Brake  
2009, fotogr., ♂ HOLOTYPE ID: 3217876.

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

*Milichiella jamaicensis* Brake, 2009, Zootaxa 2188: 129.

JAMAICA.

Holotype ♂: JAMAICA, Try. Good Hope, VIII 8 1966  
H.F.Howden/ HOLO- TYPE/ Brake 0631/  
*Milichiella jamaicensis* Brake, det. I. Brake 2009,  
illustr. ♂, HOLOTYPE, ID: 3217149.

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  
D.M.Wood/ HOLO- TYPE/ *Milichiella laselvae*  
Brake, det. I. Brake 2009, fotogr. + ill., ♂  
HOLOTYPE, ID: 3217238.

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

*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/  
HOLO- TYPE/ *Milichiella santacatalinae* Brake,  
det. I. Brake 2009, fotogr., ♂ HOLOTYPE ID:  
3217693.

Paratypes: 2♂♂, Arizona.

*Milichiella sculpta* Brake, 2009, Zootaxa 2188: 141. BRAZIL.

Holotype ♂: Nova Teutonia, 27°11'S, 52°23'W Brazil,  
300-500m IX.1963 Fritz Plaumann/ HOLO-  
TYPE/ Brake 0601/ *Milichiella sculpta* Brake,  
det. I. Brake 2009, fotogr., ♂, HOLOTYPE, ID:  
3217856.

Paratype: 1♂, Brazil.

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

#### MUSCIDAE

*Morellia muscaoides* Zielke, 1973, Z. Angew. Zool. 59: 364.

ETHIOPIA.

Holotype ♀: The Divide, n.w. of Addis Ababa  
ETHIOPIA 3100m./ 16.1.68 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.

*Philornis isla* Couri, 2000, Bolm Mus. nac. Rio de J. Zoologia 414: 1. 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.

*Pogonomyia quadrisetosus* Malloch, 1919, Report of the Canadian Arctic Expedition 3: 66. CANADA.

Holotype ♀: West of Bernard harbour, Dolphin and Union straits, Northwest Territories, July 14, 1916 (F. Johansen).

Remarks: The type is supposed to be deposited in the CNC; however, it was not listed in Cooper & Cumming (2000) and could not be located during the preparation of the present edition of the Supplement.

*Thricops aduncus* Savage, 2003, Insect Syst. Evolut. Suppl. 61: 24. CANADA.

Holotype ♂: MI. 87, Y.T. Dempster hwy. 8-12.VII.  
1973 G. & D.M. Wood/ HOLOTYPE *Thricops aduncus* ♂ Savage.

Paratypes: 2♀♀, Yukon Territory: 2♀♀, British Columbia; 3♀♀, Alaska.

*Thricops diana* Savage, 2003, Insect Syst. Evolut. Suppl. 61: 47. USA.

Holotype ♂: Hidden Sprs. Valley 9 mi. E. Sanoita,  
4875' ARIZ. 14. x. 1964 R.F. Sternitzky/  
HOLOTYPE *Thricops diana* ♂ Savage.

Paratypes: 2♂♂, 10♀♀, Arizona.

#### MYCETOPHILIDAE

*Acomoptera crispa* Kerr, 2011, ZooKeys 137: 46. CANADA.

Holotype ♂: B.C., Hixon, 21 v 1966, E.D.A. Dyer/  
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.

*Acomoptera forculata* Kerr, 2011, ZooKeys 137: 58. CANADA.

Holotype ♂: 7 Mi. E. Griffith, Ont., 31.v.1983, B.E.  
Cooper/ HOLOTYPE 11G479 *Acomoptera forculata* ♂ P.H. Kerr 2011.

Paratypes: 8♂♂, Nova Scotia.

*Acomoptera vockerothi* Kerr, 2011, ZooKeys 137: 70. CANADA.

Holotype ♂: Can: Manitoba, 2mi. ne. Treesbank, along  
Souris R. 11.viii.1993, 49°40'N 99°36'W B.  
Galloway MT/ HOLOTYPE 11G627 *Acomoptera vockerothi* ♂ P.H. Kerr 2011.

Paratypes: 1♂, Manitoba; 6♂♂, Ontario; 2♂♂, Quebec;  
3♂♂, Manitoba; 3♂♂, Maryland.

*Anaileia nepalensis* Bechev, 1990, Reichenbachia 28: 69. NEPAL.

Holotype ♂: 28°00'N. 85°00'E. Mal. tr.7, 9900' 20. May  
1967 Can. Nepal Exped./ *Anaileia nepalensis*  
Bechev/ HOLOTYPE.

Paratypes: 6♂♂, Nepal.

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

- Anaclileia vallis* Coher, 1995, Ent. News 106: 258. CANADA.  
 Holotype ♂ (in alcohol): Upper Carmanah Valley  
 British Columbia, Canada UTM: 10UCJ 803006  
 31VII-11 VIII 1981 N. Winchester TZMT5/  
 HOLOTYPE *Anaclileia vallis* Coher.  
 Remarks: Holotype terminalia and wing are mounted on  
 separate microscope slides. Date of collection of  
 holotype was published as "March 7- July 11,  
 1991". Consistently throughout Coher's paper the  
 generic name *Anaclileia* was misspelled as  
*Anacliliea*.
- 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: Holotype terminalia are mounted in glycerine  
 in a plastic depression strip pinned below  
 specimen.
- Anaclileia winchesteri* Coher, 1995, Ent. News 106: 259.  
 CANADA.  
 Holotype ♂ (in alcohol): Upper Carmanah Valley  
 British Columbia, Canada UTM: 10UCJ 803006 4  
 VII -15 VII 1991 N. Winchester TZMT1/  
 HOLOTYPE *Anaclileia winchesteri* '94 Coher.  
 Remarks: Holotype terminalia are mounted on a  
 microscope slide. Consistently throughout Coher's  
 paper the generic name *Anaclileia* was misspelled  
 as *Anacliliea*.
- Cordyla scutellata* Garrett, 1925b, Seventy new Diptera, p. 14.  
 CANADA.  
 Holotype ♂: NELSON B.C. 24.VI., C. GARRETT/  
 HYPO 5309/ HOLO TYPE CORDYLA  
 SCUTELLA [sic] ♂ C Garrett C.B.D.  
 GARRETT.  
 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.
- Cordyla verio* Garrett, 1925b, Seventy new Diptera, p. 14.  
 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 Cristobalo de Las  
 Casas7087 25.V.1969 B.V. Peterson/ C.290/  
*Ctenoceridion (Gymno.) inexpectatum* Mat. &  
 Duret L. Matile det. 1986/ HOLOTYPE  
*Ctenoceridion (Gymnoceridon) inexpectatum*  
 Matile & Duret CNC No.  
 Remarks: Holotype antenna, wing and genitalia  
 preparations are mounted on a separate pin.
- Dicosia aceus* Garrett, 1925b, Seventy new Diptera, p. 13.  
 CANADA.  
 Holotype ♂: Prep. No. 1600 Zet/ Cranbrook BC  
 1.VI.24/ 5179 HYPO/ HOLOTYPE DOCOSIA  
 AFFINIS ♂ ACEUS C Garrett C.B.D. Garrett.  
 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.  
 Holotype ♂: Prep. No 1602 Zet/ MARYSVILLE,  
 B.C./VII C GARRETT/ 5170 HYPO/  
 HOLOTYPE DOCOSIA AFFINIS C Garrett ♂  
 C.B.D. GARRETT.  
 Allotype ♀: Prep. No 1615 Zet/ MARYSVILLE,  
 B.C./VII C GARRETT/ ALLOTYPE DOCOSIA  
 AFFINIS C Garrett ♀ C.B.D. GARRETT.  
 Paratypes: 3♀♀, British Columbia.  
 Remarks: The holotype terminalia are stored in  
 glycerine in a plastic microvial pinned below  
 specimen.
- Dicosia apicula* Garrett, 1925b, Seventy new Diptera, p. 13.  
 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.
- Dicosia nebulosa* Garrett, 1925b, Seventy new Diptera, p. 13.  
 CANADA.  
 Holotype ♀: Prep No. 1606 Zet/ Van. B.C./ 1 Jan. 18/  
 MONO TYPE DOCOSIA NEBULOSA ♀ C  
 Garrett C.B.D. GARRETT  
 Remarks: The holotype terminalia are stored in  
 glycerine in a plastic microvial pinned below  
 specimen.
- Dicosia nigrita* Garrett, 1925b, Seventy new Diptera, p. 13.  
 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.  
 Holotype ♂: Prep. No. 1604 Zet/ FERNIE 24 VII BC/  
 C. Garrett Collector/ 5173 HYPO WING/ HOLO

- 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.  
 Holotype ♂: Prep. No.1603 Zet./ NELSON B.C. 23.V.17 C. GARRETT/ 5166 HYPO/ MONO TYPE DOCOSIA VIERECKI ♂ C Garrett C.B.D. GARRETT.  
 Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Dynatosoma errans* Garrett, 1925b, Seventy new Diptera, p. 11. USA.  
 Holotype ♀: Ithaca, N.Y., VII.25 20/E.W. Stafford Collector/ HOLO TYPE DYNATOSOMA ERRANS ♀ C Garrett C.B.D. GARRETT/ SYNTYPE *Dynatosoma errans* CNC No. 7884.  
 Paratype: 1♀, New York.  
 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).
- Dynatosoma huliphila* Garrett, 1925b, Seventy new Diptera, p. 12. CANADA.  
 Holotype ♂: Cranbrook, BC, 19.IV./ HYPO 5219/ HOLO TYPE DYNATOSOMA HULIPHILA ♂ C Garrett C.B.D. GARRETT/ This spec may be the holo CNC 7886.  
 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. 5219.
- Dynatosoma huliphila* var. *grandis* Garrett, 1925b, Seventy new Diptera, p. 12. CANADA.  
 Holotype ♂: Cranbrook, BC, 3.V.18/ 246/ 518Y HYPO/ HOLO TYPE DYNATOSOMA GRANDIS ♂ C Garrett C.B.D. GARRETT  
 Allotype ♀: Bull River, 1.V.10, BC/ ALLO TYPE DYNATOSOMA GRANDIS ♀ 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 apical portion of the abdomen and terminalia of the holotype are mounted on microscope slide No. 5187.
- Dynatosoma montanus* Garrett, 1925b, Seventy new Diptera, p. 11. CANADA.  
 Holotype ♂: MT. EVANS 7,000 ft/ MARYSVILLE, B.C. 22.VII., C. GARRETT/ 5182 HYPO/ HOLO TYPE DYNATOSOMA MONTANUS ♂ C Garrett C.B.D. GARRETT.  
 Allotype ♀: MT. EVANS 7,000 ft/ MARYSVILLE, B.C. 22.VII., C. GARRETT/ ALLO TYPE
- DYNATOSOMA MONTANUS ♀ 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 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.  
 Holotype ♂: U.S.A., Ore. Linn Co. Tombstone Prairie 20-VI-1965 F. Schmid/ Holotypus ♂ *Dynatosoma obscurum* sp.n. det. A. Zaitzev 1985.  
 Paratypes: 2♂♂, British Columbia.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic depression slide pinned below specimen.
- Dynatosoma rotundatum* Zaitzev, 1988, Vest. Zoologii 1988: 36. USA.  
 Holotype ♂: Highlands N.C. 3800' 8.VII.1957 J.R. Vockeroth/ Holotypus ♂ *Dynatosoma rotundatum* sp.n. det. Zaitzev.  
 Paratypes: 3♂♂, North Carolina; 1♂, Tennessee; 1♂, Ontario; 1♂, Quebec.  
 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".
- Dziedzickia peckorum* Matile, 1992, Ann. Nat. Mus. 33: 195. SOUTH AFRICA.  
 Holotype ♂: REP. AFR. SUD. NATAL 75 KM WSW ESTCOURT CATHEDRAL PEAKS/ FOR. STA. 1760 M. 21-31-XII-1979 S. & J. PECK/ HOLOTYPE/ *Dziedzickia peckorum* n.sp. ♂ holotype L. Matile det. 1991.  
 Allotype ♀: Same data as holotype except with allotype label.  
 Paratypes: 13♂♂, 12♀, South Africa.  
 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.  
 Holotype ♂: Capilano, BC [reverse side] 1189/ HOLO TYPE MONOCLONA SIMPLEX ♂ C Garrett C.B.D. GARRETT.  
 Paratype: 1♂, British Columbia.  
 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 Caulfeild, in West Vancouver.
- Leia cephalo* Garrett, 1925b, Seventy new Diptera, p. 11. CANADA.  
 Holotype ♀: MARYSVILLE B.C. 1.VIII C GARRETT/ HOLO TYPE LEIA CEPHALA ♀ C Garrett C.B.D. GARRETT/ SYNTYPE *Leia cephalo* Garrett CNC No 7883.  
 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).
- Mycomya alticola* Väisänen, 2013b, Zootaxa 3737: 138. NEPAL.  
 Holotype ♂: 28°00'N, 85°00'E, Mal. tr. 6, 10500', 21 May 1967 Can. Nepal Exped./ Holotypus *Mycomya* ♂ *alticola* Väisänen/ *Mycomya alticola* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya alticola* Väisänen CNC No. 21920.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya cuon* Väisänen, 2013a, Zootaxa 3666: 310. NEPAL.  
 Holotype ♂: NEPAL, Ktm. Pulchauki 6600' 18.VII. 1967 Mal. Tr., Can. Exp./ Holotypus *Mycomya* ♂ *cuon* Väisänen/ *Mycomya cuon* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya cuon* Väisänen CNC No. 21916.  
 Paratypes: 11♂♂, 2♀♀, Nepal.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya ducula* Väisänen, 2013b, Zootaxa 3737: 141. NEPAL.  
 Holotype ♂: NEPAL, Ktm. Pulchauki, 6600' 16.VIII. 1967 Mal. Tr. Can. Exp./ Holotypus *Mycomya* ♂ *ducula* Väisänen/ *Mycomya ducula* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya ducula* Väisänen CNC No. 21918.  
 Paratypes: 17♂♂, 6♀♀, Nepal.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya elephas* Väisänen, 1984, Anns ent. fenn. 50: 115. USA.  
 Holotype ♂: Thousand Palms, Cal. 6-III-1955 W. R. Richards/ Holotypus *Mycomya elephas* n.sp. R. Väisänen, 1984/ *Mycomya* ♂ *elephas* n.sp. R. Väisänen det. 1984/ HOLOTYPE *Mycomya elephas* Väisänen CNC No. 21611.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. This species was listed in an addendum in Cooper & Cumming (1993: 82).
- Mycomya goral* Väisänen, 2013b, Zootaxa 3737: 133. NEPAL.  
 Holotype ♂: NEPAL, Ktm. Godavari, 6000', 17 July 1967, Can Nepal Exped./ Holotypus *Mycomya* ♂ *goral* Väisänen/ *Mycomya goral* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya goral* Väisänen CNC No. 21919.  
 Paratypes: 4♂♂, 1♀, Nepal.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya ikar* Väisänen, 1996, Entomologica fenn. 7: 110. NEPAL.  
 Holotype ♂: 27°58'N, 85°00'E. Mal. tr. 1, 11,100' 5 June 1967 Can. Nepal Exped./ Holotypus *Mycomya* ♂ *ikar* Väisänen/ *Mycomya ikar* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya ikar* Väisänen CNC No. 21913.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya jeti* Väisänen, 2013b, Zootaxa 3737: 144. NEPAL.  
 Holotype ♂: NEPAL, Ktm. Pulchauki, 6800' 14.VII. 1967 Mal. Tr., Can. Exp./ Holotypus *Mycomya* ♂ *jeti* Väisänen/ *Mycomya jeti* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya jeti* Väisänen CNC No. 21921.  
 Paratypes: 9♂♂, Nepal.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya naja* Väisänen, 2013b, Zootaxa 3737: 146. NEPAL.  
 Holotype ♂: NEPAL, Ktm. Pulchauki, 6800' 14.VII. 1967 Mal. Tr., Can. Exp./ Holotypus *Mycomya* ♂ *naja* Väisänen/ *Mycomya naja* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya naja* Väisänen CNC No. 21917.  
 Paratype: 1♂, Nepal.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya paguma* Väisänen, 2013a, Zootaxa 3666: 311. NEPAL.  
 Holotype ♂: 27°56'N, 85°00'E, Mal. tr. 9, 9900', 28 May 1967 Can. Nepal Exped./ Holotypus *Mycomya* ♂ *paguma* Väisänen/ *Mycomya paguma* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya paguma* Väisänen CNC No. 21915.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Mycomya sus* Väisänen, 1996, Entomologica fenn. 7: 125. NEPAL.  
 Holotype ♂: 28°00'N, 85°00'E. [second line partly crossed out], 10,500' 27 May 1967 Can. Nepal Exped./ Holotypus *Mycomya* ♂ *sus* Väisänen/ *Mycomya sus* n.sp. ♂ det. R. Väisänen 1993/ HOLOTYPE *Mycomya sus* Väisänen CNC No. 21914.  
 Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Neuratelia abrevena* Garrett, 1925b, Seventy new Diptera, p. 11. CANADA.  
 Holotype ♂: MARYSVILLE, B.C., 1.VIII., C. GARRETT/ HOLOTYPE NEURATELIA ABBREVENA [sic] ♂ c Garrett C.B.D. GARRETT/ SYNTYPE *Neuratelia abrevena* Garrett CNC No 7881.  
 Allotype ♀: Same data as holotype except 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).
- Phthinia miknaqi* Fitzgerald & Kerr 2014, Zootaxa 3856: 313. CANADA.  
 Holotype ♂: Mount Uniacke, N.S. 5.VIII.1958, J.R. Vockeroth/ HOLOTYPE 13N263, *Phthinia miknaqi* ♂, Fitzgerald & Kerr, 2014 [red label].  
 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.
- Sceptonia johannseni* Garrett, 1925b, Seventy new Diptera, p. 15. CANADA.

- Holotype ♂: MARYSVILLE, B.C., 14.VII., C. GARRETT/ 5255 HYPO/ HOLO TYPE SCEPTONIA JOHANNSENI ♂ C Garrett, C.B.D. GARRETT.
- Allotype ♀: MARYSVILLE, B.C., 14.VII., C. GARRETT/ ALLO TYPE SCEPTONIA JOHANNSENI ♀ 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.
- Speolepta vockerothi* Ševčík, Kjærandsen & Marshall, 2012, Can. Ent. 144: 97. CANADA.
- Holotype ♂(slide): TMU-JKJ: SPM-054783 *Speolepta vockerothi* Ševčík, Kjærandsen & Marshall, 2012 [ ] Det. J. Kjærandsen holotype male CNC-loan USA: Ontario-, Tyendinaga Caves, Corbyville [in cave [II 136a] pooter G. Mueller] Date 11-08-71 [-12-08-71] Slide in Canada Balsam: J Kjærandsen 14-09-09/ Tyendinaga Cave Corbyville, ONT. 11.VIII.1971 G. Mueller/ In cave (or mine)/ *Speolepta* n.sp.
- Paratype: 1♀, Ontario.
- Remarks: Holotype mounted in Canada balsam on slide.
- Tetragoneura marceda* Sherman, 1921, Proc. ent. Soc. Br. Columb. (1920) 16: 20. CANADA.
- Lectotype ♂: Savary Id., 10.4.17 [on mount]/ 473 [on back side of mount]/ R.2.3 ABSENT, ♂, *Tetragoneura marceda* R.S. Sherman, ♂/ TYPE, See letter [handwritten], C.B.D. Garrett/ HOLOTYPE, *Megophthalmidia* [sic] *marceda*, (Sherman) 1921 [“(Sherman) 1921” on underside]/ *Megophthalmidia* [sic] *marceda* (Sherman) 1921, '98 EIC [handwritten label created by E.I. Coher]/ LECTOTYPE, *Ectrepesthoneura marceda* (Sherman, 1921), P.H. Kerr, xii.2013.
- Paralectotypes: 18♂♂, 3♀♀, British Columbia.
- Remarks: This entry updates the listing in Cooper (1991) in light of the designation of a lectotype for *Tetragoneura marceda* Sherman by Kerr (2014: 78). Kerr (2014) transferred this species to *Ectrepesthoneura* Enderlein. Lectotype terminalia are stored in glycerine in a plastic microvial pinned below specimen. Types not yet returned to the CNC; label data taken from Kerr (2014).
- Truplaya (Truplayella) erythropygga* Matile, 1978, Anns. Soc. Ent. Fr. (N.S.) 14: 465. UGANDA.
- Holotype ♂: Entebbe, UGANDA 27.IV.1972 H. Falke Mal. Tr./ HOLOTYPE/ *Truplaya erythropygga* n.sp. ♂ holotype L. Matile det. 1974.
- Allotype ♀: 7 mi N Entebbe, nr Lk Victoria UGANDA March 2 1972 H. Falke 1135m/ ALLOTYPE/ *Truplaya erythropygga* n.sp. ♀ allotype L. Matile det. 1977.
- Paratypes: 5♂♂, Uganda.
- Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.
- Truplaya (Truplayella) falkei* Matile, 1978, Anns. Soc. Ent. Fr. (N.S.) 14: 472. UGANDA.
- Holotype ♂: Entebbe, UGANDA 11.II.1972 H. Falke In forest/ HOLOTYPE/ *Truplaya falkei* n.sp. ♂ holotype L. Matile det. 1974.
- Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.
- Zygomyia bifasciata* Garrett, 1925b, Seventy new Diptera, p. 15. CANADA.
- Holotype ♂: Cranbrook BC, 1.VI.24/ 1400 HYPO/ HOLO TYPE ZYGOMYIA BIFASCIATA ♂ C Garrett C.B.D. GARRETT/ SYNTYPE *Zygomyia bifasciata* Garrett CNC No 7900.
- 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.
- Holotype ♂: Crows Nest BC 29.V./ 760 HYPO/ HOLO TYPE ZYGOMYIA CHRISTATA ♂ C Garrett C.B.D. Garrett/ SYNTYPE *Zygomyia christata* Garrett CNC No 7902.
- Allotype ♀: Cranbrook BC 4.VII./ ALLO TYPE ZYGOMYIA CHRISTATA ♀ C Garrett C.B.D. Garrett.
- 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.
- Holotype ♂: Cranbrook BC 22.VII./ 642 HYPO/ HOLO TYPE ZYGOMYIA CHRISTULATA ♂ C Garrett C.B.D. Garrett/ SYNTYPE *Zygomyia christulata* Garrett CNC No 7901.
- Allotype ♀: Cranbrook BC 12.VIII./ ALLO TYPE ZYGOMYIA CHRISTULATA ♀ C Garrett C.B.D. Garrett.
- 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.

Holotype ♂: Cranbrook BC 15.IV./ 1200 HYPO/  
HOLO TYPE. ZYGOMYIA COXALE ♂ C  
Garrett C.B.D. Garrett/ SYNTYPE Zygomyia  
coxale Garrett CNC No 7903.

Allotype ♀: MARYSVILLE B.C. I.VIII. C  
GARRETT/ ALLO TYPE ZYGOMYIA  
COXALE ♀ C Garrett C.B.D. Garrett/ SYNTYPE  
Zygomyia coxale Garrett CNC No 7903.

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* Garrett, 1925b, Seventy new Diptera, p. 14.  
CANADA.

Holotype ♂: MARYSVILLE, B.C. 10.VII C  
GARRETT/ 840 HYPO/ HOLO TYPE  
ZYGOMYIA PILOSA ♂ C Garrett C.B.D.  
Garrett/ SYNTYPE Zygomyia pilosa Garrett CNC  
No 7899.

Allotype ♀: CRANBROOK 9.IX. BC/ ALLO TYPE  
ZYGOMYIA PILOSA ♀ C Garrett C.B.D.  
Garrett/ SYNTYPE Zygomyia pilosa Garrett CNC  
No 7899.

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.

Holotype ♂: ECUADOR: GALÁPAGOS: Santa Cruz:  
Academy Bay, ECCD, 10.v-14.vii.1985, 30 m,  
arid zone, thornscrub, Malaise-FIT trap, S. & J.  
Peck.

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.

Holotype ♂: CAN: AB: Ram River 52°05'20"N  
115°50'20"W Road #940 6.vi.1999 (L) 300-400m  
above Falls; J. Zloty & G. Pritchard/ Pupated  
8.ix.1999 Adult emerged 21.ix.1999/ REARED  
Assoc. Vial Slide No. 1999-01/ HOLOTYPE  
Oreoleptis CNCNo. torrenticola.

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.

Holotype ♂: El Coigual, Curico, CHILE, 20-26.I.64.  
Pena/ HOLOTYPE Mallochianamyia cladostyla  
Wheeler.

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

*Mallochianamyia fenestrata* Wheeler, 2000a, Insect Syst. Evol. 31:  
213. CHILE.

Holotype ♂: Puerto Aysen, Aysen, CHILE, 24-26.I.'61 /  
L.E. Peña./ HOLOTYPE Mallochianamyia  
fenestrata Wheeler.

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:  
214. CHILE.

Holotype ♂: Rio Blanco, Malleco, CHILE, 30.I.1959 L.  
Peña. 1050m/ HOLOTYPE Mallochianamyia  
flavitibia 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 furcata* Wheeler, 2000a, Insect Syst. Evol. 31:  
215. CHILE.

Holotype ♂: Bosque de los Conservadores, Graneros,  
1100m., O'Higgins, CHILE, 1-4.III.62. Peña/  
HOLOTYPE Mallochianamyia furcata Wheeler.

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

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

Holotype ♂: CHILE: Pato de Gallina, 10-25.i.1993, P.  
Salinas, ex. yellow pan traps/ HOLOTYPE  
Mallochianamyia gallina Wheeler.

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:  
217. CHILE.

Holotype ♂: Rio Blanco, Malleco, CHILE, 30.I.1959 L.  
Peña. 1050m./ HOLOTYPE Mallochianamyia  
latigena 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).

*Mallochianomyia magnipalpis* Wheeler, 2000a, Insect Syst. Evol. 31: 218. CHILE.

Holotype ♂: CHILE: Pata de Gallina, 10-25.i.1993, P. Salinas, ex. yellow pan traps/ HOLOTYPE *Mallochianomyia magnipalpis* Wheeler.

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

*Mallochianomyia penai* Wheeler, 2000a, Insect Syst. Evol. 31: 219. CHILE.

Holotype ♂: Puerto Aysen, Aysen, CHILE, 24-26.I.'61/ L.E. Peña./ HOLOTYPE *Mallochianomyia penai* Wheeler.

Paratype: 1♂, Chile.

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

*Mallochianomyia setosa* Wheeler, 2000a, Insect Syst. Evol. 31: 220. CHILE.

Holotype ♂: Rucanuco, Malleco, CHILE, 11.I.1959, L. Peña/ HOLOTYPE *Mallochianomyia setosa* Wheeler.

Paratypes: 2♂♂, 1♀, Chile.

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

*Mallochianomyia truncata* Wheeler, 2000a, Insect Syst. Evol. 31: 221. CHILE.

Holotype ♂: Pichinahuel, Cord. Nahuelbuta, Arauco, CHILE, 16.II.1956 L. Peña/ HOLOTYPE *Mallochianomyia truncata* Wheeler.

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

## PHORIDAE

*Apocephalus anfractus* Brown, 1993b, Syst. Ent. 18: 220. ECUADOR.

Holotype ♀: ECUADOR : Napo. Baeza 16-19.V.1987. 1700m B.Brown & L.Coote malaise.forest/pasture/ [white label with "LACM ENT 001158" and barcode on underside]/ HOLOTYPE CNC *Apocephalus* (Mesophora) *anfractus* Brown.

Paratype: 1♀, Ecuador.

*Apocephalus brunnipes* Brown, 1993b, Syst. Ent. 18: 221. CANADA.

Holotype ♂: ALBERTA : Opal 53°59'N, 113°13'W 23-24.V.1986 B.V. Brown . malaise sand, jackpine/ [white label with "LACM ENT 001224" and barcode on underside]/ HOLOTYPE CNC ♂ *Apocephalus* (Mesophora) *brunnipes* Brown.

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 BVBrown malaise,

stunted forest/ [white label with "LACM ENT 001215" and barcode on underside]/ HOLOTYPE CNC *Apocephalus* (Mesophora) *gracilis* Brown.

*Apocephalus leptotarsus* Brown, 1993b, Syst. Ent. 18: 224. MEXICO.

Holotype ♂: MEX.Chis. 7200ft. S. Crist. las Casas 23, May 1969 W.R.M.Mason/ [white label with "LACM ENT 001212" and barcode on underside]/ HOLOTYPE CNC *Apocephalus* (Mesophora) *leptotarsus* Brown.

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 Cristobal de Las Casas, 16.75°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.deciduous 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 pittadearaujoi* Brown, 2014, Zootaxa 3857: 565. MEXICO.

Holotype ♀: MEXICO: Chiapas: Montebello, 16.12°N, 91.67°W, 19.vi.1969, Malaise trap [LACM ENT 113984].

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

*Apocephalus pristinus* Brown, 1993b, Syst. Ent. 18: 221. USA.

Holotype ♀: Forsyth, Ga. 2.VI.1970/ [white label with "LACM ENT 001181" 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.

Holotype ♂: MEXICO: Chiapas, San Cristóbal de las Casas 16°45'N, 92°38'W 7200 ft. 12.VII.1969 W. R. M. Mason Malaise Trap/ [white label with "LACM ENT 001219" and barcode on underside]/ HOLOTYPE CNC *Apocephalus* (Mesophora) *prolatus* Brown.

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

*Apocephalus trisetus* Brown, 1993b, Syst. Ent. 18: 220. COSTA RICA.

Holotype ♀: COSTARICA: Monteverde 29.ii.1980 1500m WR Mason.Cloud. For./[white label with "LACM ENT 001208" and barcode on

- underside]/ HOLOTYPE Apocephalus (Mesophora) trisetus Brown.  
Remarks: Holotype abdomen are stored in glycerine in a plastic microvial pinned below specimen.
- Apocephalus tritarsus* Brown, 1993b, Syst. Ent. 18: 227. 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.  
Paratype: 1♂, Mexico.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Apocephalus unitarsus* Brown, 1993b, Syst. Ent. 18: 225. CANADA.  
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.  
Paratypes: 4♂♂, 1♀, Quebec; 5♂♂, Maryland; 1♂, New York.
- Coniceromyia stephensoni* Peterson, 1982, Mem. ent. Soc. Wash. 10: 136. PANAMA.  
Holotype ♂: PANAMA: 4km.N.of Hartmann's Finca Chiriqui B.Gill 28.VI-3.VII. 1981/ HOLOTYPE Coniceromyia stephensoni Peterson CNC No.17061.  
Remarks: Only the slide of the wing and right fore tibia of the holotype was listed by Cooper & Cumming (1993: 35).
- Cootiphora angustata* Brown, 1993a, Mem. Ent. Soc. Can. 165: 122. ECUADOR.  
Holotype ♀ (slide): ECUADOR: Pich. 17 km E. Santo Domingo Tinalandia. 6-13.v.1987. B.V. Brown 800m. clubhouse windows MOUNTED IN BERLESE FLUID, RINGED WITH GLYCEEL/ Cootiphora angustata Brown ♀ HOLOTYPE C.N.C.#2/97.
- Dohrniphora avispasensis* Brown & Jung, 2010, Zootaxa 2699: 35. ECUADOR.  
Holotype ♂: PERU: Madre de Dios: Avispas, 10-20.ix.1962, L. Peña, 400 m [LACM ENT 240035].  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Dohrniphora hamartia* Brown & Kung, 2007, Arthropod Syst. Phylogeny 65: 194. COLOMBIA.  
Holotype ♂: COLOMBIA: Amazonas: Leticia, 24.ii-1.iii.1974, H. E. Howden [LACM ENT 224455].  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Dohrniphora microlobata* Brown & Kung, 2007, Arthropod Syst. Phylogeny 65: 197. ECUADOR.  
Holotype ♂: ECUADOR: Napo: Napo River, Coca, v.1965, L. Peña, 250 m [LACM ENT 222608].
- Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Dohrniphora penai* Brown & Kung, 2007, Arthropod Syst. Phylogeny 65: 198. ECUADOR.  
Holotype ♂: ECUADOR: Pastaza: Napo River, Pompeya, 14-22.v.1965, L. Peña, 250 m [LACM ENT 166530].  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Dohrniphora sinaloensis* Brown & Kung, 2007, Arthropod Syst. Phylogeny 65: 183. MEXICO.  
Holotype ♂: MEXICO: Sinaloa: 20 mi. E Concordia, 4.viii.1964, W.R.M. Mason, 3000' [LACM ENT 215206].  
Paratypes: 2♂♂, Mexico.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Megaselia edenensis* Disney in Disney & Sinclair, 2008, Tijdschr. Ent. 151: 122. ECUADOR.  
Holotype ♂ (slide): Megaselia edenensis ♂ 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.
- Megaselia peckorum* Disney in Disney & Sinclair, 2008, Tijdschr. Ent. 151: 124. ECUADOR.  
Holotype ♂ (slide): Megaselia peckorum ♂ HOLOTYPE no head/ 31-71/ ECU: Galap; Espanola Bahia Manzanilla 5-10.VI.85, S&J Peck. littoral Cryptocarpus & Prosopis, FIT, malaise.  
Paratypes: 1♂, 3♀♀, Ecuador.

## PIOPHILIDAE

- Protophila litigata* Bonduriansky, 1995, Can. Ent. 127: 860. CANADA.  
Holotype ♂: Holotype ♂ PROTOPIOPHILA LITIGATA BONDURIANSKY/ PIOPHILIDAE 7/6/1993 MOOSE ANTLER W.R.S. ALGONQUIN PARK.  
Paratypes: 5♂♂, 3♀♀, Ontario; 2♀♀, Nova Scotia.

## PIPUNCULIDAE

- Nephrocera acanthostylus* Skevington, 2005, Zootaxa 977: 8. CANADA.  
Holotype ♂: CANADA: QC: Mount Rigaud; 45°27'59" N, 74°19'35" W; 19.v.2004 J.Skevington, L. Bartels, E. St.Louis, J.King/ J. Skevington Specimen # 15348/ HOLOTYPE Nephrocera acanthostylus Det.J.H. Skevington.  
Paratypes: 1♂, New Brunswick; 1♂, 9♀♀, Ontario; 1♂, Virginia.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

*Nephrocerus corpulentus* Skevington, 2005, Zootaxa 977: 19.  
USA.

Holotype ♂: PA Berks Co. 5 km S. Pine Grove 16. VI. 1997 D. M. Wood 375m/ J. Skevington Specimen # 11887/ HOLOTYPE *Nephrocerus corpulentus* J.H. Skevington.

Paratype: 1♀, North Carolina.

Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.  
Holotype head is glued to the locality label.

*Nephrocerus woodi* Skevington, 2005, Zootaxa 977: 31.  
CANADA.

Holotype ♂: QUE Cté Gatineau Masham, Duncan Lake 2.VI.1996 D. M. Wood 260m/ J. Skevington Specimen # 15346/ HOLOTYPE *Nephrocerus woodi* J.H. Skevington.

Paratypes: 6♂♂, Quebec.

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

*Pipunculus basilicus* Skevington in Skevington & Marshall, 1998, Thomas Say Publs Ent. Monogr. 1998: 31.  
CANADA.

Holotype ♂: CANADA: ONTARIO Wellington Co. Guelph, Stone Rd. E 10.viii.1992, malaise R.A. Cannings/ HOLOTYPE *Pipunculus basilicus* Skevington.

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

*Pipunculus hastatus* Skevington in Skevington & Marshall, 1998, Thomas Say Publs Ent. Monogr. 1998: 52. USA.

Holotype ♂: Herb Martyr Dam, Chiricahua Mts., ARIZ. 22 July, 1964 GD Butler/ HOLOTYPE *Pipunculus hastatus* Skevington.

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

*Pipunculus maritimus* Skevington in Skevington & Marshall, 1998, Thomas Say Publs Ent. Monogr. 1998: 67.  
CANADA.

Holotype ♂: Green Gables, P.E.I. Cavendish Beach, VII.22.1967 D.M. Wood/ 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.

*Pipunculus nodus* Skevington in Skevington & Marshall, 1998, Thomas Say Publs Ent. Monogr. 1998: 72. USA.

Holotype ♂: Ramsey Cyn. 5200' 15 mi.S.Sierra Vista Huachuca Mts.ARIZ. 5. V.1967/ Collector R.F.Sternitzky/ Ex Malaise trap/ HOLOTYPE *Pipunculus nodus* Skevington.

Paratype: 1♂, Arizona.

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

*Pipunculus platystylus* Skevington in Skevington & Marshall, 1998, Thomas Say Publs Ent. Monogr. 1998: 75.  
USA.

Holotype ♂: USA:NM:Grant Co.14mi N Silver City Cherry Ck. Cpgd 7400'malaise 32° 64'53"N 108° 13'28"W 14.ix.1994 J.E.O'Hara/ HOLOTYPE *Pipunculus platystylus* Skevington.

Paratype: 1♂, Arizona.

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

*Pipunculus torus* Skevington in Skevington & Marshall, 1998, Thomas Say Publs Ent. Monogr. 1998: 81.  
CANADA.

Holotype ♂: Mer Bleu, 5 mi. E Ottawa, Ontario 25 VI 1964 Malaise Trap D.D. Munroe/ Taken in sphagnum bog/ HOLOTYPE *Pipunculus torus* Skevington.

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

Paratypes: 16♂♂, 19♀♀, Ontario.

#### RHINOPHORIDAE

*Bezzimyia jamaica* Pape & Arnaud, 2001, Zool. Scr. 30: 275.  
JAMAICA.

Holotype ♀: JAMAICA,4000' Hardwar Gap VII.25.1966 Howden & Becker/ Holotype ♀ *Bezzimyia jamaica* Pape & Arnaud.

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.

*Bezzimyia orestes* Pape & Arnaud, 2001, Zool. Scr. 30: 277.  
MEXICO.

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

*Bezzimyia platina* Pape & Arnaud, 2001, Zool. Scr. 30: 280.  
MEXICO.

Holotype ♂: MEX.Chis.6500ft. 20 mi N. Bochil Yerba Buena 24 June W.R.M.Mason 1969/ Holotype ♂ *Bezzimyia platina* Pape & Arnaud.

Paratype: 1♂, Mexico.

*Bezzimyia ramicornis* Pape & Arnaud, 2001, Zool. Scr. 30: 281.  
ECUADOR.

Holotype ♂: Ecuador: Pichincha nr. Tinalandia 1150m lower montane forest 9-13.v.1987 malaise B. Brown & L. Coote/ Holotype ♂ *Bezzimyia ramicornis* Pape & Arnaud.

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

*Rhinodonia antiqua* Ceretti, Logiudice & Pape, 2014, Syst. Ent. 39: 662. NEW CALEDONIA.

Holotype ♂: Mt. Koghis 800 m. NEW CALEDONIA Sept. 1-6 1972 J. F. McAlpine

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.  
Holotype ♀: Fraserburg E.S. Alston/ Chauliooestrus [sic]  
capensis Typ. Villen/ TYPE/ EX. L.-P. MESNIL  
COLLECTION 1985.  
Remarks: This species was inadvertently listed under  
the family Oestridae by Cooper & Cumming  
(2000: 86).

*Sarcophaga (Bulbostyla) aiosalis* Giroux & Wheeler, 2010,  
Zootaxa 2553: 40. MEXICO.  
Holotype ♂: Pachuca, 1700' Hidalgo, Mex. 29–VII–  
1954 J. G. Chillcott/ Holotype Sarcophaga  
(Bulbostyla) aiosalis Giroux & Wheeler.  
Remarks: Holotype terminalia are stored in glycerine in  
a plastic microvial pinned below specimen.

*Sarcophaga (Bulbostyla) cadyi* Giroux & Wheeler, 2010, Zootaxa  
2553: 40. CANADA.  
Holotype ♂: QUE Cté Vaudreuil summit Mt Rigaud /  
6:30–7 AM, 21.vii.96 D. M. Wood 220m/  
Holotype Sarcophaga (Bulbostyla) cadyi Giroux  
& Wheeler.  
Remarks: Holotype terminalia are stored in glycerine in  
a plastic microvial pinned below specimen.

*Sarcophaga (Neobellieria) longisterna* Giroux & Wheeler, 2009,  
Ann. ent. Soc. Am. 102: 581. USA.  
Holotype ♂: Big Bend N.P. TEX. Pine Can. 5-6000'  
May 10 1959 J.F. McAlpine/ HOLOTYPE  
*Sarcophaga longisterna* Giroux & Wheeler.  
Remarks: Holotype terminalia are stored in glycerine in  
a plastic microvial pinned below specimen.

## SCATHOPHAGIDAE

*Huckettia nearctica* Vockeroth, 1995, Proc. ent. Soc. Wash. 97:  
733. CANADA.  
Holotype ♂: Beaverhill L., N.W.T. 62° 44'N, 104°  
20'W. 29.VI.1966 G.E. Shewell/ M.T.S. Gravity  
Survey Camp/ At Lake margin/ Huckettia  
HOLOTYPE nearctica Vockeroth.  
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).

*Lubomyia orientalis* Šifner, 2010, Acta Entomol. Mus. Nat. Pragae  
50: 615. MYANMAR.  
Holotype ♂: N.E. Burma, Kambaiti, 7000 ft., 9.v.1934,  
R. Malaise/ Acerochne sp./ HOLOTYPE det.  
F. Šifner 2009/ Lubomyia [sic] orient-talis Šifner ♂  
det.F. Šifner,2009.  
Remarks: Holotype terminalia are stored in glycerine in  
a plastic microvial pinned below specimen.

*Miroslava knajfli* Šifner, 2010, Acta Entomol. Mus. Nat. Pragae  
50: 613. NEPAL.  
Holotype ♂: 27°57'N 84°59'E, Mal.tr.5, 10,000', 30  
May 1967, Canad. Nepal Exped./

*Megaphthalmoides* sp./ HOLOTYPE det. F.  
Šifner 2009/ *Miroslava knajfli* Šifner ♂ det.F.  
Šifner,2009.

Allotype ♀: 27°58'N 85°00'E, Mal.tr.1, 11,100', 8-11  
June 1967, Canad. Nepal Exped./  
*Megaphthalmoides* sp./ ALLOTYPUS det. F.  
Šifner 2009/ *Miroslava knajfli* Šifner ♂ det.F.  
Šifner,2009.

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

## SCIARIDAE

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

*Camptochaeta aequidens* Hippa & Vilkkamaa, 1994, Acta zool.  
fenn. 194: 17. CANADA.  
Holotype ♂: CANADA: Ontario, Lancaster, 5, 1990,  
leg. B. De Jonge.  
Remarks: Type not yet deposited in the CNC; label data  
taken from published description.

*Camptochaeta cursor* Hippa & Vilkkamaa, 1994, Acta zool. fenn.  
194: 65. CANADA.  
Holotype ♂: CANADA: Ontario, Sargeen Bluffs, Cons,  
area nr. Paisley, pitfalls in grass of cedar along  
river, 19.5.16.6.1988. Dondale & Redner.  
Paratypes: 14♂♂, Ontario.  
Remarks: Type not yet deposited in the CNC; label data  
taken from published description.

*Camptochaeta exilis* Hippa & Vilkkamaa, 1994, Acta zool. fenn.  
194: 69. CANADA.  
Holotype ♂: Canada. Yukon, km 155 Dempster Hwy,  
pan trap, 28.6.2.7.1988, D.M. Wood.  
Remarks: Type not yet deposited in the CNC; label data  
taken from published description.

*Camptochaeta falcator* Hippa & Vilkkamaa, 1994, Acta zool. fenn.  
194: 44. CANADA.  
Holotype ♂: Canada, Yukon, km 155 Dempster Hwy,  
pan trap, 28.6.2.7.1988, D.M. Wood.  
Remarks: Type not yet deposited in the CNC; label data  
taken from published description.

*Camptochaeta falcidens* Hippa & Vilkkamaa, 1994, Acta zool. fenn.  
194: 31. 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 formosa* Vilkkamaa, Hippa & Heller, 2013, Zootaxa  
3636: 479. CANADA.  
Holotype ♂ (slide): CANADA, British Columbia, Lake  
Kinbasket, Canoe Reach near Valemout,

- sampling station 15, Malaise trap, 12.VI.2010, Cooper, Beauchesne and Associates Ltd.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Camptochaeta mimica* Hippa & Vilkamaa, 1994, Acta zool. fenn. 194: 39. CANADA.  
Holotype ♂: Canada, Yukon, km 155 Dempster Hwy, pan trap, 28.6.2.7.1988, D.M. Wood.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Camptochaeta quadriceps* Hippa & Vilkamaa, 1994, Acta zool. fenn. 194: 41. CANADA.  
Holotype ♂: Canada, NWT. Ellesmere I., Fosheim Pen., Hot Weather Cr., 79° 58' N, 84° 28' W, 11.7.1990, F. Brodo.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Camptochaeta uniceps* Hippa & Vilkamaa, 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* Vilkamaa, Hippa & Heller, 2013, Zootaxa 3636: 485. CANADA.  
Holotype ♂ (slide): CANADA, British Columbia, Vancouver I., Upper Carmanah Valley, Malaise trap, 12–27.VIII.1991, N. Winchester.  
Paratypes: 3♂♂, British Columbia (slides).  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Claustropyga mirifica* Vilkamaa & Hippa, 2007, Zootaxa 1552: 60. CANADA.  
Holotype ♂ (slide): CANADA, Quebec, Laniel, Cage # 54, 18.VIII.1933, ?P. Ide.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Claustropyga simplicis* Hippa, Vilkamaa & Mohrig, 2003, Studia dipterol. 9: 506. CANADA.  
Holotype ♂: CANADA: Ontario, Griffith, 23.vii.1989, B.E. Cooper.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Claustropyga spicea* Vilkamaa & Hippa, 2007, Zootaxa 1552: 63. CANADA.  
Holotype ♂ (slide): CANADA, Yukon Territory, Ogilvie Mts., North Fork Pass, 4100', 21.VI.1962, P. J. Skitsko.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Claustropyga triloba* Vilkamaa & Hippa, 2007, Zootaxa 1552: 65. CANADA.  
Holotype ♂ (slide): CANADA, Yukon Territory, Ogilvie Mts., North Fork Pass, 4100', 21.VI.1962, P. J. Skitsko.  
Paratypes: 7♂♂, Yukon Territory (slides).
- Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Corynoptera aequispina* Hippa, Vilkamaa & 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. Vilkamaa.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Corynoptera armigera* Vilkamaa & Hippa, 2006, Zootaxa 1150: 38. CANADA.  
Holotype ♂ (slide): CANADA, Yukon, Dempster Hwy, km 135-195, spruce-willow forest, noon car netting, 19.vi.1984, S. & S.[sic] Peck.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Corynoptera phili* Hippa, Vilkamaa & 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. Vilkamaa.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Corynoptera redunda* Hippa, Vilkamaa & Heller, 2010, Zootaxa 2695: 40. 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. Vilkamaa.  
Paratypes: 3♂♂, Quebec (slides).  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Corynoptera robustior* Vilkamaa & Hippa, 2006, Zootaxa 1150: 39. CANADA.  
Holotype ♂ (slide): CANADA: Ontario, 7 mi E Griffiths, 16.vii.1989, B.E. Cooper.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Corynoptera trichistylis* Hippa, Vilkamaa & Heller, 2010, Zootaxa 2695: 110. CANADA.  
Holotype ♂ (slide): CANADA, British Columbia, Vancouver Island, Upper Carmanah Valley, forest floor, Malaise trap, 30.vii.1991, N. Winchester.  
Paratype: 1♂, British Columbia (slide).  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Dichopygina duplicis* Vilkamaa, Hippa & Komarova, 2004, Insect Syst. Evol. 35: 115. CANADA.  
Holotype ♂: CANADA, Ontario, 7 mi E Griffith, 16.vii.1989, B.E. Cooper.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Prosciara pectinifera* Hippa & Vilkamaa, 1991, Entomologica fenn. 2: 139. JAPAN.  
Holotype ♂ (slide): Prosciara pectinifera Hippa & Vilkamaa 1991 CNC # 22007 Holotype/ JAPAN



Mt. Sanageyama 18-24.7.1989 (malaise trap) A. Takano.

*Prosciara pentacanta* Hippa & Vilkamaa, 1991, Entomologica fenn. 2: 132. NEPAL.

Holotype ♂ (slide): *Prosciara pentacanta* Hippa & Vilkamaa 1991 C.N.C. 22008 Holotype/ NEPAL Pheol Chuki 8000' 17.Viii.1967 Canad. Nepal Exp.

*Sciara diderma* Garrett, 1925b, Seventy new Diptera, p. 16. CANADA.

Holotype ♂: Cranbrook, B.C., 7.V.21/ C. Garrett Collector/ 4742 HYPO/ HOLO TYPE SCIARA DIDERMA ♂ C Garrett, C.B.D. GARRETT/ Syntype *Sciara diderma* Garrett, CNC No. 7906.

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. (2013: 258) is invalid. The holotype terminalia are mounted on microscope slide No. 4Y42.

*Sciara diota* Garrett, 1925b, Seventy new Diptera, p. 16. CANADA.

Holotype ♂ (slide): MARYSVILLE, B.C., 19.VIII., C. GARRETT/ HOLO TYPE SCIARA DIOTA ♂ C Garrett, C.B.D. GARRETT/ Syntype *Sciara diota* Garrett, CNC No. 7907

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).

*Xylosciara (Xylosciara) horrida* Hippa & Vilkamaa, 2004, Acta zool. fenn. 214: 22. CANADA.

Holotype ♂: CANADA: Yukon, Dempster Hwy, km 135-195, spruce-willow forest, noon car-netting, 19.VI.1984, leg. S. & J. Peck.

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

*Xylosciara (Xylosciara) ontario* Hippa & Vilkamaa, 2004, Acta zool. fenn. 214: 16. CANADA.

Holotype ♂: CANADA: Ontario, Griffith, 23.VII.1989, leg. B. E. Cooper.

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

#### SCIOMYZIDAE

*Thecomyia naponica* Marinoni & Steyskal, in Marinoni et al., 2003, Zootaxa 191: 24. ECUADOR.

Holotype ♂: Coca,Napo R. Napo,ECUADOR .V.1965 250 m.,L.Pena/ Canadian Natl.Coll./ HOLOTYPE *Thecomyia naponica*.

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".

*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: 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.

Holotype ♀: NORWAY: Rendalen, Renåa R., 16.vii.1968, ex: CO2 trap, 100cc/min at water level, V.I. Golini/ HOLOTYPE *Eusimulium fallisi* Golini CNC No. 13914.

Paratypes: 8♀♀, Norway.

*Eusimulium rendalense* Golini, 1975, Ent. scand. 6: 229. NORWAY.

Holotype ♀: NORWAY, Rendalen Renaa R. @ water level 16.vii.1968, V.I. Golini Ex CO<sub>2</sub> trap, 100cc/min/ HOLOTYPE *Eusimulium rendalense* Golini CNC No. 13913.

Paratypes: 8♀♀, Norway.

*Eusimulium (Hellichiella) usovae* Golini, 1987, Can. J. Zool. 65: 709. NORWAY.

Holotype ♀: *Eusimulium usovae* [sic] n.sp. Golini Holotype ♀ Rendalen, Norway Asmyrtjorna Bog 2-VII-1980, N259-98 V.I. Golini/ NORWAY, Rendalen Asmyrijorna Bog-fen 2.vii.1980. V.I. Golini/ N259 98/ HOLOTYPE *Eusimulium usovae* Golini CNC No. 18692/ specimen c.p.d.'d; in pinned collection.

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

*Greniera humeralis* Currie, Adler & Wood in Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 281. USA.

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.

*Greniera longicornis* Currie, Adler & Wood in Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 282. USA.

Holotype ♂: Delaware, Sussex Co., Ellendale State Forest, 1km east and 4.3 km south of junction Rt. 16 and Rt. 113, 38°46.25'N, 75°25.73'W, 20 April 1992, D.M. Wood.

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

*Helodon (Helodon) trochus* Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 253. CANADA.

- Holotype (larva in alcohol): British Columbia, New Denver, Carpenter Creek, 49°59'N, 117°23'W, 11 July 1994, D.C. Currie.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Prosimulium longirostrum* Currie, Adler & Wood in Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 275. USA.  
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 stored below specimen. Type not yet deposited in the CNC; label data taken from published description.
- Simulium (Nevermannia) burgeri* Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 333. CANADA.  
Holotype ♂: New Brunswick, Restigouche Co., junction Hwy. 17 and Restigouche River Road, 23 May, 1995, D. M. Wood.  
Remarks: Holotype pin mount also has pupal exuviae attached. Type not yet deposited in the CNC; label data taken from published description.
- Simulium (Eusimulium) exulatum* Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 329. CANADA.  
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.
- Simulium (Nevermannia) modicum* Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 342. CANADA.  
Holotype ♂: Ontario, Peel Co., Caledon Township, Cataract, outlet of pond, grid reference 785519, 7 April 1958, D.M. Davies & D.M. Wood.  
Remarks: Holotype pin mount also has pupal exuviae attached. Type not yet deposited in the CNC; label data taken from published description.
- Simulium (Hellichella) mysterium* Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 312. USA.  
Holotype (pupa with pharate ♀ in alcohol): California Trinity Co., Weaverville, Sidney Gulch, west end of town, Rt. 299, 40°44'N, 122°56'W, 24 April 1991, D.C. Currie.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Simulium rothfelsi* Adler et al., 2003, Proc. ent. Soc. Wash. 105: 9. CANADA.  
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 1983 HOLOTIPO ♀/ *S. shewellianum* Coscaron, 1984 Det. LM Hernandez '08/  
DIGITALLY PHOTOGRAPHED ♀ genitalia; legs; gill; ft clypeus; ♀ head; wing; cocoon L.M. Hernandez/ [blank rectangular red label]/ IN DB [circular yellow label].  
Allotype ♂: 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 83 ALOTIPO.
- Simulium (Simulium) tormentor* Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 427. CANADA.  
Holotype ♀ (larva in alcohol): Northwest Territories, tributary of Horton River, outflow of shallow pool, 67°59.41'N, 123°13.92'W, 20 July 2000, P.H. Adler & D.C. Currie.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Stegopterna acra* Currie, Adler & Wood in Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 284. USA.  
Holotype ♂: Arizona, Greenlee Co., 40km south of Alpine, Rt. 191, K.P. Cienega Campground, 2804m elev., 33°34.5'N, 109°21.4'W, 10 May 1967, D.M. Wood.  
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.  
Holotype ♂: CANADA: Ontario, Nipissing District, Algonquin Provincial Park, Booth Lake, Booth's Rock Trail, 18 May 1992, F.F. Hunter/ Holotype *Stegopterna diplomutata* Currie & Hunter 2003.  
Paratypes: 1 ♀ (pinned adult with pupal exuviae stored in glycerine in a plastic microvial pinned below specimen), 10 larvae (in alcohol), Ontario.  
Remarks: Holotype pupal exuviae is stored in glycerine in a plastic microvial pinned below specimen.
- Stegopterna xantha* Currie, Adler & Wood in Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 289. CANADA.  
Holotype ♀: British Columbia, Bowser, railroad track steam, 7 May 1964, D.M. & G.C. Wood.  
Remarks: Holotype pin mount also has pupal exuviae attached. Type not yet deposited in the CNC; label data taken from published description.
- Talocomyia andersoni* Currie, Adler & Wood in Adler, Currie & Wood, 2004, The black flies (Simuliidae) of North America: 290. USA.  
Holotype ♂: Oregon, Benton Co., Corvallis, 60th Street, Dimple Hill, Outgate Beck, 44°35.9'N,

- 123°19.0'W, emergence trap, 9 March 1993, D.C. Currie & D.M. Wood.  
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.  
Holotype ♀: pond outlet-mi.2.1 Cold Cr. Road Kamloops-BC 13-16-V-1964 G.C. & D.M. Wood/ HOLOTYPE *Tlalocomyia ramifera* A., C. & W. CNC No.  
Allotype ♂: pond outlet-mi.2.1 Cold Cr. Road Kamloops-BC 13-16-V-1964 G.C. & D.M. Wood/ ALLOTYPE *Tlalocomyia ramifera* A., C. & W.  
Remarks: Holotype pin mount also has pupal exuviae attached.
- SPHAEROCERIDAE**
- Anomioptera bialba* Marshall, 1998, J. nat. Hist. 32: 179. VENEZUELA.  
Holotype ♂: VEN: Merida Los Chorros 2300m, FIT 23-30.iv.1988 S.A. Marshall/ HOLOTYPE *Anomioptera bialba* S.A. Marshall.
- Anomioptera quadrialba* Marshall, 1998, J. nat. Hist. 32: 186. VENEZUELA.  
Holotype ♀: VENZ: Bolivar 135km S El Dorado 20.vii.7.viii.86 B. Gill 1400m dung traps/ HOLOTYPE *Anomioptera quadrialba* S.A. Marshall.
- Anomioptera quinquealba* Marshall, 1998, J. nat. Hist. 32: 187. VENEZUELA.  
Holotype ♂: VENEZUELA Merida Santa Rosa Trail dung, 23-30.iv.88 S.A. Marshall/ HOLOTYPE *Anomioptera quinquealba* S.A. Marshall.
- Anomioptera tresalba* Marshall, 1998, J. nat. Hist. 32: 188. ECUADOR.  
Holotype ♂: ECU: Baeza 5.iii.1979 S A Marshall/ HOLOTYPE *Anomioptera tresalba* S.A. Marshall.
- Antrops cochabamba* Kits & Marshall, 2013, Zootaxa 3704: 62. BOLIVIA.  
Holotype ♂: BOLIVIA, Siberia W. Comarapa. Coch. 18–19.II.1976, 2500–2900 m., L.E. Pena/ debu01034023/ ♂ HOLOTYPE *Antrops cochabamba* Kits & Marshall 2012.  
Paratype: 1♀, Bolivia.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.
- Antrops mucarensis* Kits & Marshall, 2013, Zootaxa 3704: 71. CHILE.  
Holotype ♂: Mucar, 23°20'S on Argentina bord. 4000–4100 m. Antofagasta. CHILE 12–16.XII.65, Pena/ debu01033740/ ♂ HOLOTYPE *Antrops mucarensis* Kits & Marshall 2012.  
Paratype: 1♀, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.
- Antrops tequendama* Kits & Marshall, 2013, Zootaxa 3704: 57. COLUMBIA.  
Holotype ♂: COLOM. C. Amara Tequendama, VII.6.1970, 7600' J.M. Campbell/ debu01154923/ ♂ HOLOTYPE *Antrops tequendama* Kits & Marshall 2012.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.
- Antrops tumbrensis* Kits & Marshall, 2013, Zootaxa 3704: 72. CHILE.  
Holotype ♂: Tumbre, Chile. Antofagasta. 4.X.1955, L.E. Pena/ debu01033743/ ♂ HOLOTYPE *Antrops tumbrensis* Kits & Marshall 2012.  
Paratypes: 1♂, 1♀, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.
- Archileptocera lutea* Marshall, 1998, J. nat. Hist. 32: 192. ECUADOR.  
Holotype ♂: Ecuador. Napo. Quito-Baeza Road, 4000m, 10-18.ii.1993, pan traps in low paramo, L. Masner/ HOLOTYPE *Archileptocera lutea* S.A. Marshall.  
Paratypes: 5♂♂, 3♀♀, Ecuador.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Archileptocera nigra* Marshall, 1998, J. nat. Hist. 32: 194. ECUADOR.  
Holotype ♂: Ecuador. Napo. 4000m., Quito-Baeza road, dung traps in elfin forest, 8.iii.1979, S. A. Marshall/ HOLOTYPE *Archileptocera nigra* S.A. Marshall.  
Paratypes: 6♂♂, 4♀♀, Ecuador.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Boreantrops durango* Kits & Marshall, 2015, Zootaxa 3915: 317. MEXICO.  
Holotype ♂: 13 mi. W. El Salto, Dgo. MEX. 9000' June 18 1964 J.F. McAlpine/ debu 01155353/ ♂ HOLOTYPE *Boreantrops durango* Kits & Marshall 2012.  
Paratypes: 3♂♂, 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.  
Holotype ♂: NEPAL, Ktm. Pulchauki 6800' 14.VII.1967 Mal. Tr., Can. Exp./ ♂ HOLOTYPE *Ischiolepta polyankistrion* Buck & Marshall.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Ischiolepta scabifer* Buck & Marshall, 2002, Studia dipterol. 9: 259. CANADA.  
Holotype ♂: Brandon, Man. 31-VII-1958 J.G. Chillcott/ ♂ HOLOTYPE *Ischiolepta scabifer* Buck & Marshall.  
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.  
Holotype ♂: Hda Illapel, Coquimbo, CHILE 20 xi 1954 L. Peña 23-2600m/ *Leptocera longilimbata* Buck sp. n. Det. M. Buck 2008 cnci00000798/ Illustrated M. Buck & A. Cormier 2001/ HOLOTYPE ♂ *Leptocera longilimbata* Buck sp.n.  
Paratype: 1♂, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial stored below specimen.
- Leptocera sphaerotheca* Buck in Buck & Marshall, 2009, Zootaxa 2039: 57. MEXICO.  
Holotype ♀: MEX. Chis. 7200 ft. S.Crist. las Casas 10 June 1969 Malaise Trap/ *Leptocera sphaerotheca* Buck sp. n. Det. M. Buck 1999 cnci00000462/ HOLOTYPE ♀ *Leptocera sphaerotheca* Buck sp.n.  
Paratypes: 29 ♂♂, 12♀♀, Mexico.
- Leptocera tenuispina* Buck in Buck & Marshall, 2009, Zootaxa 2039: 91. CANADA.  
Holotype ♂: B.C., Hixon 24 v1966 E.D.A. Dyer/ HOLOTYPE ♂ *Leptocera tenuispina* Buck sp.n.  
Paratypes: 2 ♂♂, 3♀♀, British Columbia.
- Limomyza archiptera* Marshall, 1997b, Proc. ent. Soc. Wash. 99: 283. MEXICO.  
Holotype ♂: MEX:Guerrero,4miW Mazatlan. 4800'.30.viii-5.ix.1971.Oak trop.-decid. Human dung. A. Newton/ HOLOTYPE *Limomyza archiptera* S.A. Marshall.
- Limomyza cavernicola* Marshall, 1997b, Proc. ent. Soc. Wash. 99: 285. USA.  
Holotype ♂: U.S.A.: KENTUCKY Edmonson Co. M.N.P. Running Br. 17-25.vi.-1973 S.Peck For. Dung trap/ HOLOTYPE *Limomyza cavernicola* S.A. Marshall.
- Limomyza hirta* Marshall, 1997b, Proc. ent. Soc. Wash. 99: 287. MEXICO.  
Holotype ♂: 10 mi.W.El Salto, Dg.MEX. VI. 13 1964 H.F. Howden/ HOLOTYPE *Limomyza hirta* S.A. Marshall/ illustrated by R. Langstaff.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Limomyza sharkeyi* Marshall, 1997b, Proc. ent. Soc. Wash. 99: 288. GUATEMALA.  
Holotype ♀: GUAT: San Marcos San Antonio 8000' Sacatepequez 29.ix.1987 M. Sharkey/ HOLOTYPE *Limomyza sharkeyi* S.A. Marshall.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Limomyza venia* Marshall, 1997b, Proc. ent. Soc. Wash. 99: 288. MEXICO.  
Holotype ♂: MEX: Mexico 3mi SW Tenancingo, 31.viii-6.ix.71. 7100ft km52 1/4. oak-juniper ANewton, Human dung/ HOLOTYPE *Limomyza venia* S.A. Marshall.
- Opacifrons brevistylus* Marshall & Langstaff, 1998, Contr. Sci. Nat. Hist. Mus. (Los Angeles) 474: 8. COSTA RICA.  
Holotype ♂: CostaRica:SanJose San Gerardo de Dota 9 33'N, 83 48'W,near trail,2400-2600m,8-9 viii.95,S.A.Marshall/ HOLOTYPE *Opacifrons brevistylus* S.A. Marshall.  
Paratypes: 10♂♂, 1♀, Costa Rica.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Opacifrons obunca* Marshall & Langstaff, 1998, Contr. Sci. Nat. Hist. Mus. (Los Angeles) 474: 15. ECUADOR.  
Holotype ♂: Tarqui, 2800m. Azuay, ECUADOR 10.III.65,L. Pena/ HOLOTYPE *Opacifrons obunca* S.A. Marshall.  
Paratypes: 15♂♂, 10♀♀, Ecuador.
- Opacifrons parabisecta* Marshall & Langstaff, 1998, Contr. Sci. Nat. Hist. Mus. (Los Angeles) 474: 18. COSTA RICA.  
Holotype ♂: CR:Puntarenas Monteverde 1500-1800m. 24-27.II.1991 B.J.Sinclair ex.sweeping trails/ HOLOTYPE *Opacifrons parabisecta* S.A. Marshall.  
Paratypes: 4♂♂, 2♀♀, Costa Rica.
- Opacifrons redunca* Marshall & Langstaff, 1998, Contr. Sci. Nat. Hist. Mus. (Los Angeles) 474: 21. ECUADOR.  
Holotype ♂: ECU: Napo Prov.,5kmN El Chaco, 15.II.1983 M.J.Sharkey,Malaise trap & wet net/ HOLOTYPE *Opacifrons redunca* S.A. Marshall.  
Paratypes: 18♂♂, 22♀♀, Ecuador.
- Opacifrons triloba* Marshall & Langstaff, 1998, Contr. Sci. Nat. Hist. Mus. (Los Angeles) 474: 24. ECUADOR.  
Holotype ♂: Tandapi,40km. SW.Quito, 1300-1500m.ECUADOR 15-21.VI.65,Pena/ HOLOTYPE *Opacifrons triloba* S.A. Marshall.  
Paratypes: 31♂♂, 20♀♀, Ecuador.
- Palaeoceroptera clefta* Marshall, 1998, J. nat. Hist. 32: 212. ARGENTINA.  
Holotype ♂: ARG:Salta;ElMaray 50kmWChicoana,dry 2500mpantps,18-28.ii.1992 S.Marshall/ HOLOTYPE *Palaeoceroptera clefta* Marshall.
- Palaeocoprina argentinensis* Marshall, 1998, J. nat. Hist. 32: 198. ARGENTINA.  
Holotype ♂: ARGENTINA : 30kmE Salta CampoQuijano, 18-20.ii.1992 dung trap, forest remnant S.A. Marshall/ Archileptocera Det. S.A. Marshall PALAEOCOPRINA/ illustrated by R. Langstaff/ HOLOTYPE *Palaeocoprina argentinensis* S.A. Marshall.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.

- Palaeocoprina colombiensis* Marshall, 1998, J. nat. Hist. 32: 200. COLOMBIA.  
Holotype ♂: COLOMBIA, 12 km.S. Bogota, 10,000' 28.II-6.III-1972 S. & J. Peck Dung trap/ HOLOTYPE *Palaeocoprina colombiensis* S.A. Marshall.  
Remarks: Holotype abdomen is stored in glycerine in a glass microvial pinned below specimen.
- Palaeocoprina equisetata* Marshall, 1998, J. nat. Hist. 32: 204. ECUADOR.  
Holotype ♂: ECU:Napo, 27kmNW Baeza, 2-6.III.1976 2700m.,DgTp, SPECK/ HOLOTYPE *Palaeocoprina equisetata* S.A. Marshall.
- Palaeocoprina longinotum* Marshall, 1998, J. nat. Hist. 32: 206. ECUADOR.  
Holotype ♂: ECU:Quito-Baeza Road. ElfinFor. 1.iii.1979.dung S A Marshall/ HOLOTYPE *Palaeocoprina longinotum* S.A.Marshall 1996.
- Palaeocoprina masneri* Marshall, 1998, J. nat. Hist. 32: 207. ECUADOR.  
Holotype ♂: ECU:NapoProv.Quito- BaezaRd.,4000m., 10-18.II.1983,elfin forest,pan traps L. Masner/ HOLOTYPE *Palaeocoprina masneri* S.A. Marshall.
- Palaeocoprina pisinna* Marshall, 1998, J. nat. Hist. 32: 208. ECUADOR.  
Holotype ♂: ECU: Napo Prov. Quito-Baeza Rd. 4000m, 18-23.ii.1983 L.Masner, pan traps in low paramo/ HOLOTYPE *Palaeocoprina pisinna* S.A. Marshall.  
Remarks: Date of collection of holotype was published as "10-18.ii.1983".
- Palaeocoprina quadriseta* Marshall, 1998, J. nat. Hist. 32: 210. ECUADOR.  
Holotype ♂: ECU:Quito-Baeza Road. ElfinFor. 1.iii.1979.dung S A Marshall/ illustrated by R. Langstaff/ HOLOTYPE *Palaeocoprina quadriseta*.  
Remarks: Holotype abdomen is stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda alces* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1215. ARGENTINA.  
Holotype ♂: ARG. Jujuy. 1200m Dique La Cienaga 8km. W. El Carmen 20-21.X.68. Pena/ HOLOTYPE *Rachispoda alces* Wheeler.  
Paratypes: 13♂♂, 20♀♀, Argentina.
- Rachispoda altimontana* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1288. ECUADOR.  
Holotype ♂: 10Km. S. Cuenca Azuay, ECUADOR 13-14.III.1965 2200m., L. Pena/ HOLOTYPE *Rachispoda altimontana* WHEELER.  
Paratypes: 7♂♂, 6♀♀, Ecuador.
- Rachispoda amarilla* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1252. DOMINICAN REPUBLIC.  
Holotype ♂: DOMINICAN REPUBLIC Manabao sweep, near creek 22.i.1989 S.A. Marshall/ HOLOTYPE *Rachispoda amarilla* Wheeler.  
Paratypes: 1♂, 2♀♀, Dominican Republic.
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen
- Rachispoda baezensis* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1289. ECUADOR.  
Holotype ♂: ECU. Napo Baeza, 2000m. 1/3/1979 S.A. Marshall/ HOLOTYPE *Rachispoda baezensis* WHEELER.  
Paratype: 1♂, Ecuador.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda caesia* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1291. VENEZUELA.  
Holotype ♂: VEN: Merida Los Chorrros 23.iv.88 sweeps S.A.Marshall/ HOLOTYPE *Rachispoda caesia* WHEELER.  
Paratype: 1♂, Venezuela.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda canadensis* Wheeler, 1995, J. nat. Hist. 29: 184. CANADA.  
Holotype ♂: CAN: ONT: Ottawa 19.viii.1989 J. R. Vockeroth swept at pond margin with dry Lemna/ HOLOTYPE *Rachispoda canadensis* Wheeler.  
Paratypes: 5♂♂, 7♀♀, Ontario; 75♂♂, 27♀♀, Manitoba.
- Rachispoda cesta* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1255. COSTA RICA.  
Holotype ♂: COSTA RICA: Hwy 2 km 95 83°44'W: 9°36'N 1-7.vi.1985. 320m 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.
- Rachispoda condyla* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1230. CHILE.  
Holotype ♂: Tres Brazos Punta Arenas Magellanes, CHILE 1-3.XI.1960. Pena/ HOLOTYPE *Rachispoda condyla* WHEELER.  
Remarks: Holotype terminalia are stored in glycerine in plastic microvial pinned below specimen.
- Rachispoda cryptistyla* Wheeler, 1995, J. nat. Hist. 29: 209. CANADA.  
Holotype ♂: Midland, ONT. 12.V.1959 J.G. Chillcott/ HOLOTYPE *Rachispoda cryptistyla* Wheeler.  
Paratypes: 17♂♂, 15♀♀, Quebec; 44♂♂, 17♀♀, Ontario; 2♂♂, Manitoba; 2♂♂, Northwest Territories; 1♂, Colorado.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda forficula* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1235. ARGENTINA.  
Holotype ♂: ARGENTINA: Neuquen, Catan-Lil, 900m, 21.x.1989 S.A. Marshall near cow pond/ HOLOTYPE *Rachispoda forficula* WHEELER.  
Paratypes: 2♂♂, 1♀, Argentina; 1♂, 3♀♀, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.

- Rachispoda geniaetes* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1262. PUERTO RICO.  
Holotype ♂: PUERTO RICO: EL VERDE STN. Colorado forest dung traps 1-6.ii.1989. S.A. Marshall/ HOLOTYPE *Rachispoda geniaetes* Wheeler.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda justini* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1263. ECUADOR.  
Holotype ♂: ECU:Pich. 16kmESanto Domingo, Tinalandia 4.V.-25.vii.85 S&J Peck; 680m rainfor. Malaise-FIT./ HOLOTYPE *Rachispoda justini* Wheeler.  
Paratypes: 2♂♂, Ecuador.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda lucaris* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1294. COSTA RICA.  
Holotype ♂: COSTA RICA La Salva, malaise CES 200, 1 rainforest 23-26.v.1989 B.V. Brown/ HOLOTYPE *Rachispoda lucaris* WHEELER.  
Paratype: 1♂, Costa Rica.
- Rachispoda luciana* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1222. ST. LUCIA.  
Holotype ♂: St. Lucia, W.I. Black Bay 26.II-1.III.1978 S.A. Marshall/ HOLOTYPE *Rachispoda luciana* Wheeler.  
Paratype: 1♂, St. Lucia.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda luisi* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1237. CHILE.  
Holotype ♂: Las Brisas 10.IV.1955/ HOLOTYPE *Rachispoda luisi* WHEELER.  
Paratypes: 105♂♂, 95♀♀, Chile.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda merga* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1239. ARGENTINA.  
Holotype ♂: ARGENT. Tucuman Arroyo 14km. S. El Tala. 700m. 13-14.X.68. Pena/ HOLOTYPE *Rachispoda merga* WHEELER.  
Paratypes: 15♂♂, 24♀♀, Argentina.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda meringoterga* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1267. BRAZIL.  
Holotype ♂: Nova Teutonia 27° 11'S, 52° 23'W Brazil, 300-500m. XI-1958 Fritz Plaumann/ HOLOTYPE *Rachispoda meringoterga* Wheeler.  
Paratypes: 3♂♂, 4♀♀, Brazil; 1♂, Peru.
- Rachispoda mexicana* Wheeler, 1995, J. nat. Hist. 29: 191. MEXICO.  
Holotype ♂: Tepexpan 6900' Mexico, Mexico 12-VIII-1954 J.G. Chillcott/ HOLOTYPE *Rachispoda mexicana* Wheeler.  
Paratypes: 55♂♂, 38♀♀, Mexico.
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda oreadis* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1268. VENEZUELA.  
Holotype ♂: VEN: Merida St. Mucuchies Tr. 5km S. Paramo nr. Lake 4000m undr Espeletia debris 28-iv-1988. S.A. Marshall/ HOLOTYPE *Rachispoda oreadis* Wheeler.  
Paratypes: 1♂, 2♀♀, Venezuela.
- Rachispoda praealta* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1298. ECUADOR.  
Holotype ♂: ECU: Napo, 4000 km Quito-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.
- Rachispoda recavisterna* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1270. MEXICO.  
Holotype ♂: MEX. Chis. 12mi SE. San Cristobal 3.V.69 H.J. Teskey/ HOLOTYPE *Rachispoda recavisterna* Wheeler.  
Paratypes: 9♂♂, 9♀♀, Mexico.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda rhizophora* Wheeler, 1995, J. nat. Hist. 29: 197. PUERTO RICA.  
Holotype ♂: P.R.: Guanica wet mud nr. mangroves sweep 4.ii.1989 S.A. Marshall/ HOLOTYPE *Rachispoda rhizophora* Wheeler.  
Paratypes: 1♂, 1♀, Dominican Republic; 2♂♂, Puerto Rica.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda spatulata* Wheeler, 1995, J. nat. Hist. 29: 222. USA.  
Holotype ♂: Salton Sea, Mecca, Cal. 2-III-1955 W.R. Richards/ HOLOTYPE *Rachispoda spatulata* WHEELER.  
Paratypes: 58♂♂, 40♀♀, California.
- Rachispoda subsolana* Wheeler, 1995, J. nat. Hist. 29: 199. USA.  
Holotype ♂: IND: Lynn Randolph Co. swept on mud 11.vii.1989 S.A. Marshall/ HOLOTYPE *Rachispoda subsolana* Wheeler.  
Paratypes: 1♂, 1♀, Indiana; 14♂♂, 7♀♀, Kansas; 8♂♂, 1♀, Texas; 5♂♂, 3♀♀, Florida; 1♂, 1♀, Georgia.
- Rachispoda synoria* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1275. USA.  
Holotype ♂: Welder Wildlife Ref. nr. Sinton, Tex. III.19-23.1965/ HOLOTYPE *Rachispoda synoria* Wheeler.  
Paratypes: 26♂♂, 13♀♀, Texas; 4♂♂, Arizona.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda thaliathrix* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1245. ARGENTINA.

- Holotype ♂: ARG. Catamarca 4km. N. Santa Maria. 1700m. 4-5.X.68. Pena/ HOLOTYPE  
Rachispoda thaliathrix Wheeler.  
Paratypes: 1♂, 3♀♀, Argentina.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda thermastris* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1278. ECUADOR.  
Holotype ♂: Los Duendes Carchi, ECUADOR elev. 2000m. 10.VI.65, L. Pena/ HOLOTYPE  
Rachispoda thermastris Wheeler.  
Paratypes: 22♂♂, 10♀♀, Ecuador.
- Rachispoda trichopyga* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1280. ARGENTINA.  
Holotype ♂: ARG. Catamarca Ao. El Pintado, S. LaVina. 650m. 27/29.IX.68. Pena/ HOLOTYPE  
Rachispoda trichopyga Wheeler.  
Paratype: 1♂, Argentina.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rachispoda vespertina* Wheeler, 1995, J. nat. Hist. 29: 225. CANADA.  
Holotype ♂: Takhini Hot Sprgs. Y.T. 2400' 19.VIII.1962 R.E. Leech/ HOLOTYPE  
Rachispoda vespertina WHEELER.  
Paratypes: 8♂♂, 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.
- Rachispoda zygolepis* Wheeler in Wheeler & Marshall, 1995, J. nat. Hist. 29: 1285. ECUADOR.  
Holotype ♂: Cuenca, 2200m. Azuay, ECUADOR 10-20.III.65, Pena/ HOLOTYPE Rachispoda zygolepis Wheeler.  
Paratypes: 2♂♂, Ecuador.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Sclerocoelus andensis* Marshall, 1997a, Insecta Mundi 11: 99. ARGENTINA.  
Holotype ♂: Argentina. Salta. 1500m, 40kmN Salta, Camino La Cornisa, sweep in roadside forest remnant, 27.ii.1992, S.A Marshall.  
Paratypes: 1♂, Argentina; 4♂♂, 3♀♀, Bolivia.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Sclerocoelus brasiliensis* Marshall, 1997a, Insecta Mundi 11: 100. BRAZIL.  
Holotype ♂: BRAZIL. Parana. Curitiba, under fallen epiphytes near Natural History Museum, 5.ii.1990, S.A. Marshall.  
Paratype: 1♂, Bolivia.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Sclerocoelus caribensis* Marshall, 1997a, Insecta Mundi 11: 102. DOMINICAN REPUBLIC.  
Holotype ♂: DOMINICAN REPUBLIC. Near Cabo Rojo, 1300m, Las Abejas, cloud forest, 19.i.1989, S.A. Marshall.
- Paratypes: 18♂♂, 15♀♀, Costa Rica; 11♂♂, 13♀♀, Guatemala; 1♀, Jamaica.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Sclerocoelus galapagensis* Marshall, 1997a, Insecta Mundi 11: 103. ECUADOR.  
Holotype ♂: 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.
- Sclerocoelus hemorrhoidalis* Marshall, 1997a, Insecta Mundi 11: 104. VENEZUELA.  
Holotype ♂: Venezuela. Merida, La Punta, sweep along Rio Chama, 25.iv.1988, S.A. Marshall.  
Remarks: Types not yet deposited in the CNC; label data taken from published description.

## STRATIOMYIDAE

- Hermetia eiseni* Townsend, 1895, Proc. Calif. Acad. Sci. (2) 4: 594. MEXICO.  
Syntype: 1♀.  
♀: San Jose del cabo Eisen/ Frank M. Hull Collection C.N.C. 1973/ Hermetia aurata Bell/ Syntype of Hermetia eiseni det: M. HAUSER 2011.
- Neopachygaster vitreus* Hull, 1930, Ent. News 41: 103. USA.  
Holotype ♂: Ames, Ia. 7-15 1923/ Neopachygaster vitreus TYPE! Hull.
- Paraberismyia tzontehuitza* Woodley, 1995, Mem. Ent. Soc. Wash. 16: 136. MEXICO  
Holotype ♂: MEX. Chis. 9500' Mt. Tzontehuitz 27.V.1969 H.J. Teskey/ HOLOTYPE ♂  
*Paraberismyia tzontehuitza* des. Woodley 1995.  
Allotype ♀: MEXICO, Chiapas Mt. Tzontehuitz 9400' 12 mi. NE San Cristobal 27.V.1969 B.V. Peterson/ CNC/ ALLOTYPE ♀ Paraberismyia tzontehuitza des. Woodley 1995.  
Paratypes: 5♀♀, 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.
- Ptecticus elegans* Rozkošný & Hauser, 2009, Zootaxa 2034: 6. NEPAL.  
Holotype ♀: NEPAL, Ktm. Godavari 6000' 23 July 1967, Can. Nepal Exped./ HOLOTYPE Ptecticus elegans sp.n.Rozkošný et Hauser 2008.
- Ptecticus indicus* Rozkošný & Hauser, 2009, Zootaxa 2034: 9. INDIA.  
Holotype ♂: Cinchona, S.INDIA Anamalai Hills, 3500' v 1956 P.S.Nathan/ HOLOTYPE Ptecticus indicus sp.n.Rozkošný et Hauser 2008.
- Ptecticus infuscatus* Rozkošný & Hauser, 2009, Zootaxa 2034: 10. MALAYSIA.

- Holotype ♀: BORNEO Sabah, Mt. Kinabalu Nat. Pk. Poring Hot Spgs 485m 14–31.8.88, A. Smetana [B166]/ HOLOTYPE *Ptecticus infuscatus* sp.n. Rozkošný et Hauser 2008.
- Ptecticus semimetallicus* Rozkošný & Hauser, 2009, Zootaxa 2034: 14. NEPAL.
- Holotype ♀: NEPAL, Ktm. Godavari, 5000' 31.vii.1967, Can. Nepal Exped./ / HOLOTYPE *Ptecticus semimetallicus* sp.n. Rozkošný et Hauser 2008.
- Paratypes: 2 ♀♀, Nepal.
- STRONGYLOPTHALMIIDAE**
- Strongylophthalmyia pengellyi* Barber, 2006, J. ent. Soc. Ont. 137: 86. CANADA.
- Holotype ♂: CAN: ON: ~13.6 km S Hawk Jct., Hwy #101, 17.vi.2004, K. N. Barber, pooter, bleeding *Populus* 47°58.15'N 84°31.81'W/ HOLOTYPE ♂ *Strongylophthalmyia pengellyi* n.sp. K. N. Barber 2006.
- Paratypes: 25 ♂♂, 34 ♀♀, Ontario; 1 ♂, 1 ♀ Quebec; 1 ♀ New Brunswick; 3 ♀♀, Utah.
- SYRPHIDAE**
- Baccha leucopoda* Hull, 1948, Ent. News 59: 5. BRAZIL.
- Holotype ♀: GOYAS Campinas Spig I-38/ Frank M. Hull Collection C.N.C. 1973/ CNC DIPTERA # 161226/ *Baccha clarapex* var. *fumaria* n.v. Hull/ Holotype *Baccha leucopoda* Hull, 1948 G.F.G. Miranda.
- Baccha stipa* Hull, 1949, Ent. Am. 27: 110. COLOMBIA.
- Holotype ♂: Colombia 1936/ J. Bequaert Collector/ Muzo Dept. Boyaca alt. 900 M./ Frank M. Hull Collection C.N.C. 1973/ CNC DIPTERA # 160829/ *Baccha telescopica* VAR. Hull Cur./ Holotype *Baccha stipa* Hull, 1949 G.F.G. Miranda.
- Remarks: See comments on the holotype by Miranda et al. (2014: 75).
- Blera chillcotti* Thompson, 2012, Can. Ent. 144: 2. NEPAL.
- Holotype ♂: 27°58'N, 85°00'E. NEPAL, 11,000 ft. 19 June 1967 Can. Nepal Exped./ J. Skevington Specimen #19721/ Holotype *Blera chillcotti* Thompson 2010.
- Paratype: 1 ♀, Nepal.
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Ceratrachomyia angolensis* Reemer in Reemer & Ståhls, 2013, ZooKeys 288: 95. ANGOLA.
- Holotype ♂: ANGOLA 30 km NE Duque de Braganza, Nov. Dec. 1957/ Collector G.H. Heinrich.
- Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Chasmomma albitarsis* Kassebeer, 2000a, Dipteron 3: 29. UGANDA.
- Holotype ♂: Uganda: ♂, 7.6.1972, Entebbe, in forest, leg. H. Falke.
- Paratypes: 2 ♀♀, Uganda.
- Remarks: Types not yet deposited in the CNC; label data taken from published description.
- Chrysogaster (Orthonевра) anniae* Sedman, 1966, Proc. Ent. Soc. Wash. 68: 193. CANADA.
- Holotype ♂: Aylmer, Quebec, 23 V 1923 C.H. Curran.
- Allotype ♀: same data as holotype.
- Remarks: Types out on loan since 1994 to A. Maibach. Label data taken from published description.
- Dasysyrphus occidualis* Locke & Skevington, 2013, Zootaxa 3660: 52. USA.
- Holotype ♂: USA: WA: Mt. Baker-Snoqualmie NF: Mt. Baker: Silver Fir Campground; 2012ft. 48.904950°N, 121.697917°W; 8.vii.2010; M.M.Locke/ J. Skevington Specimen # 23708/ HOLOTYPE *Dasysyrphus occidualis* Locke & Skevington
- Paratypes: 1 ♂, 1 ♀, Alaska; 4 ♂♂, 2 ♀♀, Alberta; 6 ♂♂, 15 ♀♀, British Columbia; 3 ♂♂, 12 ♀♀, Colorado; 1 ♂, 5 ♀♀, Washington; 1 ♂, 1 ♀, Wyoming; 7 ♂♂, 1 ♀, Yukon Territory.
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Dioprosopa vockerothi* Kassebeer, 2000b, Dipteron 3: 76. ECUADOR.
- Holotype ♂: Bolivar, Chota Riv., 1800m. Carchi, ECUADOR 10.VI.65, L. Pena/ HOLOTYPE *Pseudodoros vockerothi* Kassebeer: 1996.
- Paratype: 1 ♂, Ecuador.
- Remarks: Holotype terminalia are stored in glycerine in a glass microvial pinned below specimen.
- Epistrophe flavopilosa* Ghorpadé, 1994, Colemania: Insect Biosystematics 3: 10. MYANMAR.
- Holotype ♀: Kambaiti. 24.v.1934 (*Malaïse*).
- Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Furciantenna nepalensis* Reemer in Reemer & Ståhls, 2013, ZooKeys 288: 98. NEPAL.
- Holotype ♂: NEPAL, Ktm. Godavari 6000' 13 Aug. 1967 Can. Nepal Exped.
- Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Habromyia rectilinea* Hull, 1942, Psyche 49: 19. BOLIVIA.
- Syntype: 1 ♀.
- ♀: 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.
- Hypselosyrphus pseudorhoga* Reemer, 2013, Zootaxa 3697: 35. PERU.
- Holotype ♀: Quincemil Peru 24/31 X 1962 L.E. Pena/ CNC Ottawa/ *Pseudorhoga* new genus! n. sp.!



- Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Korinchia himalayensis* van Steenis & Hippen, 2012, Tijdschr. Ent. 155: 229. NEPAL.  
Holotype ♂: Nepal, 27°56'N 85°00'E, Mal tr 990 ft, 23-29 May 1967, Can. Nepal Exped.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Leucozona kingdonwardi* Ghorpadé, 1994, Colemania: Insect Biosystematics 3: 11. NEPAL.  
Holotype ♂: Nepal 28°00' N, 85°00' E, 21-27.v.1967 (*Canadian Nepal Expdn*).  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Melanostoma chilosia* Curran, 1922, Can. Ent. 53: 275. CANADA.  
Holotype ♀: Banff, Alta. 1916 N.B.Sanson/  
HOLOTYPE *M. chilosia* Curran CNC No. 470/  
protrusus or carinatus/ *P. carinatus* Det. A.D. Young 2012.
- Metasyrphus (Metasyrphus) abiskoensis* Dušek & Láška, 1973, Acta Entomol. Bohemoslov. 70: 424. SWEDEN.  
Holotype ♂: Sweden, T. 1pm., Abisko, 23.vi.1951 (leg. J.R. Vockeroth).  
Paratypes: 1♂, 1♀, Sweden.  
Remarks: Types apparently deposited in CNC, but could not be located; label data taken from published description.
- Metasyrphus (Metasyrphus) tirolensis* Dušek & Láška, 1973, Acta Entomol. Bohemoslov. 70: 425. AUSTRIA.  
Holotype ♂: Austria, Tirol, Obergurgl, 1950 m, 18.vii.1953 (leg. J.R. Vockeroth).  
Paratypes: 2♀, 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 albipilis* Curran, 1925, Kans. Univ. Sci. Bull. 15: 51. CANADA.  
Holotype ♂: TYPE *Microdon albipilis* Curran No. 275/  
Manitoba Can/ CNC DIPTERA #52812.
- Microdon angulata* Hull, 1943, Ann. Mag. Nat. Hist. 10: 715. BRAZIL.  
Holotype ♂: Ega/ PARATYPE *Microdon angulata* Hull/ HOLOTYPE *Microdon angulatus* Hull, 1943.  
Remarks: The CNC specimen labelled "Ega" and bearing a yellow paratype label was discovered by Reemer (2013) to be the holotype.
- Microdon (Microdon) aureopilis* Marinoni in Marinoni & Thompson, 2004, Studia dipterol. 10: 569. BRAZIL.  
Holotype ♂: Nova Teutonia 27°11'S, 52°23'W IX.1969 Fritz Plaumann/ CNC DIPTERA # 185746/  
Holotype *Microdon aureopilis* Thompson '01.
- Microdon conflictus* Curran, 1925, Kans. Univ. Sci. Bull. 15: 58. USA.  
Holotype ♂: Great Falls, Va. 27-VI./ HOLOTYPE *Microdon conflictus* No. 3470 Curran/ CNC DIPTERA # 52819.  
Paratype: 1♀, Kansas.  
Remarks: Holotype terminalia mounted on point directly below specimen.
- Microdon hutchingsi* Curran, 1927, Can. Ent. 59: 89. CANADA.  
Holotype ♂: TYPE *M. hutchingsi* Curran No. 704/  
Queens Park, Aylmer 10.VIII. 1922 Que. C.B. Hutchings/ CNC DIPTERA # 52817.
- Microdon (Microdon) mourei* Thompson in Marinoni & Thompson, 2004, Studia dipterol. 10: 569. BRAZIL.  
Holotype ♂: Nova Teutonia 27°11'S, 52°23'W Brazil, 300-500m I.1966 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 Insectes: 113. SWEDEN.  
Neotype ♂: Holmsund Vb., SWEDEN I.VII.1967 J.W. Boyes/ Boyes Cytolog. Coll. # WS101 To remain in C.N.C./ J. Skevington Specimen # 18310/  
*Dasysyrphus pinastri* DeG. Det. J.R. Vockeroth/  
NEOTYPE *Musca pinastri* De Geer/ designated by Locke & Skevington 2013.  
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).
- Palpata eristoloides* Thompson, 1997, Proc. Entomol. Soc. Wash. 99: 231. ECUADOR.  
Holotype ♂: ECUADOR: Carchi, 10 km SW Tulcan, 2900 m, 28 Jun 1965 (L. Peña).  
Paratypes: 2♀, 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.  
Holotype ♂: CI, W' Man, Zadépleu Cascades, Pont Liane 7°25' N 7°35' W Bachbett, 08.02.1998 leg. Kassebeer & Hilger/ HOLOTYPE *Paragus apicalis* Kassebeer, 1998.
- Paragus boyesi* Kassebeer, 1999b, Dipteron 2: 80. MADAGASCAR.  
Holotype ♂: Ambodimango MADAGASCAR 14. II. 1968 J.W. Boyes/ 378/ Boyes Cytolog. Coll. 378 To remain in C.N.C./ HOLOTYPE *Paragus boyesi* Kassebeer, 1999  
Paratypes: 5♂♂, 1♀, Madagascar.
- Paragus manensis* Kassebeer, 1999a, Dipteron 2: 35. IVORY COAST.  
Holotype ♂: CI, NW' Man, Mont Tonkoui 1000-1200 m. 21.2.1998 7° 21' N 7° 36' W leg. Kassebeer & Hilger/ HOLOTYPE *Paragus manensis* Kassebeer, 1999.

- Parasyrphus sherpa* Ghorpadé, 1994, Colemania: Insect Biosystematics 3: 11. NEPAL.  
Holotype ♂: Nepal 27°58' N, 85°00' E, 18.v.1967 (Canadian Nepal Expdn).  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Parasyrphus vockerothi* Thompson, 2012, Can. Ent. 144: 10. CANADA.  
Holotype ♂: Beechgrove Que. 16.V.1962 45°39', 76°8' J.R. Vockeroth/ CNC DIPTERA # 22640/  
Holotype *Parasyrphus vockerothi* Thompson 2010  
Paratypes: 2♂♂, British Columbia; 20♂♂, Ontario; 38♂♂, Quebec; 1♂ Labrador; 5♂♂, New Brunswick; 8♂♂ Nova Scotia.
- Pelecinoabaccha avispas* Miranda in Miranda et al., 2014, Zootaxa 3819: 25. PERU.  
Holotype ♀: Avispas, Madre de Dios, PERU 20-30.IX.1962 L.Pena. 4000m./ CNC DIPTERA # 160860/ Holotype *Pelecinoabaccha avispas* Miranda/ HOLOTYPE *Pelecinoabaccha avispas* Miranda.  
Paratypes: 3♂♂, 17♀♀, Peru; 1♀, Ecuador.  
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Pelecinoabaccha gracilitas* Miranda in Miranda et al., 2014, Zootaxa 3819: 43. BRAZIL.  
Holotype ♀: Brazil, Manaus Km.65,Boa Vista Rd. 14.III.1973 B.V.Peterson/ CNC DIPTERA # 161193/ Holotype *Pelecinoabaccha gracilitas* Miranda/ HOLOTYPE *Pelecinoabaccha gracilitas* Miranda.  
Paratypes: 1♂, Colombia; 1♀, Brazil.
- Pelecinoabaccha invisibilis* Miranda in Miranda et al., 2014, Zootaxa 3819: 49. BRAZIL.  
Holotype ♂: Petropolis R. Ueter/ Frank M. Hull Collection C.N.C. 1973/ sp.- [handwritten] Det. F.M.Hull/ CNC DIPTERA # 161196/ Holotype *Pelecinoabaccha invisibilis* Miranda.  
Paratypes: 1♂, Brazil; 1♂, from unknown locality.  
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Pelecinoabaccha morgani* Miranda in Miranda et al., 2014, Zootaxa 3819: 56. BOLIVIA.  
Holotype ♂: Rurrenabaque BeniBolivia WMMann/ Nov/ Mulford BioExpl 1921–22/ Frank M. Hull Collection C.N.C. 1973/ CNC DIPTERA # 161216/ Holotype *Pelecinoabaccha morgani* Miranda.  
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.
- Pelecinoabaccha portachueloi* Miranda in Miranda et al., 2014, Zootaxa 3819: 67. VENEZUELA.  
Holotype ♂: VEN: Carabobo, Henri Pitier Natl. Park, Portachuelo pass, 10°20'51"N 67°41'16"W, 1143m., 13.IX.2008, col. Jeff Skevington/ J.
- Skevington Specimen # 25140/ HOLOTYPE  
*Pelecinoabaccha portachueloi* Miranda/ Holotype *Pelecinoabaccha portachueloi* Miranda.  
Remarks: The holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Pelecinoabaccha pucallpa* Miranda in Miranda et al., 2014, Zootaxa 3819: 68. PERU.  
Holotype ♂: Pucallpa, Peru J.Shunke Nov.18,1947/ Frank M. Hull Collection C.N.C. 1973/ CNC Diptera # 161211/ Holotype *Pelecinoabaccha pucallpa* Miranda.  
Remarks: Holotype with right foreleg mounted on point and genitalia stored in plastic microvial pinned below specimen.
- Pelecinoabaccha seara* Miranda in Miranda et al., 2014, Zootaxa 3819: 69. BRAZIL.  
Holotype ♂: Nova Teutonia 27°11'S, 52°23'W Brazil, 300-500m 2.X.1961 Fritz Plaumann/ CNC Diptera # 161186/ Holotype *Pelecinoabaccha seara* Miranda  
Paratypes: 2♂♂, Brazil.  
Remarks: Holotype with left foreleg and genitalia stored in separate plastic microvials pinned below specimen.
- Pelecinoabaccha squamagula* Miranda in Miranda et al., 2014, Zootaxa 3819: 70. BRAZIL.  
Holotype ♀: Nova Teutônia 27°11'S, 52°23'W Brazil, 300-500m XI.1969 Fritz Plaumann/ CNC Diptera #161166/ HOLOTYPE *Pelecinoabaccha squamagula* Miranda/ Holotype *Pelecinoabaccha squamagula* Miranda.  
Paratypes: 5♂♂, Brazil; 1♀, Bolivia.  
Remarks: Holotype with left foreleg and genitalia stored in separate plastic microvials pinned below specimen.
- Pelecinoabaccha vesca* Miranda in Miranda et al., 2014, Zootaxa 3819: 82. PERU.  
Holotype ♀: Quincemil Cuzco, PERU 13–31.VIII.'62 L. Pena. 780m./ CNC Diptera # 161201/ Holotype *Pelecinoabaccha vesca* Miranda.  
Paratypes: 4♂♂, 2♀♀, Peru; 1♂, Venezuela.
- Pelecinoabaccha 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 *Pelecinoabaccha wyatti* Miranda.  
Remarks: Holotype with left foreleg and genitalia stored in separate plastic microvials pinned below specimen.
- Pipiza subinflatifrons* Coovert, 1996, Bull. Ohio Biol. Surv. 11(3): 61. CANADA.  
Holotype ♂: Summit Lake , B.C. Mi392 Alaska Hwy 25. VI. 1959 5000' R.E. Leech/ HOLOTYPE ♂  
*Pipiza subinflatifrons* Coovert/ CNC DIPTERA# 48501.  
Allotype ♀: Same data as holotype except with allotype label and CNC DIPTERA# 48494 .

- Paratypes: 2♂♂, 2♀♀, Colorado; 2♂♂, Alaska; 2♀♀, British Columbia; 1♀, Saskatchewan; 1♀, New Mexico.  
Remarks: Holotype genitalia stored in plastic microvial pinned below specimen.
- Psilota shewelli* Thompson, 2012, Can. Ent. 144: 6. NEPAL.  
Holotype ♀: NEPAL nr. Birganj Lothar 450 ft. 11 Sept. 67 Can. Nepal Exped./ Holotype *Psilota shewelli* Thompson 2010/ CNC DIPTERA # 143859.
- Relictanum adpersitum* Miranda in Miranda et al., 2014, Zootaxa 3819: 87. BRAZIL.  
Holotype ♀: Fazenda Pau D'Alho 80 km N.W. Sao Paulo 28–29.X.1972 BRAZIL R.V. Peterson/ CNC DIPTERA # 161188/ Holotype *Relictanum adpersitum* G.F.G. Miranda.  
Paratypes: 1♂, 1♀, Brazil.
- Relictanum magisadpersum* Miranda in Miranda et al., 2014, Zootaxa 3819: 94. VENEZUELA.  
Holotype ♂: VENEZUELA: CARABOBO: Henri Pitier National Park, Portachuelo Pass 15.ix.2008; 10°20'51"N, 67°41'16"W J.Skevington; 1143 m/ J.Skevington Specimen # 25218/ Holotype *Relictanum magisadpersum* G.F.G. Miranda  
Paratype: 1♂, Costa Rica.  
Remarks: Holotype head, right wing and left midleg point-mounted directly below specimen.  
Terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Rhopalosyrphus robustus* Reemer in Reemer & Ståhls, 2013, ZooKeys 288: 120. NEPAL.  
Holotype ♀: FRENCH GUYANA. Patawa, 4°32.658'N -52°9.132'W VIII.2008. Malaise trap in pine forest. Leg. O. Morvan/ J. Skevington mol. specimen no JS3616 - CNC coll./ Voucher code M. Reemer 271 DNA voucher labcode MZH:Y1066.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Rhopalosyrphus teskeyi* Thompson, 2012, Can. Ent. 144: 8. ARGENTINA.  
Holotype ♂: Argent. Salta Rio Juramento, 60km. S. Guemes 18.X.68. Pena/ CNC DIPTERA # 183446/ Holotype *Rhopalosyrphus teskeyi* Thompson 2010.
- Sericomyia vockerothi* Skevington in Skevington & Thompson, 2012, Can. Ent. 144: 225. CANADA.  
Holotype ♂: Sheldon L., Y.T. 131°6', 62°40' 3000' 21.VII.60 J.E.H. Martin/ CNC DIPTERA # 35752/ *Sericomyia vockerothi* Skevington & Thompson HOLOTYPE.  
Paratypes. 1♂, Alberta; 1♂, Northwest Territories; 2♀♀, Quebec; 1♀, Yukon Territory.
- Sericomyia woodi* Nielsen & Vockeroth, 2000, Dipteron 3: 137. CANADA.  
Holotype ♂: N.W.T. -21 m.e. Tuktoyaktuk 8-12.VII.71 D.M. Wood/ CNC DIPTERA # 30847/ *Sericomyia woodi* Nielsen & Vockeroth, 2000 HOLOTYPE Nielsen & Vockeroth design.
- Allotype ♀: Reindeer Depot, Mackenzie Delta 12.VII 1948 J.R. Vockeroth/ *Sericomyia woodi* Nielsen & Vockeroth, 2000 ALLOTYPE Nielsen & Vockeroth design/ CNC DIPTERA # 30848.  
Paratypes: 5♂♂, Northwest Territories; 10♂♂, Yukon Territory.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Sphiximorpha mc Alpinei* Thompson, 2012, Can. Ent. 144: 4. MEXICO.  
Holotype ♂: 24mi. W. La Cuidad Dgo. MEX. 7000' July 17 1964, J.F. McAlpine/ 76-32 Det. F.C. Thompson 19/ Holotype *Sphiximorpha mc Alpinei* Thompson 2010/ CNC DIPTERA 183396.
- Stipomorpha dichromata* Reemer, 2013, Zootaxa 3697: 47. BRAZIL.  
Holotype ♀: Nova Teutonia 27°11'S-52°23'W Brazil, 300-500 m. XI.1969 Fritz Plaumann.  
Remarks: Type not yet deposited in the CNC; label data taken from published description.
- Syrphus pauxillus* Williston, 1887, U. S. Natl. Mus. Bull. 31: 74. USA.  
Neotype ♂: USA:UT:Wasatch-CacheNF: Tony Grove Lake; 41.893136°N, 111.641841°W; 1.vii.2010; M.M.Locke/ J. Skevington Specimen # 24616 NEOTYPE *Syrphus pauxillus* Williston/ designated by Locke & Skevington 2013.  
Remarks: Neotype designated by Locke & Skevington (2013: 60).
- Syritta unicolor* Lyneborg & Barkemeyer, 2005, Entomogr. 15: 75. UGANDA.  
Holotype ♀: Entebbe, UGANDA 10.VI. 1972 H. Falke Mal. tr./ HOLOTYPE *Syritta unicolor* ♀ Lyneborg & Barkemeyer det.: Lbg & Bkm 2003.  
Paratypes: 1♀, Uganda; 1♀, Cameroon.
- Syritta vockerothi* Lyneborg & Barkemeyer, 2005, Entomogr. 15: 120. UGANDA.  
Holotype ♂: Entebbe, UGANDA 13. VI. 1972 H. Falke In forest/ *Syritta hirtipes* Cn. Det. J.R. Vockeroth/ 4. 74 ♂ hirta Cn./ HOLOTYPE *Syritta* ♂ vockerothi Lyneborg & Backemeyer 200 det.: Lbg & Bkm 2003.  
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. BRAZIL.  
Holotype ♂: BRAZIL. Santa Catarina: Nova Teutônia, male, XI/1969, F. Plaumann.  
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. BRAZIL.  
Holotype ♂: FS30/ Est. Biol. Boraceia Salesopolis, S.P. BRAZIL 14-19-X-1970/ J.W. Boyes & J.H. Guimaraes/ Boyes Cytolog. Coll. # FS30 To remain in C.N.C./ HOLOTYPE *Toxomerus paraduplicatus*/ CNC DIPTERA # 232136.

Paratypes: 9♂, 3♀, Brazil.

#### TABANIDAE

- Apatolestes philipi* Pechuman, 1985, Myia 3: 361. USA.  
 Holotype ♀: Big Bend N.P. TEX. Dugout Wells 3000'  
 May 13 1959 J.F. McAlpine/ HOLOTYPE  
*Apatolestes philipi* ♀ L.L. Pechuman/ CNC  
 DIPTERA # 239482.  
 Allotype ♂: Big Bend N.P. TEX. Dugout Wells 3000'  
 May 13 1959 J.F. McAlpine/ ALLOTYPE  
*Apatolestes philipi* ♂ L.L. Pechuman  
 Paratypes: 1♂, 2♀, Texas.

#### TACHINIDAE

- Anetia flavipalpis* Reinhard, 1934, Bull. Brooklyn ent. Soc. 29:  
 187. USA.  
 Holotype ♀: College Station Apr. 27, 1930 Tex/ H.J.  
 Reinhard Collector/ HOLOTYPE *Anetia*  
*flavipalpis* Reinhard/ *Anetia flavipalpis* det. H.J.  
 Reinhard Rein/ *Opsomeigenia flavipalpis* R Rnh.
- Belvosia ansata* Reinhard, 1951, Bull. Brooklyn ent. Soc. 46: 2.  
 MEXICO.  
 Holotype ♂: Guadalajara, Mich. Aug. 27, 1947/ F. A.  
 Cowan M. R. Wheeler Collectors/ HOLOTYPE  
*Belvosia ansata* Reinhard/ *Belvosia ansata* R.  
 Rnh.  
 Allotype ♀: Same data as holotype except for allotype  
 label.  
 Paratypes: 9♂♂, 1♀, Mexico.
- Belvosia auratilis* Reinhard, 1951, Bull. Brooklyn ent. Soc. 46: 1.  
 MEXICO.  
 Holotype ♂: Guadalajara, Mich. Aug. 27, 1947/ F. A.  
 Cowan M. R. Wheeler Collectors/ HOLOTYPE  
*Belvosia auratilis* Reinhard/ *Belvosia auratilis* R.  
 Rnh.  
 Allotype ♀: Same data as holotype except for allotype  
 label.  
 Paratypes: 2♂♂, 5♀♀, Mexico.
- Belvosia canadensis* Curran, 1927, Bull. Brooklyn ent. Soc. 22:  
 152. CANADA.  
 Holotype ♂: Piapoto Reserve 4.7.08/ TYPE *Belvosia*  
 [sic] *canadensis* Curran No. 2291.  
 Allotype ♀: Calgary Alta. Sep 2 1922/ 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 ♂: Matamoros, Pueb. Sept. 8, 1947/ F. A.  
 Cowan M. R. Wheeler Collectors/ HOLOTYPE  
*Belvosia matamorosa* Reinhard/ *Belvosia*  
*matamorosa* R. Rnh.
- Belvosia splendens* Curran, 1927, Bull. Brooklyn ent. Soc. 22: 153.  
 CANADA.  
 Holotype ♂: Sask./ TYPE ♂ *Belvosia* [sic] *splendens*  
 Curran No. 2292.

Allotype ♀: Baldur, Man. 11 VII 1925 R.D.Bird/ TYPE  
 ♀ *Belvosia* [sic] *splendens* Curran No. 2292.  
 Paratypes: 1♀, Manitoba; 1♂, Saskatchewan.

- Belvosia villaricana* Reinhard, 1951, Bull. Brooklyn ent. Soc. 46:  
 4. PARAGUAY.  
 Holotype ♀: Villarica, Para-guay I 1939 F. Schade  
 Coll./ HOLOTYPE *Belvosia villaricana* Reinhard/  
*Belvosia villaricana* R. Rnh.
- Bonellimyia tessellata* Brooks, 1944, Can. Ent. 76: 198.  
 CANADA.  
 Holotype ♂: Holo TYPE ♂ *Bonellimyia tessellata* No.  
 Brks 5397/ Petite Riviere, N.S. 18-vii.1935  
 J.McDunnough.  
 Allotype ♀: Aylmer, Que. 28.IX.1924 C.H.Curran/  
 Allotype ♀ *B. tessellata* Brks No. 5397.  
 Paratypes: 2♂♂, 1♀, Nova Scotia; 5♂♂, 2♀♀, New  
 Brunswick; 2♂♂, 1♀, Quebec; 3♂♂, 2♀♀,  
 Ontario; 2♀♀, Saskatchewan; 6♂♂, 4♀♀,  
 Alberta; 2♂♂, British Columbia; 5♂♂, Vermont;  
 1♂, Washington; 1♂, Idaho; 1♂, New Hampshire;  
 1♂, Colorado; 1♀, Massachusetts; 1♀,  
 Tennessee.  
 Remarks: This species was incorrectly listed under the  
 genus *Linnaemyia* by Cooper and O'Hara (1996:  
 46).
- Carcelia kowarzi* Villeneuve, 1912, Feuille des Jeunes Naturalistes  
 42 [= ser. 5, 2]: 90. FRANCE.  
 Syntype: 1♂  
 ♂: Pyrenees S. France/ ♂ 1783/ *Phaleneria* Rond./  
 différent par des paralobes - la force des soies  
 scutellaires apicales par la coloration J.  
 Villeneuve vid./ *kowarzi* Cotyp. Villen./ *Carcelia*  
*kowarzi* [sic] Villen. L.P. Mesnil det., 1969/  
 CNC Syntype *Carcelia kowarzi* Villeneuve Label  
 affixed 2002/ EX L.-P. MESNIL COLLECTION  
 1970.
- Carceliocephala simillima* Thompson, 1963, Studia ent. 6: 327.  
 TRINIDAD.  
 Lectotype ♀: Maracas V. Trinidad, BWI. Nov-11-1952/  
 Collector F.J. Simmonds/ 929/ 2/ *Carceliocephala*  
*simillima* nsp/ LECTOTYPE ♀ of  
*Carceliocephala simillima* Thomps. designated  
 2014 by D.M. Wood.  
 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.  
 Holotype ♂: USA AZ Huachuca Mtns. Ramsey Cyn.  
 Hamburg trail 11.viii.99 31°26.3'N 110°19.2'W  
 ca. 6300' J.E. O'Hara/ HOLOTYPE *Chrysotachina*  
*auriceps* O'Hara.  
 Allotype ♀: Same data as holotype except with 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.  
 Holotype ♂: USA NC Pisgah N.F. east of Edgemont nr. Mortimer campgrd. 36°01.9'N 81°48.2'W 25-26.v.99 J.E. O'Hara/ HOLOTYPE *Chrysotachina infrequens* O'Hara.  
 Allotype ♀: USA:VA, Augusta Co. G. Washington N.F. Plot 8 Lower Site 12 Jun 1995 Malaise Trap L. Butler & J. Strazanac coll./ ALLOTYPE *Chrysotachina infrequens* O'Hara.  
 Paratype: 1♂, Wyoming.
- Chrysotachina longipennis* O'Hara, 2002, *Studia dipterol. Suppl.* 10: 93. USA.  
 Holotype ♂: USA MD Calvert Co. Scientists Cliffs 38°31.0'N 76°30.8'W 24.ix.2000 D.M. Wood/ HOLOTYPE *Chrysotachina longipennis* O'Hara.  
 Paratypes: 3♂♂, 2♀♀, Florida; 2♀♀, South Carolina.
- Cordyligaster capellii* Fleming & Wood in Fleming et al., 2014b, *Biodivers. Data J.* 2: e4174: 6. COSTA RICA.  
 Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0006938/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 06-SRNP-30780/ CR:Guanacaste,ACG Sec. Pitilla, Amonias 11.04249, -85.40339 390 m 02/20/2006 Coll:Manuel Rios/ Holotype *Cordyligaster capellii* Fleming & Wood, 2014.  
 Paratypes: 4♂♂, 4♀♀, 1 partial specimen (sex unknown), Costa Rica.
- Dolichocolon mesnili* Cerretti & Shima, 2011, *Zool. J. Linnean Soc.* 162: 560. D. R. CONGO.  
 Holotype ♂: Congo belge Elisabethville 25.IX.1937 H.J. Brédo: n°32/ R. Mus. Hist. Nat. Belg. I.G. 12.798/ *Dolichocolon africanum* Mesn. L.P. Mesnil det., 1979/ ex L.-P. Mesnil collection 1985  
 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. Annl. Soc. r. ent. Belg.* 104: 176. VIETNAM.  
 Holotype ♂: INDOCHINE FRANÇAISE Nhatranget Saigon A. KREMPPT 1913/ *Dolichocolon vicinum* Mesnil L.P. Mesnil det., 1967/ TYPE/ HOLOTYPE ♂ of *Dolichocolon vicinum* Mesn. Examined 1970 R.W.Crosskey.  
 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.  
 Lectotype ♀: Amherst, Ohio July 1933/ H J Reinhard Collector/ HOLOTYPE *Doryphorophaga patrita* Reinhard/ *Doryphorophaga patrita* det. H.J.Reinhard Rein/ LECTOTYPE *Doryphorophaga patrita* Reinhard Fixation by Wood 1985 Label affixed 2004.  
 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 arciforceps* Inclán in Inclán & Stireman, 2013, *Zootaxa* 3621: 35. BRAZIL.  
 Holotype ♂: Nova Teutonia S. C.-BRAZIL Nov. 1970 F. Plaumann/ HOLOTYPE *Erythromelana arciforceps* Inclán D.J./ DI412CA.  
 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.  
 Holotype ♂: Nova Teutonia S. C.-BRAZIL June 1970 F. Plaumann/ HOLOTYPE/ *Erythromelana catarina* Inclán D.J./ DI392CA.  
 Paratypes: 2♂♂, Brazil.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Erythromelana convexiforceps* 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 convexiforceps* 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.  
 Holotype ♂: VENEZUELA Aragua Rancho Grande 18-27.II.1971 G.&M. Wood 1100 m/ HOLOTYPE *Erythromelana cryptica* Inclán D.J./ DI477CA.  
 Paratypes: 4♂♂, Venezuela; 3♂♂, Ecuador; 1♂, Bolivia; 2♂♂, Mexico.  
 Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Erythromelana curvifrons* Inclán in Inclán & Stireman, 2013, *Zootaxa* 3621: 23. ECUADOR.  
 Holotype ♂: Ecuador: Napo Prov. Yanayacu Biological Station, S 00°35.9' W 77°53.4', 2163 m REARED January 2006 11280/ HOLOTYPE *Erythromelana curvifrons* Inclán D.J.  
 Allotype ♀: Ecuador: Napo Prov. Yanayacu Biological Station, S 00°35.9' W 77°53.4', 2163 m REARED April 2006 14245/ ALLOTYPE *Erythromelana curvifrons* Inclán D.J.  
 Remarks: Puparium pinned below holotype.
- Erythromelana distincta* Inclán in Inclán & Stireman, 2013, *Zootaxa* 3621: 39. VENEZUELA.

- Holotype ♂: VENEZUELA Aragua 11 km Rancho Grande 25.II.1971 G.&M. Wood/ HOLOTYPE *Erythromelana distincta* Inclán D.J./ DI280CA.  
Allotype ♀: VENEZUELA Aragua 11 km Rancho Grande 25.II.1971 G.&M. Wood/ ALLOTYP E *Erythromelana distincta* Inclán D.J./ DI46CA.  
Paratypes: 1♂, 1♀, Venezuela; 1♂, Ecuador; 3♂♂, Peru; 7♂♂, 13♀♀ Peru.  
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.  
Allotype ♀: Ecuador: Napo 7 km. S Baeza 20–25. II. 79 G. & M. Wood 2000 m/ ALLOTYP E *Erythromelana ecuadoriana* Inclán D.J./ DI06CA.  
Remarks: Puparium of holotype stored in glycerine in a microvial pinned below specimen.
- Erythromelana eois* Inclán in Inclán & Stireman, 2013, Zootaxa 3621: 27. ECUADOR.  
Holotype ♂: Ecuador: Napo Prov. Yanayacu Biological Station, S 00°35.9' W 77°53.4' 2163 M, 27–May–2 Jun 2005 J.O. Stireman III/ HOLOTYPE *Erythromelana eois* Inclán D.J./ DI5+6+2a.  
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/ ALLOTYP E *Erythromelana eois* Inclán D.J.  
Paratype: 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.  
Holotype ♂: COSTA RICA Pnts Monteverde, EBM 20–30.VIII.1997 D.M. Wood 1500 m/ HOLOTYPE *Erythromelana leptoforceps* Inclán D.J./ DI1184MW.  
Allotype ♀: COSTA RICA Pnts Monteverde, EBM 20–30.VIII.1997 D.M. Wood 1500 m/ ALLOTYP E *Erythromelana leptoforceps* Inclán D.J./ DI1186MW.  
Paratypes: 5♂♂, 2♀♀, Costa Rica; 34♂♂, 18♀♀, Brazil; 1♂, Peru.
- 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.  
Holotype ♂: COSTA RICA Pnts Monteverde 28.VIII.1993 D.M. Wood 1842 m/ HOLOTYPE *Erythromelana woodi* Inclán D.J./ DI208MW.  
Allotype ♀: COSTA RICA Pnts Monteverde 1600 m 18–24.VIII.1987 G. & M. Wood/ ALLOTYP E *Erythromelana woodi* Inclán D.J./ DI210MW.  
Paratypes: 1♂, 2♀♀, Mexico; 1♀, Costa Rica; 1♂, 1♀, Ecuador; 1♂, 1♀, Bolivia.
- Eucelatoria flava* Inclán & Stireman, 2014, ZooKeys 464: 79. ECUADOR.  
Holotype ♂: ECUADOR, Napo 7 km. s. Baeza 20–25.II.79 G. & M. Wood 2000m/ HOLOTYPE *Eucelatoria flava* Inclán & Stireman/ DI244CA.  
Paratype: 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.  
Lectotype ♂: HOLOTYPE *Eumacrohoughia minor* Thomp. CNC No. 9791/ Brazil II.18.61. Trinidad. BWI/ CNC Syntype *Eumacrohoughia minor* Thompson Label affixed 1994/ LECTOTYP E ♂ of *Eumacrohoughia minor* Thompson designated 2014 by D.M. Wood.  
Paralectotype: 1♀, Trinidad.  
Remarks: This entry updates the listing in Cooper & O'Hara (1996) in light of the designation of a lectotype for *Eumacrohoughia minor* Thompson by Wood in Fleming et al. (2014: 13).
- Euthera woodi* O'Hara, 2012, Can. Ent. 144: 212. USA.  
Holotype ♂: USA NM Torrance Co. ca. 9mi. s. Cedarvale North Peak, hilltop 34°16.4'N 105°43.5'W 7400' 7.viii.2007 J.E. O'Hara/ HOLOTYPE *Euthera woodi* O'Hara.  
Paratype: 1♂, New Mexico.
- Exorista thula* Wood in Morewood & Wood, 2002, Polar Biol. 25: 576. CANADA.  
Holotype ♂: Hazen Camp, NWT 81°49'N, 71°18'W 14.VII.1963 NE. 1001-77 D.R. Oliver/ HOLOTYPE *Exorista thula* Wood.  
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.  
Holotype ♂: USA NM Grant Co. 14mi.n.Silver City Cherry Crk. campgrd. 32°54.8'N 108°13.6'W 7400' 16-19.viii.1999 Malaise J.E. O'Hara/ HOLOTYPE *Exoristoides sabroskyi* O'Hara.  
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.  
Neotype ♂: NeoTYPE G. sagax Tns. No.406./ MiddlesxCo IV-6 NJ/ SLIDE F.O.M No. 30. (S).  
Remarks: A neotype was designated by Tothill (1924a: 200) and its presence in the CNC listed by Cooper & O'Hara (1993: 40). However, the neotype is invalid because the original holotype is extant in the Snow Entomological Museum, University of Kansas.
- Gymnostylia minor* Villeneuve, 1913, Revue zool. afr. 3: 37. KENYA.  
Syntype: 1♂.  
♂: Brit. E. Africa Kericho, 6500ft. Nyanza Prov. 27.XI.1911 C.M. Dobbs/ 31 C.M.D./ Gymnostylia Dr. Villeneuve det. minor Typ. Villen./ TYPE.
- Fabriciella latifrons* Tothill, 1924b, Can. Ent. 56: 260, 269. CANADA.  
Lectotype ♂: N. W. T. CAN./ HoloTYPE F. latifrons Tothill No. 811.  
Paralectotypes: 2♂♂, 2♀♀, Manitoba; 1♀, Northwest Territories; 1♀, Colorado.  
Remarks: The type of *latifrons* was cited as a holotype by Cooper and O'Hara (1996: 37), in error. Tothill did not designate a holotype in his original publication, nor did he cite the material upon which the species was based. Type information on *latifrons* Tothill was subsequently provided by Walley (1933: 168), but his mention of a "holotype" is here interpreted as a lectotype designation.
- Houghia aerata* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 32. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0011496/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 04-SRNP-33205/ CR:Guanacaste,ACG Sec. Pitilla, Pasmompa 11.01926, -8540997 440 m 06/09/2004 Coll:Petrona Rios/ Holotype Houghia aerata Fleming & Wood, 2014.  
Paratypes: 6♂♂, 7♀♀, Costa Rica.
- Houghia aurifera* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 34. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0019684/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 07-SRNP-55819/ CR:Guanacaste,ACG Sec. Mundo Nuevo, Vado Miramonte 10.77175, -85.434 305 m 04/15/2007 Coll:Jose Cortez/ Holotype Houghia aurifera Fleming & Wood, 2014.  
Paratypes: 28♂♂, 37♀♀, Costa Rica.
- Houghia biseriata* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 35. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0024455/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 08-SRNP-31164/ CR:Guanacaste,ACG Sec. Pitilla, Sendero Naciente 10.98705, -85.42816 700 m 04/30/2008 Coll:Manuel Rios/ Holotype Houghia biseriata Fleming & Wood, 2014.  
Paratypes: 26♂♂, 18♀♀, Costa Rica.
- Houghia bivittata* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 37. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0042656/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 11-SRNP-40016/ CR:Alajuela,ACG Sec. Rincon Rain For., Quebrada Escondida 10.89928, -85.27486 420 m 01/04/2011 Coll:Jose Perez/ Holotype Houghia bivittata Fleming & Wood, 2014.  
Paratypes: 9♂♂, 11♀♀, Costa Rica.
- Houghia blancoi* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 39. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0021839/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 07-SRNP-14997/ CR:Guanacaste,ACG Sec. Horizontes, Vado Esperanza 10.78938, -85.55098 85 m 09/01/2007 Coll:Johan Vargas/ Holotype Houghia blancoi Fleming & Wood, 2014.  
Paratypes: 14♂♂, 17♀♀, Costa Rica.
- Houghia brevopilosa* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 40. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0006994/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 06-SRNP-12174/ CR:Guanacaste,ACG Sec. Santa Rosa, Vado Cuajiniquil 10.94041, -85.68043 275 m 02/15/2006 Coll:Freddy Quesada/ Holotype Houghia brevopilosa Fleming & Wood, 2014.  
Paratypes: 34♂♂, 16♀♀, Costa Rica.
- Houghia chavarriae* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 42. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0008127/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 05-SRNP-15809/ CR:Guanacaste,ACG Sec. Santa Rosa, Bosque San Emilio 10.84389, -85.61384 300 m 06/06/2005 Coll:Ruth Franco/ Holotype Houghia chavarriae Fleming & Wood, 2014.  
Paratypes: 82♂♂, 89♀♀, Costa Rica.
- Houghia confinis* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 43. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0046632/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 11-SRNP-32946/ CR:Guanacaste,ACG Sec. Pitilla, Sendero Laguna 10.9888, -85.42336 680 m 09/28/2011 Coll:Freddy Quesada/ Holotype Houghia confinis Fleming & Wood, 2014.  
Paratypes: 8♂♂, 10♀♀, Costa Rica.

*Houghia delospilota* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 47. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0008837/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 00-  
SRNP-2271/ CR:Guanacaste,ACG Sec. El Hacha,  
Sendero Bejuquilla 11.03004, -85.52699 280 m  
02/30/2000 Coll:gusaneros/ Holotype Houghia  
delospilota Fleming & Wood, 2014.  
Paratypes: 38♂♂, 49♀♀, Costa Rica.

*Houghia destituta* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 48. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0030015/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 08-  
SRNP-42215/ CR:Alajuela,ACG Sec. Rincon  
Rain For., Sendero Venado 10.89678, -85.27001  
420 m 11/17/2008 Coll:Anabelle Cordoba/  
Holotype Houghia destituta Fleming & Wood,  
2014.  
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/  
DHJPAR0019206/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 04-  
SRNP-49918/ CR:Guanacaste,ACG Sec. Cacao,  
Quebrada Heliconia 10.88585, -85.49222 390 m  
12/25/2004 Coll:Manuel Pereira/ Holotype  
Houghia fimbriata Fleming & Wood, 2014.  
Paratypes: 22♂♂, 21♀♀, Costa Rica.

*Houghia gracilis* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 51. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0008435/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 02-  
SRNP-2554/ CR:Alajuela,ACG Sec. San  
Cristobal, Sendero Perdido 10.8794, -85.38607  
620 m 03/16/2004 Coll:Anabelle Cordoba/  
Holotype Houghia gracilis Fleming & Wood,  
2014.  
Paratypes: 67♂♂, 34♀♀, Costa Rica.

*Houghia graciloides* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 53. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0038672/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 10-  
SRNP-65036/ CR:Alajuela,ACG Sec. Brasilia,  
Moga 11.01227, -85.34929 320 m 02/16/2010  
Coll:Duvalier Briceño/ Holotype Houghia  
graciloides Fleming & Wood, 2014.  
Paratypes: 46♂♂, 69♀♀, Costa Rica.

*Houghia griseifrons* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 55. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0005549/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 06-  
SRNP-12341/ CR:Guanacaste,ACG Sec. Santa  
Rosa, Vado Cuajiniquil 10.94041, -85.68043 275  
m 01/17/2006 Coll:Guillermo Pereira/ Holotype  
Houghia griseifrons Fleming & Wood, 2014.  
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/  
DHJPAR0019777/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 07-  
SRNP-31329/ CR:Guanacaste,ACG Sec. Pitilla,  
Sendero Cueston 10.9945, -85.41461 640 m  
02/19/2007 Coll:Duvalier Briceño/ Holotype  
Houghia inflatipalpis Fleming & Wood, 2014.  
Paratypes: 51♂♂, 37♀♀, Costa Rica.

*Houghia latigena* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 58. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0008442/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 99-  
SRNP-5117/ CR:Alajuela,ACG Sec. San  
Cristobal, Potrero Argentina 10.89021, -85.38803  
520 m 05/05/1999 Coll:Gloria Shihezar/ Holotype  
Houghia latigena Fleming & Wood, 2014.  
Paratypes: 51♂♂, 35♀♀, Costa Rica.

*Houghia latilobus* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 59. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0049631/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 12-  
SRNP-71304/ CR:Guanacaste,ACG Sec. Pitilla,  
Medrano 11.01602, -85.38053 380 m 01/12/2012  
Coll:Ricardo Calero/ Holotype Houghia latilobus  
Fleming & Wood, 2014.  
Paratypes: 2♂♂, 7♀♀, Costa Rica.

*Houghia longicercus* Fleming & Wood in Fleming et al. 2014a,  
Zootaxa 3858: 61. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/  
DHJPAR0008473/ Voucher: D.H. Janzen & W.  
Hallwachs DB: <http://janzen.sas.upenn.edu> Area  
de Conservación Guanacaste COSTA RICA 03-  
SRNP-37152/ CR:Guanacaste,ACG Sec. Pitilla,  
Loaiciga 11.01983, -85.41342 445 m 12/01/2003  
Coll:Petrona Rios/ Holotype Houghia longicercus  
Fleming & Wood, 2014.  
Paratypes: 43♂♂, 43♀♀, Costa Rica.

*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.



- Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 03-SRNP-34763/ CR:Guanacaste,ACG Sec. Pitilla, Sendero Laguna 10.9888, -85.42336 680 m 12/24/2004 Coll:Calixto Moraga/ Holotype *Houghia longipilosa* Fleming & Wood, 2014.  
Paratypes: 118♂♂, 106♀♀, Costa Rica.
- Houghia luteiventris* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 64. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0036505/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 09-SRNP-22471/ CR:Guanacaste,ACG Sec. Del Oro, Canyon Rio Mena 10.99616, -85.45562 560 m 01/19/2009 Coll:Lucia Rios/ Holotype *Houghia luteiventris* Fleming & Wood, 2014.  
Paratypes: 10♂♂, 5♀♀, Costa Rica.
- Houghia macilenta* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 66. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0021031/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 07-SRNP-32683/ CR:Guanacaste,ACG Sec. Pitilla, Pasmompa 11.01926, -85.40997 440 m 07/19/2006 Coll:Manuel Rios/ Holotype *Houghia macilenta* Fleming & Wood, 2014.  
Paratypes: 20♂♂, 12♀♀, Costa Rica.
- Houghia marini* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 67. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0024511/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 08-SRNP-1948/ CR:Alajuela,ACG Sec. San Cristobal, Sendero Colegio 10.89296, -85.3788 520 m 04/09/2008 Coll:Elda Araya/ Holotype *Houghia marini* Fleming & Wood, 2014.  
Paratypes: 25♂♂, 29♀♀, Costa Rica.
- Houghia matarritai* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 69. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0030019/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 08-SRNP-42327/ CR:Alajuela,ACG Sec. Rincon Rain For., Sendero Venado 10.89678, -85.27001 420 m 12/08/2008 Coll:Jose Perez/ Holotype *Houghia matarritai* Fleming & Wood, 2014.  
Paratypes: 70♂♂, 74♀♀, Costa Rica.
- Houghia nigrofemur* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 71. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0024570/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 07-SRNP-24556/ CR:Guanacaste,ACG Sec. Del Oro, Margarita 11.03234, -85.43954 380 m 12/07/2007 Coll:Roster Moraga/ Holotype *Houghia nigrofemur* Fleming & Wood, 2014.  
Paratypes: 2♀♀, Costa Rica.
- Houghia ochrofemur* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 72. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0027919/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 08-SRNP-70777/ CR:Guanacaste,ACG Sec. Pitilla, Estacion Quica 10.99697, -85.39666 470 m 06/14/2008 Coll:Oscar Siezar/ Holotype *Houghia ochrofemur* Fleming & Wood, 2014.  
Paratypes: 5♂♂, 6♀♀, Costa Rica.
- Houghia omissa* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 74. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0018946/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 04-SRNP-30377/ CR:Guanacaste,ACG Sec. Pitilla, Ingas 11.00311, -85.42041 580 m 01/23/2004 Coll:Petrona Rios/ Holotype *Houghia omissa* Fleming & Wood, 2014.  
Paratypes: 10♂♂, 16♀♀, Costa Rica.
- Houghia pallida* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 75. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0008432/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 05-SRNP-683/ CR:Alajuela,ACG Sec. San Cristobal, Sendero Colegio 10.89296, -85.3788 520 m 02/12/2005 Coll:Carolina Cano/ Holotype *Houghia pallida* Fleming & Wood, 2014.  
Paratypes: 35♂♂, 27♀♀, Costa Rica.
- Houghia parmata* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 77. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0027895/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 08-SRNP-71101/ CR:Guanacaste,ACG Sec. Pitilla, Leonel 10.99637, -85.40195 510 m 07/04/2008 Coll:Mauricio Siezar/ Holotype *Houghia parmata* Fleming & Wood, 2014.  
Paratypes: 2♂♂, 5♀♀, Costa Rica.
- Houghia pilosifrons* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 78. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0037559/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 09-SRNP-69792/ CR:Alajuela,ACG Sec. Rincon Rain For., Jacobo 10.94076, -85.3117 461 m 08/13/2009 Coll:Noe Castillo/ Holotype *Houghia pilosifrons* Fleming & Wood, 2014.  
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.

- Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 08-SRNP-24490/ CR:Guanacaste,ACG Sec. El Hacha, Estacion Los Almendros 11.03226, -85.52776 290 m 11/25/2008 Coll:Lucia Rios/ Holotype *Houghia romeroae* Fleming & Wood, 2014.  
Paratypes: 1♂, 3♀♀, Costa Rica.  
Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Houghia sexmaculata* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 81. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0019227/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 02-SRNP-29724/ CR:Guanacaste,ACG Sec. El Hacha, Finca Araya 11.01541, -85.51125 295 m 10/09/2002 Coll:Manuel Pereira/ Holotype *Houghia sexmaculata* Fleming & Wood, 2014.  
Paratypes: 20♂♂, 25♀♀, Costa Rica.
- Houghia spathulata* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 82. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0008830/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 03-SRNP-25/ CR:Guanacaste,ACG Sec. Santa Elena, Vado Descanso 10.86336, -85.72535 70 m 01/05/2003 Coll:Guillermo Pereira/ Holotype *Houghia spathulata* Fleming & Wood, 2014.  
Paratypes: 4♂♂, 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, Zootaxa 3858: 84. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0048572/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 11-SRNP-33590/ CR:Guanacaste,ACG Sec. Pitilla, Ingas 11.00311, -85.42041 580 m 12/05/2011 Coll:Freddy Quesada/ Holotype *Houghia triangularis* Fleming & Wood, 2014.  
Paratypes: 3♂♂, 2♀♀, Costa Rica.
- Houghia velutina* Fleming & Wood in Fleming et al. 2014a, Zootaxa 3858: 85. COSTA RICA.  
Holotype ♂: LEGS AWAY FOR DNA/ DHJPAR0035853/ Voucher: D.H. Janzen & W. Hallwachs DB: <http://janzen.sas.upenn.edu> Area de Conservación Guanacaste COSTA RICA 09-SRNP-69334/ CR:Alajuela,ACG Sec. Rincon Rain For., Jacobo 10.94076, -85.3177 461 m 06/17/2009 Coll:Keiner Aragon/ Holotype *Houghia velutina* Fleming & Wood, 2014.  
Paratypes: 5♂♂, 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.
- Linnaemyia zimini* Mesnil, 1963, Bull. Inst. roy. Sci. nat. Belg. 39: 35. JAPAN.  
Holotype ♂: Sapporo 17-[illegable]. 1955 K. Kamijo/ *Linnaemyia zimini* n.sp. L.P. Mesnil det., 1962/ TYPE/ *Linnaemyia bella* Mesnil L.P. Mesnil det., 1970/ EX L.-P. MESNIL COLLECTION 1970.
- Lypha cristiverpa* O'Hara, 2002, Studia dipterol. Suppl. 11: 106. CANADA.  
Holotype ♂: Canada, Quebec 10km.n.Eardley 6.v.2001 D.M. Wood/ HOLOTYPE *Lypha cristiverpa* O'Hara.  
Allotype ♀: Metcalfe, ONT. 7.v.1994/ B.E. Cooper/ ALLOTYPE *Lypha cristiverpa* O'Hara.  
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.
- Macquartia pegomyioides* Richter & Wood, 1995, Acta zool. fenn. 199: 42. CANADA.  
Holotype ♂: Herschel Is. Y.T. 28-29.VI.71 D.M. Wood/ *Macquartia arctica* ♂ Det. D.M. Wood 1969/ HOLOTYPE *Macquartia pegomyioides* Richter & Wood CNC No. 22105.  
Allotype ♀: Same data as holotype except with allotype label.  
Paratypes: 6♂♂, 35♀♀, Yukon Territory; 2♀♀, Russia.
- Macquartia plumbea* Richter & Wood, 1995, Acta zool. fenn. 199: 42. CANADA.  
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 ♀ *Micronychia woodi* O'Hara.  
Allotype ♀: Mounted on the same pin as holotype.  
Paratypes: 42♂♂, 1♀, Yukon Territory.
- Myiocera fulvo-testacea* Villeneuve, 1943, Revue Zool. Bot. afr. 37: 95. SOUTH AFRICA.  
Holotype ♂: Marley Durban 12-19/ fulvo-testacea Type Villen./ *Myiocerops* (Africodexia) fulvo-testacea Type Villen./ TYPE.
- Myiocera longilingua* Villeneuve, 1943, Revue Zool. Bot. afr. 37: 95. TANZANIA.  
Holotype ♂: Kibati mai 1916/ *Myiocera longirostris* Typ. Villen./ *Dinera longilingua* Vill. L.P. Mesnil det., 1980/ TYPE.
- Myiocera suffulva* Villeneuve, 1943, Revue Zool. Bot. afr. 37: 96. RHODESIA.  
Syntype: 1♂.  
♂: GOTA GOTA URUNGWE Dept. Agric. S. Rhodesia 17/9/1938/ W.L. Williams Collector/

- Coll. 8646/ IMP INST. ENTOM/ Myiocerops  
suffulva Typ. Villen./ TYPE.
- Myiopharus neilli* O'Hara, 2007, Zootaxa 1521: 34. CANADA.  
Holotype ♂: Canada Manitoba Lowe Farm 49°21'N  
97°35'W G.B. Neill/ ex. adult of *Zygogramma  
exclamationis* coll. 9.viii.1977/ HOLOTYPE  
Myiopharus neilli O'Hara.  
Allotype ♀: Canada Manitoba Rosenfeld 49°12'N  
97°33'W G.B. Neill/ ex. adult of *Zygogramma  
exclamationis* coll. viii.1977/ ALLOTYPE/  
Myiopharus neilli O'Hara.  
Paratypes: 22♂♂, 14♀♀, Manitoba; 1♀, Colorado;  
7♀♀, North Dakota; 1♀, South Dakota.
- Neothelaira pusilla* Reinhard, 1953, Proc. ent. Soc. Wash. 55: 244.  
USA.  
Holotype ♀: Atherton VIII-4-54 Mo./ HOLOTYPE  
Neothelaira pusilla Reinhard/ Aporotachina  
pusilla R Rnh./ Neothelaira pusilla R. Rnh.
- Nigrilypha gnoma* O'Hara, 2002, Studia dipterol. Suppl. 10: 125.  
USA.  
Holotype ♂: USA NM Torrance Co. Manzano Mtns.,  
8mi. w. Tajique, 4th of July campgrd. 7500' 11-  
12. viii.1993 J.E. O'Hara/ HOLOTYPE  
Nigrilypha gnoma O'Hara.  
Allotype ♀: USA NM Grant Co. 14mi. n. Silver City  
Cherry Crk. campgrd. 32°54.8'N 108°13.6'W 15-  
16.viii.1999 7400' J.E. O'Hara/ ALLOTYPE  
Nigrilypha gnoma O'Hara.  
Paratypes: 1♂, Arizona; 6♂♂, 6♀♀, New Mexico.
- Ostracophyto flavicaudalis* O'Hara, 2002, Studia dipterol. Suppl.  
10: 138. USA.  
Holotype ♂: Durham, NH VIII-20-1962/ Black light  
trap/ HOLOTYPE Ostracophyto flavicaudalis  
O'Hara.
- Pararchytas apache* Woodley, 1998, Proc. ent. Soc. Wash. 100:  
414. USA.  
Holotype ♂: USA NM Grant Co. Cherry Ck. campgrd.  
14mi. n. Silver City 15-16.viii.1993 7400' J.E.  
O'Hara/ Holotype ♂ Pararchytas apache  
N.E. Woodley 1997.  
Allotype ♀: USA N.M. Grant Co. Gila Nat. For. Cherry  
Ck. Campgrd. 21km. n. Silver City 2250m. 3-  
4.VIII.1980 J.E. & W.M. O'Hara/ Allotype ♀  
Pararchytas apache N.E. Woodley 1997.  
Paratypes: 5♂♂, 5♀♀, Arizona; 31♂♂, 7♀♀, New  
Mexico.
- Pararchytas hammondi* Brooks, 1945, Can. Ent. 77: 80.  
CANADA.  
Holotype ♂: Avonmore, Ont. 13.VII. 1939  
G.H.Hammond/ Holotype ♂ Pararchytas  
hammondi No. Brks 5516.  
Allotype ♀: Same data as holotype except with allotype  
label.  
Paratypes: 34♂♂, 8♀♀, Ontario.
- Parerigone flavipes* Shima, 2011, Can. Ent. 143: 683. NEPAL.  
Holotype ♂: Nepal, 28°00'N 85°00'E, 10,500 ft.,  
31.v.1967, Malaise trap.  
Remarks: Type not yet deposited in the CNC; label data  
taken from published description.
- Phasia malaisei* Sun in Sun & Marshall, 2003, Zootaxa 276: 53.  
MYANMAR.  
Holotype ♀: N. E. BURMA Kambaiti 7000 ft. 2.V.1934  
R. MALAISE/ EX L.-P. MESNIL COLLECTION  
1986/ HOLOTYPE Phasia malaisei Xuekui SUN  
1995.  
Remarks: Right wing of holotype is glued to a plastic  
mount. Date of collection of holotype was  
published as "2.V.1924".
- Phasia siberica* Sun in Sun & Marshall, 2003, Zootaxa 276: 152.  
RUSSIA.  
Holotype ♀: U.S.S.R.: Siberia Novosibirsk Region  
Chany Lake Biological Station near Zdvansk, on  
flowers 1-5.vii.1991: S.A. Marshall/ HOLOTYPE  
Phasia siberica Xuekui SUN 1995.
- Phasia woodi* Sun in Sun & Marshall, 2003, Zootaxa 276: 190.  
MALAYSIA.  
Holotype ♂: Ng. Sekau, Ulu Oya, 3 Div., S'wak/ 19-  
12-1974 ex hill padi D. Munroe col./ Single - hill  
Sample SE- 1 -20/ HOLOTYPE Phasia woodi  
Xuekui SUN 1995.  
Allotype ♀: Same data as holotype except "Single - hill  
Sample SE - 6 - 14"/ "ALLOTYPE Phasia woodi  
Xuekui SUN 1995".  
Paratypes: 12♂♂, 17♀♀, Malaysia.

## TANYPEZIDAE

- Neotanypeza leucothrix* Lonsdale, 2013a, Smithson. Contr. Zool.  
641: 26. PERU.  
Holotype ♂: Quincemil Cuzco, PERU 1-15.XI.1962 L.  
Pena. 700m./ ♂ HOLOTYPE Neotanypeza  
leucothrix Lonsdale/ CNC 91517.
- Neotanypeza nigrithrix* Lonsdale, 2013a, Smithson. Contr. Zool.  
641: 29. PERU.  
Holotype ♂: Pasco, PERU 10°35'S, 75°35'W, 30-  
31.XII.1972 S. Helava 1700 m./ Return to C.N.C./  
♂ HOLOTYPE Neotanypeza nigrithrix Lonsdale/  
CNC 91520.

## TEPHRITIDAE

- Gymnocarena macalpinei* Norrbom, 2006, Instrumenta  
Biodiversitatis VII: 222. MEXICO.  
Holotype ♀: Mexico: Durango: Durango, 5 mi. W of,  
6500 ft., 10 Aug 1964, J.F. McAlpine.  
Remarks: Type not yet deposited in the CNC; label data  
taken from published description.
- Phacelochaeta obliqua* Norrbom in Norrbom et al., 2010, Zootaxa  
2398: 35. ECUADOR.  
Holotype ♂: (CNC USNMENT00213089),  
ECUADOR: Cañar: El Tambo, 2800 m, 4-7 Mar  
1965, L. E. Peña.  
Paratype: 1♀, Ecuador.  
Remarks: Types not yet deposited in the CNC; label  
data taken from published description.

*Trupanea fasciata* Norrbom & Neder, 2014, Zootaxa 3821: 452.

ARGENTINA.

Holotype ♀: ARGENTINA: Jujuy: Barrios S. La Quiaca, 3500 m, 31 Oct 1968, L. E. Peña, USNM ENT 00744480

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

*Trypeta bifasciata* Han & Norrbom, 2005, Syst. Ent. 30: 225. MEXICO.

Holotype ♀: 3 mi. E. El Salto Dgo. MEX. 8200' July 18 1964 J.F. McAlpine/ HOLOTYPE ♀ Trypeta bifasciata Han & Norrbom, 1992/ USNM ENT 00216048.

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

*Trypeta californiensis* Han & Norrbom, 2005, Syst. Ent. 30: 225. USA.

Holotype ♂: Lily Pond, Alpine Lk., Marin Co., Calif. 1500' 11.iv-9.v 1970 Mal. Tr. D.D. Monroe/ Trypeta maculosa (Coq.) det. R.H. Foote 1982/ HOLOTYPE ♂ Trypeta californiensis Han & Norrbom, 1992/ USNM ENT 00216047.

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

*Trypeta chiapasensis* Han & Norrbom, 2005, Syst. Ent. 30: 227. MEXICO.

Holotype ♂: MEXICO, Chiapas Mt. Tzontehuitz 9400' 12 mi.NE San Cristobal 27.V.1969 B.V. Peterson/ HOLOTYPE ♂ Trypeta chiapasensis Han & Norrbom, 1992/ USNM ENT 00216045.

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

*Trypeta flavifasciata* Han & Norrbom, 2005, Syst. Ent. 30: 235. MEXICO.

Holotype ♂: W. Side Cortes Pass 9500' Mexico, Mexico 13 - VIII - 1954 J.G. Chillcott/ HOLOTYPE ♂ Trypeta flavifasciata Han & Norrbom, 1992/ USNM ENT 00216020.

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

*Trypeta wulpi* Han & Norrbom, 2005, Syst. Ent. 30: 244. MEXICO.

Holotype ♂: 8 mi. W. El Palmito S in. MEX. 6000' July 15, 1964 J.F. McAlpine/ HOLOTYPE ♂ Trypeta wulpi Han & Norrbom, 1992/ USNM ENT 00215996.

Paratype: 1♀, Mexico.

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

#### THAUMALEIDAE

*Androprosopa vaillantiana* Sinclair, 1996, Ent. scand. 27: 373. USA.

Holotype ♂: USA: N.C.: Swain Co. Great Smoky Mtns. N.P. Clingmans Dome Rd. 3-6.VI.1993 B.J. Sinclair/ Roadcut seepage 7.5 km N pkg lot/

REARED Assoc. Vial No. 93-6-5/ HOLOTYPE

*Androprosopa vaillantiana* Sinclair.

Allotype ♀: USA: N.C.: Swain Co. Great Smoky Mtns. N.P. Clingmans Dome Rd. 3-6.VI.1993 B.J. Sinclair/ Roadcut seepage 7.5 km N pkg lot/ ALLOTYPE *Androprosopa vaillantiana* Sinclair.

Paratypes: 8♂♂, 11♀♀, North Carolina.

Remarks:.

*Androprosopa zempoala* Sinclair & Huerta, 2010, Can. Ent. 142: 444. MEXICO.

Holotype ♂: MEXICO, Edo. Mexico Parque Nacional Lagunas de Zempoala, 30-31.vii.2005, MT Mark B. & H. Huerta, leg./ HOLOTYPE *Androprosopa zempoala* Sinclair & Huerta.

Paratype: 1♂, Mexico.

*Orphnephila pilosa* Garrett, 1925b, Seventy new Diptera, p. 10. CANADA.

Holotype ♂: MARYSVILLE B.C. 12.VII. C GARRETT/ HOLOTYPE ORPHNEPHILIA [sic] PILOSA ♂ C Garrett, C.B.D. GARRETT/ Genitalia on slide B.V.P./ Syntype *Orphnephila pilosa* Garrett, CNC No. 7911/ LECTOTYPE Male *Orphnephila pilosa* Garrett designated by Arnaud & Boussy, 1993.

Allotype ♀: MARYSVILLE B.C. 12.VII. C GARRETT/ HOLOTYPE ORPHNEPHILIA [sic] PILOSA ♀ C Garrett, C.B.D. GARRETT/ Syntype *Orphnephila pilosa* Garrett, CNC No. 7911/ PARALECTOTYPE Female *Orphnephila pilosa* Garrett designated by Arnaud & Boussy, 1993.

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.

Holotype ♂: U.S.A. Ore. Marion Co. French Creek 18-VI-1965/ Arnaud & Boussy Dissection No. CNC No. 11.036/ HOLOTYPE CNC No. 11.306 *Thaumalea anolo* Schmid.

Remarks: Holotype abdomen is mounted on a microscope slide. This species was listed in an addendum in Cooper & Cumming (1993: 82).

*Thaumalea confracta* Arnaud & Boussy, 1994, Myia 5: 82. USA.

Holotype ♂: U.S.A., Ore. Linn Co. Lost Prairie 20-VI-1965 F. Schmid/ Arnaud & Boussy Dissection No. CNC 121./ Holotype ♂ *Thaumalea confracta* Arnaud & Boussy 1993.

Allotype ♀: U.S.A., Wash. Yakima Co. American River 26-VI-1965 F. Schmid/ Arnaud & Boussy Dissection No. 18-IV-1973/ Allotype ♀ *Thaumalea confracta* Arnaud & Boussy 1993.

Remarks: Holotype and allotype have their abdomens stored on a microscope slide.

*Thaumalea schmidiana* Arnaud & Boussy, 1994, Myia 5: 116. USA.

- Holotype ♂: U.S.A., Cal. Siskiyou Co. Klamath River 6-VI-1965 F. Schmid/ Arnaud & Boussy Dissection No CNC 106/ Holotype ♂ *Thaumalea schmidiana* Arnaud & Boussy 1993.
- Allotype ♀ (slide): U.S.A., Cal. Siskiyou Co. Klamath River 6-VI-1965 F. Schmid/Arnaud & Boussy wing print, 1993/ Allotype ♀ *Thaumalea schmidiana* Arnaud & Boussy 1993/Arnaud & Boussy Dissection No. 10-V-1973.
- 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.
- Holotype ♂: USA:W Va:Tucker Co. Davis, Blackwater Falls St. Pk. 31.V.-2.VI.1990 BJ Sinclair BS 909/ ex. cliff face seepage Falls of Elakala/ HOLOTYPE *Trichothaumalea elakalensis* Sinclair CNC No. 21245.
- Allotype ♀: W. VA:Blackeater Falls St. Pk., 2.vi.1987 B.J. Sinclair (Elakala Falls) seepage, 17°C/ ALLOTYPE *Trichothaumalea elakalensis* Sinclair CNC No. 21245.
- Paratypes: 3♂♂, 6♀♀, West Virginia.
- THEREVIDAE**
- Amplisegmentum ecuadorensis* Webb, 2005, Zootaxa 1091: 4. ECUADOR.
- Holotype ♂: Bolivar, Chota R., Carchi, ECUADOR, elev. 2000m. 10.VI.65, L. Pena/ THEREVIDAE M.E. IRWIN Specimen # 83805/ HOLOTYPE *Amplisegmentum ecuadorensis* D.W. Webb.
- Paratype: 1♂, Ecuador
- Anabarhynchus bicuspidatus* Lyneborg, 2001, Entomogr. 13: 82. AUSTRALIA.
- Holotype ♂: Brisbane, Qld. AUSTRALIA 25.X.1953 F.M. Hull/ Frank M. Hull Collection/ C.N.C. 1973/ THEREVIDAE M.E. Irwin Specimen # 27366/ Holotype/ *Anabarhynchus bicuspidatus* Lbg ♂ Lyneborg det. 1999.
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Coleiana nigricopis* Gaimari & Irwin, 2000, Zool. J. Linn. Soc. 129: 181. BRAZIL.
- Holotype ♂: Nova Teutonia 27°11'S, 52°23'W Brazil, 300-500m. X-1966 Fritz Plaumann/ CNC/ THEREVIDAE M. E. Irwin Specimen # 28449/ HOLOTYPE ♂ *Coleiana nigricopis* Gaimari et Irwin.
- 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.
- Holotype ♂: BAHAMAS IS. Man-O-War Cay 30.VIII.1971 H.&A.Howden/ THEREVIDAE M. E. Irwin Specimen # 79660/ Holotype ♂ *Insulatitan romaynae* Metz and Irwin.
- 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.
- Holotype ♂: JAMAICA, Try. Duncans VIII.23.1966 Howden & Becker/ THEREVIDAE M.E. Irwin Specimen # 88499/ HOLOTYPE *Penniverpa insular* Webb.
- Remarks: Holotype terminalia are stored in glycerine in a plastic microvial pinned below specimen.
- Protothereva ecuadorensis* 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 ecuadorensis* Webb.
- Paratype: 1♂, Ecuador.
- Thereva colorado* Holston & Irwin, 2005, Studia dipterol. Suppl. 13:87. USA.
- Holotype ♂: Mt. Evans, COLO. Timberline 11,700 ft. July 22-1961 W.R.M. Mason/ THEREVIDAE M.E. IRWIN Specimen # 118383/ HOLOTYPE ♂ *Thereva colorado* Holston & Irwin K.C. Holston & M.E. Irwin, 2003.
- Paratype: 1♀, Colorado.
- Thereva vittata* Philippi, 1865, Verh. Zool.-Bot. Ges. Wien 15: 769. CHILE.
- Neotype ♂: Estero la Jaula Curico CHILE I.1964, L. Pena Nothofagus/ THEREVIDAE M.E. Irwin Specimen # 169897/ *Peralia vittata* (Philippi) Det. D.W. Webb 2006/ NEOTYPE *Thereva vittata* Philippi.
- Remarks: Neotype designation of *Thereva vittata* Philippi by Webb (2006: 23).
- TIPULIDAE**
- Limonia albertensis* Krzeminski & Teskey, 1987, Can. Ent. 119: 891. CANADA.
- Holotype ♂ in amber: No 661B Holotype ♂ CNC 19080 *Dicranomyia albertensis* Krzeminski & Teskey Family Limoniidae (Diptera) (in two pieces) Canadian amber, Leg. J.F. McAlpine & H.J. Teskey May, 1973 also: Hymenoptera Scelionidae/ specimen 2 CAS 661 HJT picture of wing (folded piece of white paper inside box).
- 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).

*Nephrotoma lundbecki alexanderi* Oosterbroek & Tangelder, 1987, Can. Ent. 119: 49. CANADA.

Holotype ♂: Winnipeg Man. 25.VII. 22 J.B. Wallis/  
*Nephrotoma lundbecki* (Nielsen) Det. F. Brodo  
1972/ HOLOTYPE *Nephrotoma lundbecki* ssp.  
*alexanderi* Oesterbr. & Tang. 1987.

Paratypes: 2♂♂, Manitoba.

Remarks: Holotype abdomen and right wing are glued to paper points below the specimen. All legs are missing from holotype.

*Tipula crawfordi* Alexander in Curran & Alexander, 1926, Can. Ent. 58: 291.

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.

Holotype ♂ in amber: No. 1049 Holotype ♂ CNC  
19078 *Trichoneura canadensis* Krzeminski &  
Teskey Family Limoniidae (Diptera) Canadian  
amber, Leg. J.F. McAlpine & H.J. Teskey May,  
1973/ CAS 1049 3mm. long Tipulidae -  
Limoniinae HJT picture of wing (folded piece of  
white paper inside box).

#### XYLOPHAGIDAE

*Xylophagus durango* Woodley, 1994, Proc. ent. Soc. Wash. 96: 308. MEXICO.

Holotype ♂ in amber (slide): HOLOTYPE *Leptoconops primaevus* Borkent ♂ CNC # 22067 nr. Medicine Hat, Alta. 1973 P. Boston A-1 CAS 792.

Allotype ♀ in amber (slide): ALLOTYPE *Leptoconops primaevus* Borkent ♀ CNC # 22067 nr. Medicine Hat, Alta. May, 1973 McAlpine : Teskey AG-6 CAS 733.

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 #  
12671/ 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 (E½

Sect. 1, twp. 29, range 20, west of 4<sup>th</sup> 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).

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