

## Check-list of Finnish flies: families Xylophagidae – Microphoridae

Jere Kahanpää & Kaj Winqvist

Kahanpää, J. & Winqvist, K. 2005: Check-list of Finnish flies: families Xylophagidae – Microphoridae. — *Sahlbergia* 10: 10–27. Helsinki, Finland, ISSN 1237–3273.

A checklist is presented for the Finnish species of the fly families Xylophagidae, Stratiomyidae, Xylomyidae, Athericidae, Rhagionidae, Tabanidae, Acroceridae, Asilidae, Bombyliidae, Mythicomyiidae, Therevidae, Scenopinidae, Atelestidae, Empididae, Hybotidae and Microphoridae. Seventeen species previously not recorded from Finland are here added to the Finnish fauna. The following species have been erroneously reported from Finland and are here deleted from the list of Finnish species: Tabanidae: *Haematopota italica* Meigen, 1804. Stratiomyidae: *Odontomyia hydroleon* (Linnaeus, 1758). Asilidae: *Cyrtopogon maculipennis* (Macquart, 1834), *Machimus gonatistes* (Zeller, 1840). Bombyliidae: *Phthiria canescens* Loew, 1846, *Anastoechus nitidulus* (Fabricius, 1794), *Villa fasciata* (Meigen, 1804), *Villa longicornis* Lyneborg, 1965, *Villa panisca* (Rossi, 1790). Therevidae: *Clorismia ardea* (Fabricius, 1794), *Clorismia rustica* (Panzer, 1804). Empididae: *Wiedemannia fallaciosa* (Loew, 1873), *Empis punctata* Meigen, 1804, *Hilara hirtella* Collin, 1927, *Hilara pseudochorica* Strobl, 1892, *Hilara scrobiculata* Loew, 1873, *Hilara tetragramma* Loew, 1873, *Rhamphomyia poissoni* (Theren, 1966), *Rhamphomyia tibialis* Meigen, 1822. Hybotidae: *Crossopalpus abditus* Kovalev, 1972. The Finnish records of Rhagionidae: *Chrysophilus splendidus* (Meigen), Asilidae: *Epitriptus arthriticus* (Zeller), *Epitriptus cingulatus* (Fabricius), *Choerades fimbriata* (Meigen) and Hybotidae: *Drapetis incompleta* Collin, 1926 are considered dubious, and they are not included in the checklist. The total number of species found from Finland in these families is now 483.

Jere Kahanpää, Finnish Environment Institute, P.O. Box 140, FI-00251 Helsinki, Finland. E-mail: kahanpaa@iki.fi

Kaj Winqvist, Zoological Museum, University of Turku, FI-20014 Turku, Finland E-mail: kwinqvist@hotmail.com

### Introduction

About 25 years have elapsed since Hackman published his checklist of Finnish Diptera (1980). A new checklist of Finnish flies is needed already now, since the nomenclature has had great changes in many fly families and the taxonomical knowledge has considerably advanced. To date, about 3600 fly species

have been recorded from Finland. In a global comparison Finnish flies are known relatively well. Nevertheless, a lot of work is still needed to cover gaps of faunistic and taxonomical knowledge in this large insect group. Because the study of such a big amount of species with the available small resources is slow the new checklist will be published in suitable smaller

parts. Updated checklists for families Dolichopodidae (Kahanpää & Grichanov 2004) and Syrphidae (Haarto & Kerppola 2004) have already been published. In this paper we present a new checklist of Finnish flies for superfamilies Xylophagoidea, Stratiomyoidea, Tabanoidea, Nemestrinoidea, Asiloidea and Empidoidea (excl. Dolichopodidae).

Richard Frey published two papers dealing with the fly families covered here already in the early 20<sup>th</sup> century (Frey 1911, 1913). Later, checklists of the whole fauna of Finnish Diptera were published by Frey (1941) and Walter Hackman (1980). Ever since 1921 new additions and deletions of species of all Finnish insect groups have been published in 5-year intervals, first by Hellén 1921-1976, then by Silfverberg 1981-2001. Until 1986 these articles were published in *Notulae Entomologicae*, subsequently in *Entomologica Fennica*. Also the Catalogue of Palaearctic Diptera (Soós & Papp 1984-1994) contains faunistic information on Finnish flies.

This checklist covers the area of the state of Finland by the current definition. After the Second World War the borders of Finland were moved especially in Karelia and Kuusamo region. Old articles published before 1945 include many species which were recorded only in the areas now belonging to Russia. In Hackman's checklist this transition of borders is mainly taken into consideration, but not in all cases. Also catalogues published by foreign researchers may neglect this border problem. For example both Hackman's checklist and Palaearctic catalogue regard two *Psilocephala* (Therevidae) species as Finnish even though they have never been recorded in the territory of post-war Finland.

### Criteria for inclusion

The compilation of this checklist was initiated by preparing a "proto-checklist", which included all the earlier published records and

earlier checklists (Frey 1911, 1913, 1941, Hackman 1980, the Palaearctic Catalogue, numerous individual articles). Each record was then checked against existing museum material. The junior author examined the Diptera Fennica collection in the Zoological Museum, University of Helsinki (MZH), the university collections in Turku and Oulu, the insect collections held by natural history and conservation societies in Kuopio and Forssa and the private collections of Dr. Antti Haarto and the authors. Richard Frey's collection (now a part of MZH Diptera collection) and the insect collection of the Department of Applied Biology (University of Helsinki, now also a part of MZH) were examined by the senior author, who also helped with some empidid genera in MZH. Critical specimens were sent to specialists for identification. New species for Finland found during the identification work were added into the list.

For a majority of species at least one correctly identified Finnish reference specimen was found in the abovementioned collections. If no such specimen was found, we cleared out the reasons why these species were originally reported from Finland. In most such cases it was possible to classify all published records either as misidentifications or as originating from the current Russian territory. A mere literary record was accepted as evidence for a species being Finnish only if the identifier was known and could be considered a specialist of the species-group or family in question. If no records were confirmed, the species was deleted from the checklist. A few borderline cases were tagged dubious and are listed in a separate category after the checklist. The status of all nontrivial species is presented in detail in Results.

### Structure of the checklist (appendix A)

The classification of superfamilies follows mainly the Nearctic Manual, Vol. 3 (McAlpi-

ne 1989). This choice is purely pragmatic; it is used in most recent checklists for European countries. Subtaxa of each superfamily (families, subfamilies, tribes, genera) are listed alphabetically.

Species are listed in alphabetic order under the genus name. Synonyms are listed here only if they have been used in major Finnish papers, especially in the previous checklists. All names used in the previous checklists are included. Preoccupied names (*preocc.*) and emendations (*emend.*) are labelled accordingly.

Misidentifications (*misident.*) are listed only if the species was reported as new for Finland under the given name. In this case the author name and year refers to the publication of the Finnish record. Species with notes in Results are marked with an asterisk (\*) after the species name.

## Results

The number of species found from Finland in the families included in this study is 483. Table 1 shows the total number of species for each family, and a comparison with the species numbers recorded in previous checklists. Only the species that have been found in post-war Finland were counted in all cases. Seventeen species have previously not been recorded from the country and are here added to the Finnish fauna. The following species have erroneously been reported from Finland - but not necessarily included in previous checklists - and are here deleted from the list of Finnish species: Tabanidae: *Haematopota italica* Meigen, 1804. Stratiomyidae: *Odontomyia hydroleon* (Linnaeus, 1758). Asilidae: *Cyrtopogon maculipennis* (Macquart, 1834), *Machimus gonatistes* (Zeller, 1840). Bombyliidae: *Pthiria canescens* Loew, 1846, *Anastoechus nitidulus* (Fabricius, 1794), *Villa fasciata* (Meigen, 1804), *Villa longicornis* Lyneborg, 1965, *Villa panisca* (Rossi, 1790). Therevi-

Table 1. Number of species (by family) recorded from Finland in published checklists (Frey 1911-13, Frey 1941, Hackman 1980, this paper). Species in older checklists are counted only if they are included in the current checklist; misidentifications and exclusively Russian species have been excluded.

Family	Checklist published			
	1911-13	1941	1980	2004
Xylophagidae	2	4	4	5
Athericidae	1	1	1	1
Rhagionidae	14	15	14	16
Tabanidae	27	30	37	40
Stratiomyidae	21	25	27	27
Xylomyidae	1	1	1	1
Acroceridae	3	4	5	5
Asilidae	30	33	34	35
Bombyliidae	16	18	18	18
Mythicomyiidae	0	1	1	1
Scenopinidae	2	2	2	3
Therevidae	10	12	17	17
Atelestidae	0	1	1	2
Empididae	125	142	151	172
Hybotidae	79	98	129	137
Microphoridae	2	2	2	3
Total	333	389	444	483
new %		14%	12%	8%

dae: *Clorismia ardea* (Fabricius, 1794), *Clorismia rustica* (Panzer, 1804). Empididae: *Wiedemannia fallaciosus* (Loew, 1873), *Empis punctata* Meigen, 1804, *Hilara hirtella* Collin, 1927, *Hilara pseudochorica* Strobl, 1892, *Hilara scrobiculata* Loew, 1873, *Hilara tetragramma* Loew, 1873, *Rhamphomyia poissoni* (Theren, 1966), *Rhamphomyia tibialis* Meigen, 1822. Hybotidae: *Crossopalpus abditus* Kovalev, 1972. The circumstances leading to the deletion of each species are presented in the notes below.

The Catalogue of Palaearctic Diptera lists Rhagionidae: *Chrysophilus splendidus* (Meigen), Asilidae: *Epitriptus arthriticus* (Zeller), *Epitriptus cingulatus* (Fabricius), *Choerades fimbriata* (Meigen) and Hybotidae: *Drapeitis incompleta* Collin from Finland. We have found no proof for these records and consider

them dubious. These species are not included in the checklist.

### Notes

- Xylophagus ater* Meigen: According to Chandler (1998), the name *ater* Meigen, 1804 must be used for the species commonly called *X. compeditus* Wiedemann in Meigen in Continental Europe. *Xylophagus kowarzi* (Pleske, 1925) is the oldest available name for ‘*ater*’ of ‘continental’ authors.
- Xylophagus matsumurae* Miyatake: 1♂ *Tb*: Saarijärvi, Pyhä-Häkki (697:342), 2.vi.-7.vii.1993, L. Kaila & P. Martikainen leg. 1♂ *Tb*: Konginkangas, Patrikonmäki, 2.vi.-7.vii.1993, L. Kaila & P. Martikainen leg. These specimens are paratypes of *X. matsumurae inermis* Krivosheina & Krivosheina, 2000.
- Chrysophilus suomianus* (Szilády): The type locality of this species is Enontekiö, Finland. According to Szilády’s original description the type specimen should be in MZH, but no specimens were found there and the species has never been entered into the type catalogue. The status of this species is unresolved until the type is found.
- Ptiolina oculata* (Becker): Nartshuk (1995) has synonymised *Omphalophora lapponica* Frey, 1911 with *Ptiolina oculata* (Becker, 1900). The type locality of *lapponica* is ‘Lapponia fennica’. The type specimen was collected in 1905 by Bernhard Armas Nyman (who later changed his name to B. A. Ensiö) somewhere along the rivers Tenojoki and Ounasjoki.
- Rhagio notatus* (Meigen): Missing from Hackman (1980), but included in Frey (1941). Two records from Finland: 1♂, ‘Coll. Nyland.’ and 1♂ *Ta*: Hattula, year 1921, W. Hellén leg.
- Haematopota italica* Meigen: This species was reported as new for Finland by Vuorimies (1984). We have re-examined the specimen from *Al*: Kökar and it belongs to *H. pluvialis* Linnaeus.
- Hybomitra astuta* (Osten Sacken): Kauri (1976) mentions one specimen (1♀ *Le*: Kilpisjärvi, Malla). There are no specimens from Finland in Finnish museum collections. We accept Kauri’s record as proof for the presence of *astuta* in Finland.
- Odontomyia hydroleon* (Linnaeus): Rozkošný (1973) records this species from Åland Islands and Russian Karelia. We consider it probable that the record from Åland is a result of a geographical mistake, since all examined museum material comes from Russian localities.
- Ogcodes borealis* Cole: A specimen from *Ab*: Uskela (1♂ mid-19<sup>th</sup> century, E. J. Bonsdorff leg.) was identified by W. Hackman (1970) as this North American species. The male genitalia of this specimen were examined by the senior author and they support Hackman’s identification. The wing venation differs slightly from North American forms (as described in Schlinger 1960), but match the description of the type specimen. According to Schlinger it is possible that several species are included in the current concept of *O. borealis*.
- Machimus gonatistes* (Zeller): Known from Terijoki in Russia. All alleged *gonatistes* specimens from Finland belong either to *Tolmerus* or *Neoitamus*.
- Tolmerus pyragra* Zeller: New for Finland. 2♂ *Sa*: Luumäki, Kiurula (57689:35377), 26.vii.2002, J. Kahanpää leg.
- Choerades ursula* (Loew): *C. ursula* was synonymized with *C. fuliginosa* (Panzer) by Lehr (1991). Bosák & Hradsky (2001) reinstated *ursula* as a valid species.

*Cyrtopogon maculipennis* (Macquart):

There is one specimen in MZH, labelled 'Tohmajärvi, Åbo, H:fors ?/?'?Fennia' (Nordmann leg). Frey (1911) considered this record suspicious and noted that the specimen is probably not collected in Finland. We agree with Frey's opinion and delete *C. maculipennis* from the checklist.

*Anastoechus nitidulus* (Fabricius): There is one specimen in MZH, bearing the label 'Tohmajärvi, Åbo, Helsingfors.' (Nordmann leg). Frey (1911) considered this record suspicious and noted that the specimen is probably not collected in Finland. We agree with Frey's opinion and delete *A. nitidulus* from the list of Finnish species.

*Villa fasciata* (Meigen) and *V. longicornis* Lyneborg: These species were previously jointly known as *Villa circumdata* (Meigen) and appeared in previous checklists under that name, now a junior synonym of *fasciata*. According to Evenhuis & Greathead (1999, 2003) both species are found in Finland. In the description of *longicornis* Lyneborg (1965) writes "The total distribution of *V. circumdata longicornis* cannot be given, but, no doubt, this subspecies will represent *circumdata* in Scandinavia and Finland". All Finnish specimens of 'circumdata' were re-examined and they all belong either to *V. hottentotta* (L.) or *V. modesta* (Meigen). There is one male of *V. fasciata* labelled only '96.' in the Diptera Fennica collection (MZH). This kind of label is otherwise found only in Central European material in coll. Frey. It seems that this specimen had been moved from coll. Frey to the Fennica collection by mistake.

*Villa halteralis* (Kowarz): The presence of this species in Hackman (1980) is based

on Hedström (1969) who recorded it from *Ta*: Tammela. He wrote as follows: "The identification is presented with some hesitancy as the specimen is unusually small and shows some minor differences in coloration as compared with unambiguous *halteralis* specimens". Hans Bartch (private comm.) found one small female in the insect collections of the Uppsala University (UZIUI): 1♀, *Ta*: Jokioinen, 31.vii.1966, A. Väre leg. Bearing in mind the considerable variability of *Villa* females, this record must remain somewhat doubtful.

*Villa modesta* (Meigen): New for Finland. The examination of male genitalia and external characters revealed that most Finnish specimens identified as *V. panisca* (Rossi) and *V. circumdata* belong to *V. modesta*. This species has been found in the Finnish biogeographical provinces *Al*, *Ab*, *N*, *Ta*, *Sa* and *Kl*.

*Villa panisca* (Rossi): Finnish specimens identified as *panisca* belong to *V. cingulata* (Meigen) or *V. modesta* (Meigen). There are some *V. panisca* specimens from Russian Karelia (Sortavala) in MZH.

*Phthiria canescens* Loew: Finnish according to Zaitzev (1989) and Evenhuis & Greathead (1999, 2003). The only specimen in Finnish collections is from Tytärsaari (Bolshoj Tuters), which is now in Russian territory.

*Scenopinus* sp.: This species was misidentified as *Scenopinus vitripennis* Meigen by Haarto (2000). Its true identity is still unknown. Several additional specimens are now known from Finland.

*Clorismia ardea* (Fabricius) & *C. rustica* (Panzer): All Eastern Fennoscandian records of these species are from Terijoki (Zelenogorsk), Russia.

*Thereva circumscripta* Loew: The real *T. circumscripta* Loew has not been found

from northern Europe and all the old Finnish specimens under that name belong to *T. valida* Loew.

*Meghyperus sudeticus* Loew: Not listed in Hackman (1980). Chvála (1983) found one Finnish specimen in MZH (1♀ *Sa*: Joutseno, 18.vi.1960, E. Thuneberg leg.).

*Clinocera nigra* Meigen: Reported as new for Finland by Frey (1925) who based it on an old record made by Sahlberg. However, there are no specimens left in Finnish collections and the Palaearctic Catalogue (Chvála & Kovalev 1989) does not regard the species as Finnish. The old record was in all probability a misidentification.

*Wiedemannia fallaciosa* (Loew) and *W. simplex* (Loew): *W. simplex* is a Holarctic species, previously known in Europe as *W. impudica* Mik (Sinclair 1997). The Finnish specimens were misidentified as *W. fallaciosa*.

*Empis punctata* Meigen: This species is reported from South Karelia in Fauna Entomologica Scandinavica (Chvála, 1994). There are no verifiable records from Finland; all South Karelian material in Finnish Museums comes from localities now in Russia (Leningrad district).

*Hilara albitarsis* von Roser: New for Finland. 2♀ *Ab*: Kiikala, 18.vi.1931, R. Krogerus leg., M. Chvála det. (in MZH); 1♀ *Ta*: Karkkila, Moksi, Moksjärvi 1.-7.vii.1976 O. Martin leg. (Zoological Museum, Univ. of Copenhagen = ZMUC), M. Chvála det.; 1♀ *Sa*: Luumäki, Pajari (67551:5145), 30.v.2003, J. Kahanpää leg.

*Hilara biseta* Collin: New for Finland. 1♀ *Sb*: Tuovilanlahti (=Maaninka), Lundström leg.; 1♂ *N*: Kirkkonummi, Bobäck, 23.-24.viii.1919, R. Frey leg., M. Chvála det. (in MZH).

*Hilara campinosensis* Niesiolowski: New for Finland. Milan Chvála found this species from the provinces *Al*, *Ab*, *St* and *Kb* in

the material from MZH (M. Chvála, pers. comm.).

*Hilara coracina* Oldenberg & *H. quadrifaria* Strobl: According to Chvála (2002b) all the Finnish material identified as *H. quadrifaria* belongs to *H. coracina*.

*Hilara eviana* Straka: New for Finland. 1♀ *Sb*: Tuovilanlahti (=Maaninka), Lundström leg., previously misidentified as *H. gallica*.

*Hilara hirta* Strobl & *H. hirtella* Collin: All Finnish material identified as *H. hirtella* belongs to *H. hirta* (Chvála 2002a).

*Hilara hybrida* Collin: New for Finland. Over one hundred specimens have been collected from provinces *Al*, *Sa*, *Tb*, *ObS*, *ObN*, *LkW*, *Le* and *Li* (in MZH, M. Chvála det.).

*Hilara hyposeta* Straka: New for Finland. 1♂ *Ta*: Sysmä, Herneniemi, 5.viii.1912, W. Hellén leg., M. Chvála det. (in MZH); 1♂ *Sa*: Ristiina, 20.viii.1935, Linnaniemi leg., M. Chvála det.; 8♂ 1♀, *Kb*: Joensuu, Ylämylly, 8.viii.1982, O. Martin leg. (in ZMUC).

*Hilara implicata* Collin: New for Finland. 2♂ *Al*: Finström, R. Frey leg.; 1♂ *N*: Helsinki, R. Frey leg.; 1♂ *Ab*: Karjalohja, year 1934, Krogerus leg., 1♀, *St*: Yläne, Sahlberg leg. (all M. Chvála det.)

*Hilara lapponica* Chvála: Described partly from Finnish material (Chvála 2002b).

*Hilara longifurca* Strobl: New for Finland. Chvála found this species from Finland while checking the MZH museum material in 1980. He found altogether twelve specimens of it from the provinces *Ab*, *N*, *Ka*, *Om* and *Sb*. (in MZH, M. Chvála det.)

*Hilara pseudochorica* Strobl: According to M. Chvála (pers. comm.) this species does not occur in Finland, and all previous reports were based on misidentifications.

- Hilara scrobiculata* Loew: According to Chvála (pers. comm.) all Finnish specimens identified as *H. scrobiculata* belong to other species.
- Hilara sturmii* Wiedemann in Meigen: The species was earlier known in Finland as *H. cingulata* Dahlbom. Actually, *H. cingulata* is a junior synonym of *H. flavipes* (Meigen), recorded in Southern Sweden but not in Finland (Chvála 1997).
- Hilara tetragramma* Loew: Hedström's old literary record (1964) is the only piece of evidence indicating the possible presence of this species in Finland. The specimen has, however, got lost already in the 1960's and thus could not be located. Chvála has in his later revision work (2002ab) found this species only from Central Europe and the species complex being difficult, it is unlikely that Hedström's specimens were correctly identified.
- Hilara woodiella* Chvála: New for Finland. 1♀ *Ab*: Turku, 17.vii.1917, R. Frey leg.; 1 ex (pin only) *N*: Espoo, B. Poppius leg., M. Chvála det. (in MZH).
- Rhamphomyia (Aclonempis) galactoptera* Strobl: New for Finland. 1♂ *Sa*: Joutseno, 4.vi.1953, E. Thuneberg leg., M. Barták det. (in MZH).
- Rhamphomyia (Holoclera) trigemina* Oldenberg: New for Finland. 1♀ *Ab*: Parainen, Lofsdal, 24.vii.1917, R. Frey leg., M. Barták det. (in MZH).
- Rhamphomyia (Megacyttarus) anomala* Oldenberg: All Finnish specimens identified as *R. anomala* belong to *R. anomalipennis* Meigen.
- Rhamphomyia (M.) poissoni* (Trehen): In MZH there is a single specimen determined as *R. poissoni* (Trehen) (under the name *R. tephraea* Frey, 1953 nec. Meigen, 1822). Misidentified by Frey, it is a female *R. maculipennis* Zetterstedt.
- Rhamphomyia (Pararhamphomyia) caudata* Zetterstedt: All specimens hitherto determined as *R. caudata* in Finnish collections and in Finnish entomological literature represent *R. aethiops* Zetterstedt. The real *R. caudata* Zetterstedt, a northern species, was described by Frey as *R. longestylata*.
- Rhamphomyia (P.) helleni* Frey: New for Finland. 1♀ *LkW*: Muonio, Jerisjoki, 10.vii.1943, R. Frey leg. (in MZH).
- Rhamphomyia (Rhamphomyia) cinerascens* (Meigen): Listed in Frey (1941) but not in Hackman (1980). In MZH there are several specimens from Russian Karelia, and one from Finland (1♂ *Sb*: Kuopio, 19<sup>th</sup> century, Lundström leg.).
- Rhamphomyia (R.) laevipes* (Fallén): Listed in Frey (1941) but, probably by mistake, not in Hackman (1980). There are ten specimens from the biogeographical provinces *Sa* and *Sb* in Finnish collections.
- Rhamphomyia (R.) tibialis* Meigen: All specimens in Finnish museum material determined as this species are either *R. sulcata* (Meigen) or *R. sulcatina* Collin. According to Barták (1982) it is likely that *R. tibialis* is a Central European species missing from Northern Europe.
- Chelifera astigma* Collin: Hellén adds *astigma* Collin to the Finnish fauna in his list of additions (1952) referring to Frey's article (1950). That article does not, however, give faunistic information of the species. There are no museum specimens in Finland and the Palaeartic catalogue (Chvála & Wagner 1989) does not regard *C. astigma* as Finnish.
- Hemerodromia adulatoria* Collin: New for Finland. 1♂ *Ks*: Kuusamo, Kitkajoki, 16.vii.1926, R. Frey leg. (in MZH).
- Iteaphila furcata* (Zetterstedt). There are four exx. from *Ks*: Kuusamo (R. Frey leg.) in MZH. They were all taken near Lake

Paanajärvi, which is now in Russian territory. According to Tuomikoski (1958) this species has also been collected from *Ks*: Salla by himself, but no specimens or more detailed records exist. It is probable that also Tuomikoski's observation is from the Russian side.

*Crossopalpus abditus* Kovalev: Chvála (1975) reports one specimen from Paanajärvi, Finland. The locality is in Russia and the species is therefore deleted from the Finnish checklist.

*Platypalpus alpinus* Chvála: Chvála (1975) mentions this species from Finland but later doubts this record in his monograph on *Platypalpus* (1989). We found two candidate specimens of this species in MZH (provinces *N* and *Ta*, collected by Frey and Hellén respectively), both in poor condition. Chvála has recently re-examined the specimen from *Ta* and considers it to be *alpinus*.

*Platypalpus annulipes* (Meigen): Recently reported as new for Finland (Kahanpää & Winqvist 2003).

*Platypalpus fuscicornis* (Zetterstedt): New for Finland. 1♂ *N*: Espoo, Suomenoja (66736:33730), 18.vi.2003, J. Kahanpää leg.

*Platypalpus scandinavicus* Chvála, 1972: New for Finland. 1♀ *Oa*: Ilmajoki, Kivistönmäki, 2♂ (window trap) and 1♀ (pitfall trap), 18.vi.-3.viii.2002, V.-M. Mukkala leg.

*Microphor anomalus* (Meigen): Included in all previous checklists on the basis of misidentified specimens. One male has since been found among unidentified material (1♂ *Al*: Mariehamn, 19.vii.1922, R. Frey leg., in MZH).

*Microphorella praecox* (Loew): The only Finnish record of this species is in Krogerus (1932), where specimens from the geographical province *ObS* and from

Russian Isthmus Karelia are mentioned. Many of Krogerus's identifications have since been proved erroneous. As no samples were found, we could not confirm his records of this species.

### Acknowledgements

We would like to thank everyone who helped us by examining critical specimens or commenting on draft species lists: Dr. Miroslav Bartak (Empididae), Dr. Milan Chvála (Hybotidae, Acroceridae), Dr. Neal Evenhuis (Bombyliidae), Dr. Kevin Holston (Therevidae), Dr. Milan Hradsky (Asilidae), Mr. Samuli Lehikoinen (Tabanidae) and Dr. Norman E. Woodley (Stratiomyidae).

### References

- Barták, M. 1982: The Czechoslovak species of *Rhamphomyia* (Diptera, Empididae), with description of a new species from Central Europe. — *Acta Univ. Carol. (Biol.)* 1980: 381–461.
- Bosák, J. & Hradský, M. 2001: Some remarks on the distribution of robber flies (Diptera: Asilidae) in Turkey. — *Journal of the Ent. Res. Soc.* 3(3):1–28.
- Chandler, P. J. 1998: The identity of *Xylophagus ater* Meigen (Diptera, Xylophagidae). — *Dipt. Digest* (2<sup>nd</sup> series) 5: 1–5.
- Chvála, M. 1975: The Tachydromiinae (Dip. Empididae) of Fennoscandia and Denmark. Scandinavian Science Press (Klampenborg, Denmark). 336 p.
- Chvála, M. 1983: The Empidoidea of Fennoscandia and Denmark II. General Part. Families Hybotidae, Atelestidae and Microphoridae. Scandinavian Science Press (Klampenborg, Denmark). 279 p.
- Chvála, M. 1989: Monograph of northern and central European species of *Platypalpus* (Diptera, Hybotidae) with data on the occurrence in Czechoslovakia. — *Acta Univ. Carol. (Biol.)* 32: 209–376.
- Chvála, M. 1994: The Empidoidea of Fennoscandia and Denmark III. Genus *Hilara*. E. J. Brill, Leiden. 187 p.



- Chvála, M. 1997: A revision of the European species of the *Hilara flavipes*-group, with new synonymies and description of a new species. — *Studia dipt.* 4: 463–472.
- Chvála, M. 2002a: Review of European species of the *Hilara* 'quadrivittata' group. — *Acta Univ. Carol. (Biol.)* 46: 229–276.
- Chvála, M. 2002b: The *Hilara* species described by L. Oldenberg, with description of a new species from Lapland. — *Entomol. Fenn.* 13: 65–78.
- Chvála, M. & Kovalev, V. G. 1989: Family Hybotidae. In Soós & Papp (q.v.), Vol. 6. p. 174–227.
- Chvála, M. & Wagner, R. 1989: Family Empididae. In Soós & Papp (q.v.), Vol. 6. p. 228–336.
- Evenhuis, N. L. & Greathead, D. J. 1999: World catalog of bee flies (Diptera: Bombyliidae). Backhuys Publishers, Leiden. xlviii + 756 p.
- Evenhuis, N. L. & Greathead, D. J. 2003: World catalog of bee flies (Diptera: Bombyliidae) [<http://hbs.bishopmuseum.org/bombcat/>].
- Frey, R. 1911: Zur Kenntnis der Dipterenfauna Finnlands. — *Acta Soc. pro Fauna & Flora Fenn.* 34(6): 1–57.
- Frey, R. 1913: Zur Kenntnis der Dipterenfauna Finnlands II. Empididae. — *Acta Soc. pro Fauna & Flora Fenn.* 37(3): 1–88.
- Frey, R. 1925: Föreningsmeddelanden. Tiedonantoja yhdistyksistä. — *Notulae Entomol.* 5: 62.
- Frey, R. 1941: Diptera Brachycera (excl. Muscidae, Tachinidae). In *Enumeratio Insectorum Fenniae*. VI. Dipera. Helsingin Hyönteisvaihtoyhdistys. p. 1–31.
- Frey, R. 1950: Dipterafaunan vid Tana älv i Utsjoki sommaren 1949. — *Notulae Entomol.* 30: 5–18.
- Haarto, A. 2000: Taxa new for Finland (Diptera). *Scenopinus vitripennis* Meigen (Scenopinidae). — *Entomol. Fenn.* 11: 1.
- Haarto, A. & Kerppola, S. 2004: Checklist of Finnish Hoverflies (Diptera, Syrphidae). — *Sahlbergia* 9(2): 147–164.
- Hackman, W. 1970: Mötesreferat – Kokousselostuksia (20.3.1970). — *Notulae Entomol.* 50: 135.
- Hackman, W. 1980: A check list of the Finnish Diptera I. Nematocera and Brachycera (s. str.). — *Notulae Entomol.* 60: 17–48.
- Hedström, L. 1964: Lounais-Hämeen kärpäsiä. — *Lounais-Hämeen Luonto* 15: 77–89.
- Hedström, L. 1969: Diptera Orthorrhapha from South-West Häme, Part 1. — *Lounais-Hämeen Luonto* 32: 1–6.
- Hellén, W. 1952: Verzeichnis der in den Jahren 1946–1950 für die Fauna Finnlands neuhinzugekommenen Insektenarten. — *Notulae Entomol.* 31: 59–80.
- Kahanpää, J. & Grichanov, I. Ya. 2004: A checklist of Finnish long-legged flies (Diptera: Dolichopodidae). — *Int. J. Dipterol. Res.* 15(1): 57–62.
- Kahanpää, J. & Winqvist, K. 2003: Rare flies recorded in Finland during the year 2002 (Diptera). — *Sahlbergia* 8(2): 92–95.
- Kauri, H. 1976: The Scandinavian populations of *Hybomitra polaris* (Frey) (Diptera: Tabanidae). With redescription of the male and description of *H. polaris viddensis* n. ssp. — *Ent. Scand.* 7: 145–149.
- Krogerus, R. 1932: Über die Ökologie und Verbreitung der Arthropoden der Triebsandgebiete an den Küsten Finnlands. — *Acta Zool. Fenn.* 12: 1–308.
- Lehr, P. A. 1991: Revision of Robber flies of the genus *Choerades* Walker, 1851, and notes on the structure of the subfamily Laphriinae (Diptera, Asilidae). — *Ent. Obozr.* 70(3): 694–715.
- Lyneborg, L. 1965: A Revised List of Danish Bombyliidae, with a Subspecific Division of *Villa circumdata* Meig. — *Entomologiske Meddelelser* 34: 155–166.
- McAlpine, J. F. (ed.) 1989: *Manual of Nearctic Diptera*. Vol. 3. viii + pp. 1333–1581.
- Nartshuk, E. P. 1995: Taxonomic and faunistic data on the Rhagionidae (Diptera, Brachycera) of the northern Palaearctic. — *Acta Zool. Fenn.* 199: 17–24.
- Rozkošný, R. 1973: The Stratiomyioidea (Diptera) of Fennoscandia and Denmark. *Fauna*

- Ent. Scand. 1. Scandinavian Science Press Ltd., Gadstrup, Denmark.
- Schlinger, E. I. 1960: A revision of the genus *Ogcodes* Latreille with particular reference to species of the western hemisphere. — Proc. U. S. National Mus. 111: 227–336.
- Sinclair, B. J. 1997: Review of the Nearctic species of *Wiedemannia* Zetterstedt. — *Studia dipt.* 4: 337–352.
- Soós, Á. & Papp, L. (eds.) 1984-1994: Catalogue of Palaearctic Diptera. 14 volumes. Akad. Kiadó Budapest.
- Tuomikoski, R. 1958: Mitteilungen über die Empididen Finnlands. V. Die Gattung *Iteaphila* Zett. s. str. — *Ann. Ent. Fenn.* 24(3): 125–133.
- Vuorimies, J. 1984: Kaksi maalle uutta *Haematopota*-lajia. — *Notulae Entomol.* 64: 203.
- Zaitzev, V. F. 1989: Family Bombyliidae. In Soós & Papp (q.v.), Vol. 6. p. 43-169.

## APPENDIXA: Checklist of Finnish Diptera, families Xylophagidae to Microphoridae.

### Order DIPTERA

#### Suborder BRACHYCERA

#### Infraorder XYLOPHAGOMORPHA

#### Superfamily XYLOPHAGOIDEA

#### XYLOPHAGIDAE

*Xylophagus* Meigen, 1803

*ater* Meigen, 1804 \*

= *compeditus* Wiedemann in Meigen, 1820

*cinctus* (De Geer, 1776)

*junki* (Szilády, 1932)

*kowarzi* (Pleske, 1925)

= *ater* authors, misident.

*matsumurae* Miyatake, 1965 \*

= *maculatus* Matsumura, 1916, preocc.

#### Infraorder TABANOMORPHA

#### Superfamily TABANOIDEA

#### ATHERICIDAE

*Atherix* Meigen, 1803

*ibis* (Fabricius, 1798)

#### RHAGIONIDAE

*Chrysopilus* Macquart, 1826

*cristatus* (Fabricius, 1775)

= *auratus* (Fabricius, 1805)

*luteolus* (Fallén, 1814)

*nubecula* (Fallén, 1814)

*Ptiolina* Zetterstedt, 1842

? = *Omphalophora* Becker, 1900

*nigra* Zetterstedt, 1842

*nigrina* Wahlgren, 1854

*nitida* Wahlgren, 1854

*obscura* (Fallén, 1814)

*oculata* (Becker, 1900) \*

= *lapponica* (Frey, 1911)

*Rhagio* Fabricius, 1775

*annulatus* (De Geer, 1776)

*lineola* Fabricius, 1794

*maculatus* (De Geer, 1776)

*notatus* (Meigen, 1820) \*

*scolopaceus* (Linnaeus, 1758)

*tringarius* (Linnaeus, 1758)

*Spania* Meigen, 1830

*nigra* Meigen, 1830

*Symphoromyia* von Frauenfeld, 1867

sg. *Paraphoromyia* Becker, 1921

*crassicornis* (Panzer, 1806)

Doubtful records in Rhagionidae: *Chrysophilus suomianus* Szilády, 1934 \*.

#### TABANIDAE

subfamily Chrysopsinae

tribus Chrysopsini

*Chrysops* Meigen, 1803

*caecutiens* (Linnaeus, 1758)

*divaricatus* Loew, 1858

*nigripes* Zetterstedt, 1838

= *lapponicus* Loew, 1858

*relictus* Meigen, 1820

= *melanopleurus* Wahlberg, 1848

*rufipes* Meigen, 1820

*sepulcralis* (Fabricius, 1794)

= *maurus* Siebke, 1863

*viduatus* (Fabricius, 1794)

= *pictus* Meigen, 1820

= *quadratus* Meigen, 1820

subfamily Tabaninae

tribus Haematopotini

*Haematopota* Meigen, 1803

*crassicornis* Wahlberg, 1848

*pluvialis* (Linnaeus, 1758)

= *italica* Vuorimies, 1984, misident. \*

*subcylindrica* Pandellé, 1883

- Heptatoma** Meigen, 1803  
*pellucens* Pandellé, 1883  
 tribus Tabanini  
**Atylotus** Osten Sacken, 1876  
*fulvus* (Meigen, 1820)  
*plebeius* (Fallén, 1817)  
*rusticus* (Linnaeus, 1767)  
*sublunaticornis* (Zetterstedt, 1842)  
**Hybomitra** Enderlein, 1922  
*arpadi* (Szilády, 1923)  
*astuta* (Osten Sacken, 1876) \*  
   = *polaris* (Frey, 1915)  
*auripila* (Meigen, 1820)  
   = *aterrima* Frey, 1911, misident.  
*bimaculata* (Macquart, 1826)  
   = *tropica* authors, misident.  
   = *confinis* (Zetterstedt, 1838)  
*borealis* (Fabricius, 1781)  
   = *lapponicus* (Wahlberg, 1848)  
*ciureai* (Séguy, 1937)  
   = *solstitialis* authors, misident.  
   = *schineri* Lyneborg, 1959  
*distinguenda* (Verrall, 1909)  
*kaurii* Chvála & Lyneborg, 1970  
   = *borealis* authors, misident.  
*lundbecki* Lyneborg, 1959  
   = *tropica* authors, misident.  
   = *fulvicornis* authors, misident.  
*lurida* (Fallén, 1817)  
*montana* (Meigen, 1820)  
   = *tropica* authors, misident.  
*muehlfeldi* (Brauer, 1880)  
   = *tropica* authors, misident.  
   = *solstitialis* authors, misident.  
*nigricornis* (Zetterstedt, 1842)  
*nitidifrons* (Szilády, 1914) ssp. *confiformis* (Chvála & Moucha, 1971)  
   = *confinis* authors, misident.  
   = *conformis* (Frey, 1916)  
*sexfasciata* (Hine, 1923)  
   = *borealis* authors, misident.  
   = [*borealis*] ssp. *anderi* Kauri, 1951  
*solstitialis* (Meigen, 1820)  
*tarandina* (Linnaeus, 1758)  
*tropica* (Linnaeus, 1758)  
   = *montana* authors, misident.  
   = *fulvicornis* authors, misident.  
   = *tuxeni* Lyneborg, 1959  
**Tabanus** Linnaeus, 1758  
*autumnalis* Linnaeus, 1761  
*bovinus* Linnaeus, 1758  
*bromius* Linnaeus, 1758  
*cordiger* Meigen, 1820  
*maculicornis* Zetterstedt, 1842  
*miki* Brauer, 1880  
*sudeticus* Zeller, 1842
- Superfamily STRATIOMYIOIDEA  
**STRATIOMYIDAE**  
 subfamily Beridinae  
**Beris** Latreille, 1802  
*chalybata* (Forster, 1771)  
   = *fuscipes* Frey, 1911, misident.  
*clavipes* (Linnaeus, 1767)  
*fuscipes* Meigen, 1820  
   = *geniculata* Frey, 1941, misident.  
*morrisii* Dale, 1841  
*strobli* Dušek & Rozkošný, 1968  
   = *geniculata* Frey, 1911, misident.  
   = *fuscipes* Frey, 1911, misident.  
 subfamily Clitellariinae  
**Nemotelus** Geoffroy, 1762  
 sg. **Camptopelta** Williston, 1917  
*nigrinus* Fallén, 1817  
 sg. **Nemotelus** Geoffroy, 1762  
*notatus* Zetterstedt, 1842  
*uliginosus* (Linnaeus, 1767)  
**Oxycera** Meigen, 1803  
*centralis* Loew, 1863  
   = *centralis* Frey, 1911, preocc.  
   = *freyi* Lindner, 1938  
*dives* Loew, 1845  
*trilineata* (Linnaeus, 1767)  
 subfamily Pachygasterinae  
**Berkshiria** Johnson, 1914  
*hungarica* (Kertész, 1921)  
   ? = *albistylum* Johnson, 1914  
   = *barovskii* (Pleske, 1922)  
**Neopachygaster** Austen, 1901  
*meromelas* (Dufour, 1841)  
   = *meromelaena* (Austen, 1901), emend.  
   = *orbitalis* (Wahlberg, 1854)  
**Zabrachia** Coquillett, 1901  
*minutissima* (Zetterstedt, 1838)  
 subfamily Sarginae  
**Chloromyia** Duncan, 1837  
*formosa* (Scopoli, 1763)  
**Microchrysa** Loew, 1855  
*cyaneiventris* (Zetterstedt, 1842)  
*flavicornis* (Meigen, 1822)  
*polita* (Linnaeus, 1758)  
**Sargus** Fabricius, 1798  
*cuprarius* (Linnaeus, 1758)  
*flavipes* Meigen, 1822  
   = *nigripes* Zetterstedt, 1842  
   = *splendens* Hackman, 1972, misident.

*iridatus* (Scopoli, 1763)  
*rufipes* Wahlberg, 1854  
 subfamily Stratiomyinae  
***Odontomyia*** Meigen, 1803  
*angulata* (Panzer, 1798)  
*argentata* (Fabricius, 1794)  
*microleon* (Linnaeus, 1758)  
***Oplodontha*** Rondani, 1863  
*viridula* (Fabricius, 1775)  
***Stratiomys*** Geoffroy, 1762  
*singularior* (Harris, 1778)  
 = *furcata* Fabricius, 1794

#### **XYLOMYIDAE**

***Xylomya*** Rondani, 1861  
*czekanovskii* (Pleske, 1925)  
 = *interrupta* (Pleske, 1925)  
 = *maculata* Sahlberg, 1839, misident.  
 = *maculata* var. *sahlbergi* Frey, 1960

Infraorder ASILOMORPHA  
 Superfamily NEMESTRINOIDEA

#### **ACROCERIDAE**

subfamily Acrocerinae  
***Acrocera*** Meigen, 1803  
*orbiculus* (Fabricius, 1787)  
 = *globulus* (Panzer, 1804)  
 = *borealis* Zetterstedt, 1838  
***Ogcodes*** Latreille, 1796  
*borealis* Cole, 1919 \*  
*gibbosus* (Linnaeus, 1758)  
*nigripes* (Zetterstedt, 1838)  
*pallipes* Latreille, 1812

Superfamily ASILOIDEA

#### **ASILIDAE**

subfamily Asilinae  
***Asilus*** Linnaeus, 1758  
*crabroniformis* Linnaeus, 1758  
***Dysmachus*** Loew, 1860  
*picipes* (Meigen, 1820)  
*trigonus* (Meigen, 1804)  
***Machimus*** Loew, 1849  
*setibarbis* Loew, 1849  
 = *intermedius* (Holmgren, 1852)  
***Neoitamus*** Osten Sacken, 1878  
*cothurnatus* (Meigen, 1820)  
*cyanurus* (Loew, 1849)  
*socius* (Loew, 1871)  
***Neomochtherus*** Osten Sacken, 1878  
*pallipes* (Meigen, 1820)  
***Pamponerus*** Loew, 1849  
*germanicus* (Linnaeus, 1758)

***Philonicus*** Loew, 1849  
*albiceps* (Meigen, 1820)  
***Rhadiurgus*** Loew, 1849  
*variabilis* (Zetterstedt, 1838)  
***Tolmerus*** Loew, 1849  
*atricapillus* (Fallén, 1814)  
*pyragra* (Zeller, 1840) \*  
 subfamily Dioctriinae  
 tribus Dioctriini  
***Dioctria*** Meigen, 1803  
*atricapilla* Meigen, 1804  
*cothurnata* Meigen, 1820  
 = *reinhardi* Meigen, 1820  
*hyalipennis* (Fabricius, 1794)  
*oelandica* (Linnaeus, 1758)  
*rufipes* (De Geer, 1776)  
 subfamily Laphriinae  
 tribus Andrenosomatini  
***Andrenosoma*** Rondani, 1856  
*albibarbe* (Meigen, 1820)  
 tribus Laphriini  
***Choerades*** Walker, 1851  
*fuliginosa* (Panzer, 1798)  
*gilva* (Linnaeus, 1758)  
*ignea* (Meigen, 1820)  
*lapponica* (Zetterstedt, 1842)  
*marginata* (Linnaeus, 1758)  
*ursula* (Loew, 1851) \*  
***Laphria*** Meigen, 1803  
*flava* (Linnaeus, 1761)  
*gibbosa* (Linnaeus, 1758)  
 subfamily Leptogastrinae  
***Leptogaster*** Meigen, 1803  
*cylindrica* (De Geer, 1776)  
*guttiventris* Zetterstedt, 1842  
 subfamily Stenopogoninae  
 tribus Stenopogonini  
***Cyrtopogon*** Loew, 1847  
*flavimanus* (Meigen, 1820)  
*lapponicus* (Zetterstedt, 1838)  
*lateralis* (Fallén, 1814)  
*luteicornis* (Zetterstedt, 1838)  
*pulchripes* Loew, 1871  
 subfamily Stichopogoninae  
 tribus Stichopogonini  
***Lasiopogon*** Loew, 1847  
*cinctus* (Fabricius, 1781)

#### **BOMBYLIIDAE**

subfamily Anthracinae  
 tribus Anthracini  
***Anthrax*** Scopoli, 1763  
*anthrax* (Schrank, 1781)

- trifasciatus* Meigen, 1804  
 = *leucogaster* Wiedemann in Meigen, 1820  
*varius* Fabricius, 1794  
 tribus Exoprosopini  
***Exoprosopa*** Macquart, 1840  
*capucina* (Fabricius, 1781)  
***Micomitra*** Bowden, 1964  
*stupida* (Rossi, 1790)  
 tribus Villini  
***Hemipenthes*** Loew, 1869  
*maura* (Linnaeus, 1758)  
*morio* (Linnaeus, 1758)  
***Thyridanthrax*** Osten Sacken, 1886  
*fenestratus* (Fallén, 1814)  
***Villa*** Lioy, 1864  
*cingulata* (Meigen, 1804)  
 = *circumdatatus* Pipping, 1858, misident. \*  
*hottentotta* (Linnaeus, 1758)  
 = *cingulatus* Frey, 1911, misident.  
*modesta* (Meigen, 1820) \*  
 = *paniscus* Frey, 1911, misident. \*  
*occulta* (Wiedemann in Meigen, 1820)  
 subfamily Bombyliinae  
 tribus Bombyliini  
***Bombylius*** Linnaeus, 1758  
*discolor* Mikan, 1796  
*major* Linnaeus, 1758  
*minor* Linnaeus, 1758  
 = *allibarbis* Zetterstedt, 1842  
 = *albibarbis*, emend.  
***Systoechus*** Loew, 1855  
*ctenopterus* (Mikan, 1796)  
 = *sulphureus* (Mikan, 1796)  
*gradatus* (Wiedemann in Meigen, 1820)  
 = *leucophaeus* Wiedemann in Meigen, 1820  
 subfamily Phthiriinae  
 tribus Phthiriini  
***Phthiria*** Meigen, 1803  
*pulicaria* (Mikan, 1796)

Doubtful records in Bombyliidae: *Villa halteralis* (Kowarz, 1883) \*.

#### MYTHICOMYIIDAE

- Glabellula*** Bezzi, 1902  
*arctica* (Zetterstedt, 1838)

#### SCENOPINIDAE

- Scenopinus*** Latreille, 1802  
*fenestralis* (Linnaeus, 1758)  
 = *glabrifrons* Frey, 1911, misident.  
*niger* (De Geer, 1776)  
 sp. \*  
 = *vitripennis* Haarto, 2000, misident.

#### THEREVIDAE

- subfamily Therevinae  
***Acrosathe*** Irwin & Lyneborg, 1981  
*annulata* (Fabricius, 1805)  
***Dialineura*** Rondani, 1856  
*anilis* (Linnaeus, 1761)  
***Dichoglana*** Irwin & Lyneborg, 1981  
*nigripennis* (Ruthe, 1831)  
***Pandivirilia*** Irwin & Lyneborg, 1981  
*eximia* (Meigen, 1820)  
***Psilocephala*** Zetterstedt, 1838  
*imberbis* (Fallén, 1814)  
***Spiriverpa*** Irwin & Lyneborg, 1981  
*lunulata* (Zetterstedt, 1838)  
 = *clausa* (Frey, 1911)  
***Thereva*** Latreille, 1796  
*cinifera* (Meigen, 1830)  
 = *subfasciata* Schummel, 1839  
*fuscinervis* Zetterstedt, 1838  
*handlirschi* Kröber, 1912  
 = *praestans* Collin, 1948  
*inornata* Verrall, 1909  
*lanata* Zetterstedt, 1838  
*microcephala* Loew, 1847  
*nobilitata* (Fabricius, 1775)  
*plebeja* (Linnaeus, 1758)  
*strigata* (Fabricius, 1794)  
*unica* (Harris, 1780)  
 = *bipunctata* Meigen, 1820  
*valida* Loew, 1847  
 = *circumscripata* Bonsdorff, 1861, misident.

#### Superfamily EMPIDOIDEA

#### ATELESTIDAE

- Atelestus*** Walker, 1837  
*pulicarius* (Fallén, 1816)  
***Meghyperus*** Loew, 1850  
*sudeticus* Loew, 1850 \*

#### EMPIDIDAE

- subfamily Clinocerinae  
***Clinocera*** Meigen, 1803  
 sg. ***Clinocera*** Meigen, 1803  
*appendiculata* (Zetterstedt, 1838)  
 = var. *simplicinervis* Frey, 1913  
*aucta* (Zetterstedt, 1849)  
 sg. ***Hydrodromia*** Macquart, 1835  
*nivalis* (Zetterstedt, 1838)  
*stagnalis* (Haliday, 1833)  
*wesmaeli* (Macquart, 1835)  
 = *fontinalis* Frey, 1916, misident.  
***Dolichocephala*** Macquart, 1823  
*irrorata* (Fallén, 1815)

- ocellata* (Costa, 1854)  
 = *novemguttata* (Strobl, 1893)  
**Wiedemannia** Zetterstedt, 1838  
 sg. **Eucelidia** Mik, 1881  
*zetterstedti* (Fallén, 1826)  
 sg. **Philolutra** Mik, 1881  
*bohemani* (Zetterstedt, 1838)  
*simplex* (Loew, 1862)  
 = *impudica* Mik, 1880  
 = *appendiculata* Frey, 1913, misident.  
 = *fallaciosa* Frey, 1924, misident.  
 sg. **Wiedemannia** Zetterstedt, 1838  
*bistigma* (Curtis, 1834)  
 subfamily Empidinae  
**Empis** Linnaeus, 1758  
 sg. **Anacrositchus** Bezzi, 1909  
*lucida* Zetterstedt, 1838  
 sg. **Coptophlebia** Bezzi, 1909  
*hyalipennis* Fallén, 1816  
 sg. **Empis** Linnaeus, 1758  
*acinerea* Chvála, 1985  
 = *cinerea* Zetterstedt, 1855, preocc.  
*bicuspidata* Collin, 1927  
*chioptera* Meigen, 1804  
*laminata* Collin, 1927  
*nigripes* Fabricius, 1794  
 = *pennaria* Fallén, 1816  
 = *vernalis* Meigen, 1822  
*pennipes* Linnaeus, 1758  
*prodromus* Loew, 1867  
*staegeri* Collin, 1963  
 = *planetica* Hackman, 1980, misident.  
*syrovatkai* Chvála, 1985  
 = *plumipes* Zetterstedt, 1842, preocc.  
 sg. **Euempis** Frey, 1953  
*picipes* Meigen, 1804  
 = *maculipes* Zetterstedt, 1842  
*tessellata* Fabricius, 1794  
 sg. **Kritempis** Collin, 1926  
*livida* Linnaeus, 1758  
 sg. **Platyptera** Meigen, 1803  
*borealis* Linnaeus, 1758  
 sg. **Xanthempis** Bezzi, 1909  
*diagramma* Meigen, 1835  
*laetabilis* Collin, 1926  
*stercorea* Linnaeus, 1761  
*univittata* Loew, 1867  
**Hilara** Meigen, 1822  
*abdominalis* Zetterstedt, 1838  
 = *obscuritarsis* Zetterstedt, 1859  
*albitarsis* von Roser, 1840 \*  
*barbipes* Frey, 1908  
*beckeri* Strobl, 1892  
*biseta* Collin, 1927 \*  
*bistriata* Zetterstedt, 1842  
*brevistyla* Collin, 1927  
*campinosensis* Niesiolowski, 1986 \*  
*canescens* Zetterstedt, 1849  
*chorica* (Fallén, 1816)  
*clavipes* (Harris, 1776)  
 = *spiniimana* Zetterstedt, 1838  
*chlypeata* Meigen, 1822  
*coracina* Oldenberg, 1916 \*  
 = *quadrifaria* Frey, 1913, misident.  
*cornicula* Loew, 1873  
*discoidalis* Lundbeck, 1910  
*diversipes* Strobl, 1892  
 = *germanica* Engel, 1941  
*eviana* Straka, 1976 \*  
*femorella* Zetterstedt, 1842  
*gallica* (Meigen, 1804)  
*griseola* Zetterstedt, 1838  
*hirta* Strobl, 1892 \*  
 = *hirtella* Thuneberg, 1967, misident.  
*hybrida* Collin, 1961 \*  
 = *nitidula* Pipping, 1858, misident.  
*hyposeta* Straka, 1976 \*  
*implicata* Collin, 1927 \*  
*intermedia* (Fallén, 1816)  
 = *pubipes* Loew, 1873  
*interstincta* (Fallén, 1816)  
*lapponica* Chvála, 2002 \*  
*litorea* (Fallén, 1816)  
*longivittata* Zetterstedt, 1842  
 = *longevittata* Frey, 1913, emend.  
 = *bivittata* Strobl, 1892  
*lurida* (Fallén, 1816)  
*maura* (Fabricius, 1776)  
*longifurca* Strobl, 1892 \*  
 = *monedula* Collin, 1927  
*nigritarsis* Zetterstedt, 1838  
 = *infans* Zetterstedt, 1842  
*nitidula* Zetterstedt, 1838  
*pilipes* Zetterstedt, 1838  
*pulchripes* Frey, 1913  
*quadrifasciata* Chvála, 2002  
 = *quadrivittata* Frey, 1913, misident.  
*sturmii* Wiedemann in Meigen, 1822 \*  
 = *cingulata* Frey, 1913, misident.  
*submaura* Collin, 1927  
*tanythrix* Frey, 1913  
*tenuinervis* Zetterstedt, 1838  
*woodiella* Chvála, 1999 \*  
**Rhamphomyia** Meigen, 1822  
 sg. **Aclonempis** Collin, 1926  
*galactoptera* Strobl, 1893 \*

- sg. *Amydroneura* Collin, 1926  
*gibba* (Fallén, 1816)  
 sg. *Holoclera* Schiner, 1860  
*caliginosa* Collin, 1926  
*culicina* (Fallén, 1816)  
*nigripennis* (Fabricius, 1794)  
*sciarina* (Fallén, 1816)  
*trigemina* Oldenberg, 1927 \*  
*umbripennis* Meigen, 1822  
*variabilis* (Fallén, 1816)  
   = *tenuirostris* (Fallén, 1816)  
   = *pallidiventris* (Fallén, 1816)  
 sg. *Lundstroemiella* Frey, 1922  
*dudai* Oldenberg, 1927  
*hybotina* Zetterstedt, 1838  
 sg. *Megacyttarus* Bigot, 1880  
*anomalina* Zetterstedt, 1838  
   = *metatarsata* Zetterstedt, 1838  
*anomalipennis* Meigen, 1822  
   = *anomala* Frey, 1939, misident. \*  
*crassirostris* (Fallén, 1816)  
   = *nigripes* Bonsdorff, 1861, misident.  
*gufitar* Frey, 1922  
*maculipennis* Zetterstedt, 1842  
   = *tephraea* Frey, 1953, misident.  
   = *poissoni*, misident. \*  
*nodipes* (Fallén, 1816)  
   = *spissirostris* (Fallén, 1816)  
*paradoxa* Wahlberg, 1844  
 sg. *Pararhamphomyia* Frey, 1922  
*aethiops* Zetterstedt, 1838  
   = *caudata* Frey, 1913, misident. \*  
*albidiventris* Strobl, 1898  
   = *woldstedti* Frey, 1913  
*albipennis* (Fallén, 1816)  
*albissima* Frey, 1913  
*alpina* Zetterstedt, 1838  
*amoena* Loew, 1840  
*angulifera* Frey, 1913  
*breviventris* Frey, 1913  
*caesia* Meigen, 1822  
   = *filata* Zetterstedt, 1842  
*caudata* Zetterstedt, 1838 \*  
   = *longestylata* Frey, 1916  
*chibinensis* Frey, 1922  
*cribrata* Oldenberg, 1927  
*curvula* Frey, 1913  
*dentata* Oldenberg, 1910  
*fascipennis* Zetterstedt, 1838  
*filicaudula* Frey, 1949  
*fuscipennis* Zetterstedt, 1838  
*fuscula* Zetterstedt, 1838  
*geniculata* Meigen, 1830  
   = *plumipes* Pipping, 1858, misident.  
*griseola* (Zetterstedt, 1838)  
   = *dispar* Zetterstedt, 1838  
   ? = *aperta* Zetterstedt, 1859  
*helleni* Frey, 1922 \*  
*lapponica* Frey, 1955  
   = *rufipes* Zetterstedt, 1838, preocc.  
*lividiventris* Zetterstedt, 1838  
*lucidula* Zetterstedt, 1842  
*marginata* (Fabricius, 1787)  
*modesta* Wahlberg, 1844  
*niveipennis* Zetterstedt, 1838  
*obscura* Zetterstedt, 1838  
*obscuripennis* Meigen, 1830  
   = *nitidicollis* Frey, 1913  
*physoprocta* Frey, 1913  
*pilifer* Meigen, 1838  
   = *dentipes* Zetterstedt, 1842  
   = *glauccella* Zetterstedt, 1842  
   = *intermedia* Frey, 1922  
*plumifera* Zetterstedt, 1838  
*poplitea* Wahlberg, 1844  
*praestans* Frey, 1913  
*pusilla* Zetterstedt, 1838  
*simplex* Zetterstedt, 1849  
*subglauccella* Frey, 1922  
*tibiella* Zetterstedt, 1842  
*tipularia* (Fallén, 1816)  
*unguiculata* Frey, 1913  
 sg. *Rhamphomyia* Meigen, 1822  
*albosegmentata* Zetterstedt, 1838  
*cinerascens* (Meigen, 1804) \*  
*coracina* Zetterstedt, 1849  
*dorsata* Becker, 1915  
   = *phanerostigma* Frey, 1918  
*ignobilis* Zetterstedt, 1859  
   = *attenuata* Frey, 1913  
*laevipes* (Fallén, 1816) \*  
   = *tephraea* Meigen, 1822  
*latifrons* Frey, 1913  
*morio* Zetterstedt, 1838  
*nitidula* Zetterstedt, 1842  
*palmeni* Frey, 1913  
*plumipes* (Meigen, 1804)  
   = *vespertilio* Zetterstedt, 1842  
*reflexa* Zetterstedt, 1838  
*spinipes* (Fallén, 1816)  
*stigmosa* Macquart, 1827  
   = *conformis* Frey, 1913, misident.  
*sulcata* (Meigen, 1804)  
   = *tibialis* authors, misident.

*sulcatina* Collin, 1926  
 = *tibialis* Frey, 1913, misident.  
 = *propinqua* authors, misident.  
*vesiculosa* (Fallén, 1816)  
 subfamily Hemerodromiinae  
***Chelifera*** Macquart, 1823  
*concinicauda* Collin, 1927  
 = *lapponica* Frey, 1950  
*flavella* (Zetterstedt, 1838)  
 = *melanocephala* Bonsdorff, 1861, misident.  
*frigeli* (Zetterstedt, 1838)  
*precabunda* Collin, 1961  
*preparatoria* (Fallén, 1816)  
*stigmatica* (Schiner, 1862)  
*trapezina* (Zetterstedt, 1838)  
 = *melanocephala* Bonsdorff, 1861, misident.  
***Chelipoda*** Macquart, 1823  
*albiset* (Zetterstedt, 1838)  
*inexpectata* Tuomikoski, 1966  
*vocatoria* (Fallén, 1816)  
***Hemerodromia*** Meigen, 1822  
*adulatoria* Collin, 1927 \*  
*oratoria* (Fallén, 1816)  
*raptoria* Meigen, 1830  
***Phylodromia*** Zetterstedt, 1837  
*melanocephala* (Fabricius, 1794)  
 subfamily Oreogetoninae  
***Anthepiscopus*** Becker, 1891  
*oedalinus* (Zetterstedt, 1838)  
***Hormopeza*** Zetterstedt, 1838  
*copulifera* Melander, 1928  
*obliterata* Zetterstedt, 1838  
***Iteaphila*** Zetterstedt, 1838  
*macquarti* Zetterstedt, 1838  
*nitidula* Zetterstedt, 1838  
 = *obscura* Zetterstedt, 1849  
 = var. *fuscipennis* Frey, 1913  
***Ragas*** Walker, 1837  
*unica* Walker, 1837  
 subfamily Trichopezinae  
***Gloma*** Meigen, 1822  
*fuscipennis* Meigen, 1822  
***Heleodromia*** Haliday, 1833  
*immaculata* Haliday, 1833  
***Trichopeza*** Rondani, 1856  
*albocincta* (Boheman, 1864)  
 = *albocincta* Frey, 1913  
*longicornis* (Meigen, 1822)

Doubtful records in Empididae: *Clinocera nigra* Meigen, 1804 \*, *Chelifera astigma* Collin, 1927 \*, *Iteaphila furcata* (Zetterstedt, 1842) \*.

## **HYBOTIDAE**

subfamily Hybotinae  
***Hybos*** Meigen, 1803  
*culiciformis* (Fabricius, 1775)  
*femoratus* (Müller, 1776)  
 = *femorialis*, emend.  
*grossipes* (Linnaeus, 1767)  
***Syndyas*** Loew, 1857  
*nigripes* (Zetterstedt, 1842)  
 subfamily Ocydromiinae  
 tribus Ocydromiini  
***Leptodromiella*** Tuomikoski, 1936  
*crassiseta* (Tuomikoski, 1932)  
***Leptopeza*** Macquart, 1834  
*borealis* Zetterstedt, 1842  
*flavipes* (Meigen, 1820)  
 = *ruficollis* (Meigen, 1820)  
***Ocydromia*** Meigen, 1820  
*glabricula* (Fallén, 1816)  
*melanopleura* Loew, 1840  
 tribus Oedaleini  
***Allanthalia*** Melander, 1927  
*pallida* (Zetterstedt, 1838)  
***Anthalia*** Zetterstedt, 1838  
*schoenherr* Zetterstedt, 1838  
***Euthyneura*** Macquart, 1836  
*albipennis* (Zetterstedt, 1842)  
*gyllenhali* (Zetterstedt, 1838)  
*myrtilli* Macquart, 1836  
 = *myricae* Frey, 1913, misident.  
***Oedalea*** Meigen, 1820  
*freyi* Chvála, 1983  
*holmgreni* Zetterstedt, 1852  
*hybotina* (Fallén, 1816)  
*stigmatella* Zetterstedt, 1842  
*zetterstedti* Collin, 1926  
 tribus Trichinini  
***Bicellaria*** Macquart, 1823  
*austriaca* Tuomikoski, 1955  
*bisetosa* Tuomikoski, 1936  
*intermedia* Lundbeck, 1910  
*nigra* (Meigen, 1824)  
*pilosa* Lundbeck, 1910  
*simplicipes* (Zetterstedt, 1842)  
*spuria* (Fallén, 1816)  
*subpilosa* Collin, 1926  
*sulcata* (Zetterstedt, 1942)  
 = ssp. *vanella* Tuomikoski, 1936  
***Trichina*** Meigen, 1830  
*bilobata* Collin, 1926  
*clavipes* Meigen, 1830  
*elongata* Haliday, 1833  
 = *picipes* Frey, 1956, misident.



- opaca* Loew, 1864  
 = *picipes* Tuomikoski, 1935  
*pallipes* (Zetterstedt, 1838)  
 = *sexsetosa* Frey, 1913  
***Trichinomyia*** Tuomikoski, 1959  
*flavipes* (Meigen, 1830)  
*fuscipes* (Zetterstedt, 1838)  
 = *elongata* Frey, 1913, misident.  
 subfamily Tachydromiinae  
 tribus Drapetini  
***Chersodromia*** Haliday, 1851  
*arenaria* (Haliday, 1833)  
*cursitans* (Zetterstedt, 1819)  
 = *difficilis* Frey, 1913, misident.  
***Crossopalpus*** Bigot, 1857  
*curvinervis* (Zetterstedt, 1842)  
*curvipes* (Meigen, 1822)  
 = *aterrima* (Haliday in Curtis, 1834)  
*humilis* (Frey, 1913)  
*nigritellus* (Zetterstedt, 1842)  
*setiger* (Loew, 1859)  
 = *setigera*, emend.  
***Drapetis*** Meigen, 1822  
 sg. ***Drapetis*** Meigen, 1822  
*arcuata* Loew, 1859  
*assimilis* (Fallén, 1815)  
*exilis* Meigen, 1822  
*infitalis* Collin, 1961  
*ingrica* Kovalev, 1972  
*parilis* Collin, 1926  
*pusilla* Loew, 1859  
*simulans* Collin, 1961  
 sg. ***Elaphropeza*** Macquart, 1827  
*ephippiata* (Fallén, 1815)  
***Stilpon*** Loew, 1859  
 sg. ***Stilpon*** Loew, 1859  
*graminum* (Fallén, 1815)  
 tribus Tachydromiini  
***Platypalpus*** Macquart, 1927  
*agilis* (Meigen, 1822)  
 = *hybridus* (Frey, 1907)  
*albicornis* (Zetterstedt, 1842)  
*albiseta* (Panzer, 1806)  
*albocapillatus* (Fallén, 1815)  
*alpinus* Chvála, 1971 \*  
*alter* (Collin, 1961)  
*annulatus* (Fallén, 1815)  
 = *fascipes* (Meigen, 1822)  
 = *fulvipes* (Meigen, 1822)  
*annulipes* (Meigen, 1822) \*  
*articulatoides* (Frey, 1918)  
*articulatus* Macquart, 1827  
*ater* (Wahlberg, 1844)  
 = *atra* emend.  
*boreoalpinus* Frey, 1943  
 = var. *nigricollis* Frey, 1913 (pro parte)  
*brachystylus* (Bezzi, 1892)  
 = *brunneitibia* (Strobl, 1899)  
 = *autumnalis* Frey, nomen nudum  
*brevicornis* (Zetterstedt, 1842)  
*calceatus* (Meigen, 1822)  
*candicans* (Fallén, 1815)  
*ciliaris* (Fallén, 1816)  
*confiformis* Chvála, 1971  
*confinis* (Zetterstedt, 1942)  
*cothurnatus* Macquart, 1827  
*cryptospina* (Frey, 1909)  
 = *tantulus* (Collin, 1961)  
*cursitans* (Fabricius, 1775)  
 = *bicolor* (Meigen, 1804)  
 = *denominatus* (Frey, 1907)  
*ecalceatus* (Zetterstedt, 1838)  
*exilis* (Meigen, 1822)  
*fenestrella* Kovalev, 1971  
*flavicornis* (Meigen, 1822)  
*fuscicornis* (Zetterstedt, 1842) \*  
*hackmani* Chvála, 1972  
*infectus* (Collin, 1926)  
*interstinctus* (Collin, 1926)  
 = *flavipes* Bonsdorff, 1861, misident.  
*laestadianorum* (Frey, 1913)  
 = *fuscicornis* Frey, 1907, misident.  
*lapponicus* Frey, 1943  
*longicornis* (Meigen, 1822)  
*longiseta* (Zetterstedt, 1842)  
 = *extricatus* (Collin, 1926)  
*luteicornis* (Meigen, 1838)  
 = *difficilis* (Frey, 1907)  
 = *interjectus* (Lundbeck, 1910)  
*luteus* (Meigen, 1804)  
*macula* (Zetterstedt, 1842)  
*maculipes* (Meigen, 1822)  
*major* (Zetterstedt, 1842)  
*melancholicus* (Collin, 1961)  
*minutus* (Meigen, 1804)  
*nigricoxa* (Mik, 1884)  
 = *poppiusi* (Frey, 1913)  
*nigritarsis* (Fallén, 1816)  
*nigrosetosus* (Strobl, 1893)  
*nonstriatus* (Strobl, 1901)  
*notatus* (Meigen, 1822)  
*pallidicornis* (Collin, 1926)  
*pallidiventris* (Meigen, 1822)  
 = *flavipes* (Fabricius, 1794), preocc.  
*pallipes* (Fallén, 1815)

*pectoralis* (Fallén, 1815)  
*pseudofulvipes* (Frey, 1909)  
     = *coarctatus* (Collin, 1926)  
*pseudorapidus* Kovalev, 1971  
*pulicarius* (Meigen, 1830)  
*pygmaeus* (Meigen, 1838)  
     = *pallidicoxa* (Frey, 1913)  
*rapidus* (Meigen, 1822)  
     = *fascipes* Bonsdorff, 1861, misident.  
*sahlbergi* (Frey, 1909)  
     = var. *stramineipes* Frey, 1907  
     = var. *nigricollis* Frey, 1913 (pro parte)  
*scandinavicus* Chvála, 1972 \*  
*sordidus* (Zetterstedt, 1838)  
*stabilis* (Collin, 1861)  
*stackelbergi* Kovalenko, 1971  
*stigmatellus* (Zetterstedt, 1842)  
*strigifrons* (Zetterstedt, 1849)  
*subbrevis* (Frey, 1913)  
*sylvicola* (Collin, 1826)  
*tuomikoskii* Chvála, 1972  
*unguiculatus* (Zetterstedt, 1838)  
*verralli* (Collin, 1826)  
*vividus* (Meigen, 1838)  
     = *albisetoides* Chvála, 1973  
*zetterstedti* Chvála, 1971  
***Symballophthalmus*** Becker, 1889  
*dissimilis* (Fallén, 1815)  
*fuscitarsis* (Zetterstedt, 1859)  
     = *scapularis* Collin, 1961  
***Tachydromia*** Meigen, 1803  
*aemula* (Loew, 1864)

*arrogans* (Linnaeus, 1761)  
*incompleta* (Becker, 1900)  
*lundstroemi* (Frey, 1913)  
*morio* (Zetterstedt, 1838)  
     = *connexa* Bonsdorff, 1861, misident.  
*punctifera* (Becker, 1900)  
     = *bimaculata* Frey, 1941, misident.  
*sabulosa* Meigen, 1830  
*terricola* Zetterstedt, 1819  
*umbranum* Haliday, 1833  
     = *albitarsis* Zetterstedt, 1838  
     = *annulimana* Pipping, 1859, misident.  
***Tachypeza*** Meigen, 1830  
*fennica* Tuomikoski, 1932  
*fuscipennis* (Fallén, 1815)  
*heeri* (Zetterstedt, 1838)  
*nubila* (Meigen, 1804)  
*truncorum* (Fallén, 1815)  
*winthemi* (Zetterstedt, 1838)

#### **MICROPHORIDAE**

subfamily Microphorinae  
 tribus Microphorini  
***Microphor*** Macquart, 1827  
*anomalus* (Meigen, 1824) \*  
*crassipes* Macquart, 1827  
     = *anomalus* Frey, 1913, misident.  
*holosericeus* (Meigen, 1804)  
     = *velutinus* Macquart, 1827

Doubtful records in Microphoridae: *Microphorella praecox* (Loew, 1864) \*.