

## Checklist of Finnish flies: superfamilies Tephritoidea and Sciomyzoidea (Diptera: Brachycera)

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Another part of the updated checklist of Finnish flies is presented. This part covers the families Lonchaeidae, Pallopteridae, Piophilidae, Platystomatidae, Tephritidae, Ulididae, Coelopidae, Dryomyzidae, Heterocheilidae, Phaeomyiidae, Sciomyzidae and Sepsidae. Eight species are recorded from Finland for the first time. The following ten species have been erroneously reported from Finland and are here deleted from the Finnish checklist: *Chaetolonchaea dasyops* (Meigen, 1826), *Earomyia crystallophila* (Becker, 1895), *Lonchaea hirticeps* Zetterstedt, 1837, *Lonchaea laticornis* Meigen, 1826, *Prochyliza lundbecki* (Duda, 1924), *Campiglossa achyrophori* (Loew, 1869), *Campiglossa irrorata* (Fallén, 1814), *Campiglossa tessellata* (Loew, 1844), *Dioxyna sororcula* (Wiedemann, 1830) and *Tephritis nigricauda* (Loew, 1856). The Finnish records of Lonchaeidae: *Lonchaea bruggeri* Morge, *Lonchaea contigua* Collin, *Lonchaea difficilis* Hackman and Piophilidae: *Allopiophila dudai* (Frey) are considered dubious. The total number of species of Tephritoidea and Sciomyzoidea found from Finland is now 262.

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### Introduction

The last complete checklist of Finnish Diptera was published in Hackman (1980a, 1980b). Recent checklists of Finnish species have been published for 'lower Brachycera' i.e. Xylophagidae – Empididae by Kahanpää & Winqvist (2005), Dolichopodidae by Kahanpää & Grichanov (2004) and Syrphidae by Haarto & Kerppola (2004). This paper presents a new checklist of the 151 Finnish species in the superfamily Tephritoidea and 111 species in the superfamily Sciomyzoidea.

The superfamilies Tephritoidea and Sciomyzoidea have not exactly been neglected in Finland, but before the beginning of the

new millennium there was no concentrated Finnish effort to study just these particular groups. Consequently, before our work the level of knowledge on Finnish fauna in these families was very heterogeneous particularly with regard to Tephritoidea.

In Tephritidae the monograph by Merz (1994) covers not only the Central European fauna but also the Northern European species. This work proved very helpful in updating the list of Finnish Tephritidae. North European Pallopteridae are adequately covered by Andersson (1990), Morge (1963) and Rotheray (1999). Both Finnish species of Platystomatidae and most ulidids are included in Rich-

ter (1989a, 1989b) keys for European part of Russia. An important paper on the ulidid genus *Homalocephala* was published by Andersson (1991).

Yet, Tephritoidea includes two problematic families where the taxonomical situation and existing literature are far less comprising. In Piophilidae, the most important key to be used is still the revision of world Piophilidae by McAlpine (1977). This family includes a number of poorly known and recently described arctic and boreal species, some of which may be present in Finland. One such new species was found during the course of this work and it will be described in a separate article by Winqvist & Kahanpää (unpublished).

The situation was a bit better in Lonchaeidae, where Hackman (1956) had conducted a good basic study of the Finnish species and his work was continued by Nuorteva (1967). Also Kovalev (1984) made some important additions to the North European lonchaeids, but the most helpful contribution in this family came from Scotland, where MacGowan has compiled all the existing knowledge of European lonchaeids in his draft key. Lonchaeidae is however a poorly known and taxonomically challenging family, so there will certainly be future changes in the Finnish list of Lonchaeidae.

The second superfamily, Sciomyzoidea, has received more attention in Northern Europe during the last decades. Rozkošný's world catalogue of Sciomyzidae and his book on the Fennoscandian fauna (including Phaeomyiidae) are slightly out of date but still very useful reference works (Rozkošný 1984, 1995). Pont (2002) provides keys and descriptions of all European species of Sepsidae. During these two "Fauna Entomologica Scandinavica"-projects the Finnish museum material of Sciomyzidae and Sepsidae had already been checked. The world sepsid fauna has recently been catalogued by Ozerov (2005). Identifica-

tion of the Finnish dryomyzids is covered by Ozerov (1987) and Stackelberg (1988). The Finnish fauna of superfamily Sciomyzoidea is well-known and only a few additions can be expected.

### Material and methods

The material and methods used were documented in the previous part of the checklist published by the authors (Kahanpää & Winqvist 2005). The majority of examined specimens are stored in the Diptera Fennica collection of the Zoological Museum, University of Helsinki (MZH).

The material in the insect collections of the Department of Applied Biology in Viikki, now part of MZH, Zoological Museum of Turku and Natural History and Conservation Society in Forssa were gone through. Also several individual collections (coll. Haarto in Mietoinen perhaps being the most important) were checked. Malaise trap and yellow tray material caught by Metsähallitus and SYKE in 2005 were also included in the study.

Species are listed in alphabetic order under the genus name. Additional names used for the same species are listed under the valid 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 (*misid.*) 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

A total of 151 tephritoid and 111 sciomyzoid flies have been found in Finland. Table

1 shows the total number of Finnish species for each family in the current checklist and in previously published works (Frey 1941, Hackman 1980b). Eight species are recorded from Finland for the first time. The following species have been erroneously reported from Finland - but not necessarily included in previous checklists - and are here deleted from the list of Finnish species: Lonchaeidae: *Chaetolonchaea dasyops* (Meigen), *Earomyia crystallophila* (Becker), *Lonchaea hirticeps* Zetterstedt, *Lonchaea laticornis* Meigen. Piophilidae: *Prochyliza lundbecki* (Duda). Tephritidae: *Campiglossa achyrophori* (Loew) *Campiglossa irrorata* (Fallén), *Campiglossa tessellata* (Loew), *Dioxyyna sororcula* (Wiedemann), *Tephritis nigricauda* (Loew). The circumstances leading these deletions are discussed in the notes, *q. v.* Three lonchaeid and one piophilid species are listed as doubtful.

### Notes

*Dasiops latiterebra* (Czerny): Morge (1959b) lists one specimen from Finland: 1 ♀, Jakobstad, Mus. Hels. No. 2549, Exemplar-Nr. 1970. There is one female from Pietarsaari (= Jakobstad) in MZH (16.vii.1955, leg. R. Storå). Unfortunately it lacks the serial number labels normally found on *Dasiops* specimens examined by Morge and it remains unclear whether it was actually seen by Morge.

*Dasiops mucronatus* Morge: New to Finland. There are three specimens in MZH: a female from Pietarsaari (= Jakobstad), 16.vii.1955, leg. R. Storå, a female from Helsinki, leg. R. Frey, and a male from Pakila, Helsinki, 6.iv.1950 (ex. larva), leg. L. Tiensuu. The female from Helsinki (= Helsingfors) was identified as *D. latiterebra* by Hackman (1956) and as *D. hennigi* by Morge (1959b)

*Dasiops occultus* Collin: Confirmed as Finnish. First reported from the country by

Hackman (1956). Hackman's specimens from Karislojo and Utsjoki were reassigned by Morge (1959a) as paratypes of *D. perpropinquus* Morge and *D. trichosternalis* Morge respectively. A single female of *D. occultus* Collin (sensu Morge) has since been found in Finland: 1 ♀, *Ab*: Nauvo (=Nagu), Högsar, 7.-18.vi.1961, leg. A. Nordman, in MZH.

*Chaetolonchaea dasyops* (Meigen): Deleted from the Finnish checklist. All records are based on misidentified specimens of *C. pallipennis*, *q. v.*

*Chaetolonchaea pallipennis* (Zetterstedt): New to Finland. Misidentified by Finnish authors (Hackman 1956) and others as *Chaetolonchaea dasyops* (Meigen). Locally common in coastal forests in the southern provinces *Al*, *Ab*, *N* and *Ka*. Hackman (1956) mentions a specimen from *Sa*: Joutseno, but we have not been able to confirm this record.

*Earomyia crystallophila* (Becker): Omitted from the checklist. Finnish according to Kovalev and Morge (1984), but never mentioned in Finnish checklists. All specimens in MZH under names *E. nigroviolacea* (Frey in Lundström & Frey, 1913) and *E. parvicornis* Czerny, 1934 nec. Zetterstedt, 1847 are from the Kola Peninsula in northwestern Russia; this includes the sole type specimen of *nigroviolacea*.

*Lonchaea albigena* Collin: Not listed in Hackman (1980b). Two females are known from Finland: 1 ♀, *Sa*: Mikkeli (= St. Michel), leg. Nordqvist; 1 ♀, *Ta*: Pirkkala (= Birkkala), leg. R. Frey, ID 3517, labels '*Lonchaea hirticeps* Zett. ♀ det. Czerny'/'*albigena* Collin det. W. Hackman'. The female from Otalampi mentioned by Hackman (1956) was not found in museum collections.

*Lonchaea bruggeri* Morge: No males have been found in Finland. Matti Nuorteva

(1967) reared at least two different species of the 'watsoni group' from spruce stumps. Kovalev (1984) notes that *L. bruggeri* is abundant in Northern Russia and he assumes that at least a part of Nuorteva's material belongs to this species. We failed to locate these females and could not check the identifications. A few rather worn females in MZH have later been tentatively placed in this species, but as long as no male is known from the country, we consider all Finnish records doubtful.

*Lonchaea caledonica* MacGowan & Rotheray: Two specimens in MZH, identified by MacGowan: 1 ♀ *N*: Hanko, Tvärminne, leg. Wegelius; 1 ♂ *N*: Espoo, leg. P. Nuorteva (MacGowan & Rotheray 2000). Hackman's figures of male genitalia for *Lonchaea laticornis* (Meigen) are based on Nuorteva's male and they belong to *L. caledonica*.

*Lonchaea contigua* Collin: No males have been found in Finland. The female mentioned by Hackman (1956) is headless and unidentifiable. Two females collected after Hackman's revision may belong to this species: 1 ♀ *Om*: Pietarsaari (705:25), 1.vii.1959, leg. R. Storå, in MZH; 1 ♀ *Ab*: Korppoo, Västankvarn (66796:1957), 21.vii.2004, leg. J. Kahanpää, in author's collection. The presence of *L. contigua* in Finland must be considered doubtful until a male is found.

*Lonchaea defecta* McAlpine: First reported by Nuorteva (1967) from Finland on the basis of material identified by McAlpine. We have examined Nuorteva's specimens and agree with McAlpine's identification.

*Lonchaea difficilis* Hackman: No males have been found in Finland. The type locality is Lake Paanajärvi in Paanajärvi National Park, Russian Karelia (not Finland

as stated by Kovalev and Morge (1984)). Two Finnish females have been tentatively identified as this species, but their true identity could not be confirmed. 1 ♀ *Tb*: Saarijärvi, leg. Woldstedt; 1 ♀ *Ks*: Kuusamo, 3.vii.1958, leg. M. Nuorteva, '*L. difficilis* Hack. ? Det. J. P. McAlpine 1966'. Hackman's (1956) illustration of the ovipositor is based on the first specimen. The third female in MZH (1 ♀ *Ks*: Kuusamo, leg. R. Frey) is from Paanajärvi National Park. Like *L. contigua*, this species must be considered doubtful in Finland until a male is found.

*Lonchaea freyi* Czerny: The male from Kuopio mentioned by Hackman (1956) is still the only specimen found in Finland; the type locality (Salmi) is in Russian Karelia. We have compared the male with the female holotype of *L. freyi* and consider them conspecific.

*Lonchaea hackmani* Kovalev: First reported from Finland in the description of the species (Kovalev 1981).

*Lonchaea hirticeps* Zetterstedt: Deleted from the Finnish checklist. Hackman (1956) lists one female specimen under this name. The specimen was found in MZH (*Al*: Saltvik, leg. R. Frey, no. 3025-underlined). Unfortunately it is in rather a poor condition and its head has been glued to the thorax. Due to the damage it has little faunistic value. If the head and body were correctly associated this specimen could not belong to *L. hirticeps*, but since this can not be proved the true identity of the specimen can not be resolved.

*Lonchaea ipsiphaga* McAlpine: Originally reported from Finland by Nuorteva (1967) as *L. maniola* McAlpine on the basis of a single female, identified by McAlpine himself. According to Kovalev (1975, 1984) this specimen belongs most probably to *L. ipsiphaga*, since the latter spe-

- cies is known from northwestern Russia while *L. maniola* is apparently confined to the Nearctic region. We have examined the specimen in MZH and agree with Kovalev's interpretation. A key to the *L. corticis*-group species with pale calypter fringe is provided by McAlpine & Morge (1970).
- Lonchaea laticornis* Meigen: Deleted from the Finnish checklist. All records are based on misidentification of various *Lonchaea* and *Dasiops* species including *L. caledonica* MacGowan & Rotheray.
- Lonchaea scutellaris* Rondani: New to Finland. 1 ♂ 1 ♀, *Kl*: Parikkala (6820:3630), 30.vi.1990, leg. M. Koponen, in the collection of the Department of Applied Biology, Univ. of Helsinki.
- Lonchaea subneatosa* Kovalev: First reported from Finland by Kovalev (1984).
- Lonchaea tarsata* (Fallén): Confirmed as Finnish. 1 ♂, *Al*: Föglö, Bänö (6682:3143), 7.vi.2002, leg. J. Kahanpää, in author's collection.
- Lonchaea ultima* Collin: New to Finland. 1 ♂, *Al*: Lemland, 12.vi.1962, leg. R. Tuomikoski, in MZH; 1 ♀, *Al*: Lemland, Nåtö (6680:3109), 7.vi.2002, leg. J. Kahanpää, in author's collection.
- Palloptera anderssoni* Rotheray: A recently described species. Rotheray and McGowan (1999) list a Finnish specimen collected "near Lempola (P. Chandler)" (= *Ab*: Lohja, Lempola or *Ta*: Lempäälä?) as a paratype. Three additional specimens were found in MZH: *Al*: Saltvik, leg. R. Frey, *N*: Helsinki, leg. L. Tiensuu and *Om*: Pietarsaari, leg. R. Storå.
- Palloptera marginata* (Meigen): A recent addition to the checklist, recorded from one site in the province *Ta*: (Haarto *et al.* 2002).
- Palloptera venusta* Loew: Another rather new addition to the Finnish fauna, found at several localities in province *Kb* (Polevoi 2001) and province *N* (Nurmijärvi, Kiljavanlähteikkö (6711:3373), 12.vii.2005, leg. J. Kahanpää, ID jka-05-04003).
- Allopiophila flavipes* (Zetterstedt): Not listed in Hackman (1980b). There is one old Finnish specimen of this species in MZH (*Kb*: Eno, leg. Grönvik).
- Allopiophila dudai* (Frey): Doubtful record. Described by Frey (1930) from the Russian Lapland, Kola peninsula. The original article did not contain any records from Finland and there have not been any subsequent published records. The previous Finnish checklists of the family (Frey 1941, Hackman 1980b) include *A. dudai* without giving any details. No Finnish material was found in Finnish collections, but some specimens from MZH are on loan abroad and their labels and identification could not be checked.
- Prochylyza lundbecki* (Duda): Deleted from the Finnish checklist. First mentioned as Finnish by Frey (1941). The only Finnish specimen is a female of *P. varipes* (Meigen). There are a few correctly identified North Russian *P. lundbecki* specimens in MZH.
- Campiglossa achyrophori* (Loew): Deleted from the Finnish checklist. All the Finnish specimens identified as *C. achyrophori* (Loew) belong to *C. guttella* (Rondani). *C. achyrophori* is restricted to elevated areas in central Europe (Merz 1994).
- Campiglossa irrorata* (Fallén): Deleted from the Finnish checklist. Reported from "Carrelia" by W. Nylander and subsequently included in previous Finnish checklists (Frey 1941, Hackman 1980b). Nylander's specimens are from northwestern Russia.
- Campiglossa tessellata* Loew: Deleted from the Finnish checklist. All Finnish material previously identified as *C. tessellata* (Loew) belongs to *C. difficilis* (Hendel).

- Campiglossa solidaginis* (White): A recent addition to the checklist, recorded from two localities in provinces *Ta* and *Sa* (Söderman *et al.* 2007).
- Chetostoma stackelbergi* (Rohdendorf): A recent addition to the checklist, recorded from five localities in provinces *Ab*, *N* and *Ta* (Söderman *et al.* 2007).
- Dioxya sororcula* (Wiedemann): Deleted from the Finnish checklist. All the Finnish specimens identified as *D. sororcula* (Wiedemann) are in fact *D. bidentis* (Robineau-Desvoidy). *D. sororcula* is a widespread species in the tropical and subtropical zones. In Europe it is found only in southern Spain (Foote 1984, Merz 1994).
- Euphranta toxoneura* (Loew): A recent addition to the checklist, recorded from three sites in provinces *Sa* and *Ok* (Söderman *et al.* 2007).
- Oxya nebulosa* (Wiedemann): A recent addition to the checklist based on specimens from provinces *Al* and *Kb* in MZH (Söderman *et al.* 2007).
- Stemonocera superciliata* (Frey): Another recent addition to the checklist, recorded from one site in province *Ta* (Söderman *et al.* 2007). Previously misidentified as *Trypeta zoe* (Haarto *et al.* 2002).
- Tephritis* sp. cf. *rydeni* Hering: This problematic taxon is widespread in southern and central Finland (Söderman *et al.* 2007). It is close to *T. leontodontis* (Degeer) in wing pattern (Fig. 1) and colour, but the ovipositor tip is *T. neesii*-like. *T. rydeni* Hering, 1956 is sometimes considered a synonym of *T. neesii*. Its true status should be reassessed and the Finnish material compared with the types of *T. rydeni*. In Merz (1994) this form keys out as *T. dioscurea* (Loew) or *T. tanaceti* Hering. Finnish records of *Tephritis nigricauda* (Loew) belong to this taxon (Frey 1943, Silfverberg 1981).
- Tephritis fallax* (Loew): First listed by Frey (Frey 1941). Accidentally omitted in Hackman's list (Hackman 1980b, Silfverberg 1981).
- Tephritis nigricauda* (Loew): See *Tephritis* sp. cf. *rydeni* Hering (q.v.).
- Terellia plagiata* (Dahlbom): A recent addition to the checklist, found only in province *Al* (Söderman *et al.* 2007).
- Urophora cardui* (Linnaeus): First recorded from Finland in 1981 (Jansson & Lindberg 1982).
- Pseudotephritis tryptoptera* (Hennig): New to Finland. 1 ♂ *St*: Säkylä (67755:32594), 23.vi.2005, leg. I. Kakko; 2 ♂ 1 ♀, *Ta*: Somero, 16.vi.2005, leg. I. Kakko; 1 ♀ *Ab*: Karjalohja, Tammisto (66840:33199), 18.vi.2006, leg. J. Kahanpää, ID jka06-00690. *P. tryptoptera* was erroneously synonymised with the nearctic *P. corticalis* (Loew) by Steyskal (1962) (Krivosheina & Krivosheina 1997).
- Melieria omissa* (Meigen): New to Finland. Recorded from the coastal provinces *Ab*, *N*, *Ka*, *St*, *Oa*, *Om* and *Oba*. This species was previously known as *M. obscuripes* (Loew) in Finland following a misidentification by Krogerus (1932).
- Pteromicra pectorosa* (Hendel): New to Finland. *Ab*: Mietoinen, Perkko 25.-28.vii.2002, leg. A. Haarto. Collected with a light trap.
- Sciomyza sebezica* Przhiboro: New to Finland. 1 ♂ 2 ♀, *Tb*: Jyväskylä, Eerolanlahti (69055:34338), 22.vii.-10.viii.2004, leg. J. Kahanpää; 2 ♂ 2 ♀, *Oba*: Liminka, Liminganlahti (719601:342284), 30.vii.-1.ix.2005, leg. J. Kahanpää. A recently described species previously known only from the type locality, Lake Anninskoe in Pskov Province, Russia (Przhiboro 2001). Collected with Malaise traps from channels with slowly flowing water and well-

developed shore vegetation (*Phragmites australis*, *Potentilla palustris*) on a partially floating layer of *Sphagnum* mosses.

*Orygma luctuosum* Meigen: In MZH there is a single specimen of this species allegedly taken from Rovaniemi by W. Hellén. This record is highly suspect: *O. luctuosum* is a maritime species and it is unlikely that it could have been recorded so far from the seashore. Hellén had collected a long series of *O. luctuosum* from the Petsamo on the arctic coast a few days earlier. It is very probable that he either mislabeled the specimen or inadvertently transferred it to Rovaniemi, some 400 km from the arctic coastline.

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APPENDIX A: Checklist of Finnish Diptera,  
superfamilies Tephritoidea and Sciomyzoidea

## Order DIPTERA

## Suborder BRACHYCERA

## Infraorder MUSCOMORPHA

## Superfamily TEPHRITOIDEA

Family LONCHAEIDAE

## subfamily Dasiopinae

## tribus Dasiopini

***Dasiops* Rondani, 1856**

- = *Psilolonchaea* Czerny, 1934
- appendiculatus* Morge, 1959
- = *facialis* Hackman, 1956 nec Collin, 1953 p.p.
- facialis* Collin, 1953
- mucronatus* Morge, 1959 \*
- = *hennigi* Morge, 1959 misid.
- = *latiterebra* Hackman 1956 nec. Czerny, 1934 \*
- occultus* Collin, 1953 \*
- perpropinquus* Morge, 1959
- = *occulta* Hackman, 1956 nec Collin, 1953 p.p.
- spatiosus* (Becker, 1895)
- trichosternalis* Morge, 1959
- = *occulta* Hackman, 1956 nec Collin, 1953 p.p.
- = *facialis* Hackman, 1956 nec Collin, 1953 p.p.

## subfamily Earomyiinae

***Chaetolonchaea* Czerny, 1934**

- pallipennis* (Zetterstedt, 1855) \*
- = *dasyops* Hackman, 1956 nec (Meigen, 1826)

***Earomyia* Zetterstedt, 1842**

- = *Spermatolonchaea* Hendel, 1932
- lonchaeoides* Zetterstedt, 1848
- schistopyga* Collin, 1953
- viridana* (Meigen, 1826)

***Protearomyia* McAlpine, 1962**

- = *Priscoearomyia* Morge, 1963
- nigra* (Meigen, 1826)

## subfamily Lonchaeinae

## tribus Lonchaeini

***Lonchaea* Fallén, 1820**

- = *Tricholonchaea* Czerny, 1934
- affinis* Malloch, 1920
- = *laxa* auct. nec. Collin, 1953
- alpigena* Collin, 1953
- albitarsis* Zetterstedt, 1838
- caledonica* MacGowan & Rotheray, 2000 \*
- = *laticornis* Hackman, 1956 nec Meigen, 1826 p.p. \*
- chorea* (Fabricius, 1781)
- collini* Hackman, 1956
- corusca* Czerny, 1934
- = *alni* Ringdahl, 1947

= *lauta* Collin, 1953

? = *britteni* Collin, 1953

*defecta* McAlpine, 1964

*deutschii* Zetterstedt, 1838

= *sarekensis* Frey, 1916

*freyi* Czerny, 1934 \*

*fugax* Becker, 1895

= *cariecola* Czerny, 1934

*hackmani* Kovalev, 1981 \*

= *peregrina* auct. nec Becer, 1895 p.p.

*ipsiphaga* McAlpine, 1964 \*

= *maniola* auct. nec McAlpine, 1964

*limatula* Collin, 1953

= *flavidipennis* auct. nec Zetterstedt, 1847

*nitens* (Bigot, 1885)

= *krogerusi* Czerny, 1934

*palposa* Zetterstedt, 1847

*patens* Collin, 1953

*ragnari* Hackman, 1956

*scutellaris* Rondani, 1874 \*

*sororcula* Hackman, 1956

*stackelbergi* Czerny, 1934

*subneatosia* Kovalev, 1974 \*

= *peregrina* auct. nec Becer, 1895 p.p.

*sylvatica* Beling, 1873

= *lucidiventris* Becker, 1895

*tarsata* Fallén, 1820 \*

*ultima* Collin, 1953 \*

*zetterstedti* Becker, 1902

Doubtful records in Lonchaeidae: *Dasiops latiterebra*

Czerny, 1934 \*, *Lonchaea bruggeri* Morge, 1967 \*,

*Lonchaea contigua* Collin, 1953 \*, *Lonchaea difficilis*

Hackman, 1956 \*

Family PALLOPTERIDAE

## subfamily Eurygnathomyiinae

***Eurygnathomyia* Czerny, 1904**

*bicolor* (Zetterstedt, 1837)

## subfamily Pallopterinae

***Palloptera* Fallén, 1820**

*ambusta* (Meigen, 1826)

*anderssoni* Rotheray & MacGowan, 1999 \*

*ephippium* Zetterstedt, 1860

*formosa* Frey, 1930

*laetabilis* Loew, 1873

*marginata* (Meigen, 1826) \*

= *costalis* Loew, 1873

*modesta* (Meigen, 1826)

= *parallela* Loew, 1858

= *umbellatarum* Hackman, 1980 nec (Fabricius,

1775)

*saltuum* (Linnaeus, 1758)

*trimacula* (Meigen, 1826)  
*umbellatarum* (Fabricius, 1775)  
 = *arcuata* Hackman, 1980 nec (Fabricius, 1775)  
*usta* (Meigen, 1826)  
*ustulata* Fallén, 1820  
*venusta* Loew, 1858 \*  
 = *atriventris* Ringdahl, 1947

**PIOPHILIDAE**

subfamily Piophilinae

tribus Piophilini

***Allopiophila* Hendel, 1917**

= *Arctopiophila* Duda, 1924  
 = *Boreopiophila* Frey, 1930  
 = *Parapiophila* McAlpine, 1977

*calceata* (Duda, 1924)*flavipes* (Zetterstedt, 1847) \**lonchaeoides* (Zetterstedt, 1838)*luteata* (Haliday, 1833)*pectiniventris* (Duda, 1924)*tomentosa* Frey, 1930*vulgaris* (Fallén, 1820)sp. aff. *vulgaris****Amphipogon* Wahlberg, 1845***flavum* (Zetterstedt, 1838)= *spectrum* Wahlberg, 1845***Mycetaulus* Loew, 1845***bipunctatus* (Fallén, 1823)***Piophila* Fallén, 1810***casei* (Linnaeus, 1758)***Prochyliza* Walker, 1849**= *Liopiophila* Duda, 1924*nigrimana* (Meigen, 1826)*varipes* (Meigen, 1830)= *lundbecki* misid. \****Pseudoseps* Becker, 1902***signata* (Fallén, 1820)***Stearibia* Liroy, 1864***nigriceps* (Meigen, 1826)= *foveolata* (Meigen, 1826)= *coerulescens* Zetterstedt, 1847

Doubtful records in Piophilidae: *Allopiophila dudai*  
 (Frey, 1930) \*

**Family PLATYSTOMATIDAE*****Platystoma* Meigen, 1803***seminatione* (Fabricius, 1775)***Rivellia* Robineau-Desvoidy, 1930***syngenesiae* (Fabricius, 1781)**Family TEPHRITIDAE**

subfamily Trypetinae

tribus Adramini

***Euphranta* Loew, 1862**sg. ***Euphranta* Loew, 1862***connexa* (Fabricius, 1794)sg. ***Rhacochlaena* Loew, 1862***toxoneura* (Loew, 1846) \*

tribus Carpomyini

***Rhagoletis* Loew, 1862***alternata* (Fallén, 1814)*cerasi* (Linnaeus, 1758)

tribus Trypetini

***Acidia* Robineau-Desvoidy, 1830***cognata* (Wiedemann, 1817)***Anomoia* Walker, 1835**= *Phagocarpus* Rondani, 1970*purmunda* (Harris, 1780)= *permundus* misspelling***Chetostoma* Rondani, 1956***stackelbergi* (Rohdendorf, 1955) \****Cornutrypeta* Han, Wang & Kim, 1993***spinifrons* (Schroeder, 1913)*superciliata* (Frey, 1935) \****Euleia* Walker, 1835**= *Cryptaciura* Hendel, 1927*heraclei* (Linnaeus, 1758)*rotundiventris* (Fallén, 1814)***Myoleja* Rondani, 1856***lucida* (Fallén, 1826)***Philophylla* Rondani, 1870***caesio* (Harris, 1776)***Trypeta* Meigen, 1803***artemisiae* (Fabricius, 1794)*immaculata* (Macquart, 1835)= *hamifera* Loew, 1846*zoe* Meigen, 1826

subfamily Tephritinae

tribus Dithrycini

***Dithryca* Rondani, 1856***gutturalis* (Meigen, 1826)

tribus Eutretini

***Xanthomyia* Phillips, 1923**= *Paracarphotricha* Hendel, 1927*alpestris* (Pokorny, 1887)= *pseudoradiata* (Becker, 1900)

tribus Myopitini

***Eurasimona* Korneyev & White, 1991***stigma* (Loew, 1840)***Urophora* Robineau-Desvoidy, 1830**= *Euribia* Meigen, 1800, suppr.*aprica* (Fallén, 1820)*cardui* (Linnaeus, 1758) \**cuspidata* (Meigen, 1826)*jaceana* (Hering, 1935)*solstitialis* (Linnaeus, 1758)*stylata* (Fabricius, 1775)

tribus Noeetini

**Ensina Robineau-Desvoidy, 1830**  
*sonchi* (Linnaeus, 1767)

**Noeeta Robineau-Desvoidy, 1830**  
= *Oplocheta* Rondani, 1856  
*pupillata* (Fallén, 1814)  
tribus Tephritini

**Campiglossa Rondani, 1870**  
*absinthii* (Fabricius, 1805)  
= *parvula* (Loew, 1862)  
*argyrocephala* (Loew, 1844)  
*difficilis* (Hendel, 1927)  
= *tessellata* misid. \*  
*grandinata* (Rondani, 1870)  
= *borealis* Portschincky, 1875  
*guttella* (Rondani, 1870)  
= *achyrophori* misid. \*  
*loewiana* (Hendel, 1927)  
*plantaginis* (Haliday, 1833)  
*punctella* (Fallén, 1814)  
*solidaginis* (White, 1986) \*

**Dioxyna Frey, 1945**  
*bidentis* (Robineau-Desvoidy, 1830)  
= *sororcula* misid. \*

**Heringina Aczél, 1940**  
*guttata* (Fallén, 1814)

**Oxyna Robineau-Desvoidy, 1830**  
*flavipennis* (Loew, 1844)  
*nebulosa* (Wiedemann, 1817) \*  
*parietina* (Linnaeus, 1758)

**Sphenella Robineau-Desvoidy, 1830**  
*marginata* (Fallén, 1814)

**Tephritis Latreille, 1804**  
*angustipennis* (Loew, 1844)  
*bardanae* (Schrank, 1803)  
*cometa* (Loew, 1840)  
*conura* (Loew, 1844)  
*dilacerata* (Loew, 1846)  
*fallax* (Loew, 1844) \*  
*hyoscyami* (Linnaeus, 1758)  
*leontodontis* (De Geer, 1776)  
*neesii* (Meigen, 1830)  
= *neesii* misspelling  
*ruralis* (Loew, 1844)  
sp. cf. *rydeni* Hering, 1956 \*  
= *dioscurea* misid.  
= *nigricauda* misid. \*

**Trupanea Schrank, 1795**  
*stellata* (Fuessly, 1775)  
tribus Terellini

**Chaetorellia Hendel, 1927**  
*jaceae* (Robineau-Desvoidy, 1830)

**Chaetostomella Hendel, 1927**  
*cylindrica* (Robineau-Desvoidy, 1830)  
= *onotrophes* (Loew, 1848)

**Orellia Robineau-Desvoidy, 1830**  
*falcata* (Scopoli, 1763)

**Terellia Robineau-Desvoidy, 1830**  
sg. **Cerajocera Rondani, 1856**  
*ceratocera* (Hendel, 1913)  
*plagiata* (Dahlbom, 1850) \*  
*tussilaginis* (Fabricius, 1775)  
sg. **Terellia Robineau-Desvoidy, 1830**  
*ruficauda* (Fabricius, 1794)  
*serratulae* (Linnaeus, 1758)  
*winthemi* (Meigen, 1830)  
tribus Xyphosiini

**Xyphosia Robineau-Desvoidy, 1830**  
*miliaria* (Schrank, 1781)  
tribus uncertain  
**Acinia Robineau-Desvoidy, 1830**  
*corniculata* (Zetterstedt, 1819)

#### Family ULIDIIDAE

subfamily Otitinae  
tribus Myennidini

**Pseudotephritis Johnson, 1802**  
*trypetopectera* (Hennig, 1939) \*  
= *corticalis* auct. nec. (Loew, 1873)  
tribus Otitini

**Ceroxys Macquart, 1835**  
= *Ortalis* Fallén, 1810, preocc.  
*urticae* (Linnaeus, 1758)

**Herina Robineau-Desvoidy, 1830**  
*frondescentiae* (Linnaeus, 1758)  
*paludum* (Fallén, 1820)  
*palustris* (Meigen, 1826)

**Melieria Robineau-Desvoidy, 1830**  
*crassipennis* (Fabricius, 1794)  
*omissa* (Meigen, 1826) \*  
= *obscuripes* misid.

**Tetanops Fallén, 1820**  
sg. **Eurycephalomyia Hendel, 1907**  
*sintensis* Becker, 1909

sg. **Tetanops Fallén, 1820**  
*myopina* Fallén, 1820  
subfamily Ulidiinae  
tribus Seiopterini

**Homalocephala Zetterstedt, 1838**  
*albitarsis* Zetterstedt, 1838  
= *bipunctata* (Loew, 1854)  
*angustata* (Wahlberg, 1838)  
*apicalis* (Wahlberg, 1838)  
*bimaculata* (Wahlberg, 1838)  
*biseta* Frey, 1908  
*biumbrata* (Wahlberg, 1838)  
= *albitarsis* auct. nec Zetterstedt, 1838

**Seioptera Kirby, 1817**  
*vibrans* (Linnaeus, 1758)

tribus Ulidiini

**Physiphora Fallén, 1810**

= *Chrysomyza* Fallén, 1817

*alceae* (Preyssler, 1791)

= *demandata* (Fabricius, 1798)

Order DIPTERA

Suborder BRACHYCERA

Infraorder MUSCOMORPHA

Superfamily SCIOMYZOIDEA

Family COELOPIDAE

**Coelopa Meigen, 1830**

sg. **Fucomyia Haliday, 1837**

*frigida* (Fabricius, 1805)

Family DRYOMYZIDAE

subfamily Dryomyzinae

**Dryomyza Fallén, 1820**

*decrepita* Zetterstedt, 1838

*flaveola* (Fabricius, 1794)

**Pseudoneuroctena Ozerov, 1987**

*senilis* (Zetterstedt, 1838)

**Neuroctena Rondani, 1868**

*anilis* (Fallén, 1820)

Family HETEROCHEILIDAE

**Heterocheila Rondani, 1857**

*buccata* (Fallén, 1820)

Family PHAEOMYIIDAE

**Pelidnoptera Rondani, 1856**

= *Phaeomyia* Schiner 1862

*fuscipennis* (Meigen, 1830)

= *fumipennis* (Zetterstedt, 1846)

= *leptiformis* misid.

*nigripennis* (Fabricius, 1794)

Family SCIOMYZIDAE

subfamily Sciomyzinae

tribus Sciomyzini

**Colobaea Zetterstedt, 1837**

= *Ctenulus* Rondani, 1856

*bifasciella* (Fallén, 1820)

*distincta* (Meigen, 1830)

*nigroaristata* Rozkošný, 1984

*pectoralis* (Zetterstedt, 1847)

*punctata* Lundbeck, 1923

**Ditaeniella Sack, 1939**

*grisescens* (Meigen, 1830)

**Pherbellia Robineau-Desvoidy, 1830**

= *Melina* Robineau-Desvoidy, 1830

= *Oxytaenia* Sack, 1939, preocc.

*albocostata* (Fallén, 1820)

*alpina* (Frey, 1930)

*argyra* Verbeke, 1967

*brunnipes* (Meigen, 1838)

*cinerella* (Fallén, 1820)

*dubia* (Fallén, 1820)

*griseicollis* Becker, 1900

= *lapponica* (Ringdahl, 1948)

*griseola* (Fallén, 1820)

= *dorsata* misid.

*hackmani* Rozkošný, 1982

*nana* (Fallén, 1820)

*obscura* (Ringdahl, 1948)

*obtusa* (Fallén, 1820)

*pallidiventris* (Fallén, 1820)

*rozkosnyi* Verbeke, 1967

= *scutellaris* misid.

*schoenherrri* (Fallén, 1826)

*sordida* (Hendel, 1902)

*stackelbergi* Elberg, 1965

*stylifera* Rozkošný, 1982

*ventralis* (Fallén, 1820)

**Pteromicra Liroy, 1864**

= *Dichrochira* Hendel, 1901

*angustipennis* (Staeger, 1845)

= *glabricula* Frey, 1941 nec (Fallén, 1820)

*glabricula* (Fallén, 1820)

= *nigrimana* Meigen, 1830

*leucopeza* (Meigen, 1838)

*pectorosa* (Hendel, 1902) \*

**Sciomyza Fallén, 1820**

= *Bischofia* Hendel, 1902

*dryomyzina* Zetterstedt, 1846

*sebezica* Przhiboro, 2001 \*

*simplex* Fallén, 1820

**Tetanura Fallén, 1820**

*pallidiventris* Fallén, 1820

tribus Tetanocerini

**Antichaeta Haliday, 1838**

= *Heteropteryx* Hendel, 1902

*analis* (Meigen, 1830)

*atriseta* (Loew, 1849)

*brevipennis* (Zetterstedt, 1846)

*nigra* Karl, 1921

= *nigroaenea* Frey, 1935

**Coremacera Rondani, 1856**

*marginata* (Fabricius, 1775)

= *tristis* (Harris, 1780)

**Dichetophora Rondani, 1868**

*finlandica* Verbeke, 1964

= *obliterata* auct. nec (Fabricius, 1805)

**Dictya Meigen, 1803**

*umbranum* (Linnaeus, 1758)

**Ectinocera Zetterstedt, 1838**

*borealis* Zetterstedt, 1838

***Elgiva* Meigen, 1838**

- cucularia* (Linnaeus, 1767)  
*divisa* (Loew, 1845)  
*solicita* (Harris, 1780)  
 = *rufa* Panzer, 1798, preocc.  
 = *sundewalli* Kloet & Hincks, 1945

***Euthycera* Latreille, 1829**

- = *Lunigera* Hendel, 1900  
*chaerophylli* (Fabricius, 1798)

***Hydromya* Robineau-Desvoidy, 1830**

- dorsalis* (Fabricius, 1775)

***Ilione* Haliday in Curtis, 1837**

- = *Knutsonia* Verbeke, 1964  
 sg. ***Ilione* Haliday in Curtis, 1837**  
*albisetata* (Scopoli, 1763)  
 sg. ***Tumidicerus* Knutson & Berk, 1967**  
*lineata* (Fallén, 1820)

***Limnia* Robineau-Desvoidy, 1830**

- paludicola* Elberg, 1965  
*unguicornis* (Scopoli, 1763)

***Pherbina* Robineau-Desvoidy, 1830**

- coryleti* (Scopoli, 1763)

***Psacadina* Enderlein, 1939**

- zernyi* (Mayer, 1953)  
 = *punctata* auct. nec Fabricius, 1794

***Renocera* Hendel, 1900**

- pallida* (Fallén, 1820)  
*striata* (Meigen, 1830)  
*stroblii* Hendel, 1900  
 = *fuscinervis* auct. nec Zetterstedt, 1838

***Sepedon* Latreille, 1804**

- sphegea* (Fabricius, 1775)  
*spinipes* (Scopoli, 1763)

***Tetanocera* Duméril, 1800**

- arrogans* Meigen, 1830  
*elata* (Fabricius, 1781)  
*ferruginea* Fallén, 1820  
 = *brunnipennis* Frey, 1924

*freyi* Stackelberg, 1963

- fuscinervis* (Zetterstedt, 1838)  
 = *unicolor* Loew, 1874

*hyalipennis* von Roser, 1840*lapponica* Frey, 1924*latifibula* Frey, 1924*montana* Day, 1881

- = *borealis* Frey, 1924

*ornatifrons* Frey, 1924*phyllophora* Melander, 1920

- = *nigricosta* auct. nec Rondani, 1868

*robusta* Loew, 1847*silvatica* Meigen, 1830***Trypetoptera* Hendel, 1900**

- punctulata* (Scopoli, 1763)

Family SEPSIDAE***Meroplus* Rondani, 1874**

- minutus* (Wiedemann, 1830)  
 = *stercorarius* (Robineau-Desvoidy, 1830)

***Nemopoda* Robineau-Desvoidy, 1830**

- nitidula* (Fallén, 1820)  
 = *cylindrica* (Fabricius, 1794) preocc.

*pectinulata* Loew, 1873***Ortalischema* Frey, 1925**

- albitarse* (Zetterstedt, 1847)

***Pseudonemopoda* Duda, 1926**

- speiseri* Duda, 1926

***Saltella* Robineau-Desvoidy, 1830**

- = *Pandora* Haliday, 1833  
*sphondylii* (Schrank, 1803)  
 = *scutellaris* (Fallén, 1820)

***Sepsis* Fallén, 1810**

- = *Sepsidimorpha* Frey, 1908  
*biflexuosa* Strobl, 1893  
*cynipsea* (Linnaeus, 1758)  
*duplicata* Haliday, 1838  
 = *pilipes* van der Wulp, 1871  
 = *pilipes* Loew, 1873, preocc.  
*flavimana* Meigen, 1826  
 = *ruficornis* Meigen, 1826  
 = *simplex* Goetghebuer & Bastin, 1925  
 = *borealis* Frey, 1925

*fulgens* Meigen, 1826

- = *communis* Frey, 1925

*luteipes* Melander & Spuler, 1917

- = *lamellifera* Frey, 1925

*nigripes* Meigen, 1826*orthocnemis* Frey, 1908*punctum* (Fabricius, 1794)*thoracica* (Robineau-Desvoidy, 1830)*violacea* Meigen, 1826***Themira* Robineau-Desvoidy, 1830**

- = *Enicita* Westwood, 1840  
 = *Enicomira* Duda, 1926

*annulipes* (Meigen, 1826)*arctica* (Becker, 1915)*biloba* Andersson, 1975*germanica* Duda, 1926*gracilis* (Zetterstedt, 1847)*leachi* (Meigen, 1826)*lucida* (Staeger, 1844)*malformans* Melander & Spuler, 1917*minor* (Haliday, 1833)*nigricornis* (Meigen, 1826)*paludosa* Elberg, 1963*pusilla* (Zetterstedt, 1847)*putris* (Linnaeus, 1758)*superba* (Haliday, 1833)