

## Revision of Chloropidae of the collection of B.A.Gimmerthal and a check-list of Latvian Chloropidae (Diptera)

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### Abstract

Karpa A. 2001. Revision of Chloropidae collection of B.A. Gimmerthal and a check-list of Latvian Chloropidae (Diptera). – *Latv. Entomol.* 38: 44-49.

15 species of Chloropidae have been determined in the collection of B.A.Gimmerthal. A check-list of the Chloropidae found within the present borders of Latvia is compiled. The check-list includes 35 genera and 115 species.

**Key words:** Chloropidae, Diptera, Latvia, fauna.

### Introduction

The family Chloropidae includes very small to small (usually 1-7 mm), smooth, rather bristleless flies, usually predominantly black or basically yellow with black to brown stripes and maculae. The distribution of the family is World wide. They may be observed almost anywhere in grasslands, marshes, and low vegetation in forests, and they are frequently collected in great numbers in fields of gramineous plants. The larvae are mainly phytophagous and saprophagous, sometimes carnivorous. Some of phytophagous species are known as economic as pests of cereals.

The first data on Latvian Chloropidae appeared in the first part of the 19<sup>th</sup> century in the work by B.A.Gimmerthal (1842.). He noted 18 species for Livland. Until the 1970s investigations were concentrated mainly on biology, ecology and plant protection of three pest species of Chloropidae – *Oscinella frit* (L.), *O. pusilla* (Mg), *Chlorops pumilionis* Bjerkander (Ozols, 1963.). The next faunistic data appeared only at the end of the 20<sup>th</sup> century (Karpa, 1978,1979a, 1979b,1981a, 1981b, 1981c,1997).

In order to check validity of the data we have revised B.A.Gimmerthal's collection of Chloropidae deposited in the Museum of Systematic Zoology of the University of Latvia.

Our investigations showed that several species were misidentified (tab. 1). Several specimens were damaged and it was not possible to identify the species. In total, we determined 15 species of Chloropidae in the collection.

A check-list of the Chloropidae found within the present borders of Latvia is compiled. The check-list includes 35 genera and 115 species.

Table 1  
Results of the revision of Gimmerthal's collection

Content of labels of Gimmerthal's collection	Results of revision
<i>Platycephala planifrons</i>	<i>Platycephala planifrons</i> F.
<i>Chlorops</i>	
<i>cincta</i>	<i>Elachiptera cornuta</i> Fll. damaged
<i>geminata</i>	<i>Chlorops troglodytes</i> Ztt
<i>nasuta</i>	<i>Chlorops speciosus</i> Mg.
<i>laeta</i>	<i>Chlorops speciosus</i> Mg.
<i>notata</i>	<i>Chlorops planifrons</i> Lw.
<i>calceata</i>	<i>Chlorops pumilionis</i> (Bjerkander)
<i>sp.</i>	<i>Meromyza nigriventris</i> Mcq.
<i>taeniopus</i>	damaged
<i>cingulata</i>	<i>Cetema myopina</i> (Lw.)
<i>cereris</i>	<i>Cetema elongata</i> (Tonnoir)
<i>elongata</i>	<i>Rhofesiella plumigera</i> (Mg.)
<i>plumiger</i>	syn. <i>Cryptonevra tarsata</i> (Fll.)
<i>laevigata</i>	<i>Oscinella pusilla</i> (Mg.)
<i>pusilla</i>	<i>Oscinella pusilla</i> (Mg.)
<i>maura</i>	syn. <i>Oscinella frit</i> (L.)
<i>fumipennis</i>	damaged
<i>vindicata</i>	<i>Thaumatomyia glabra</i> (Mg.)
<i>glabra</i>	<i>Meromyza nigriventris</i> Mcq.
<i>Meromyza saltatrix</i>	<i>Meromyza mosquensis</i> Fedoseeva
<i>sp.</i>	

## Check-list of Latvian Chloropidae

### Oscinellinae

*Gaurax* Loew, 1863

*Gaurax strobilum* Karsp, 1981

*Gaurax maculipennis* (Zetterstedt, 1848)

*Rhofesiella* Adams, 1905

*Rhofesiella plumigera* (Meigen, 1830)

*Hapleginella* Duda, 1933

*Hapleginella laevifrons* (Loew, 1858)

*Elachiptera* Macquart, 1835

*Elachiptera brevipennis* (Meigen, 1830)

*Elachiptera tuberculifera* (Corti, 1909)

*Elachiptera scrobiculata* (Strobl, 1900)

*Elachiptera cornuta* (Fallén, 1820)

*Elachiptera diastema* Collin, 1946  
*Siphunculina* Rondani, 1856  
*Siphunculina aenea* (Macquart, 1835)  
*Siphunculina quingulangula* Loew, 1873  
*Fiebrigella* Duda, 1921  
*Fiebrigella palposa* (Fallén 1820)  
*Siphonella* Macquart, 1835  
*Siphonella oscinina* (Fallén, 1820)  
*Calamoncosis* Enderlein, 1911  
*Calamoncosis glyceriae* Nartshuk, 1958  
*Calamoncosis minima* (Strobl, 1893)  
*Calamoncosis duinensis* (Strobl, 1909)  
*Lipara* Meigen, 1839  
*Lipara lucens* Meigen, 1830  
*Lipara baltica* Karps, 1978  
*Lipara pullitarsis* Doskočil et Chvala, 1971  
*Tricimba* Lioy, 1864  
*Tricimba cincta* (Meigen, 1830)  
*Aphanotrigonum* Duda, 1932  
*Aphanotrigonum trilineatum* (Meigen, 1830)  
*Aphanotrigonum nigripes* (Zetterstedt, 1848)  
*Aphanotrigonum cinctellum* (Zetterstedt, 1848)  
*Oscinimorpha* Lioy, 1864  
*Oscinimorpha sordidissima* (Strobl, 1893)  
*Oscinimorpha minutissima* (Strobl, 1900)  
*Dasyopa* Malloch, 1918  
*Dasyopa pygmaea* (Meigen, 1838)  
*Dasyopa scutellata* (von Roser, 1840)  
*Conioscinella* Duda, 1929  
*Conioscinella sordidella* (Zetterstedt, 1848)  
*Conioscinella zetterstedti* Andersson, 1966  
*Conioscinella frontella* (Fallén, 1820)  
*Conioscinella mimula* Collin, 1949  
*Speccafrons* Sabrosky, 1980  
*Speccafrons halophila* (Duda, 1933)  
*Incertella* Sabrosky, 1980  
*Incertella albipalpis* (Meigen, 1830)  
*Incertella zuecheri* (Duda, 1933)  
*Incertella kerteszi* (Becker, 1910)  
*Oscinella* Becker, 1909  
*Oscinella maura* (Fallén, 1820)  
*Oscinella pusilla* (Meigen, 1830)  
*Oscinella frit* (Linnaeus, 1761) s.l.  
*Oscinella nitidissima* (Meigen, 1838)  
*Microceris* Beschovski, 1978

- Microceris trigonella* (Duda, 1933)  
*Rhopalopterum* Duda, 1929  
*Rhopalopterum platythorax* (Nartshuk, 1958)  
*Rhopalopterum anthracinum* Meigen, 1830  
*Rhopalopterum fasciola* (Meigen, 1830)  
*Rhopalopterum femorale* (Collin, 1946)  
*Eribolus* Becker, 1910  
*Eribolus nana* (Zetterstedt, 1838)  
*Eribolus hungaricus* Becker, 1910  
*Eribolus gracilior* Meijere, 1918  
*Oscinisoma* Liroy, 1864  
*Oscinisoma cognatum* (Meigen, 1830)  
*Dicraeus* Loew, 1873  
*Dicraeus ingratus* (Loew, 1866)  
*Dicraeus vagans* (Meigen, 1838)  
*Dicraeus tibialis* (Macquart, 1835)  
*Dicraeus fennicus* Duda, 1933  
*Dicraeus napaeus* Collin, 1947  
*Dicraeus vallis* Collin, 1946
- Chloropinae**
- Platycephala* Fallén, 1820  
*Platycephala planifrons* (Fabricius, 1798)  
*Platycephala umraculata* (Fabricius, 1794)  
*Meromyza* Meigen, 1830  
*Meromyza pratorum* Meigen, 1830  
*Meromyza sororcula* Fedoseeva, 1962  
*Meromyza mosquensis* Fedoseeva, 1960  
*Meromyza variegata* Meigen, 1830  
*Meromyza rufa* Fedoseeva, 1962  
*Meromyza rohdendorfi* Fedoseeva, 1974  
*Meromyza triangulina* Fedoseeva, 1960  
*Meromyza nigriventris* Macquart, 1835  
*Meromyza nigriseta* Fedoseeva, 1960  
*Meromyza pluriseta* Pétèrfi, 1961  
*Meromyza palposa* Fedoseeva, 1960  
*Meromyza saltatrix* (Linnaeus, 1761)  
*Meromyza femorata* Macquart, 1835  
*Meromyza hybrida* Pétèrfi, 1961  
*Meromyza elbergi* Fedoseeva, 1979  
*Cryptonevra* Liroy, 1864  
*Cryptonevra flavitarsis* (Meigen, 1850)  
*Cryptonevra diadema* (Meigen, 1830)  
*Cryptonevra tarsata* (Fallén, 1820)  
*Lasiosina* Becker, 1910  
*Lasiosina cinctipes* (Meigen, 1830)

*Lasiosina intermedia* Dely-Draskovits, 1977  
*Lasiosina albipila* (Loew, 1866)  
*Psudopachychaeta* Strobl, 1902  
*Psudopachychaeta heleocharis* (Nartchuk, 1964)  
*Psudopachychaeta approximatonervis* (Zetterstedt, 1838)  
*Psudopachychaeta rufipes* (Zetterstedt, 1838)  
*Diplotoxa* Loew, 1836  
*Diplotoxa messoria* (Fallén, 1820)  
*Melanum* Becker, 1910  
*Melanum laterale* (Haliday, 1833)  
*Epichlorops* Becker, 1910  
*Epichlorops puncticollis* (Zetterstedt, 1848)  
*Centorisoma* Becker, 1910  
*Centorisoma elegantulum* Becker, 1910  
*Cetema* Hendel, 1907  
*Cetema cereris* (Fallén, 1820)  
*Cetema myopina* (Loew, 1866)  
*Cetema elongata* (Meigen, 1830)  
*Cetema neglecta* Tonnoir, 1931  
*Chlorops* Meigen, 1830  
*Chlorops anthracophagoideus* Strobl, 1909  
*Chlorops finitimus* Becker, 1910  
*Chlorops zernyi* Duda, 1933  
*Chlorops varsoviensis* Becker, 1910  
*Chlorops brevimanus* Loew, 1866  
*Chlorops laetus* Meigen, 1830  
*Chlorops crassipalpis* E. Smirnov, 1958  
*Chlorops planifrons* Loew, 1866  
*Chlorops zonulatus* Wahlgren, 1913  
*Chlorops troglodytes* Zetterstedt, 1848  
*Chlorops calceatus* Meigen, 1830  
*Chlorops pumilionis* (Bjerkander, 1778)  
*Chlorops gracilis* Meigen, 1830  
*Chlorops figuratus* (Zetterstedt, 1848)  
*Chlorops serenus* Loew, 1866  
*Chlorops meigeni* Loew, 1866  
*Chlorops scalaris* Meigen, 1830  
*Chlorops ringens* Loew, 1866  
*Chlorops hypostigmus* Meigen, 1830  
*Chlorops speciosus* Meigen, 1830  
*Chlorops laccatus* Nartshuk, 1980  
*Parectecephala* Becker, 1910  
*Parectecephala longicornis* (Fallén, 1820)  
*Thaumatomyia* Zenker, 1833  
*Thaumatomyia rufa* (Macquart, 1833)

*Thaumatomyia hallandica* Andersson, 1966  
*Thaumatomyia notata* (Meigen, 1830)  
*Thaumatomyia glabra* (Meigen, 1830)  
*Thaumatomyia trifasciata* (Zetterstedt, 1848)

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Received: April 4, 2000.