



## CHECKLIST OF THE HOVERFLIES (DIPTERA: SYRPHIDAE) OF SLOVENIA

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**Abstract** - A checklist of the hoverflies (Diptera: Syrphidae) of Slovenia is compiled. Until now, the hoverfly fauna of Slovenia has been poorly known and existing information scattered in journals and collections throughout Europe. The checklist is based on records extracted from 35 articles and twelve collections, supplemented by two years of fieldwork. In total 274 species are listed, 109 of the subfamily Syrphinae, 162 of the Eristalinae and 3 of the Microdentinae.

**KEY WORDS:** Hoverflies, Syrphidae, checklist, Slovenia, fauna

### **Izvleček** – SEZNAM MUH TREPETAVK (DIPTERA: SYRPHIDAE) SLOVENIJE

Sestavljen je seznam muh trepetavk (Diptera: Syrphidae) Slovenije. Doslej je bila favna trepetavk v Sloveniji slabo poznana in obstoječi podatki raztreseni po revijah in zbirkah vseprek Evrope. Seznam temelji na podatkih, zbranih iz 35 člankov in dvanajstih zbirk, dopolnjenih z dveletnim terenskim delom. Vsega skupaj je naštetih 274 vrst, 109 iz poddružine Syrphinae, 162 iz poddružine Eristalinae in tri iz poddružine Microdentinae.

**KLJUČNE BESEDE:** trepetavke, Syrphidae, seznam, Slovenija, favna

### **Introduction**

Adult hoverflies (Diptera: Syrphidae) often resemble bees, wasps or bumblebees. The family includes species whose larvae are predatory, others whose larvae are phytophagous and many more with microphagous larvae. The various species inhabit

many different environments. In Europe more than 650 species of hoverfly exist, among which more than 450 can be found on the Balkan Peninsula. This high diversity is due to the high number of syrphid species endemic to the Balkan Peninsula. Every year hoverfly species new to science continue to be found here, because this region of Europe is relatively unexplored, entomologically.

Slovenia lies in the northwestern part of the Balkan Peninsula, between Italy, Austria, Hungary and Croatia. Despite Slovenia's small surface, it has a high biodiversity, because of the wide range of climatic conditions, geology and topography found in its territory. There are six phytogeographical regions in Slovenia: Sub Mediterranean, Dinaric, Alpine, Pre alpine, Pre dinaric and Sub Pannonian.

The great potential biodiversity in Slovenia has not until recently been recognized among dipterists. Studies of hoverflies have been sparse, but span more than 200 years. These studies tend to reflect the political situation in the territories of Slovenia. The first person who ever published about hoverflies in Slovene territories was Scopoli. However, few of his records can be traced back today, because his collection was destroyed in a fire. One century later, in the time of the Habsburg empire, Strobl (1893, 1894, 1909) published three voluminous works about the Diptera of the province of Steiermark. The southern part of Steiermark is nowadays in Slovenia and is called Štajerska (Styria). When, between 1920 and 1940, large parts of Slovenia became occupied by Italy, Italian entomologists collected in the western part of Slovenia, up to the vicinity of Postojna.

Between 1950 and 1970 several people went to the Balkan Peninsula: Lambeck's visit is apparent from unpublished data in the Zoological museum in Amsterdam. These people stayed in Slovenia only for a few days in the area around Postojna. In the period of 1965 till 1968, I. Sivec collected a large number of species in Slovenia. Maček, who mainly focused on the hyponomological entomofauna, found *Cheilosia fasciata* and *Cheilosia semifasciata* as new to Slovenia. In 1972 Glumac (1972) made the first checklist of the hoverflies for the Balkan Peninsula. In it only 33 species were recorded for Slovenia.

In the nineties, Vujić and colleagues from Novi Sad published several articles on the hoverflies of the Balkan Peninsula, making in the process a significant contribution to knowledge of the fauna of Slovenia. Latterly, Slovenia has become more popular as a holiday destination and several entomologists have already visited the country, producing interesting records. The consequence of these various activities is that since the checklist of Glumac (1972) was published many new species have been recorded for Slovenia.

In this paper, we update the list of hoverfly species known, based on examination of available collections, literature review and additional fieldwork.

## Materials and Methods

The material incorporated into the checklist was compiled from an extensive literature study, examination of collections in several museums and the results of intensive faunistic investigations in the years 2005 and 2006. In total 41 articles were found

which included mention of species of Syrphidae in the territories of Slovenia. The dates of these articles range from 1763 (Scopoli, 1763) to 2004 (De Groot 2004). In four reports or books Syrphidae were mentioned as a family of flies represented in Slovenia, but without reference to any species by name (Devetak et al 1977; Gregori et al 1984; Kopusar 1997, Sivec *et al* 2003). Records derived from the work of Scopoli were only included in the checklist when they were also mentioned in other literature sources. Other data can not be checked, because the Scopoli collection was destroyed.

The following collections were visited: Slovene Museum of Natural History (SMNH), Museum of Natural History in Vienna (MNHV), Zoological Museum Amsterdam (ZMA), Museum of Natural History Naturalis in Leiden (NNM), Museum of Natural History Cardiff (MNHG), the Museum of Natural History in Trieste (Trieste) and the Zoological Collection of the Biotechnical Faculty in Ljubljana (ZCBF). In addition, records from the private collections of Sander Bot (SB), Frank Dzioc (FD), Dare Fekonja (DF), Maarten de Groot (MdG), Stanislav Gomboc (SG), Anne Jan Loonstra (AJL) and Jan H.C. Velterop (JV), from which SB, DF, MdG and SG were checked by the first author, were included in the checklist.

Furthermore, a faunistic survey was carried out in 2005 - 2006. In this period large parts of Slovenia were visited. For identification, Van Veen, Van de Goot and additional articles were used. Whenever an unknown specimen was found, an expert was consulted.

The taxonomy follows and nomenclature follows Syrph the Net and the database of world Diptera. As species names of the same species often change considerably over the years, or sibling species are found, several species names have been of necessity excluded from the list because of doubt as to which taxon they refer to. Synonyms were sourced from Peck, the database of world Diptera and other articles. Synonyms are referred to in Table 1 only in cases where there is only one known reference to the occurrence of a species in Slovenia, published under a name now recognized as a synonym.

## Results and discussion

In total 274 species of hoverflies are listed for the fauna of Slovenia (Table 1). Among them 3 are from the subfamily Microdontidae, 109 from the subfamily Syrphinae and 162 from the subfamily Eristalinae. The larvae of 35.0 % of these species are known to be microphagous, 24.1 % phytophagous and 40.5 % zoophagous. For 0.4 % of the species the functional group to which the larvae belong is not yet known. In addition, the larvae of 18.4 % of the species depend on dead or dying wood.

Several names were omitted from the checklist, either because they could not be traced back, or there were new scientific insights into the distribution of the species or there was doubt about the identification of the material involved. Ten names were found not to be consistent with valid names (Table 2). These names could not be traced back via synonymy in the Diptera database or Peck (1988). It would be useful if the specimens on which these records are based could be re-located and their identity checked. Then there are species which had been recorded, but whose identi-

fication had to be regarded as doubtful or could not be traced back anymore. *Merodon spinipes*, *Merodon spicata*, *Platycheirus transfugus* and *Spilomyia fusca* (Sivec et al 2003) are species still requiring verification. In the museum of Natural History in Vienna a specimen determined as *Cheilosia faucis* was found, collected by Strobl. However, the specimen was covered with mould and could therefore not be identified anymore. A specimen of *Platycheirus aurolateralis* from "Monte Anagiore" was found, this locality name probably being a misspelling of Monte Maggiore (Učka, in Croatia) and is also omitted from the list. The specimens of *Xylota caeruleiventris* in Milankov et al. (1995) were published prior to the revision of *X. caeruleiventris/jakutorum* by Bartsch et al. (2002). Therefore a revision is needed for all *X. caeruleiventris* specimens by Milankov et al. (1995).

The records based on specimens examined range from 1893 to 2006. The composition of the present-day syrphid fauna of Slovenia is likely to be different from the composition of the syrphid fauna of 100 years ago, due to both land-use changes that have occurred in the intervening period and the onset of climatic change that has begun to take effect recently. For example, over the last 40 years species composition changed noticeably in the Netherlands due to climate change. Further, as a consequence of the land use changes in Slovenia over the last decades there has been an increase in forest coverage resulting in 55% of the land surface now being forested. Changes in forest management can also influence the species composition greatly. Agricultural use of land has also intensified in the last decades. In consequence, some of the syrphid species recorded previously, and listed in Table 1, may no longer occur in Slovenia. In comparison with other European countries, the 264 species listed for Slovenia is a low number. Well surveyed countries like the Netherlands, Germany, Great Britain and Italy have 315, 460, 267 and 488 species respectively. It would not be surprising if further survey demonstrates that the number of species in Slovenia exceeds the number of species known for the Netherlands.

But where can we find these additional species? They could be expected from survey high in the Alps and in the sub Mediterranean coast, in particular. In addition the south Eastern part (Bela krajina), Eastern part (Dolenjska) and the Northern part (Pohorje) of Slovenia are all under-recorded areas. Furthermore, the early spring species are lacking from the checklist. There are also two other major collections potentially holding Slovenian material, the Strobl collection in Admont and the collection of the university in Novi Sad, that have yet to be examined, and it is hoped that these collections can be checked in the forthcoming years.

In conclusion, 35 years after the publication of the checklist by Glumac (1972) 237 species were added to the Slovene fauna. Therefore Slovenia has, with 270 species, already a rich hoverfly fauna for such a small country. Nevertheless, several new species are still expected to be found.

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**Table 1:** Checklist of the Syrphidae of Slovenia. Per species the source(s) and if necessary also the synonym (syn.) used in this source are mentioned.

### Subfamily: Microdontinae

Microdon Meigen, 1803

*Microdon analis* (Macquart, 1842)

Source: ZCBF, (De Groot 2004)

*Microdon devius* (Linnaeus, 1761)

Source: SMNH, JV

*Microdon mutabilis* (Linnaeus, 1758) s.l.

Source: MdG, DF

### Subfamily: Syrphinae

Baccha Fabricius, 1805

*Baccha elongata* (Fabricius, 1775)

Syn: *Baccha nigripennis* (Strobl

1893a), *Baccha obscuripennis*

(NMW, (Lambeck 1968; Glumac 1972))

Source: Trieste, NMW, ZCBF, FD, (Strobl 1893a; Strobl 1909; Lambeck 1968; Glumac 1972; De Groot 2004)

Chrysotoxum Meigen, 1803

*Chrysotoxum arcuatum* (Linnaeus, 1758)

Syn: *Chrysotoxum fasciatum* (Lambeck 1968)

Source: AJL, (Lambeck 1968; De Groot 2004)

*Chrysotoxum bicinctum* (Linnaeus, 1758)

Source: SMNH, ZMA, NNM, ZCBF, AJL, FD, (Strobl 1893b; Strobl 1894; Strobl 1909; Coe 1960; Lambeck 1968; De Groot 2004)

*Chrysotoxum cautum* (Harris, 1776)

Syn: *Chrysotoxum sylvarum* (Strobl 1909)

Source: SMNH, ZMA, JV, (Glumac 1956a; Glumac 1956b, Strobl 1909)

*Chrysotoxum elegans* (Loew, 1841)

Source: SMNH, Trieste, (Strobl 1894; Glumac 1956a; Lambeck 1968; Glumac 1972)

*Chrysotoxum fasciolatum* (De Geer, 1776)

Source: SMNH, Trieste, MdG, (Coe 1960; Lambeck 1968)

*Chrysotoxum festivum* (Linnaeus, 1758)

Source: SMNH, ZCBF, AJL, (Strobl 1894; Strobl 1909; Glumac 1956a)

*Chrysotoxum intermedium* Meigen, 1822

Source: SMNH, MdG, (Glumac 1956a; Coe 1960)

*Chrysotoxum octomaculatum* Curtis, 1837

Source: AJL, (Strobl 1894; Coe 1960; De Groot 2004)

*Chrysotoxum vernale* Loew, 1841

Source: SMNH, ZCBF, SB, (Strobl 1909; De Groot 2004)

*Chrysotoxum verralli* Collin, 1940

Source: SMNH, AJL, DF, (Lambeck 1968)

Dasysyrphus Enderlein, 1938

*Dasysyrphus albostrigatus* (Fallén, 1817)

Source: ZMA, SMNH

***Dasysyrphus pinastri*** (De Geer, 1776)

Source: MdG

***Dasysyrphus tricinctus*** (Fallén, 1817)

Source: ZMA, DF

***Dasysyrphus venustus*** (Meigen, 1822)

Syn: *Syrphus lunulatus* (Trieste)

Source: SMNH, ZMA, ZCBF, Trieste, MdG, DF

Didea Macquart, 1834

***Didea alneti*** (Fallén, 1817)

Source: ZMA, FD, (Lambeck 1968)

***Didea fasciata*** Macquart, 1834

Source: ZMA, ZCBF, MdG, (Coe 1960; Lambeck 1968; Glumac 1972)

***Didea intermedia*** Loew, 1854

Source: MdG

Doros Meigen, 1803

***Doros profuges*** (Harris, 1780)

Source: NMW

Epistrophe Walker, 1852

***Epistrophe diaphana*** (Zetterstedt, 1843)

Source: DF, (De Groot 2004)

***Epistrophe eligans*** (Harris, 1780)

Source: SMNH

***Epistrophe flava*** Doczkal & Schmid, 1994

Source: (De Groot 2004)

***Epistrophe grossulariae*** (Meigen, 1822)

Source: ZMA, SMNH, SB, MDG, (Lambeck 1968; Glumac 1972)

***Epistrophe melanostoma*** (Zetterstedt, 1843)

Source: SMNH, ZMA, JV

***Epistrophe nitidicollis*** (Meigen, 1822)

Source: SMNH, ZMA

***Epistrophe ochrostoma*** (Zetterstedt, 1849)

Source: SMNH, DF

***Epistrophe obscuripes*** (Strobl, 1910)

Source: ZCBF

Epistrophella Dusek & Láska

***Epistrophella euchroma*** (Kowarz, 1885)

Source: MdG

Episyrphus Matsumura & Adachi, 1917

***Episyrphus balteatus*** (De Geer, 1776)

Syn: *Epistrophe balteata* (Strobl 1893b; Glumac 1972), *Syrphus balteatus* (Strobl 1893b; Leclerq 1961)

Source: ZMA, SMNH, NHMT, JV, ZCBF, SB, SG, (Strobl 1893b; Strobl 1909; Glumac 1956a; Leclerq 1961; Lambeck 1968; Glumac 1972; De Groot 2004)

***Episyrphus auricollis*** (Meigen, 1822)

Syn: *Meliscaeva auricollis* (SMNH (De Groot 2004)), *Epistrophe auricollis* (Lambeck 1968; Glumac 1972)

Source: SMNH, MdG, (Lambeck 1968; Glumac 1972; De Groot 2004)

***Episyrphus cinctellus*** (Zetterstedt, 1843)

Syn: *Meliscaeva cinctella* (ZMA (De Groot 2004)), *Epistrophe cinctella*

(Lambeck 1968; Glumac 1972), *Syrphus cinctella* (Strobl 1893b;

Strobl 1894; Strobl 1909; Coe 1960)

Source: SMNH, ZMA, ZCBF, AJL, FD, SB, (Strobl 1893b; Strobl 1894; Strobl 1909; Coe 1960; Lambeck 1968; Glumac 1972; De Groot 2004)

Eriozona Schiner, 1860

***Eriozona syrphoides*** (Fallén, 1817)

Source: SMNH, ZMA, NHMT, MdG

***Eriozona erratica*** (Linnaeus, 1758)

Syn: *Megasyrphus annulipes* (SMNH, SB), *Lasiophiticus annulipes* (Strobl 1909).

Source: SMNH, SB, (Strobl 1909)

Eupeodes Osten Sacken, 1877

***Eupeodes corollae*** (Fabricius, 1794)

Syn: *Metasyrphus corollae*, *Syrphus corollae* (Trieste, (Glumac 1972))

Source: Trieste, JV, ZCBF, (De Groot 2004)

***Eupeodes flaviceps*** (Rondani, 1857)

Source: SMNH

***Eupeodes lapponicus*** (Zetterstedt, 1838)

Syn: *Syrphus lapponicus* (Coe 1960)

Source: SMNH, ZMA, ZCBF, AJL, SG, (Coe 1960; De Groot 2004)

***Eupeodes latifasciatus*** (Macquart, 1829)

Syn: *Syrphus latifasciatus* (Glumac 1956a), *Epistrophe latifasciatus* (De Groot 2004), *Metasyrphus latifasciatus* (SMNH)

Source: SMNH, ZMA, MdG (De Groot 2004; Glumac 1956a)

***Eupeodes luniger*** (Meigen 1822)

Syn: *Syrphus bucculatus* (Glumac 1956a), *Syrphus luniger*, *Metasyrphus luniger* (Glumac 1972; Lambeck 1968),

Source: SMNH, (Glumac 1956a; Lambeck 1968; Glumac 1972; De Groot 2004)

***Eupeodes nitens*** (Zetterstedt 1843)

Syn: *Syrphus nitens* (Glumac 1972)

Source: (Glumac 1972)

Heringia Rondani, 1856

***Heringia heringi*** (Zetterstedt, 1843)

Syn: *Pipiza heringi* (Strobl 1893b)

Source: ZCBF, (Strobl 1893b)

***Heringia brevidens*** (Egger, 1865)

Source: (Strobl 1893b)

***Heringia latitarsis*** (Egger, 1865)

Syn: *Neocnemodon* (Glumac 1972),

*Cnemodon latitarsis* (Lambeck 1968)

Source: (Strobl 1893b; Lambeck 1968; Glumac 1972; Vujić 1999a)

***Heringia pubescens*** (Delucchi &

Pschorn-Walcher, 1955)

Source: (Vujić 1999a)

Leucozona Schiner, 1860

***Leucozona laternaria*** (Müller, 1776)

Syn: *Ischyrosyrphus laternarius* (ZMA)

Source: ZMA, MdG

***Leucozona glaucia*** (Linnaeus, 1758)

Source: ZMA, AJL, SB, FD

***Leucozona inopinata*** Doczkal, 2000

Source: AJL, JV

***Leucozona lucorum*** (Linnaeus, 1758)

Source: ZMA, AJL, MdG

Melangyna Verrall, 1901

***Melangyna compositarum*** (Verrall, 1873)

Syn: *Melangyna labitarum* (ZMA, MdG, (Lambeck 1968))

Source: FD, MdG

***Melangyna quadrimaculata***

(Verrall, 1873)

Source: MdG

***Melangyna umbellatorum*** (Fabricius 1784)

Source: MdG

Melanostoma Schiner, 1860

***Melanostoma mellinum*** (Linnaeus, 1758)

Source: SMNH, ZMA, JV, MdG, ZCBF, FD, SG, (Glumac 1956a; Coe 1960; Lambeck 1968; Glumac 1972; De Groot 2004)

***Melanostoma scalare*** (Fabricius, 1794)

Syn: *Melanostoma gracile* (Strobl 1983a)

Source: ZMA, ZCBF, MdG, FD  
(Strobl 1893b)

Meligramma Frey, 1946

**Meligramma cincta** (Fallén, 1817)

Syn: *Melangyna cincta* (SMNH),  
*Epistrophe cincta* (Trieste (Glumac  
1972), *Fagisyrrhus cinctus* (Lambeck  
1968)

Source: SMNH, Trieste, ZMA,  
ZCBF, (Glumac 1972; Lambeck  
1968)

**Meligramma cingulata** (Egger, 1860)

Source: SMNH, DF

Paragus Latreille, 1804

**Paragus albifrons** (Fallén, 1817)

Source: (Glumac 1956a)

**Paragus bicolor** (Fabricius, 1794)

Source: SMNH, (Strobl 1909; Glumac  
1956a)

**Paragus bradescui** Stanescu, 1981

Syn: *Paragus bicolor* var. *sexarcuatus*  
(Glumac 1956a)

Source: (Glumac 1956a; Vujić et al.  
1999)

**Paragus finitimus** Goeldlin, 1971

Source: ZCBF

**Paragus haemorrhous** Meigen, 1822

Source: MdG, ZCBF

**Paragus pecchiolii** Rondani, 1857

Syn: *Paragus majoranae* (ZMA)

Source: ZMA, MdG

**Paragus tibialis** (Fallén, 1817)

Source: Trieste, MdG, (Strobl 1893b;  
Strobl 1909; Glumac 1956a; Glumac  
1956b, Coe 1960; Lambeck 1968;  
Glumac 1972)

Parasyrphus Matsumura, 1917

**Parasyrphus annulatus** (Zetterstadt,  
1838)

Source: SMNH, ZMA, ZCBF

**Parasyrphus lineola** (Zetterstadt,  
1843)

Syn: **Syrphus lineola** (Strobl 1909)

Source: SMNH, FD, (Strobl 1909)

**Parasyrphus macularis** (Zetterstadt,  
1843)

Source: SMNH, ZCBF

**Parasyrphus malinellus** (Collin,  
1952)

Source: MdG

**Parasyrphus punctulatus** (Verrall,  
1873)

Source: MdG

**Parasyrphus vittiger** (Zetterstedt  
1843)

Syn: *Mesosyrphus vittiger* (Lambeck  
1968), *Epistrophe vittiger* (Glumac  
1972)

Source: MdG, (Strobl 1909; Lambeck  
1968; Glumac 1972)

Pipiza Fallén, 1810

**Pipiza austriaca** Meigen, 1822

Source: MdG

**Pipiza festiva** Meigen, 1822

Source: DF

**Pipiza noctiluca** (Linnaeus, 1758)

Source: MdG, (Coe 1960; De Groot  
2004)

**Pipiza quadrimaculata** (Panzer, 1802)

Source: MdG, JV, ZCBF

Pipizella Rondani, 1856

**Pipizella annulata** (Macquart, 1829)

Source: MdG, (Vujić 1997)

**Pipizella bispina** Šimić, 1987

Source: (Vujić 1997)

**Pipizella divicoi** (Goeldlin, 1974)

Source: (Vujić 1997)

**Pipizella maculipennis** (Meigen,  
1822)

Syn: *Heringia maculipennis* (Glumac  
1956a; Glumac 1956b; De Groot  
2004)

Source: (Glumac 1956a; Glumac  
1956b, De Groot 2004)



***Pipizella viduata*** (Linnaeus, 1758)  
 Syn: *Pipiza viduata* (Glumac 1956a),  
*Pipizella varipes* (Lambeck 1968)  
 Source: MNHV, JV, FD, (Glumac  
 1956a; Lambeck 1968)

***Pipizella virens*** (Fabricius, 1805)  
 Syn: *Heringia virens* (Vienna)  
 Source: MNHV, ZCBF, (Strobl  
 1893a; Glumac 1956a; Leclerq 1961;  
 Vujić 1997)

*Platycheirus* Le Peletier & Serville,  
 1828

***Platycheirus albimanus*** (Fabricius,  
 1781)  
 Source: SMNH, ZMA, Trieste, JV,  
 ZCBF, SG, (Strobl 1909; Leclerq  
 1961)

***Platycheirus angustatus*** (Zetterstedt,  
 1843)  
 Source: (Strobl 1909)

***Platycheirus clypeatus*** (Meigen,  
 1822)  
 Source: ZCBF, (Strobl 1893b; Strobl  
 1909; Lambeck 1968; Glumac 1972;  
 De Groot 2004)

***Platycheirus europaeus*** Goeldlin,  
 Maibach & Speight, 1990  
 Source: MdG, FD

***Platycheirus fulviventris*** (Macquart,  
 1829)  
 Source: MdG

***Platycheirus manicatus*** (Meigen,  
 1822)  
 Source: SMNH, ZMA, MNHV, ZCBF  
***Platycheirus melanopsis*** Loew, 1856  
 Source: AJL

***Platycheirus peltatus*** (Meigen, 1822)  
 Source: MdG

***Platycheirus podagrata*** (Zetterstedt,  
 1838)  
 Source: (Strobl 1909)

***Platycheirus scutatus*** (Meigen, 1822)  
 Source: NNM, ZCBF, (Strobl 1909)

***Platycheirus tatricus*** Dusek &  
 Laska, 1982  
 Source: MdG, (Vujić et al. 1993-  
 1994)

*Pyrophaena* Schiner, 1860  
***Pyrophaena rosarum*** (Fabricius,  
 1787)  
 Source: ZCBF, DF, MdG

*Scaeva* Fabricius, 1805  
***Scaeva dignota*** (Rondani, 1857)  
 Source: SMNH, ZCBF, MdG  
***Scaeva pyrastris*** (Linnaeus, 1758)  
 Syn: *Catabomba pyrastris* (Strobl  
 1893b; Strobl 1894), *Lasiopticus*  
*pyrastris* (Novak & Kuštor 1982)  
 Source: SMNH, ZMA, Trieste, ZCBF,  
 AJL, SB, SG, (Strobl 1893b; Strobl  
 1894; Glumac 1956a; Coe 1960;  
 Glumac 1972; Novak & Kuštor 1982;  
 Radenković et al. 1995; De Groot  
 2004)

***Scaeva selenitica*** (Meigen, 1822)  
 Syn: *Lasiopticus selenitica* (Glumac  
 1972)  
 Source: SMNH, ZMA, ZCBF, SB,  
 (Coe 1960; Glumac 1972; Radenković  
 et al. 1995)

*Sphaerophoria* Le Peletier & Serville,  
 1828

***Sphaerophoria bankowskiae***  
 Goeldlin, 1989  
 Source: FD

***Sphaerophoria batava*** Goeldlin,  
 1974  
 Source: MdG

***Sphaerophoria interrupta*** (Fabricius,  
 1805)  
 Syn: *Melithreptus menthrasti* (Strobl  
 1893b), *Sphaerophoria menthrasti*  
 (Trieste), *Sphaerophoria picta*  
 (Lambeck 1968)  
 Source: SMNH, Trieste, ZCBF,

(Strobl 1893b; Glumac 1956a; Lambeck 1968; Glumac 1972)  
***Sphaerophoria laurae*** (Goeldlin, 1989)  
 Source: MdG  
***Sphaerophoria rueppelli***  
 Wiedemann, 1830  
 Syn: *Melithreptus nitidicollis* Strobl 1893a  
 Source: MdG, (Strobl 1893a; De Groot 2004)  
***Sphaerophoria scripta*** (Linnaeus, 1758)  
 Syn: *Melithreptus dispar* (Strobl 1893b), *Melithreptus nigricoxus* (Strobl 1893b), *Melithreptus strigatus* (Strobl 1893b), *Melithreptus scriptus* (Strobl 1893b)  
 Source: SMNH, Trieste, MNHV, NNM, ZCBF, AJL, JV, SB, SG, (Strobl 1893a; Strobl 1893b; Glumac 1956a; Leclerq 1961; Glumac 1972; De Groot 2004)  
***Sphaerophoria taeniata*** (Meigen, 1822)  
 Syn: *Melithreptus taeniatus* (Strobl 1893a)  
 Source: SMNH, ZCBF, (Strobl 1893a)  
***Sphaerophoria virgata*** Goeldlin, 1974  
 Source: ZCBF, MdG, (Vujić et al. 2001)

*Syrphus* Fabricius, 1775  
***Syrphus ribesii*** (Linnaeus, 1758)  
 Source: SMNH, ZMA, MNHV, NNM, ZCBF, SB, (Strobl 1893b; Strobl 1894; Strobl 1909; Glumac 1956a; Leclerq 1961; Glumac 1972; De Groot 2004)  
***Syrphus torvus*** Osten Sacken, 1875  
 Source: SMNH, ZCBF, MdG, (De Groot 2004)

***Syrphus vitripennis*** Meigen, 1822  
 Source: SMNH, ZMA, ZCBF, MdG, JV, (Strobl 1894; Strobl 1909; Glumac 1956a; Coe 1960; Lambeck 1968; Glumac 1972)

*Trichopsomyia* Williston, 1888  
***Trichopsomyia flavitarsis*** (Meigen, 1822)  
 Syn: *Parapenium falvitarsis* (Coe 1960)  
 Source: (Coe 1960)

*Xanthogramma* Schiner, 1860  
***Xanthogramma citrofasciatum*** (De Geer, 1776)  
 Syn: *Xanthogramma festivum* (SMNH)  
 Source: SMNH, ZMA, NNM, DF (Glumac 1956a)  
***Xanthogramma dives*** (Rondani, 1857)  
 Source: MdG  
***Xanthogramma laetum*** (Fabricius, 1794)  
 Syn: *Xantogramma laeta* (ZMA)  
 Source: ZMA  
***Xanthogramma pedissequam*** (Harris, 1780)  
 Syn: *Xanthogramma ornatum* (Strobl 1893a; Glumac 1956a; Glumac 1956b)  
 Source: FD, MdG, SG, (Strobl 1893a; Glumac 1956a; Glumac 1956b; Leclerq 1961; De Groot 2004)

*Xanthandrus* Verrall 1901  
***Xanthandrus comtus*** (Harris, 1780)  
 Source: SMNH, ZMA, MdG (Lambeck 1968; Glumac 1972)

### Subfamily: Eristalinae

*Anasimyia* Schiner, 1864  
***Anasimyia lineata*** (Fabricius, 1787)  
 Source: DF

- Arctophila Schiner, 1860  
**Arctophila bombiformis** (Fallén, 1810)  
 Source: SMNH  
 Syn: *Ceria conopsoides* (Strobl 1893a; Strobl 1893b)  
 Source: (Strobl 1893a; Strobl 1893b)
- Blera Billberg, 1820  
**Blera fallax** (Linnaeus, 1758)  
 Syn: *Cynorrhina fallax* (Glumac 1972)  
 Source: NMW, (Lambeck 1968; Glumac 1972)  
 Syn: *Chalcosyrphus femoratus* (Linnaeus, 1758)  
 Source: MdG  
**Chalcosyrphus nemorum** (Fabricius, 1805)  
 Source: DF, MdG, (Milankov et al. 1995)  
**Chalcosyrphus piger** (Fabricius, 1794)  
 Source: MdG
- Brachyopa Meigen, 1822  
**Brachyopa dorsata** Zetterstedt, 1837  
 Source: (Vujić 1991)  
**Brachyopa pilosa** Collin, 1939  
 Source: MdG  
**Brachyopa testacea** (Fallén, 1817)  
 Source: (Vujić 1991)  
**Brachyopa vittata** Zetterstedt, 1843  
 Source: ZMA, JV, (Vujić 1991)
- Brachypalpoides Hipparia, 1978  
**Brachypalpoides lentus** (Meigen, 1822)  
 Syn: *Xylota lenta* (Coe 1960; Lambeck 1968)  
 Source: NMW, MdG, (Coe 1960; Lambeck 1968)  
 Syn: *Cheilosia aerea* Dufour, 1848  
 Syn: *Cheilosia zetterstedtii* (Strobl 1909)  
 Source: (Strobl 1909; Vujić 1996)  
**Cheilosia albipila** Meigen, 1838  
 Source: (Vujić 1996)  
**Cheilosia albitarsis** (Meigen, 1822)  
 Source: SMNH, MNHV, JV, (Vujić 1996)  
**Cheilosia antiqua** (Meigen, 1822)  
 Syn: *Nigrocheilosia antiqua* (Vujić 1996)  
 Source: (Vujić 1996)  
**Cheilosia balkana** Vujić, 1994  
 Source: (Vujić 1994; Vujić 1996)  
**Cheilosia barbata** Loew, 1857  
 Source: SMNH, ZMA, AJL, JV, (Strobl 1893b; Strobl 1909; Lambeck 1968; Vujić 1996)  
**Cheilosia bracusi** Vujić & Claussen, 1994  
 Source: (Vujić & Claussen 1994; Vujić 1996)  
**Cheilosia canicularis** (Panzer, 1801)  
 Source: SMNH, ZMA, Trieste, ZCBF, (Vujić 1996; Vujić & Sikoparija 2001; De Groot 2004)
- Brachypalpus Macquart, 1834  
**Brachypalpus chrysites** Egger, 1859  
 Source: (Vujić & Milankov 1999)  
**Brachypalpus valgus** (Panzer, 1798)  
 Source: (Vujić & Radovic 1990)
- Callicera, Panzer, 1809  
**Callicera fagesii** Guerin-Meneville, 1844  
 Source: MdG
- Ceriana Rafinesque, 1815  
**Ceriana conopsoides** (Linnaeus, 1758)

- Cheilosia carbonaria*** Egger, 1860  
Source: SMNH, (Coe 1960; Vujić 1996; De Groot 2004)
- Cheilosia chloris*** (Meigen, 1822)  
Source: SMNH, (Vujić 1996)
- Cheilosia chrysocoma*** (Meigen, 1822)  
Source: (Vujić 1996)
- Cheilosia crassiset*** Loew, 1859  
Syn: *Nigrocheilosia crassiset* (Vujić 1996)  
Source: (Vujić 1996)
- Cheilosia cynocephala*** Loew, 1840  
Source: ZMA, Trieste
- Cheilosia derasa*** Loew, 1857  
Syn: *Nigrocheilosia derasa* (Vujić 1996)  
Source: AJL, JV, (Vujić 1996)
- Cheilosia fasciata*** (Schiner & Meigen, 1853)  
Source: (Maček 1973; Maček 1978; Maček 1993)
- Cheilosia flavipes*** (Panzer, 1798)  
Source: Trieste, ZCBF, (Vujić 1996)
- Cheilosia fraterna*** (Meigen, 1830)  
Source: (Vujić 1996)
- Cheilosia frontalis*** Loew, 1857  
Source: (Vujić 1996)
- Cheilosia gagatea*** Loew, 1857  
Syn: *Nigrocheilosia gagatea* (Vujić 1996)  
Source: MNHV, MdG, (Vujić 1996)
- Cheilosia gigantea*** (Zetterstedt, 1838)  
Source: (Vujić 1996)
- Cheilosia grisella*** Becker, 1894  
Syn: *Nigrocheilosia grisella* (Vujić 1996)  
Source: (Vujić 1996)
- Cheilosia himantopa*** (Panzer, 1798)  
Source: NMW, SB, (Vujić & Sikoparija 2001)
- Cheilosia hypena*** Becker, 1894  
Source: (Vujić 1996)
- Cheilosia illustrata*** (Harris, 1780)  
Syn: *Syrphus oestraceus* (Strobl 1909)  
Source: SMNH, ZMA, MNHV, AJL, DF, MdG, SB, (Strobl 1909; Lambeck 1968; Glumac 1972; Vujić 1996)
- Cheilosia impressa*** Loew, 1840  
Syn: *Platychirus impressa* (Strobl 1894)  
Source: SMNH, ZMA, Trieste, AJL, JV, SB, (Strobl 1893b; Strobl 1894; Strobl 1909; Coe 1960; Lambeck 1968; Vujić 1996)
- Cheilosia impudens*** Becker, 1894  
Syn: *Nigrocheilosia impudens* (Vujić 1996)  
Source: (Vujić 1996)
- Cheilosia lasiopa*** Kowarz, 1885  
Source: (Vujić 1996)
- Cheilosia laticornis*** Rondani, 1857  
Syn: *Cheilosia latifacies* (SMNH, Vujić 1996))  
Source: SMNH, ZMA, AJL, SB, (Glumac 1956a; Vujić 1996)
- Cheilosia latifrons*** (Zetterstedt, 1843)  
Source: (Glumac 1956a)
- Cheilosia lenis*** (Becker, 1894)  
Syn: *Cheilosia omissa* (Vujić et al. 1993-1994; Vujić 1996)  
Source: (Vujić et al. 1993-1994; Vujić 1996)
- Cheilosia lenta*** Becker, 1894  
Source: (Vujić et al. 1993-1994; Vujić 1996)
- Cheilosia loewi*** Becker, 1894  
Syn: *Nigrocheilosia loewi* (Vujić 1996)  
Source: (Strobl 1909; Vujić 1996)
- Cheilosia longula*** (Zetterstedt, 1838)  
Source: SMNH, (Strobl 1909; Vujić 1996; De Groot 2004)
- Cheilosia melanura*** (Becker, 1894)  
Source: SMNH, (Vujić 1996)
- Cheilosia morio*** (Zetterstedt, 1838)

Source: (Vujić 1996; Vujić et al. 2001)

***Cheilosia mutabilis*** (Fallén, 1817)

Source: (Strobl 1909; Vujić 1996)

***Cheilosia nigripes*** (Meigen, 1822)

Syn: *Nigrocheilosia nigripes* (Vujić 1996)

Source: SMNH, (Glumac 1956b, Vujić 1996)

***Cheilosia pagana*** (Meigen, 1822)

Syn: *Cheilosia paganus* (Coe 1960)

Source: SMNH, ZMA, (Coe 1960; Lambeck 1968; Vujić 1996; De Groot 2004)

***Cheilosia personata*** Loew, 1857

Syn: *Nigrocheilosia personata* (Vujić 1996)

Source: SMNH, AJL, SB, (Vujić 1996)

***Cheilosia pictipennis*** Egger, 1860

Source: Vujić 1996

***Cheilosia proxima*** (Zetterstedt, 1843)

Source: ZMA, Vujić 1996, (Strobl 1909; Vujić 1996)

***Cheilosia pubera*** (Zetterstedt, 1838)

Syn: *Nigrocheilosia pubera* (SMNH, (Vujić 1996))

Source: SMNH, (Vujić 1996)

***Cheilosia ranunculi*** Doczkal, 2000

Source: MdG

***Cheilosia rhynchops*** Egger, 1860

Source: (Vujić 1996)

***Cheilosia scutellata*** (Fallén, 1817)

Syn: *Platychirus scutellata* (NNM)

Source: SMNH, ZMA, NNM, AJL, JV, (Strobl 1894; Strobl 1909; Coe 1960; Vujić 1996; De Groot 2004)

***Cheilosia semifasciata*** Becker 1893

Source: (Maček 1976; Maček 1977)

***Cheilosia soror*** (Zetterstedt, 1843)

Source: ZMA, (Strobl 1909; Coe 1960; Lambeck 1968; Vujić 1996)

***Cheilosia subpictipennis*** Claussen,

1998

Source: (Vujić 1996)

***Cheilosia urbana*** (Meigen, 1822)

Syn: *Cheilosia praecox* (Vujić 1996)

Source: SMNH, ZCBF, Vujić 1996

***Cheilosia uviformis*** Becker, 1894

Source: (Vujić 1996)

***Cheilosia variabilis*** (Panzer, 1798)

Source: SMNH, ZMA, FD, (Strobl 1909; Coe 1960; Vujić 1996)

***Cheilosia velutina*** Loew, 1840

Source: MdG

***Cheilosia vernalis*** (Fallén, 1817)

Source: SMNH, ZMA, AJL, (Strobl 1909; Glumac 1956a; Vujić 1996)

***Cheilosia vicina*** (Zetterstedt, 1849)

Syn: *Nigrocheilosia vicina*

Source: MdG, (Vujić 1996)

***Cheilosia vulpina*** (Meigen, 1822)

Source: Trieste, AJL, FD, (Vujić 1996)

***Chrysogaster*** Meigen, 1803

***Chrysogaster basalis*** Loew, 1857

Source: MNHV

***Chrysogaster coemiteriorum***

(Linnaeus, 1758)

Source: (Strobl 1893a; Strobl 1893b; Strobl 1894; Strobl 1909)

***Chrysogaster hirtella*** Loew, 1843

Source: DF, MdG

***Chrysogaster solstitialis*** (Fallén, 1817)

Source: MNHV, JV, (Vujić 1999b; De Groot 2004)

***Criorhina*** Meigen, 1822

***Criorhina asilica*** (Fallén, 1816)

Source: MdG

***Criorhina berberina*** (Fabricius, 1805)

Syn: *Criorrhina oxyanthea* (MNHV)

Source: MNHV, NMW, AJL, DF, MdG, (Vujić & Milankov 1999; Vujić & Milankov 1990)

***Criorhina floccosa*** (Meigen, 1822)

Source: DF

***Criorhina pachymera*** (Egger, 1858)

Source: DF

Eristalinus Rondani, 1845

***Eristalinus aeneus*** (Scopoli, 1763)

Syn: *Eristalis aeneus* (Strobl 1893a)

Source: SMNH, ZCBF, (Strobl 1893a; Strobl 1893b; Strobl 1909)

***Eristalinus sepulchralis*** (Linnaeus, 1758)

Syn: *Eristalis sepulchralis*

Source: SMNH, (Strobl 1893a; Strobl 1893b; Strobl 1909; Glumac 1956a; Coe 1960; De Groot 2004)

Eristalis Latreille, 1804

***Eristalis alpina*** (Panzer, 1798)

Source: SMNH, MdG, (Strobl 1894)

***Eristalis arbustorum*** (Linnaeus, 1758)

Source: SMNH, MNHV, ZCBF, AJL, JV, SG, (Strobl 1893b; Strobl 1909; Glumac 1956a; Lambeck 1968; Glumac 1972; De Groot 2004)

***Eristalis nemorum*** (Linnaeus, 1758)

Source: SMNH, SG, (Strobl 1893a; Strobl 1909; Lambeck 1968; Glumac 1972; Šimić & Vujić 1990)

***Eristalis intricaria*** (Linnaeus, 1758)

Source: SG

***Eristalis jugorum*** Egger, 1858

Source: SMNH, SB, (Šimić & Vujić 1990)

***Eristalis horticola*** (De Geer, 1776)

Source: SMNH, AJL, MdG, (Strobl 1893b; Strobl 1909; Šimić & Vujić 1990)

***Eristalis pertinax*** (Scopoli, 1763)

Source: SMNH, NNM, Trieste, ZCBF, SG, (Strobl 1909; Glumac 1956a; Šimić & Vujić 1990; De Groot 2004)

***Eristalis rupium*** Fabricius, 1805

Source: (Lambeck 1968; Glumac 1972; Šimić & Vujić 1990)

***Eristalis similis*** (Fallén, 1817)

Syn: *Eristalis pratorum* (SMNH,

Trieste, ZCBF, AJL, SB, FD, (Glumac 1956a; Coe 1960; Šimić & Vujić 1990; De Groot 2004))

Source: SMNH, Trieste, ZCBF, AJL, SB, FD, (Glumac 1956a; Coe 1960; Šimić & Vujić 1990; De Groot 2004)

***Eristalis tenax*** (Linnaeus, 1758)

Source: SMNH, Trieste, JV, ZCBF, AJL, FD, SG, (Strobl 1893a; Strobl 1893b; Strobl 1909; Glumac 1956a; Leclerq 1961; Lambeck 1968; Glumac 1972; Šimić & Vujić 1990; De Groot 2004)

Eumerus Meigen, 1822

***Eumerus amoenus*** Loew, 1848

Source: (Coe 1960)

***Eumerus flavitarsis*** Zetterstedt, 1843

Source: AJL, Trieste, (Strobl 1909; Vujić & Šimić 1995-1998)

***Eumerus funeralis*** Meigen, 1822

Syn: *Eumerus tuberculatus* (Glumac 1956a)

Source: AJL, (Glumac 1956a)

***Eumerus ornatus*** Meigen, 1822

Source: (Coe 1960)

***Eumerus ovatus*** Loew, 1848

Source: MdG

***Eumerus pulchellus*** Loew, 1848

Source: (Strobl 1893a)

***Eumerus ruficornis*** Meigen, 1822

Source: Trieste

***Eumerus strigatus*** (Fallén, 1817)

Syn: *Eumerus lunulatus* (Strobl 1893a; Strobl 1909)

Source: (Strobl 1909; Glumac 1956a; De Groot 2004)

***Eumerus tricolor*** (Fabricius, 1798)

Source: ZMA, FD, (Strobl 1893b;

- Strobl 1909; Coe 1960)  
**Ferdinandea** Rondani, 1844  
***Ferdinandea cuprea*** (Scopoli, 1763)  
 Source: DF, MdG, ZCBF  
***Ferdinandea ruficornis*** (Fabricius, 1775)  
 Source: (De Groot 2004)  
**Helophilus** Meigen 1822  
***Helophilus hybridus*** Loew, 1846  
 Source: MdG, (De Groot 2004)  
***Helophilus pendulus*** (Linnaeus, 1758)  
 Source: SMNH, ZCBF, (De Groot 2004)  
***Helophilus trivittatus*** (Fabricius, 1805)  
 Source: SMNH, ZCBF (Strobl 1893b; Strobl 1894; De Groot 2004)
- Lejogaster** Rondani, 1857  
***Lejogaster tarsata*** (Meigen, 1822)  
 Syn: *Liogaster splendida* (Glumac 1956a), *Chrysogaster splendida* (Strobl 1909), *Chrysogaster aenea* (Strobl 1893b)  
 Source: (Strobl 1909; Glumac 1956a; Strobl 1893b)
- Melanogaster** Rondani, 1857  
***Melanogaster viduata*** (Linnaeus, 1758)  
 Syn: *Chrysogaster viduata* (Glumac 1956a), *Melanogaster nuda* (MdG (Vujić et al 1999))  
 Source: MdG, (Glumac 1956a; Vujić et al 1999)
- Merodon** Meigen, 1803  
***Merodon aeneus*** Meigen, 1822  
 Source: SMNH, MdG, (Strobl 1894; Strobl 1909; De Groot 2004)  
***Merodon albifrons*** Meigen, 1822  
 Syn: *Lampetia albifrons* (Glumac 1956a)
- Source: (Glumac 1956a)  
***Merodon armipes*** Rondani, 1843  
 Syn: *Lampetia armipes* (Glumac 1956a)  
 Source: SMNH, (Glumac 1956a)  
***Merodon avidus*** (Rossi, 1790)  
 Source: MdG  
***Merodon cinereus*** (Fabricius, 1794)  
 Source: SMNH, ZMA, (De Groot 2004)  
***Merodon constans*** (Rossi, 1794)  
 Syn: *Merodon montanus* (Strobl 1909)  
 Source: SMNH, AJL, (Strobl 1909; De Groot 2004)  
***Merodon equestris*** (Fabricius, 1794)  
 Source: SMNH, (Lambeck 1968)  
***Merodon rufus*** Meigen, 1838  
 Syn: *Merodon rufa* (De Groot 2004)  
 Source: AJL, MdG, (Coe 1960; De Groot 2004; Radenković & Vujić 1993/1994)
- Mesembrius** Rondani 1857  
***Mesembrius peregrinus*** (Loew, 1846)  
 Source: MdG
- Milesia** Latreille, 1804  
***Milesia crabroniformis*** (Fabricius, 1775)  
 Source: SMNH, DF  
***Milesia semiluctifera*** (Villers, 1789)  
 Source: (Strobl 1893a)
- Myathropa** Rondani, 1845  
***Myathropa florea*** (Linnaeus, 1758)  
 Source: SMNH, ZCBF, JV, (Strobl 1893a; Strobl 1893b; Strobl 1909; Glumac 1956a; Coe 1960; Lambeck 1968; Glumac 1972; De Groot 2004)  
**Myolepta** Newman, 1838  
***Myolepta dubia*** (Fabricius, 1805)  
 Syn: *Myiolepta luteola* (Strobl 1893a)

Source: (Strobl 1893a; Strobl 1894)  
***Myolepta vara*** (Panzer, 1798)  
 Source: ZMA

Neosciasia Williston, 1886  
***Neosciasia annexa*** (Müller, 1776)  
 Source: MNHV, MdG, (Vujić 1990)  
***Neosciasia meticulosa*** (Scopoli, 1763)  
 Source: MdG  
***Neosciasia obliqua*** Coe, 1940  
 Source: FD  
***Neosciasia podagrica*** (Fabricius, 1775)  
 Syn: *Ascia podagrica* (Strobl 1893a)  
 Source: MNHV, Trieste, ZCBF, FD,  
 JV, (Strobl 1893a; Strobl 1909;  
 Glumac 1956a; Vujić 1990)  
***Neosciasia tenur*** (Harris, 1780)  
 Source: (Strobl 1893b; De Groot 2004)  
***Neosciasia unifasciata*** (Strobl, 1898)  
 Source: MdG

Orthonevra Macquart, 1829  
***Orthonevra frontalis*** (Loew, 1843)  
 Syn: *Orthonevra frontalis* (Strobl  
 1893a)  
 Source: (Strobl 1893a)  
***Orthonevra nobilis*** (Fallén, 1817)  
 Syn: *Chrysogaster nobilis* (Strobl  
 1909)  
 Source: SMNH, Strobl 1909; Vujić  
 1999b)  
 Parhelophilus Girschner, 1897  
***Parhelophilus versicolor*** (Fabricius,  
 1794)  
 Source: (De Groot 2004)

Pelecocera Meigen, 1822  
***Pelecocera tricineta*** Meigen, 1822  
 Source: SMNH, DF, MdG

Psarus Latreille, 1804  
***Psarus abdominalis*** (Fabricius, 1794)  
 Source: (Strobl 1909)  
 Rhingia Scopoli, 1763

***Rhingia campestris*** Meigen, 1822  
 Source: ZMA, NNM, ZCBF  
***Rhingia rostrata*** (Linnaeus, 1758)  
 Source: SMNH, (Strobl 1893b; De  
 Groot 2004)

Sphegina Meigen 1822  
***Sphegina clavata*** (Scopoli, 1763)  
 Source: AJL, (Vujić 1990)  
***Sphegina clunipes*** (Fallén, 1816)  
 Source: ZMA, Trieste, FD, MdG, SB,  
 (Strobl 1893b; Lambeck 1968; Vujić  
 1990; De Groot 2004)

***Sphegina elegans*** Schummel, 1843  
 Syn: *Sphegina kimakovicsi* (Strobl  
 1909)  
 Source: ZMA, AJL, FD, (Strobl 1909;  
 Lambeck 1968; Glumac 1972; Vujić  
 1990)

***Sphegina latifrons*** Egger, 1865  
 Source: (Vujić 1990)  
***Sphegina montana*** Becker, 1921  
 Source: ZMA, (Vujić 1990), AJL,  
 MdG  
***Sphegina sibirica*** Stackelberg, 1953  
 Source: AJL, MdG (Vujić 1990)  
***Sphegina sublatifrons*** Vujić, 1990  
 Source: (Vujić 1990)  
***Sphegina verecunda*** Collin, 1937  
 Source: AJL, (Lambeck 1968; Vujić  
 1990)

Sphiximorpha Rondani, 1850  
***Sphiximorpha subsessilis*** (Illiger,  
 1807)  
 Source: NMW

Spilomyia Meigen, 1803  
***Spilomyia manicata*** (Rondani, 1865)  
 Source: (De Groot 2004)  
***Spilomyia saltuum*** (Fabricius, 1794)  
 Source: (Strobl 1894)

Syritta Le Peletier & Serville, 1828



***Syrirta pipiens*** (Linnaeus, 1758)  
Source: SMNH, Trieste, ZCBF, SG,  
(Strobl 1893b; Strobl 1909; Glumac  
1956a; Leclerq 1961; Lambeck 1968;  
De Groot 2004)

*Temnostoma* Le Peletier et Serville,  
1828

***Temnostoma bombylans*** (Fabricius,  
1805)

Source: AJL, DF, MdG, (Lambeck  
1968; Glumac 1972; De Groot 2004)

***Temnostoma meridionale***

Krivosheina & Mamayev, 1962

Source: NMW

***Temnostoma vespiforme*** (Linnaeus,  
1758)

Source: AJL, MdG, (Coe 1960;  
Lambeck 1968)

*Volucella* Geoffroy, 1762

***Volucella bombylans*** (Linnaeus,  
1758)

Source: SMNH, Trieste, MNHV,  
AJL, MdG, DF, JV, SB, (Strobl 1909;  
Lambeck 1968; De Groot 2004)

***Volucella inanis*** (Linnaeus, 1758)

Source: SMNH, ZMA, MNHV, AJL,  
MdG, DF, FD, SB, (Strobl 1893b;  
Strobl 1894; Strobl 1909; Coe 1960;  
Lambeck 1968; De Groot 2004)

***Volucella inflata*** (Fabricius, 1794)

Source: MNHV, (Strobl 1909), DF

***Volucella pellucens*** (Linnaeus, 1758)

Source: SMNH, ZMA, Trieste, ZCBF,  
AJL, DF, FD, MdG, JV, (Strobl 1909;  
Coe 1960; Lambeck 1968; De Groot  
2004)

***Volucella zonaria*** (Poda, 1761)

Source: ZMA, Trieste, NMW, ZCBF,  
AJL, DF, FD, (Strobl 1909; Coe  
1960)

*Xylota* Meigen, 1822

***Xylota abiens*** Meigen, 1822

Source: MdG

***Xylota caeruleiventris*** Zetterstedt,  
1838

Source: AJL

***Xylota florum*** (Fabricius, 1805)

Syn: *Zelimiya florum* (Trieste)

Source: Trieste, (Milankov et al.  
1995; Vujić & Milankov 1999)

***Xylota ignava*** (Panzer, 1798)

Source: (Strobl 1909; Milankov et al.  
1995; Vujić & Milankov 1999)

***Xylota jakutorum*** Bagatshanova,  
1980

Source: MdG, SB, (Vujić & Milankov  
1999)

***Xylota segnis*** (Linnaeus, 1758)

Source: DF, MdG, JV, (Strobl 1893b;  
Coe 1960; Lambeck 1968; Milankov  
et al. 1995; Vujić & Milankov 1999;  
De Groot 2004)

***Xylota sylvarum*** (Linnaeus, 1758)

Source: Trieste, SB, MdG, (Coe  
1960; Lambeck 1968; Milankov et al.  
1995; Vujić & Milankov 1999; De  
Groot 2004)

***Xylota triangularis*** Zetterstedt, 1838

Source: (Milankov et al. 1995)

***Xylota xanthocnema*** Collin, 1939

Source: AJL, MdG, (Coe 1960)

**Table 2:** List of omitted names

Names	References
<b>A list of not retraced names</b>	
<i>Eumerus lasilus</i>	Trieste
<i>Cheilosia brachyptera</i>	Glumac 1956a
<i>Cheilosia rufipes</i>	SMNH
<i>Melanostoma hyalinatum</i>	Strobl 1893
<i>Myiolepta ruficornis</i>	Strobl 1893
<i>Lasiophticus lunulatus</i>	Strobl 1909
<i>Lasiophticus obscurus</i>	Strobl 1909
<i>Spylomia fusca</i>	Sivec et al. 2003
<i>Syrphus lasiophtalmus</i>	Strobl 1909
<b>Doubtful identification</b>	
<i>Merodon spinipes</i>	De Groot 2004
<i>Merodon spicatus</i>	De Groot 2004
<i>Platycheirus transfugus</i>	De Groot 2004
<i>Xylota caeruleiventris</i>	Milankov et al. 1995
<b>Location not in Slovenia</b>	
<i>Platycheirus aurolateralis</i> Stubbs, 2002	Dozckal et al. 2002

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