

Phoridae

Jean-Paul Haenni (1998 Checklist: Sabine Prescher)

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Diagnosis: 0.5-6 mm long flies, mostly dark coloured and of stout appearance, with characteristic wing venation (shortened costa, radial veins crowded to the costal margin, other veins thin, partly unattached basally). Head bearing conspicuous bristles, often shaggy, antenna with enlarged third segment and elongate arista, palpus one-segmented, eyes normally developed. Thorax often arched, legs strong, femora stout, hind metatarsus generally with hair palisades. Abdomen of generally 6 tergites before the genitalia, sternites absent. Male hypopygium variously modified. Females of some genera have reduced eyes and wings in relation with a parasitic way of life. Larvae are very variable in shape, according to their life-habits, with generally 12-segmented body, the segments bearing numerous projections.

Biology: Phorids are probably the most diverse Diptera family in terms of life-histories. Adults are frequently seen in many terrestrial habitats, where they feed on nectar, on fluids exuding from carrion and dung, etc. Larvae feed on decaying organic matter, dung, carrion, fungi, but some are phytophagous, some live on mycelium, and other are predators or parasites on various groups of invertebrates, including insect larvae and pupae, spiders, centipedes, millipedes, molluscs, earthworms, etc.

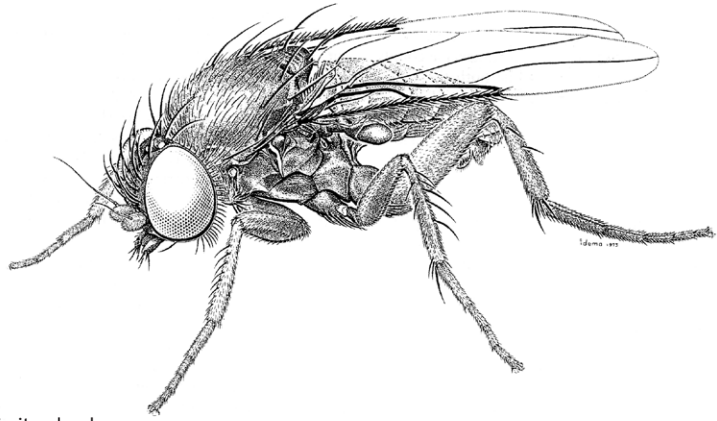
Nomenclature and classification: According to Disney (1983, 1989, 1991, 1994, 1998, 1999).

Number of species: CH: 216 (1998 Checklist: 184),
CZ: 230, DE: 259, GB: 341, NL: 260, FI: ~230, SK: 208, Europe: > 650, World: > 4100.

Level of faunistic knowledge in Switzerland: Poor; only limited study of the Swiss fauna has been undertaken until now and the occurrence of very numerous additional species is expected. The present list is largely based upon the one published in the preceding checklist (Prescher 1998), completed by the species added in the first, second and third published supplements (Merz et al. 2002, 2006, Bächli et al. 2014). Some changes concerning the Swiss fauna may have been overlooked or misinterpreted by the compiler of the present list – not a specialist of the family – who is responsible for any change from the initial 1998 list.

General references: Disney (1983, 1989) [identification keys, Britain], Disney (1991) [catalogue of Palaearctic species], Disney (1994) [general, key to world genera], Disney (1998) [general, key to Palaearctic genera], Schmitz (1938-1958), Schmitz & Beyer (1965-1974), Schmitz & Delage (1974-1981) [identification keys, Palaearctic region].

References to the Swiss fauna: Bächli et al. (2014), Disney (2001), Basset (1985), Disney & Prescher (2015), Haenni & Delarze (2010), Merz et al. (2002, 2006), Prescher (1998), Prescher & Haenni (2001), Prescher & Wermelinger (2001), Prescher et al. (2000, 2002), Schiegg et al. (1999), Schmitz (1926).



Phora occidentata,
male, not present in Switzerland
(MND2, p. 689).

Checklist

Aenigmatias Meinert, 1890

- *dorni* (Enderlein, 1908) !
- *franzi* Schmitz, 1950 !
- *lubbockii* (Verrall, 1877) !

Anevrina Lioy, 1864

- *curvinervis* (Becker, 1901) !
- *thoracica* (Meigen, 1804) !
- *unispinosa* (Zetterstedt, 1860) !
- *urbana* (Meigen, 1830) !

Borophaga Enderlein, 1924

- *agilis* (Meigen, 1830) !
- *carinifrons* (Zetterstedt, 1848) L
- *femorata* (Meigen, 1830) !
- *incrassata* (Meigen, 1830) !
- *irregularis* (Wood, 1912) !
- *subsultans* (Linnaeus, 1767) !

Chaetopleurophora Schmitz, 1922

- *erythronota* (Strobl, 1892) !
- *spinosissima* (Strobl, 1892) !

Conicera Meigen, 1830

- *dauci* (Meigen, 1830) !
- *floricola* Schmitz, 1938 !
- *schnittmanni* Schmitz, 1926 L
- *similis* (Haliday, 1833) !
- *tarsalis* Schmitz, 1920 !

- *tibialis* Schmitz, 1925 !

Diplonevra Lioy, 1864

- *abbreviata* (von Roser, 1840) !
- *concinna* (Meigen, 1830) L
- *crassicornis* (Meigen, 1830) !
- *florea* (Fabricius, 1794) !
- *funebri* (Meigen, 1830) !
- *glabra* (Schmitz, 1927) !
- *nitidula* (Meigen, 1830) !
- *pilosella* (Schmitz, 1927) !
- *sesquicornis* (Schmitz, 1927) !

Dohrniphora Dahl, 1898

- *cornuta* (Bigot in de la Sagra, 1857) !

Gymnophora Macquart, 1835

- *arcuata* (Meigen, 1830) !
- *integralis* Schmitz, 1920 !
- *nigripennis* Schmitz, 1926 L

Hypocera Lioy, 1864

- *mordellaria* (Fallén, 1823) !

Megaselia Rondani, 1856

- *abdita* Schmitz, 1959 !
- *aculeata* (Schmitz, 1919) !
- *aequalis* (Wood, 1909) !
- *affinis* (Wood, 1909) !
- *albicans* (Wood, 1908) !
- *albiclava* Schmitz, 1926 L
- *albocingulata* (Strobl, 1906) !
- *alpina* Schmitz, 1965 L
- *alticolella* (Wood, 1909) L
- *altifrons* (Wood, 1909) !
- *angusta* (Wood, 1909) L N1
- = *dimidia* Schmitz, 1926
- *annulipes* (Schmitz, 1921) !
- *aristica* (Schmitz, 1920) !
- *armata* (Wood, 1909) !
- *basseti* Disney, 2001 !
- *beckeri* (Wood, 1909) L
- *berndseni* (Schmitz, 1919) !
- *bifida* Disney, 1983 !
- *bovista* (Gimmerthal, 1848) L
- *brevicostalis* (Wood, 1910) !
- *breviseta* (Wood, 1912) L
- *breviterga* (Lundbeck, 1920) L
- *ciliata* (Zetterstedt, 1848) !
- *cinereifrons* (Strobl, 1910) L
- *clemonsi* Disney, 1984 !

- *consetigera* (Schmitz, 1925) L
- *costalis* (von Roser, 1840) ! NI
- *crassilla* Schmitz, 1926 L
- *crassipes* (Wood, 1909) L
- *curvicapilla* Schmitz, 1947 !
- *dahli* (Becker, 1901) !
- *densior* Schmitz, 1927 !
- *differens* Schmitz, 1948 !
= *beyeri* Schmitz, 1965
- *discreta* (Wood, 1909) L
- *diversa* (Wood, 1909) !
- *drakei* Disney, 1984 !
- *errata* (Wood, 1912) !
- *flava* (Fallén, 1823) !
- *flavescens* (Wood, 1909) L
- *flavicans* Schmitz, 1935 !
- *flavicoxa* (Zetterstedt, 1848) !
- *frameata* Schmitz, 1927 !
- *fungivora* (Wood, 1909) L
- *furva* Schmitz, 1929 !
- *fusca* (Wood, 1909) L
- *fuscinervis* (Wood, 1908) !
- *fuscovariana* Schmitz, 1933 !
- *giraudii* (Egger, 1862) !
- *glabrifrons* (Wood, 1909) !
- *gregaria* (Wood, 1910) L
- *hirsuta* (Wood, 1910) !
- *hirticrus* (Schmitz, 1918) !
- *hirtiventris* (Wood, 1909) !
- *hortensis* (Wood, 1909) !
- *humeralis* (Zetterstedt, 1838) L
- *hyalipennis* (Wood, 1912) L
- *insons* (Lundbeck, 1920) !
- *intergeriva* Schmitz, 1948 !
- *involuta* (Wood, 1910) !
- *lata* (Wood, 1910) L
- *latifemorata* (Becker, 1901) !
- *latifrons* (Wood, 1910) L
- *latior* Schmitz, 1936 !
- *latipalpis* (Schmitz, 1921) !
- *limpachensis* Disney & Prescher, 2015 !
- *longipalpis* (Wood, 1910) L
- *lucifrons* (Schmitz, 1918) !
- *lutea* (Meigen, 1830) !
- *luteipes* (Schmitz, 1918) !
- *lutescens* (Wood, 1910) L

- *mallochi* (Wood, 1909) !
- *manicata* (Wood, 1910) !
- *manualis* (Schmitz, 1919) !
- *meconicera* (Speiser, 1925) !
- *meigeni* (Becker, 1901) L
- *melanocephala* (von Roser, 1840) !
- *minor* (Zetterstedt, 1848) !
- *nasoni* (Malloch, 1914) L
- *nectergata* Disney, 1989 !
- *nigra* (Meigen, 1830) !
- *nigriceps* (Loew, 1866) !
- *obscuripennis* (Wood, 1909) L
- *offuscata* (Schmitz, 1921) L
- *pallidizona* (Lundbeck, 1920) L
- *palmeni* (Becker, 1901) L
- *paludosa* (Wood, 1908) L
- *parva* (Wood, 1909) !
- *pectinifera* Schmitz, 1926 L
- *pectoralis* (Wood, 1910) L
- *pedatella* (Schmitz, 1926) L
- *perdistans* (Schmitz, 1924) !
- *picta* (Lehmann, 1822) L
- *pleuralis* (Wood, 1909) !
- *plurispinulosa* (Zetterstedt, 1860) !
- *posticata* (Strobl, 1898) !
- *praeacuta* (Schmitz, 1919) !
- *propinqua* (Wood, 1909) !
- *protarsalis* Schmitz, 1927 L
- *pseudogiraudii* (Schmitz, 1920) !
- *pulicaria* (Fallén, 1823) L N1
- *pumila* (Meigen, 1830) !
- *pusilla* (Meigen, 1830) !
- *pygmaea* (Zetterstedt, 1848) L
- *raruvesiculae* Buck & Disney, 2001 !
- *rochefortensis* Disney & Prescher, 2015 !
- *rubella* (Schmitz, 1920) !
- *rufa* (Wood, 1908) !
- *ruficornis* (Meigen, 1830) !
- *rufifrons* (Wood, 1910) !
- *rufipes* (Meigen, 1804) !
- *scalaris* (Loew, 1866) !
- *scutellaris* (Wood, 1909) !
- *setulipalpis* Schmitz, 1938 L
- *sihlwaldensis* Disney & Prescher, 2015 !
- *sordida* (Zetterstedt, 1838) !
- *spinicincta* (Wood, 1910) !

- *spinigera* (Wood, 1908) !
- *stigmatica* (Schmitz, 1920) !
- *subcarpalis* (Lundbeck, 1920) L
- *subfraudulenta* Schmitz, 1933 !
- *subnudipennis* (Schmitz, 1919) !
- *subpleuralis* (Wood, 1909) !
- *subtumida* (Wood, 1909) L
- *sulphuripes* (Meigen, 1830) L
- *superciliata* (Wood, 1910) L
- *surdifrons* (Wood, 1909) L
- *sylvatica* (Wood, 1910) !
- *tamilnaduensis* Disney, 1996 !
- *tarsalis* (Wood, 1910) L
- *tarsicia* Schmitz, 1926 L
- *tumida* (Wood, 1909) L N1
- *unguicularis* (Wood, 1909) !
- *variana* Schmitz, 1926 L
- *verna* Schmitz, 1932 L
- *verralli* (Wood, 1910) !
- *woodi* (Lundbeck, 1922) !
- *xanthozona* (Strobl, 1892) !

Menzioziola Schmitz, 1927

- *schmitzi* (Menziozi, 1921) !

Metopina Macquart, 1835

- *braueri* (Strobl, 1880) !
- *crassinervis* Schmitz, 1920 !
- *galeata* (Haliday, 1833) !
- *heselhausi* Schmitz, 1914 !
- *oligoneura* (Mik, 1867) !
- *perpusilla* (Six, 1878) !
- *pileata* Schmitz, 1936 !
- *trochanteralis* Schmitz, 1953 L

Phalacrotophora Enderlein, 1912

- *berolinensis* Schmitz, 1920 !
- *fasciata* (Fallén, 1823) !

Phora Latreille, 1796

- *atra* (Meigen, 1804) L
- *dubia* (Zetterstedt, 1848) !
- *holosericea* Schmitz, 1920 !
- *horrída* Schmitz, 1920 L
- *pubipes* Schmitz, 1920 L
- *stictica* Meigen, 1830 !
- *tincta* Schmitz, 1920 !

Plectanocnema Schmitz, 1926

- *nudipes* (Becker, 1901) !

Pseudacteon Coquillett, 1907

- *brevicauda* Schmitz, 1925 !
- *formicarum* (Verrall, 1877) !

Spiniphora Malloch, 1909

- *bergenstammi* (Mik, 1864) !
- *dorsalis* (Becker, 1901) !
- *jugorum* (Schmitz, 1924) !
- *maculata* (Meigen, 1830) !

Triphleba Rondani, 1856

- *antricola* (Schmitz, 1918) L
- *aprilina* (Schmitz, 1918) !
- *aptina* (Schiner, 1853) L
- *autumnalis* (Becker, 1901) !
- *bicornuta* (Strobl, 1910) !
- *citrefiformis* (Becker, 1901) L
- *dentata* Schmitz, 1943 L
- *distinguenda* (Strobl, 1892) !
- *dudai* (Schmitz, 1918) !
- *excisa* (Lundbeck, 1921) L
- *forfex* Schmitz, 1943 !
- *hentrichi* Schmitz, 1943 !
- *hyalinata* (Meigen, 1830) !
- *intermedia* (Malloch, 1908) !
- *nudipalpis* (Becker, 1901) !
- *papillata* (Wingate, 1906) !
- *trinervis* (Becker, 1901) !
- *tumidula* (Schmitz, 1918) !

Xenotriphleba Buck, 1997

- *dentistylata* Buck, 1997 !

Notes

- N1 The species *Megaselia angusta* (Wood, 1909), *M. dimidia* (Schmitz, 1926), *M. pulicaria* (Fallén, 1823) and *M. tumida* (Wood, 1909), recorded from Switzerland according to the Catalogue of Palaearctic Diptera (Disney 1991), together with *M. costalis* (von Roser, 1840), recorded by Prescher et al. (2000) according to Merz et al. (2002), belong to the difficult *Megaselia pulicaria* *agg.* complex of species revised by Disney (1999). The Swiss material has not been re-examined after Disney's revision.

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