

Hybotidae

Lucia Pollini Paltrinieri (1998 Checklist: Bernhard Merz, Milan Chvála, Patrick Grootaert & Andreas Stark)

Last update: Jul 2024

Diagnosis: Minute to small-sized flies (1-6 mm), rarely larger. Often dark, but colour can vary from black to yellow. Eyes relatively large, with a V shaped incision at the level of antennae. Antennae short or with elongate third segment; first antennal segment without bristles; mouthpart varying among subfamilies: short to elongate, when elongate projecting forwards to downwards. Thorax rectangular, sometimes considerably extended in Tachydromiinae or greatly arched upward in Hybotinae. Prosternum small, separated from lateral plates by a membrane. Wing clear or infusate, sometimes with markings; radial sector originating distal of humeral cross vein, R_{4+5} not forked; basal cells relatively large; discal cell either present or absent. Legs long and slender, often raptorial. Male genitalia asymmetrical and rotated.

Biology: The adults are predators of small insects or other arthropods and hunt while running on the ground, on tree trunks, and other similar places, or, less frequently, in flight. Only few species visit flowers to feed on nectar and pollen. Swarming has been observed in the Ocydromiinae. Larvae are poorly known; they live in the soil or decaying organic matter and prey on small invertebrates.

Nomenclature and classification: According to Fauna Europaea (Chvála 2013), with minor changes.

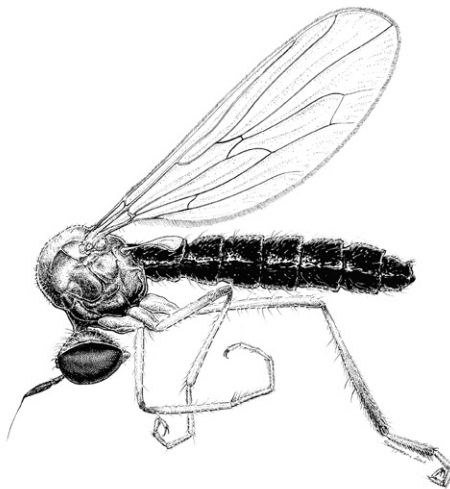
Number of species: CH: 199 (1998 Checklist: 184),
CZ: 207, DE: 124, GB: 182, 180, FI: 144, NL: 132, SK: 170, Europe: ~440, World: ~1970.

Level of faunistic knowledge in Switzerland: Medium. Additional species certainly occur in Switzerland. The present list is largely based upon the one published in the preceding checklist (Merz et al. 1998), complemented 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 Checklist.

General references: Chvála (1975 [key Tachydromiinae], 1983 [key Hybotinae], 1989 [key *Platypalpus*]), Collin (1961 [key British Isles], van der Goot (1991) [key *Hybos* Benelux], Gorodkov & Kovalev (1989) [key former USSR], Papp & Földvári (2001), Sinclair & Cumming (2006) [classification, key to families and groups].

References to the Swiss fauna: Merz et al. (1998, 2002, 2006), Merz et al. (2012), Keiser (1947), Meier & Sauter (1989), Merz (2004), Ringdahl (1957), Schiegg et al. (1999), Stark & Doczkal (2017), Volkart (1991).

Chvalaea sopiana,
female (Papp & Földvári 2001).



Checklist

Ocydromiinae

Allanthalia Melander, 1928

- *pallida* (Zetterstedt, 1838) !

Anthalia Zetterstedt, 1838

- *beatricella* Chandler, 1992 !
- *schoenherr* Zetterstedt, 1838 !

Bicellaria Macquart, 1823

- *albopilosa* Chvála, 1991 !
- *alpina* Bezzi, 1918 !
- *austriaca* Tuomikoski, 1955 !
- *intermedia* Lundbeck, 1910 !
- *longisetosa* Chvála, 1991 !
- *nigra* (Meigen, 1824) !
- *nigrita* Collin, 1926 !
- *pilosa* Lundbeck, 1910 !
- *simplicipes* (Zetterstedt, 1842) !
- *spuria* (Fallén, 1816) !
- *sulcata* (Zetterstedt, 1842) L
- *vana* Collin, 1926 !

Euthyneura Macquart, 1836

- *albipennis* (Zetterstedt, 1842) !
- *gyllenhali* (Zetterstedt, 1838) !
- *halidayi* Collin, 1926 !
- *myrtilli* Macquart, 1836 !

Hybos Meigen, 1803

- *culiciformis* (Fabricius, 1775) !
- *femoratus* (Müller, 1776) !

- *grossipes* (Linnaeus, 1767) !
- Leptopeza* Macquart, 1827
 - *borealis* Zetterstedt, 1842 !
 - *flavipes* (Meigen, 1820) !
- Ocydromia* Meigen, 1820
 - *glabricula* (Fallén, 1816) !
 - *melanopleura* Loew, 1840 !
- Oedalea* Meigen, 1820
 - *austroholmgreni* Chvála, 1981 !
 - *flavipes* Zetterstedt, 1842 !
 - *holmgreni* Zetterstedt, 1852 !
 - *hybotina* (Fallén, 1816) !
 - *montana* Chvála, 1981 !
 - *oriunda* Collin, 1961 !
 - *stigmatella* Zetterstedt, 1842 !
 - *tibialis* Macquart, 1827 !
 - *tristis* Scholtz, 1851 !
 - *zetterstedti* Collin, 1926 !
- Oropezella* Collin, 1926
 - *sphenoptera* (Loew, 1873) !
- Syndyas* Loew, 1857
 - *nigripes* (Zetterstedt, 1842) !
- Syneches* Walker, 1852
 - *muscarius* (Fabricius, 1794) !
- Trichina* Meigen, 1830
 - *bilobata* Collin, 1926 !
 - *elongata* Haliday, 1833 !
 - *opaca* Loew, 1864 !
- Trichinomyia* Tuomikoski, 1959
 - *flavipes* (Meigen, 1830) !
 - *fuscipes* (Zetterstedt, 1838) !

Tachydromiinae

- Crossopalpus* Bigot, 1857
 - *aeneus* (Walker, 1871) !
 - *flexuosus* (Loew, 1840) !
 - *humilis* (Frey, 1913) !
 - *minimus* (Meigen, 1838) !
 - *nigritellus* (Zetterstedt, 1842) !
 - *setiger* (Loew, 1859) !
- Drapetis* Meigen, 1822
 - *arcuata* Loew, 1859 !
 - *assimilis* (Fallén, 1815) !
 - *completa* Kovalev, 1972 !
 - *exilis* Meigen, 1822 !
 - *flavipes* Macquart, 1834 !

- *fumipennis* Strobl, 1906 !
- *parilis* Collin, 1926 !
- *pusilla* Loew, 1859 !
- *simulans* Collin, 1961 !

Elaphropeza Macquart, 1827

- *ephippiata* (Fallén, 1815) !

Platypalpus Macquart, 1827

- *agilis* (Meigen, 1822) !
- *albicornis* (Zetterstedt, 1842) !
- *albifacies* (Collin, 1926) !
- *albiseta* (Panzer, 1806) !
- *albocapillatus* (Fallén, 1815) L
- *aliterolamellatus* Kovalev, 1971 !
- *alpigenus* (Strobl, 1893) !
- *alpinus* Chvála, 1971 !
- *analís* (Meigen, 1830) !
- *annulatus* (Fallén, 1815) !
- *annulipes* (Meigen, 1822) !
- *annulitarsis* Kovalev, 1978 !
- *aristatus* (Collin, 1926) !
- *articulatoides* (Frey, 1918) !
- *articulatus* Macquart, 1827 !
- *aurantiacus* (Collin, 1926) !
- *australominutus* Grootaert, 1989 !
- *baldensis* (Strobl, 1899) !
- *balticus* Kovalev, 1971 L
- *biapicalis* Wéber, 1972 !
- *bilobatus* Wéber, 1972 !
- *boreoalpinus* Frey, 1943 !
- *brachystylus* (Bezzi, 1892) !
- *brevicornis* (Zetterstedt, 1842) !
- *calceatus* (Meigen, 1822) !
- *candicans* (Fallén, 1815) !
- *caroli* Grootaert, 1987 !
- *celer* (Meigen, 1822) !
- *ciliaris* (Fallén, 1816) !
- *cilitarsis* Frey, 1943 !
- *commutatus* (Strobl, 1893) !
- *confiformis* Chvála, 1971 !
- *cothurnatus* Macquart, 1827 !
- *cruralis* (Collin, 1961) !
- *cryptospina* (Frey, 1909) !
- *cursitans* (Fabricius, 1775) !
 - = *bicolor* Meigen, 1804
- *dilatovittatus* (Strobl, 1910) !
- *ecalceatus* (Zetterstedt, 1838) !

- *engadinicus* (Mik, 1896) !
= *testaceus* Becker, 1887
- *excavatus* Yang & Yao, 2007 !
= *excisus* (Becker, 1907)
- *exilis* (Meigen, 1822) !
- *eximius* (Oldenberg, 1924) !
- *flavicornis* (Meigen, 1822) !
- *flaviseta* Chvála, 1973 L
- *fuscicornis* (Zetterstedt, 1842) !
- *incertus* (Collin, 1926) !
- *infectus* (Collin, 1926) !
- *insperatus* Kovalev, 1971 !
- *interstinctus* (Collin, 1926) !
- *kirtlingensis* Grootaert, 1986 !
- *kovalevi* Chvála, 1988 !
- *laticinctus* Walker, 1851 !
- *leucocephalus* (von Roser, 1840) !
- *leucothrix* (Strobl, 1910) !
- *longicornis* (Meigen, 1822) !
- *longimanus* (Corti, 1907) !
- *longiseta* (Zetterstedt, 1842) !
- *luteicornis* (Meigen, 1838) !
- *luteipes* Zusková, 1966 !
- *luteolus* (Collin, 1926) !
- *luteus* (Meigen, 1804) !
- *macula* (Zetterstedt, 1842) !
- *maculimanus* (Zetterstedt, 1842) !
- *maculipes* (Meigen, 1822) !
- *major* (Zetterstedt, 1842) !
- *melancholicus* (Collin, 1961) !
- *mikii* (Becker, 1890) !
- *minutus* (Meigen, 1804) !
- *nigellus* (Collin, 1969) !
- *niger* (Meigen, 1804) !
- *nigricolor* Merz & Chvála, 1998 !
- *nigricoxa* (Mik, 1884) !
- *nigrimanus* Strobl, 1880 !
- *nigrinus* (Meigen, 1822) !
= *montanus* Becker, 1887
- *nigritarsis* (Fallén, 1816) !
- *nigrosetosus* (Strobl, 1893) !
- *niveiseta* (Zetterstedt, 1842) !
- *niveisetoides* Chvála, 1973 !
- *notatus* (Meigen, 1822) !
- *obscurus* (von Roser, 1840) !
- *ochrocera* (Collin, 1961) !

- *optivus* (Collin, 1926) !
- *pallidicornis* (Collin, 1926) !
- *pallidiseta* Kovalev, 1978 !
- *pallidiventris* (Meigen, 1822) !
= *flavipes* Fabricius, 1794
- *pallipes* (Fallén, 1815) !
- *pectoralis* (Fallén, 1815) !
- *praecinctus* (Collin, 1926) !
- *pseudociliaris* (Strobl, 1910) !
- *pseudofulvipes* (Frey, 1909) !
- *pseudorapidus* Kovalev, 1971 !
- *pulicarius* (Meigen, 1830) !
- *pygialis* Chvála, 1973 !
- *rapidoides* Chvála, 1975 !
- *rapidus* (Meigen, 1822) !
- *ringdahli* Chvála, 1975 !
- *riojaensis* Chvála, 1981 !
- *ruficornis* (von Roser, 1840) !
- *scandinavicus* Chvála, 1972 !
- *smirnovi* Kovalev, 1978 !
- *stabilis* (Collin, 1961) !
- *stackelbergi* Kovalev, 1971 !
- *stigma* (Collin, 1926) !
- *stigmatelloides* Grootaert & Chvála, 1988 !
- *stigmatellus* (Zetterstedt, 1842) !
= *lateralis* Becker, 1887
- *stroblii* (Mik, 1900) !
- *subbrevis* (Frey, 1913) !
- *subtilis* (Collin, 1926) !
- *sylvicola* (Collin, 1926) !
- *tonsus* (Collin, 1961) !
- *tuomikoskii* Chvála, 1972 !
- *vegrandis* Frey, 1943 !

Stilpon Loew, 1859

- *graminum* (Fallén, 1815) !
- *nubilus* Collin, 1926 !

Symballophthalmus Becker, 1889

- *dissimilis* (Fallén, 1815) !
- *fuscitarsis* (Zetterstedt, 1859) !
- *pictipes* (Becker, 1889) !

Tachydromia Meigen, 1803

- *aemula* (Loew, 1864) !
- *annulimana* Meigen, 1822 !
- *arrogans* (Linnaeus, 1760) !
- *calcanea* (Meigen, 1838) !
- *carpathica* Chvála, 1966 !

- *catalonica* (Strobl, 1906) !
- *connexa* Meigen, 1822 !
- *interrupta* (Loew, 1864) !
- *obsoleta* Strobl, 1910 !
- *parva* Chvála, 1970 !
- *productipes* (Strobl, 1910) !
- *rhyacophila* Chvála, 1994 !
- *styriaca* (Strobl, 1893) !
 - = *barbata* Oldenberg, 1920
- *tuberculata* (Loew, 1864) !
- *umbrarum* Haliday, 1833 !
- *velocipes* Frey, 1943 L
- *wendti* Stark & Doczkal, 2017 L
- *woodi* (Collin, 1926) !

Tachypeza Meigen, 1830

- *fennica* Tuomikoski, 1932 !
- *fuscipennis* (Fallén, 1815) !
- *nubila* (Meigen, 1804) !
- *truncorum* (Fallén, 1815) L

Excluded species

Bicellaria dispar Oldenberg, 1920

Trichina clavipes Meigen, 1830

References

- Bächli G., Merz B. & Haenni J.-P. 2014. Dritter Nachtrag zur Checkliste der Diptera der Schweiz. Entomo Helvetica 7: 119-140.
- Barták M. & Kubík Š. 2009. A new species of the genus *Trichina* (Diptera: Hybotidae) with a key to European species. Biologia 64: 947-950.
- Barták M. & Kubík Š. 2013. Species of *Bicellaria* Macquart (Diptera: Hybotidae) of Europe, with descriptions of four new species. Zootaxa 3647(2): 251-278.
- Chandler P.J. 1992. *Anthalia beatricella* sp.n. and two other additions to the British list of Oedaleini (Diptera, Empidoidea). Dipterists Digest 12: 16-22.
- Chvála M. 1970. Revision of Palaearctic species of the genus *Tachydromia* Meig. (= *Tachista* Loew) (Diptera, Empidoidea). Sbornik Entomologického Oddeleni Národního Muzei v Praze 38: 431-540.
- Chvála M. 1975. The Tachydromiinae (Dipt. Empidoidea) of Fennoscandia and Denmark. Fauna Entomologica Scandinavica 3: 1-336.
- Chvála M. 1978. Revision of Palaearctic species of the genus *Chersodromia* Walker (Diptera, Empidoidea). Acta Entomologica Musei Nationalis Pragae 39: 55-138.
- Chvála M. 1981. Revision of Central European species of the genus *Oedalea* (Diptera, Empidoidea). Acta Entomologica Bohemoslovaca 78: 122-139.
- Chvála M. 1983. The Empidoidea (Diptera) of Fennoscandia and Denmark II. General part. The families Hybotidae, Atelestidae and Microphoridae. Fauna Entomologica Scandinavica 12: 1-279.
- Chvála M. 1989. Monograph of Northern and Central European species of *Platypalpus* (Diptera, Hybotidae), with data on the occurrence in Czechoslovakia. Acta Universitatis Carolinae, Biologica 32: 209-376.
- Chvála M. 2013. Fauna Europaea: Hybotidae. In: Beuk P. & Pape T. (eds). Fauna Europaea: Diptera, Brachycera. Fauna Europaea version 2.6. <http://www.faunaeur.org>.
- Collin J.E. 1961. Empidoidea – British Flies. Volume 6. Cambridge University Press, 782 pp.

- Engel E.O. 1938-1939. Unterfamilie Corynetinae (Tachydromiinae). In: Lindner E. (ed.), Die Fliegen der palaearktischen Region. Vol. IV(4): 12-119. Schweizerbart, Stuttgart.
- Frey R. 1956. Unterfamilie Ocydromiinae und Hybotinae. In: Lindner E. (ed.), Die Fliegen der palaearktischen Region. Vol. IV(4): 584-619. Schweizerbart, Stuttgart.
- Gorodkov K.B. & Kovalev V.G. 1989. Family Thyreophoridae. In: Bei-Bienko G.Y. & Steyskal G.C (eds). Keys to the insects of the European Part of the USSR. Vol. V. Diptera and Siphonaptera, Part 2: 351. Brill, Leiden, New York, København, Köln.
- Grootaert P. & Chvála M. 1992. Monograph of the genus *Platypalpus* (Diptera, Empidoidea, Hybotidae) of the Mediterranean region and the Canary Islands. Acta Universitatis Carolinae, Biologica 36: 3-226.
- Grootaert P., Shamshev I. & Stark A. 2010. *Drapetis flavipes* Macquart (Diptera, Hybotidae) new for the Belgian fauna, with a re-description of the species and a preliminary key to the West-European species of *Drapetis*. Bulletin de la Société royale belge d'Entomologie 146: 110-114
- Keiser F. 1947. Die Fliegen des Schweizerischen Nationalparks und seiner Umgebung. Pars I. Brachycera Orthorhapha. Ergebnisse der Wissenschaftlichen Untersuchungen im Schweizerischen Nationalpark Band 11 (Neue Folge) 18: 1-198.
- Meier C. & Sauter W. 1989. Zur Kenntnis der Insektenfauna eines Auenwaldreservates an der Aare bei Villnachern AG. Mitteilungen der Aargauer Naturforschenden Gesellschaft 32: 217-258.
- Merz B. 2004. Neun für die Schweiz neue Fliegenarten (Diptera, Brachycera). Mitteilungen der Entomologischen Gesellschaft Basel 53: 98-109.
- Merz B., Bächli G. & Haenni J.-P. 2002. Erster Nachtrag zur Checkliste der Diptera der Schweiz. Mitteilungen der Entomologischen Gesellschaft Basel 51(3-4)(2001): 110-140.
- Merz B., Bächli G. & Haenni J.-P. 2006. Zweiter Nachtrag zur Checkliste der Diptera der Schweiz. Mitteilungen der Entomologischen Gesellschaft Basel 56(4): 135-165.
- Merz B., Chvála M., Grootaert P. & Stark A. 1998. 44. Hybotidae. In: Merz B., Bächli G., Haenni J.-P. & Gonthier Y. (eds). Diptera - Checklist. Fauna Helvetica 1: 181-186. CSCF / SEG, Neuchâtel, 369 pp.
- Merz B. & Chvála M. 1998. A remarkable finding of *Platypalpus* (Diptera, Hybotidae) in southern Switzerland with description of a new species from Switzerland and Czech Republic. Studia dipterologica 5: 85-94.
- Merz B., Naglis S. & Pollini L. 2012. 8.36.19. Superfamilie Empidoidea. In: Merz B. (ed). Liste annotée des insectes (Insecta) du canton de Genève. Instrumenta Biodiversitatis 8: 369-373. Muséum d'histoire naturelle, Genève, 532 pp.
- Papp L. & Földvári M. 2001. A new genus and three new species of Hybotidae with new records of the Hungarian Empidoidea (Diptera). Acta Zoologica Academiae Scientiarum Hungaricae 47: 349-361.
- Ringdahl O. 1957. Fliegenfunde aus den Alpen. Entomologisk Tidskrift 78: 115-134.
- Schiegg K., Obrist M., Duelli P., Merz B. & Ewald K.C. 1999. Diptera and Coleoptera collected in the forest reserve Sihlwald ZH. Mitteilungen der Schweizerischen Entomologischen Gesellschaft 72: 289-302.
- Shamsev I.V. 1993. New species of the genus *Tachydromia* Mg. (Diptera: Hybotidae) from Palaearctic Region: 1. *Terricola* and *interrupta*-groups. International Journal of Dipterological Research 4: 105-122.
- Shamsev I.V. 1994a. New species of the genus *Tachydromia* Meigen (Diptera: Hybotidae) from Palaearctic Region: 2. *connexa*-group. International Journal of Dipterological Research 5: 3-9.
- Shamsev I.V. 1994b. New species of the genus *Tachydromia* Meigen (Diptera: Hybotidae) from Palaearctic Region: 3. *ornatipes*-group. International Journal of Dipterological Research 5: 95-100.
- Shamshev I., Grootaert P. & Kustov S. 2015. New data on the genus *Hybos* (Diptera: Hybotidae) from the Palaearctic Region. Zootaxa 3936(4): 451-484.
- Sinclair B.J. & Cumming J.M. 2006. The morphology, higher-level phylogeny and classification of the Empidoidea (Diptera). Zootaxa 1180: 1-172.
- Stark A. & Doczkal D. 2017. *Tachydromia wendti* spec. nov. (Diptera, Empidoidea, Hybotidae) from riverbeds at the Northern slope of the Alps and its forelands in Germany. Mauritiana 34: 481-498.
- Steyskal G.C. & L.V. Knutson 1981. Empididae. In: McAlpine J.F., Peterson B.V., Shewell G.E., Teskey H.J., Vockeroth J.R. and Wood D.M. (coords). Manual of Nearctic Diptera. Vol. 1: 607-624. Research Branch, Agriculture Canada, Ottawa, Monograph N° 27, vi + 675-1330 pp.
- van der Goot V.S. 1991. Dansvliegen. Determineertabel voor de wat grotere soorten van het geslacht *Empis* en alle soorten van het geslacht *Hybos* in de Benelux. Jeugdbondsuitgeverij, 's Graveland. 24 pp.
- Volkart H.D. 1991. Die Insektenfauna des Hochmoores Balmoos bei Hasle, Kanton Luzern. XXV. Diptera 3: Hybotidae und Empididae (Tanzfliegen). Entomologische Berichte Luzern 25: 51-57.