

A check-list of Finnish long-legged flies (Diptera: Dolichopodidae)

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A new check-list of Dolichopodidae (Diptera) from Finland lists 237 species. New synonym is proposed: *Thrypticus fennicus* Becker, 1917 = *T. divisus* Strobl, 1880 *syn. nov.* Synonymy of *Thinophilus flavipalpis* (Zetterstedt, 1843) and *Thinophilus neptunus* Frey, 1915 is confirmed.

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Introduction

History of Finnish Diptera research is rather long. Richard Frey was the first Finnish dipterologist who concentrated on Dolichopodid flies. In 1915 he published an annotated list of the Finnish species. The next complete list of dolichopodids, also written by Frey, was included in a catalogue of Finnish Diptera published in 1941 (Frey, 1941). During the following decades several important generic revisions were written: *Thrypticus* by Frey (1957), *Medetera* by Thunberg (1955). Storå's (1954, 1955) work on *Hydrophorus* species is also worth mentioning. After 1960 the publishing activity fell drastically. Hackman's checklist of Finnish Diptera (1980) summarised the accumulated knowledge. He listed 216 species of the family, some of which are here excluded from the fauna of the country.

This check-list results from a study of all dolichopodid material in major museum collections in Finland. All previous identifications have been checked, and unidentified material has been

sorted and identified. Methods and detailed data for new faunistic records have been published in a previous paper (Kahanpää & Grichanov in litt.). Some species records are considered here as doubtful as only females of the species have been located in the collections; all the species belong to genera or species groups, whose systematics is based mainly on male secondary sexual characters. Four species are deleted here from the country list because of misidentification of the original material (located in the Zoological Museum, Finnish Museum of Natural History; MZH). Some other species have only been recorded from Petsamo and Kuusamo regions or from the Karelian Isthmus, now mostly belonging to Russia; they are listed separately at the end of the checklist. If labels and field notes give no exact locality, then indirect (circumstantial) information are used (e.g., Viramo, 1998, regarding collecting sites in Kuusamo and Salla visited by Finnish entomologists prior to 1940).

A new check-list of Dolichopodidae (Diptera) from Finland lists 237 species. The following new synonym is proposed in this paper: *T. divisus*

Strobl, 1880 (= *Thrypticus fennicus* Becker, 1917, syn. nov.). Synonymy of *Thinophilus flavipalpis* (Zetterstedt, 1843) and *Thinophilus neptunus* Frey, 1915 is confirmed. The other important synonyms used in Finnish literature are given here. Species marked below with an asterisk (*) are included in the checklist for the first time (in all 27 species).

Check-list

Family DOLICHOPODIDAE Latreille, 1809

Subfamily ACHALCINAE Grootaert & Meuffels, 1997

Achalca Loew, 1857

cinereus (Haliday, 1851)

flavicollis (Meigen, 1824)

**vaillantii* Brunhues, 1987 [1986]

=*flavicollis* auct. (misid.) nec Meigen, 1824

Subfamily DIAPHORINAE Schiner, 1864

Argyra Macquart, 1934

=*Leucostola* Loew, 1857

argentina (Meigen, 1824)

argyria (Meigen, 1824)

auricollis (Meigen, 1824)

diaphana (Fabricius, 1775)

elongata (Zetterstedt, 1843)

**ilonae* Gosseries, 1989

=*confinis* (Zetterstedt, 1849), preocc. (nec Walker, 1849)

leucocephala (Meigen, 1824)

magnicornis (Zetterstedt, 1838)

**setimana* Loew, 1859

=*subarctica* auct. (misid.) nec Ringdahl, 1920

spoliata Kowarz, 1879

vestita (Wiedemann, 1817)

Chrysotus Meigen, 1824

**angulicornis* Kowarz, 1874

cilipes Meigen, 1824

femoratus Zetterstedt, 1843

gramineus (Fallén, 1823)

laesus (Wiedemann, 1817)

=*amplicornis* Zetterstedt, 1849

longipalpus Aldrich, 1896¹

=*pallidipalpus* van Duzee, 1933

neglectus (Wiedemann, 1817)

obscuripes Zetterstedt, 1838

=*kowarzi* Lundbeck, 1912

pulchellus Kowarz, 1874

suavis Loew, 1857

Diaphorus Meigen, 1824

**hoffmannseggii* Meigen, 1830

nigricans Meigen, 1824

oculatus (Fallén, 1823)

Subfamily DOLICHOPODINAE Latreille, 1809

Dolichopus Latreille, 1796

subgenus *Dolichopus* s. str.

=*Eudolichopus* Frey, 1915

=*Leucodolichopus* Frey, 1915

=*Melanodolichopus* Frey, 1915

acuticornis Wiedemann, 1817

**albifrons* Loew, 1859

annulipes Zetterstedt, 1838

=*stenhammari* Zetterstedt, 1843

**apicalis* Zetterstedt, 1849

argyrotarsis Wahlberg, 1850

armillatus Wahlberg, 1850

=*stenhammari* 'var. B' Zetterstedt, 1843

atripes Meigen, 1824

austriacus Parent, 1927

bonsdorffi Frey, 1915

brevipennis Meigen, 1824

caligatus Wahlberg, 1850

**calinotus* Loew, 1871

campestris Meigen, 1824

**cinctipes* Wahlberg, 1850

claviger Stannius, 1831

**clavipes* Haliday, 1832

cruralis Wahlberg, 1850

=*lapponicus* Becker, 1917

discifer Stannius, 1831

=*nigricornis* auct. nec Meigen, 1824

discimanus Wahlberg, 1851

fraterculus Zetterstedt, 1843

griseipennis Stannius, 1831

gubernator Mik, 1878

**latilimbatus* Macquart, 1827

lepidus Staeger, 1842

linearis Meigen, 1824

¹A glass-house species found only in one farm in Helsinki (years 1921 and -23)

lineatocornis Zetterstedt, 1843
longicornis Stannius, 1831
longitarsis Stannius, 1831
maculipennis Zetterstedt, 1843
mannerheimi Zetterstedt, 1838
migrans Zetterstedt, 1843
nitidus Fallén, 1823
notatus Staeger, 1842
 = *notabilis* Zetterstedt, 1843
nubilus Meigen, 1824
pectinitarsis Stenhammar, 1851
pennatus Meigen, 1824
picipes Meigen, 1824
planitarsis Fallén, 1823
plumipes (Scopoli, 1763)
popularis Wiedemann, 1817
pseudomigrans Ringdahl, 1928
 = *propinquus* auct. (misid.) nec Zetterstedt, 1852
punctum Meigen, 1824
remipes Wahlberg, 1839
rupestris Haliday, 1833
rutheii Loew, 1847
sabinus Haliday, 1838
signatus Meigen, 1824
**signifer* Haliday, 1832
simplex Meigen, 1824
 = *grandicornis* auct. (misid.) nec Wahlberg, 1850
**subpennatus* d'Assis-Fonseca, 1976
trivialis Haliday, 1832
 = *cilifemoratus* auct. (misid.) nec Macquart, 1827
ungulatus (Linnaeus, 1758)
urbanus Meigen, 1824
vitripennis Meigen, 1824
wahlbergi Zetterstedt, 1843
zetterstedti Stenhammar, 1852

subgenus *Hygroceleuthus* Loew, 1857
latipennis Fallén, 1823
subgenus *Macrodolichopus* Stackelberg, 1933
diadema Haliday, 1832

***Hercostomus* Loew, 1857**

subgenus *Gymnopternus* Loew, 1857
aerosus (Fallén, 1823)
angustifrons (Staeger, 1842)
brevicornis (Staeger, 1842)
celer (Meigen, 1824)
metallicus (Stannius, 1831)

subgenus *Hercostomus* s. str.
chalybeus (Wiedemann, 1817)
germanus (Wiedemann, 1817)
sahlbergi (Zetterstedt, 1838)

***Tachytrechus* Haliday, 1851**

ammobates (Haliday in Walker, 1851)
 = *plumipes* (Fallén, 1823) preocc.
**hamatus* Loew, 1871
notatus (Stannius, 1831)

Subfamily HYDROPHORINAE Lioy, 1864

***Hydrophorus* Fallén, 1823**

albiceps Frey, 1915
alpinus Wahlberg, 1844
altivagus Aldrich, 1911
 = *wahlgreni* Frey, 1915
 = *callosoma* Frey, 1915
bipunctatus (Lehmann, 1822)
borealis Loew, 1857
brunnicosus Loew, 1857
freyi Storå, 1954²
geminus Frey, 1915
litoreus Fallén, 1823
nebulosus Fallén, 1823
norvegicus Ringdahl, 1928
pectinatus Gerstäcker, 1864
 = *forcipatus* Frey, 1915
pilipes Frey, 1915
praecox (Lehmann, 1822)
rufibarbis Gerstäcker, 1864
 = *micans* Frey, 1915
signifer Coquillett, 1899
 = *kolaensis* Frey, 1915
 = *magnicornis* Frey, 1915
viridis (Meigen, 1824)

***Liancalus* Loew, 1857**

virens (Scopoli, 1763)

***Scellus* Loew, 1857**

spinimanus (Zetterstedt, 1843)

***Thinophilus* Wahlberg, 1844**

flavipalpis (Zetterstedt, 1843)
 = *neptunus* Frey, 1915³
ruficornis (Haliday, 1838)

² The type specimen is the only one known from Finland. Holotype, [M], Om: Pietarsaari, 10.IX.1953, R. Storå leg. (MZH)

³ The name was in error raised from synonymy by Negrobov (1991)

Subfamily MEDETERINAE Lioy, 1864***Chrysotimus* Loew, 1857****molliculus* (Fallén, 1823)***Dolichophorus* Lichward, 1902****kerteszi* Lichward, 1902***Medetera* Fischer von Waldheim, 1819**=*Oligochaetus* Mik, 1878*abstrusa* Thuneberg, 1955*acanthura* Negrobov & Thuneberg, 1970*adjaniae* Gossieries, 1989=*brevisetia* Parent, 1827 preocc. nec Thomson, 1869*ambigua* (Zetterstedt, 1843)*apicalis* (Zetterstedt, 1843)*betulae* Ringdahl, 1949*borealis* Thuneberg, 1955*cuspidata* Collin, 1941*dichrocera* Kowarz, 1877*excellens* Frey, 1909=*thunebergi* Negrobov, 1967*fasciata* Frey, 1915*freyi* Thuneberg, 1955*impigra* Collin, 1941*incrassata* Frey, 1909*infumata* Loew, 1857*inspissata* Collin, 1952*jacula* (Fallén, 1823)*jugalis* Collin, 1941*melancholica* Lundbeck, 1912**micacea* Loew, 1857*muralis* Meigen, 1824*nitida* (Macquart, 1834)*obscura* (Zetterstedt, 1838)*pallipes* (Zetterstedt, 1843)*parenti* Stackelberg, 1925=*collini* Thuneberg, 1955*pinicola* Kowarz, 1877=*nuortevai* Thuneberg, 1955*plumbella* Meigen, 1824*protuberans* Negrobov, 1967*pseudoapicalis* Thuneberg, 1955*senicula* Kowarz, 1877*setiventris* Thuneberg, 1955*signaticornis* Loew, 1857*striata* Parent, 1927*tristis* (Zetterstedt, 1838)*truncorum* Meigen, 1824*vagans* Becker, 1917=*fennica* Thuneberg, 1955*velles* Loew, 1861=*bilineata* Frey, 1915***Systemus* Loew, 1857***bipartitus* (Loew, 1850)*pallipes* (von Roser, 1840)=*adpropinquans* (Loew, 1857)**scholtzi* (Loew, 1850)***Thrypticus* Gerstaecker, 1864**=*Submedetera* Becker, 1917*atomus* Frey, 1915*bellus* Loew, 1869=*pruinus* Frey, 1957 (misid.) nec Parent, 1932*cuneatus* (Becker, 1917)*divisus* Strobl, 1880=*fennicus* Becker, 1917 syn. nov.⁴**intercedens* Negrobov, 1967=*pollinosus* Frey, 1957 (misid.) nec Verrall, 1912*laetus* Verrall, 1912**nigricauda* Wood, 1913⁵*pollinosus* Verrall, 1912*pruinus* Parent, 1932=*bellus* Frey, 1957 (misid.) nec Loew, 1869*smaragdinus* Gerstaecker, 1864***Xanthochlorus* Loew, 1857***ornatus* (Haliday, 1832)*tenellus* (Wiedemann, 1817)**Subfamily NEURIGONINAE Aldrich, 1905*****Neurigona* Rondani, 1856***abdominalis* (Fallén, 1823)*pallida* (Fallén, 1823)*quadrifasciata* (Fabricius, 1781)*suturalis* (Fallén, 1823)

⁴ Two male topotypes in addition to type material have been examined in the collection of MZH, having genitalia identical to Fig. 5 (Frey, 1957; *Thrypticus fennicus*) and Figs. 243–250 (Negrobov & Stackelberg, 1971; *Thrypticus divisus*).

⁵ One male of *Thrypticus nigricauda* has been found in MZH, misidentified as *Thrypticus bellus* by R. Frey (Karislojo / R. Frey / 353).

Subfamily RHAPHIINAE Bigot, 1852**Rhaphium Meigen, 1803**

- =*Porphyrops* auct. nec Meigen, 1824
- =*Xiphandrium* Loew, 1857
- **albifrons* (Zetterstedt, 1843)
- appendiculatum* (Zetterstedt, 1849)
- =*macrocerum* auct. nec Meigen, 1824
- **auctum* Loew, 1857
- basale* Loew, 1850
- caliginosum* Meigen, 1824
- =*zetterstedti* (Parent, 1925)
- commune* (Meigen, 1824)
- =*spinicoxa* Loew, 1850
- confine* Zetterstedt, 1843
- crassipes* (Meigen, 1824)
- discolor* Zetterstedt, 1838
- =*consobrinum* Zetterstedt, 1843
- =*riparium* auct. nec (Meigen, 1824)
- elegantulum* (Meigen, 1824)
- fasciatum* Meigen, 1824
- fascipes* (Meigen, 1824)
- glaciale* (Ringdahl, 1920)
- holmgreni* (Mik, 1878)
- =*luteipenne* (Frey, 1915)
- lanceolatum* Loew, 1850
- =*caliginosum* auct. nec Meigen, 1824
- laticorne* (Fallén, 1823)
- =*nemorum* Meigen, 1830
- longicorne* (Fallén, 1823)
- micans* (Meigen, 1824)
- monotrichum* Loew, 1850
- nasutum* (Fallén, 1823)
- nigribarbatum* (Becker, 1900)
- patulum* (Raddatz, 1873)
- =*antennatum* auct. (misid.) nec Carlier, 1835
- penicillatum* Loew, 1850
- riparium* (Meigen, 1824)
- =*praerosum* Loew, 1850
- rivale* (Loew, 1869)
- tridactylum* (Frey, 1915)
- umbripenne* (Frey, 1915)

Subfamily SCIAPODINAE Becker, 1917**Sciapus Zeller, 1842**

- albifrons* (Meigen, 1830)
- **basilicus* Meuffels & Grootaert, 1990
- =*contristans* auct. (misid.) nec Wiedemann, 1817
- lobipes* (Meigen, 1824)

- longulus* (Fallén, 1823)
- maritimus* Becker, 1918
- =*contristans* auct. (misid.) nec Wiedemann, 1817
- platypterus* (Fabricius, 1805)
- wiedemanni* (Fallén, 1823)
- **zonatulus* (Zetterstedt, 1843)
- =*contristans* auct. nec (Wiedemann, 1817)

Subfamily SYMPYCINAE Aldrich, 1905**Campsicnemus Haliday, 1851**

- =*Ectomus* Mik, 1878
- alpinus* (Haliday, 1833)
- armatus* (Zetterstedt, 1849)
- articulatus* (Zetterstedt, 1843)
- =*pilosellus* (Zetterstedt, 1843) preocc.
- =*dasycnemus* Loew, 1857
- compeditus* Loew, 1857
- curvipes* (Fallén, 1823)
- loripes* (Haliday, 1832)
- lumbatus* Loew, 1857
- marginatus* Loew, 1857
- paradoxus* (Wahlberg, 1844)
- picticornis* (Zetterstedt, 1843)
- pumilio* (Zetterstedt, 1843)
- =*pectinulatus* Loew, 1864
- pusillus* (Meigen, 1824)
- scambus* (Fallén, 1823)

Lamprochromus Mik, 1878

- **strobli* Parent, 1925

Sympycnus Loew, 1857

- aeneicoxa* (Meigen, 1824)
- pulicarius* (Fallén, 1823)
- =*annulipes* (Meigen, 1824)
- =*desoutteri* Parent, 1925

Syntormon Loew, 1857

- =*Bathycranium* Strobl, 1892
- **aulicus* (Meigen, 1824)
- bicolorellum* (Zetterstedt, 1843)
- denticulatus* (Zetterstedt, 1843)
- filiger* Verrall, 1912
- metathesis* (Loew, 1850)
- =*simplicipes* Frey, 1915
- pallipes* (Fabricius, 1794)
- pumilus* (Meigen, 1824)
- tarsatus* (Fallén, 1823)

Telmaturgus Mik, 1874**tumidulus* Raddatz, 1897**Teuchophorus Loew, 1857***nigricosta* (von Roser, 1840)= *signatus* (Zetterstedt, 1849)= *pectinifer* Kowarz, 1868*spinigerellus* (Zetterstedt, 1843)**Doubtful records:***Chrysotus ringdahli* Parent, 1929 (females only)*Dolichopus parvicaudatus* Zetterstedt, 1843⁶*Medetera feminina* Negrobov, 1967 (female only)*Rhaphium obscuripes* Zetterstedt, 1849 (females only)**Deletions:***Dolichopus cilifemoratus* Macquart, 1827 (mis identification)*Dolichopus grandicornis* Wahlberg, 1850 (mis identification)*Dolichopus propinquus* Zetterstedt, 1852 (mis identification)*Melanostolus melancholicus* (Loew, 1869) (mis identification)**Species lost by frontier adjustment in 1945:***Diaphorus halteralis* Loew, 1869*Dolichopus angustipennis* Kertész, 1901 (= *D. adustus* Frey, 1915)*Dolichopus consimilis* (Wahlberg, 1850)*Dolichopus costalis* Frey, 1915*Hydrophorus balticus* (Meigen, 1824)*Nematoproctus praeseclus* Loew, 1869*Peodes forcipatus* Loew, 1857*Peodes petsamoensis* Frey, 1930*Rhaphium suave* (Loew, 1859)**Acknowledgements**

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References

- Frey, R. 1915. Zur Kenntnis der Dipterenfauna Finnlands III Dolichopodidae. *Acta Soc. pro fauna et flora Fennica*, 40(5): 1–80.
- Frey, R. 1941. Diptera Brachycera (excl. Muscidae, Tachinidae). In: Frey, R., Storå, R. & Tiensuu, L. *Enumeratio Insectorum Fenniae VI: Diptera*, p. 1–31. Helsingin Hyönteis-vaihtoyhdistys, Helsinki.
- Frey R. 1957. Die europäischen *Trypticus* Arten (Diptera, Dolichopodidae). *Notulae Entomologicae*, 37: 1–11.
- Hackman, W. 1980. A check list of the Finnish Diptera I. Nematocera and Brachycera (s. str.). *Notulae Entomologicae*, 60: 17–48.
- Kahanpää, J. & Grichanov, I. (in litt.). New Dolichopodidae (Diptera) in the fauna of Finland.
- Negrobov, O. P. & Stackelberg, A. A. 1971. Dolichopodidae. In: E. Lindner, *Die Fliegen der Palearktischen Region*. Stuttgart, 29(224): 238–256.
- Negrobov, O. P. & Thuneberg, E. 1970. Some questions on the systematics of the genus *Medetera* (Dip., Dolichopodidae) of the Palearctic region. *Ann. Ent. Fenn.*, 36(3): 143–145.
- Storå, R. 1954. Eine neue *Hydrophorus*-Art aus Finnland (Dipt., Dolichopodidae). *Notulae Entomologicae*, 34: 70–74.
- Storå, R. 1955. Om förekomsten av släktet *Hydrophorus* Fall. (Dipt., Dolichopodidae) i mellersta Österbottens kusttrakter. *Notulae Entomologicae*, 35: 16–23.
- Thuneberg, E. 1955. A revision of the palearctic species of the genus *Medetera* Fischer (Diptera, Dolichopodidae). *Ann. Ent. Fenn.*, 21: 130–157.
- Viramo, J. 1998. Trips by Finnish entomologists to the Paanajärvi-Kutsa region prior to 1940. *Oulanka Reports*, 19: 11–18.

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⁶ Two males have been found in the collection of MZH, identified and reported by R. Frey (1915) as *Dolichopus parvicaudatus*. They belong apparently to *Dolichopus pectinarius* Stenhammar.