

A check list of Estonian Dolichopodidae (Diptera)

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A checklist of Estonian Dolichopodidae is presented including a total of 150 species, 10 of which are new Estonian records.

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Introduction

The Dolichopodidae fauna of the world is very large, with approximately 6500 described species and 200 genera. These mostly predatory flies are distributed throughout the world including the tropics and high-latitude islands and territories. In Estonia adults and larvae of almost all species of long-legged flies are predators inhabiting moist substrata. Small-sized species may be saprophages in the larval stage. Species of only one genus (*Thrypticus*) are known to be phytophages living inside stems of cereal grasses. Most of the numerous species of the cosmopolitan genus *Medetera* are associated with tree trunks, especially in boreal forests, where their larvae are predacious mainly on bark-beetles (Coleoptera).

Recently check lists of dolichopodid species have been compiled or revised for several European countries (e.g., Olejníček, 1997; Chandler, 1998; Bellstedt et al., 1999; Grichanov, 2002). The first data on Dolichopodidae of Estonia were given by F. Sintenis (1892). 140 species of the family have been recorded for the country up to date (Remm, 1959; Stackelberg,

1962; Elberg, 1963—1969; Negrobov, 1991; Öunap, 1992—2001). 10 more species are added in this paper after a short collection trip made by I. Grichanov to Tartu, Viljandi and Võru districts (June, 2002), but the real number may reach more than 200 species following a special expedition covering a wider geographical area of the country. For example, so far 323 species are known for Sweden, and about 230 for Leningrad Region of Russia.

Below is given a revised checklist of Estonian Dolichopodidae with new records. So far 150 species are known for Estonia. The expanded (but not complete) synonymy is given here because a number of synonyms have been used in the basic British, French, German and Russian manuals and keys to species of Dolichopodidae. Species marked with an asterisk (*) in the list below are recorded for Estonia for the first time. The material of all newly recorded species is deposited in author's collection and will be published separately. Subfamilies and genera within subfamilies are given in alphabetical order. Genera are not divided here into subgenera, although the author of this paper considers many of them as monophyletic taxa

of intrageneric rank. Bibliography includes mainly works published after the Catalogue of Palaearctic Diptera (Negrobov, 1991). Any correction and supplement to this list will be welcomed.

ACHALCINAE Grootaert & Meuffels, 1997

Achalcus Loew, 1857

- flavicollis* (Meigen, 1824) [*Porphyrops*]
 =*pallidus* (Zetterstedt, 1843) [*Rhaphium*]

DIAPHORINAE Schiner, 1864

Argyra Macquart, 1834

- argentina* (Meigen, 1824) [*Porphyrops*]
 =*geniculata* (Schummel, 1837) [*Porphyrops*]
diaphana (Fabricius, 1775) [*Musca*]
 =*ludea* (Harris, 1776) [*Musca*]
 =*pellucens* (Fallén, 1823) [*Dolichopus*]
 =*versicolor* (Meigen, 1824) [*Porphyrops*]
 =*hirtipes* (Curtis, 1835) [*Porphyrops*]
leucocephala (Meigen, 1824) [*Porphyrops*]
 =*pellucens* (Zetterstedt, 1838) [*Dolichopus*]
 (nec Fallén, 1823)
 =*diaphana* (Meigen, 1824) [*Porphyrops*] (nec Fabricius, 1775, nec Fabricius, 1805, nec Fallén, 1823)
 =*fulviventris* Macquart, 1827 [*Medeterus*]
 =*fulgens* (Haliday, 1832) [*Porphyrops*]
setimana Loew, 1859

Chrysotus Meigen, 1824

- cilipes* Meigen, 1824
 =*subfemoratus* Frey, 1939
 =*callidus* Parent, 1944

femoratus Zetterstedt, 1843

- =*licenti* Parent, 1944

laesus (Wiedemann, 1817) [*Dolichopus*]

- =*amplicornis* Zetterstedt, 1849
 =*enderleini* Parent, 1938

**neglectus* (Wiedemann, 1871) [*Dolichopus*]

- =*viridulus* (Fallén, 1823) [*Dolichopus*]
 =*copiosus* Meigen, 1824
 =*femoralis* Meigen, 1824
 =*taeniomerus* Meigen, 1830
 =*lundbladi* Frey, 1939

obscuripes Zetterstedt, 1838

- =*amplicornis* Kowarz, 1874, nec Zetterstedt, 1849
 =*kowarzi* Lundbeck, 1912

pulchellus Kowarz, 1874

**suavis* Loew, 1857

Diaphorus Meigen, 1824

exunguiculatus Parent, 1925

halteralis Loew, 1869

oculatus (Fallén, 1823) [*Dolichopus*]

- =*flavocinctus* Meigen, 1824
 =*tuberculatus* (Meigen, 1824) [*Dolichopus*]
 =*bimaculatus* Macquart, 1827
 =*hoffmannseggii* Macquart, 1834 [*Diaphora*]
 (nec Meigen, 1830)

**Melanostolus* Kowarz, 1884

- **melancholicus* (Loew, 1869) [*Diaphorus*]
 =*dorsalis* (Verrall, 1876) [*Diaphorus*]

DOLICHOPODINAE Latreille, 1809

Dolichopus Latreille, 1796

- agilis* Meigen, 1824
annulipes Zetterstedt, 1838
 =*stenhammari* Zetterstedt, 1843
arbustorum Stannius, 1831
 =*pallidicoxa* von Roser, 1840
atratus Meigen, 1824
austriacus Parent, 1927
bonsdorffi Frey, 1915
brevipennis Meigen, 1824
 =*plumitarsis*, var. β , Fallén, 1823
campestris Meigen, 1824
cilifemoratus Macquart, 1827
 =*macquarti* Parent, 1926 (nec Staeger, 1842)
 =*pseudocilifemoratus* Stackelberg, 1933
diadema Haliday, 1832
griseipennis Stannius, 1831
 =*nitidus* Macquart, 1827 (nec Fallén, 1823)
 =*subrutilus* Zetterstedt, 1859
 **gubernator* Mik, 1878
latilimbatus Macquart, 1827
 =*vulgaris* Stannius, 1831
latipennis Fallén, 1823
 **lepidus* Staeger, 1842
 =*tibialis* Zetterstedt, 1838
 =*dissimilipes* Zetterstedt, 1843
 =*geniculatus* Zetterstedt, 1843 (nec Stannius, 1831)
 =*picipes* Haliday, 1851 (nec Meigen, 1824)
linearis Meigen, 1824
 =*agilis* Zetterstedt, nec Meigen, 1824
 =*plebeius* Meigen, 1824

=*parvulus* Zetterstedt, 1843
lineatocornis Zetterstedt, 1843
 =*fallaciosus* Gerstaecker, 1864
longitarsis Stannius, 1831
 =*equestris* Haliday, 1832
 =*cinctus* Staeger, 1842
 =*staegeri* Zetterstedt, 1843
maculipennis Zetterstedt, 1843
migrans Zetterstedt, 1843
 =*confusus* Zetterstedt, 1843 nec 1838
 =*patellatus* Stannius, 1831 (nec Fallén, 1823,
 nec Meigen, 1824)
nigripes Fallén, 1823
 =*melanopus* Stannius, 1831 (nec Meigen,
 1824)
 =*falleni* Loew, 1857
nitidus Fallén, 1823
 =*ornatus* Meigen, 1824
 =*jucundus* Haliday, 1833
 =*azureus* Macquart, 1834
 =*coeruleicollis* Meigen, 1838
notatus Staeger, 1842
 =*notabilis* Zetterstedt, 1843
 =*puncticornis* Zetterstedt, 1843
nubilus Meigen, 1824
 =*pallipes* Macquart, 1827
 =*actaeus* Haliday, 1832
 =*inquinatus* Haliday, 1832
pennatus Meigen, 1824
 =*popularis* Fallén, 1823 (nec Wiedemann,
 1817)
 =*signatus* Staeger, 1842 (nec Meigen, 1824)
picipes Meigen, 1824
 =*cyaneus* Meigen, 1824
 =*fastuosus* Haliday, 1832
planitarsis Fallén, 1823
plumipes (Scopoli, 1763) [*Musca*]
 =*pennitarsis* Fallén, 1823
 =*planitarsis* Meigen, 1824 (nec Fallén, 1823)
plumitarsis Fallén, 1823
popularis Wiedemann, 1817
remipes Wahlberg, 1839
ruthei Loew, 1847
sabinus Haliday, 1838
 =*pictus* Staeger, 1842
signatus Meigen, 1824
 =*argentifer* Loew, 1859
simplex Meigen, 1824
 =*thalassinus* Haliday, 1832
 =*vicinus* Macquart, 1834

**subpennatus* d'Assis Fonseca, 1976
tanythrix Loew, 1869
ungulatus (Linnaeus, 1758) [*Musca*]
 =*aeneus* (de Geer, 1776) [*Nemotelus*, as
 "Nemotele"]
 =*bifurcatus* Macquart, 1827
 =*subungulatus* Stackelberg, 1933
virgultorum Haliday, 1851
 =*arbustorum* Zetterstedt, 1843 (nec Stannius,
 1831)
vitripennis Meigen, 1824
 =*tibiellus* Zetterstedt, 1843
 =*brachycerus* Zetterstedt, 1843
 =*braueri* Nowicki, 1867
wahlbergi Zetterstedt, 1843

Hercostomus Loew, 1857

aerosus (Fallén, 1823) [*Dolichopus*]
 =*rhaphioides* (Zetterstedt, 1838) [*Chrysotus*]
 =*dahlbomi* (Zetterstedt, 1843) [as variation
 of *Dolichopus aerosus* Fallén, 1823]
angustifrons (Staeger, 1842) [*Dolichopus*]
assimilis (Staeger, 1842) [*Dolichopus*]
celer (Meigen, 1824) [*Dolichopus*]
 =*sarus* (Haliday, 1832) [*Dolichopus*]
 **chrysozygos* (Wiedemann, 1817) [*Dolichopus*]
germanus (Wiedemann, 1817) [*Dolichopus*]
 =*chaerophylli* (Meigen, 1824) [*Dolichopus*]
metallicus (Stannius, 1831) [*Dolichopus*]
rusticus (Meigen, 1824) [*Dolichopus*]
 =*relictus* (Meigen 1824) [*Dolichopus*]
 =*pilicornis* (Stannius, 1831) [*Dolichopus*]
 =*laesus* (Meigen, 1838) [*Dolichopus*] (nec
 Fallén, 1823)
 =*obscuripes* (Meigen, 1838) [*Dolichopus*]

Tachytrechus Haliday, 1851

ammobates (Haliday, 1851) [*Dolichopus*]
 =*plumipes* (Fallén, 1823) [*Dolichopus*] (nec
 Scopoli, 1763)
 **hamatus* Loew, 1871

HYDROPHORINAE Lioy, 1864

Hydrophorus Fallén, 1823

balticus (Meigen, 1824) [*Medeterus*]
 =*chloropus* (von Roser, 1840) [*Medeterus*]
 **bipunctatus* (Lehmann, 1822) [*Dolichopus*]
 =*binotatus* Fallén, 1823
brunnicosus Loew, 1857

litoreus Fallén, 1823

- =*aquaticus* (Meigen, 1824) [*Medeterus*]
- =*conspersus* (Haliday, 1832) [*Medeterus*]
- =*chloropus* (Zetterstedt, 1843) [*Medeterus*]
(nec von Roser, 1840)

nebulosus Fallén, 1823

- =*conspersus* (Haliday, 1832) [*Medeterus*]

praecox (Lehmann, 1822) [*Dolichopus*]

- =*inaequalipes* (Macquart, 1834) [*Medeterus*]
- =*schoenherri* (Zetterstedt, 1843) [*Hydrochus*]
- =*cinereus* (Perris, 1847) [*Aphrozeta*] (nec Fabricius, 1805)

=vagus (Hutton, 1901) [*Liancalus*]**=breviventris** Becker, 1902**=monodi** Couturier, 1985**Thinophilus** Wahlberg, 1844**flavipalpis** (Zetterstedt, 1843) [*Rhaphium*]**ruficornis** (Haliday, 1838) [*Medeterus*]

- =*maculicornis* (Zetterstedt, 1843) [*Rhaphium*]

MEDETERINAE Lioy, 1864**Medetera** Fischer von Waldheim, 1819**abstrusa** Thuneberg, 1955

- =*apicalis* Collin, 1941 (nec Zetterstedt, 1843)

adjaniae Gosseries, 1989

- =*brevisetula* Parent, 1927 (nec Thomson, 1869)
- =*pinicola* Nuorteva, 1956 (nec Kowarz, 1877)

ambigua (Zetterstedt, 1843) [*Hydrophorus*]**apicalis** (Zetterstedt, 1843) [*Hydrophorus*]

- =*aurivittata* Wheeler, 1899
- =*caerulescens* Malloch, 1919
- =*frontalis* Van Duzee, 1919
- =*distincta* Van Duzee, 1919
- =*bicolor* Van Duzee, 1923 (nec Meigen, 1838)
- =*parva* Van Duzee, 1923
- =*ciliata* Van Duzee, 1928
- =*venata* Curran, 1928
- =*simplicipes* Curran, 1928
- =*orbiculata* Van Duzee, 1932
- =*albiciliata* Van Duzee, 1933
- =*arctica* Van Duzee, 1933

betulae Ringdahl, 1949**diadema** (Linnaeus, 1767) [*Musca*]

- =*rostrata* (Fabricius, 1775) [*Musca*]
- =*carnivora* Fischer von Waldheim, 1819
- =*aeneivittata* (Macquart, 1827) [*Hydrophorus*]
- =*princeps* Wheeler, 1899
- =*ehrenbergi* Becker, 1923

dichrocera Kowarz, 1877**excellens** Frey, 1909

- =*thunebergi* Negrobov, 1967

fasciata Frey, 1915**fumida** Negrobov, 1967**impigra** Collin, 1941**infumata** Loew, 1857

- =*muralis* (Zetterstedt, 1843) [*Hydrophorus*]
(nec Meigen, 1824)

incrassata Frey, 1909**inspissata** Collin, 1952

- =*incrassata* Collin, 1941 (nec Frey, 1909)

jacula (Fallén, 1823) [*Hydrophorus*]

- =*nigricans* Meigen, 1824
- =*truncorum* (Zetterstedt, 1838) [*Hydrophorus*]
(nec Meigen, 1824)
- =*meridionalis* Negrobov, 1967

jugalis Collin, 1941**melancholica** Lundbeck, 1912**micacea** Loew, 1857

- =*jacula* (Fallén, 1823, p.p.) [*Hydrophorus*]
- =*apicalis* var. b (Zetterstedt, 1843)
[*Hydrophorus*]

- =*acuta* Negrobov, 1966

muralis Meigen, 1824

- =*jacula* (Fallén, 1823, p.p.) [*Hydrophorus*]
- =*melanopleura* Loew, 1857
- =*tertia* Becker, 1917
- =*belgica* Parent, 1936
- =*peloria* Negrobov, 1967
- =*kowarzi* Negrobov, 1972
- =*miki* Negrobov, 1972

nitida (Macquart, 1834) [*Hydrophorus*]

- =*ambigua* Perris, 1870 (nec Zetterstedt, 1843)
- =*stackelbergi* Parent, 1927

obscura (Zetterstedt, 1838) [*Hydrophorus*]

- =*robusta* Loew, 1857
- =*robusta* Öunap, 1997 (nec Loew, 1857)

pallipes (Zetterstedt, 1843) [*Hydrophorus*]

- =*jacula* var. b (Zetterstedt, 1838)
[*Hydrophorus*]
- =*muralis* Loew, 1857 (nec Meigen, 1824, nec Zetterstedt, 1843)
- =*dendrophila* Bezzi, 1903

parenti Stackelberg, 1925

- =*collini* Thuneberg, 1955

pinicola Kowarz, 1877

- =*nuortevai* Thuneberg, 1955
- =*piceae* Öunap, 1997

plumbella Meigen, 1824

- =*jacula* (Fallén, 1823, p.p.) [*Hydrophorus*]
- =*minuta* von Roser, 1840 [*Medeterus*] (nec Fabricius, 1805)

=*minuta* (Zetterstedt, 1843) [*Hydrophorus*]
 (nec Fabricius, 1805)
 =*minutula* Negrobov, 1991 (*nomen nudum*)
prjachinae Negrobov, 1972
pseudoapicalis Thuneberg, 1955
senicula Kowarz, 1877
setiventris Thuneberg, 1955
 =*fasciata* Zinovjev, 1957 (nec Frey, 1915, nec
 Thuneberg, 1955)
signaticornis Loew, 1857
 =*subglaucia* Becker, 1917
 =*viridifacies* Van Duzee, 1923
 =*trisetosa* Van Duzee, 1925
 =*vanduzeei* Curran, 1928
striata Parent, 1927
 =*fasciata* Thuneberg, 1955 (nec Frey, 1915)
tenuicauda Loew, 1857
tristis (Zetterstedt, 1838) [*Hydrophorus*]
truncorum Meigen, 1824
 =*tenuicauda* Negrobov, 1972 (nec Loew, 1857)
zinovjevi Negrobov, 1967

Systemus Loew, 1857

bipartitus (Loew, 1850) [*Rhaphium*]
 **pallipes* (von Roser, 1840) [*Rhaphium*]
 =*adpropinquans* (Loew, 1857) [*Rhaphium*]
 =*pallidus* Vaillant, 1978

Xanthochlorus Loew, 1857

ornatus (Haliday, 1832) [*Porphyrops*]
 =*tenellus* (Fallén, 1823) [*Dolichopus*] (nec
 Wiedemann, 1817)
 =*ultramontanus* Becker, 1918
tenellus (Wiedemann, 1817) [*Dolichopus*]
 =*flavellus* (Zetterstedt, 1843) [*Dolichopus*]

NEURIGONINAE Aldrich, 1905

Neurigona Rondani, 1856

erichsoni (Zetterstedt, 1843) [*Dolichopus*]
pallida (Fallén, 1823) [*Dolichopus*]
 =*ochracea* (Meigen, 1824) [*Porphyrops*]
quadrifasciata (Fabricius, 1781) [*Musca*]
 =*quadrivittata* (Macquart, 1827) [*Porphyrops*]

RHAPHIINAE Bigot, 1852

Rhaphium Meigen, 1803

caliginosum Meigen, 1824
 =*zetterstedti* (Parent, 1925) [*Xiphandrium*]

elegantulum (Meigen, 1824) [*Porphyrops*]
 =*wilsoni* (Curtis, 1835) [*Porphyrops*]
fasciatum Meigen, 1824
fascipes (Meigen, 1824) [*Porphyrops*]
 =*insulsum* (Haliday, 1832) [*Perithinus*]
 =*latipes* (Macquart, 1827) [*Porphyrops*]
lanceolatum Loew, 1850
 =*caliginosum* Parent, 1925 (nec Meigen, 1824)
longicorne (Fallén, 1823) [*Hydrochus*]
 =*vitripenne* Meigen, 1824
 =*scutellatum* (Meigen, 1830) [*Porphyrops*]
 =*tibiale* Perris, 1852 (nec von Roser, 1840)
monotrichum Loew, 1850
 =*laticorne* var. b (Fallén, 1823) [*Hydrochus*]
 =*macrocerum* Zetterstedt, 1843 (nec Meigen,
 1824)
obscuripes Zetterstedt, 1849
 =*filatum* (Becker, 1918) [*Xiphandrium*]
patulum (Raddatz, 1873) [*Porphyrops*]
rivale (Loew, 1869) [*Porphyrops*]
 =*hartmannifallax* (Loew, 1869) [*Porphyrops*]
 =*fasciculatum* (Strobl, 1898) [*Porphyrops*]

SCIAPODINAE Becker, 1917

Sciapus Zeller, 1842

contristans (Wiedemann, 1817) [*Dolichopus*]
 =*flexus* (Loew, 1869) [*Psilopus*] (nec Loew,
 1858)
 =*vialis* (Raddatz, 1873) [*Psilopus*]
 =*zonatulus* (Zetterstedt, 1843) [*Psilopus*]
longulus (Fallén, 1823) [*Leptopus*]
 =*lugens* (Meigen, 1824) [*Psilopus*]
 =*obscurus* (Meigen, 1824) [*Psilopus*]
maritimus Becker, 1918
 =*contristans* (Zetterstedt, 1855) [*Psilopus*] (nec
 Wiedemann, 1817)
 =*flavomaculatus* Ringdahl, 1949
nervosus (Lehmann, 1822) [*Dolichopus*]
platypterus (Fabricius, 1805) [*Dolichopus*]
 =*tipularius* (Fallén, 1823) [*Leptopus*]
 =*crinipes* (Meigen, 1830) [*Psilopus*]

SYMPYCININAE Aldrich, 1905

Campsicnemus Haliday, 1851

articulatellus (Zetterstedt, 1843) [*Dolichopus*]
 =*pilosellus* (Zetterstedt, 1843) [*Dolichopus*]
 =*atomus* (Zetterstedt, 1849) [*Dolichopus*]
 =*dasycnemus* Loew, 1857
 =*perforatus* Raddatz, 1873

curvipes (Fallén, 1823) [*Dolichopus*]
 =*fuscipennis* (Macquart, 1839) [*Medeterus*]
 =*cilitibius* (von Roser, 1840) [*Dolichopus*]
loripes (Haliday, 1832) [*Medeterus* (*Camptosceles*)]
 =*femoralis* (Zetterstedt, 1843) [*Dolichopus*]
 =*armipes* (Zetterstedt, 1843) [*Medeterus*]

lumbatus Loew, 1857

**marginatus* Loew, 1857

picticornis (Zetterstedt, 1843) [*Dolichopus*]

=*varicornis* Loew, 1864

=*canzonarii* Rampini, 1975

pumilio (Zetterstedt, 1843) [*Dolichopus*]

pusillus (Meigen, 1824) [*Medeterus*]

=*platypus* Loew, 1857

scambus (Fallén, 1823) [*Dolichopus*]

=*prodromus* (Meigen, 1824) [*Medeterus*]

=*clavitibius* (von Roser, 1840) [*Dolichopus*]

Sympycnus Loew, 1857

aeneicoxa (Meigen, 1824) [*Porphyrops*]

=*brevicornis* (Zetterstedt, 1843) [*Dolichopus*]

=*nigritibialis* (Zetterstedt, 1855) [*Dolichopus*]

pulicarius (Fallén, 1823) [*Dolichopus*]

=*annulipes* (Meigen, 1824) [*Porphyrops*]

=*pygmaeus* (Macquart, 1827) [*Medeterus*]

=*cinerellus* (Zetterstedt, 1838) [*Chrysotus*]

=*desoutterii* Parent, 1925

Syntormon Loew, 1857

denticulatus (Zetterstedt, 1843) [*Rhaphium*]

=*aculeatus* (Zetterstedt, 1843) [*Rhaphium*]

=*biseriatus* (Loew, 1850) [*Rhaphium*]

=*pumilus* Parent, 1925 (nec Meigen, 1824)

freymuthae Loew, 1873

metathesis (Loew, 1850) [*Rhaphium*]

=*simplicipes* Frey, 1915

pallipes (Fabricius, 1794) [*Musca*]

=*hamatus* (Zetterstedt, 1843) [*Rhaphium*]

=*pseudospicatus* Strobl, 1899

=*immaculatus* Santos Abreu, 1929

pumilus (Meigen, 1824) [*Porphyrops*]

=*rufipes* (Meigen, 1824) [*Rhaphium*]

=*longiseta* (Zetterstedt, 1843) [*Rhaphium*]

=*pumilio* (Zetterstedt, 1859) [*Rhaphium*]

=*pusillus* (Zetterstedt, 1859) [*Rhaphium*]

=*tridens* (Becker, 1918) [*Xiphandrium*]

tarsatus (Fallén, 1823) [*Hydrochus*]

=*gratiosus* (Meigen, 1824) [*Dolichopus*]

=*palmipes* (Meigen, 1824) [*Porphyrops*]

=*vittatus* (Macquart, 1834) [*Porphyrops*]

=*obscurus* (Zetterstedt, 1838) [*Dolichopus*]

Teuchophorus Loew, 1857

nigricosta (von Roser, 1840) [*Chrysotus*]

=*signatus* (Zetterstedt, 1849) [*Chrysotus*]

=*pectinifer* Kowarz, 1868:218

spinigerellus (Zetterstedt, 1843) [*Dolichopus*]

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