

## Dolichopodidae (Diptera) in the fauna of Murmansk Region

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An annotated checklist of Murmansk Dolichopodidae is presented including a total of 87 species, 12 of which are new Murmansk records.

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### Introduction

The fauna of dolichopodid flies of the Murmansk Region is insufficiently studied. The first work with original data, where we could find records from the Region, is the review of the diptero-fauna of Finland (Frey, 1915). I have tried to separate R. Frey's Murmansk records from other ones, using the Microsoft Encarta World Atlas (2003) and A check list of species of the family Dolichopodidae (Diptera) of the World (Grichanov, 2003). As a result, a preliminary checklist of Murmansk Dolichopodidae has been compiled, including 48 species recorded by Richard Frey. Another big input to this fauna has been made by O.P. Negrobov (1974), who has added 20 species to the Region. Single species have been reported or described from the present territory of Murmansk Region (including Pechenga district) in other papers or reviews (Frey, 1930; Negrobov & Stackelberg, 1969; Negrobov & Thuneberg, 1970; Negrobov, 1971, 1975; Grichanov, 2002). The main collecting sites are located along Ponoj and Voronya rivers, in the former Petsamo (Pechenga) district, in environs of Murmansk and Kuoloyarvi, in Lapland and Kandalaksha Nature Reserves.

This paper contains original material for 12 species new to the fauna of Murmansk Region. So, the total number of Karelian species has reached 87, but the real number may reach 200 species following a special expedition covering a wider geographical area of the territory. For example, so far 334 species are known for Sweden, 237 for Finland, about 230 for the Leningrad Region of Russia and 122 for Russian Karelia.

### Material and methods

A big part of the work has been carried out in the Zoological Museum of Helsinki (ZMH). The "Diptera Fennica" part of the collection was created nearly 100 years ago as a depositary of the material collected from the whole territory of Eastern Fennoscandia including even the eastern parts of Karelia and Murmansk Region, as well as Karelian Isthmus.

The identification of each species previously reported from Murmansk Region by R. Frey has been checked by the author of this paper in September–November 2003. At the same time about 5000 unsorted specimens in the large Eastern Fennoscandia collection stored in the

ZMH have been identified by I. Grichanov from all parts of Finland, Karelia and Murmansk Region of Russia to species mainly.

This paper presents the new records in detail, and provides additional information in the form of notes on the global distribution for each species within an annotated checklist of Dolichopodidae (Diptera) of the Region given below. Some names used by Frey and Negrobov are homonyms or synonyms, and they have been replaced by new names according to Grichanov (2003). An asterisk (\*) indicates species new for the fauna of Murmansk Region. Arrangement of the list (including abbreviations and synonymy) corresponds to a World checklist of the family (Grichanov, 2003).

# ANNOTATED CHECKLIST OF DOLICHOPODIDAE (DIPTERA) OF MURMANSK REGION

## Genus *Argyra* Macquart, 1834

1. \**Argyra setimana* Loew, 1859: Progr. Realsch. Meseritz 1859: 20

*Material.* 1 ♂, Lapp., Petsamo, 7.VII.1929, Håkan Lindb. [ZMH].

*Distribution.* Europe (Austria, Romania, Czech and Slovak Republics, Estonia, Leningrad Region).

## Genus *Campsicnemus* Haliday, 1851

*Remark.* Two females of *Campsicnemus albilabris* (Zetterstedt, 1859) have been located in ZMH under this label written by Frey. They are indeterminable. Therefore I consider the record of Frey (1915) as doubtful.

2. *Campsicnemus alpinus* (Haliday, 1833) [*Medeterus* (*Camptosceles*)] (Haliday, 1851: in Walker, Stainton & Wilkinson, Ins. brit. 1, Dipt. 1: 190)

=*Medetera alpina* Haliday, 1833: Ent. Mag. (Lond.) 1: 163 [as *Medeterus* in subg. *Camptosceles*]

=*Camptosceles alpinus* (Haliday, 1833) [*Medeterus* (*Camptosceles*)].

=*Medetera pictipennis* Boheman, 1853 [F 1852, 1857]: K. Vetensk.-Akad. Handl.

(Stockholm) 1851: 193 [*Medeterus*] (Oldenberg, 1916: Ent. Mitt. (Berlin-Dahlem) 5: 198)

=*Campsicnemus pictipennis* (Boheman, 1853) [F 1852, 1857] [*Medeterus*] (Raddatz, 1873: Stettin. ent. Ztg. 34: 323).

*Distribution.* Central and Northern Europe. First record: Frey, 1915 (as *C. pictipennis*).

3. *Campsicnemus armatus* (Zetterstedt, 1849) [*Dolichopus*] (Haliday, 1851: in Walker, Stainton & Wilkinson, Ins. brit. 1, Dipt. 1: 190)

=*Dolichopus armatus* Zetterstedt, 1849: Dipt. Scand. 8: 3093

*Distribution.* Europe, Yakutia, Kamchatka, Mongolia. First record: Frey, 1915.

4. *Campsicnemus compeditus* Loew, 1857: Progr. Realsch. Meseritz 1857: 26

*Distribution.* Europe, Kirghizia, Buryatia, Yakutia, South Kamchatka. First record: Frey, 1915.

5. *Campsicnemus paradoxus* (Wahlberg, 1844) [*Dolichopus*]

=*Dolichopus paradoxus* Wahlberg, 1844: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 1: 109.

*Distribution.* Sweden, Yakutia, Mongolia. First record: Negrobov & Stackelberg, 1969.

6. *Campsicnemus scambus* (Fallén, 1823) [*Dolichopus*] (Haliday, 1851, in: Walker, Stainton & Wilkinson: Ins. brit. 1(1): 188)

=*Dolichopus scambus* Fallén, 1823: Dipt. Svec. 2 (Monogr. Dolichopod. Svec.): 19

*Distribution.* Europe, Yamal, Altai, Irkutsk Region, Khabarovsk and Primorskii Terr., South Kamchatka. First record: Frey, 1915.

## Genus *Chrysotus* Meigen, 1824

7. *Chrysotus arcticus* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 31

*Material.* Lectotype: 1 ♂, Ponoj / R. Frey / 5093 / Spec. typ. / Mus. Zool. H:fors, Spec. typ. No 4466, *Chrysotus arcticus* Frey / Lectotype, Grichanov des. 2003; paralectotypes (all females): same label with coll. Nos. 5095/4468; 5094/4467; 4882/4469; 2 ♀, Ponoj / R. Frey / 4883 [&] 4654 / Spec. typ. No / Mus. Zool. Helsinki, Loan No D 4599 [&] D 4598 / *Chrysotus arcticus* Frey, Negrobov det. 1980 [ZMH]. *Additional material.* 3 ♂, 8 ♀, Petsamo / R. Frey /

1599, 1600, 1603, 1604, 1607, 1616, 1623, 1754, 1766, 1954, 2120 [ZMH].

**Diagnosis.** (Male). Eyes nearly contiguous under antennae. Antennae black; scape short; postpedicel small, irregularly triangular; ratio of its length to height to stylus length, 1:1:4; stylus subapical, short pubescent. Proboscis brown, with dark hairs. Palpus well developed, white, with white setae. Postocular setae black in upper 1/3, white in lower 2/3. Mesonotum and scutellum metallic violet-black, weakly grey pollinose. Two rows of well developed acrostichals; 5 pairs of dorsocentrals. Thoracic pleurae and coxae covered with dense grey pollination. Proepisternum with 1 strong white seta and 1 white hair. Legs mostly dark except yellow knees, anterior four trochanters, tibiae and basitarsi; hind tibia and tarsus brown. Fore coxa with white setae. Hind femur bearing ventral row of black setae in apical half and 3 black subapical setae. Fore tibia with 1 thin posterodorsal at basal 1/3. Mid tibia with 2 long and strong anterodorsal and 2 moderate posterodorsal setae. Hind tibia with dense black anterodorsal cilia including 2 longer anterodorsal and 1 long dorsal setae. Hind tarsus with long dense black anterior hairs. Hind basitarsus somewhat longer than 2<sup>nd</sup> tarsomere. Wing transparent, with brown veins. Ratio of *m-cu* to distal part of *CuA*<sub>1</sub>, 1:3. Wing anal lobe well developed, convex. Posterior wing margin slightly concave at *An* and distinctly convex at mid distance between *An* and *CuA*<sub>1</sub>. Halteres yellow. Lower calypter light yellow, with whitish yellow cilia. Abdomen metallic blue, with black setae; first 3 tergites with white hairs, rest tergites with black hairs; 8<sup>th</sup> segment with long simple setae. Hypopygium (Fig.). Cercus black.

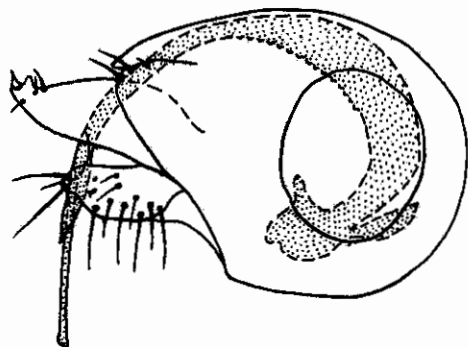


Fig. *Chrysotus arcticus* Frey, hypopygium, left lateral view (orig.).

**Distribution.** Murmansk Region and Sweden.

8. *Chrysotus gramineus* (Fallen, 1823) [*Dolichopus*] (Zetterstedt, 1843: Dipt. Scand. 2: 483) = *Dolichopus gramineus* Fallen, 1823: Monogr. Dolichop. Svec. [= Dipt. Svec. 2]: 19.

**Distribution.** Whole Europe, Kirghizia, Buryatia, Irkutsk Region, Krasnoyarsk Terr. First record: Negrobov, 1974.

9. *Chrysotus neglectus* (Wiedemann, 1817) [*Dolichopus*] (Meigen, 1824: Syst. Besch. 4: 41)

= *Dolichopus neglectus* Wiedemann, 1817: Zool. Mag. (Wied.) 1(1): 74.

**Distribution.** Whole Europe, N Kazakhstan, Kirghizia, Buryatia, Yakutia, Amur Region. First record: Frey, 1915.

10. *Chrysotus pulchellus* Kowarz, 1874: Verh. zool.-bot. Ges. Wien 24 (Abh.): 461

**Distribution.** Whole Europe, Kirghizia, Mongolia, China. First record: Negrobov, 1974.

11. \**Chrysotus ringdahli* Parent, 1929: Enc. ent., Ser.B, II, Dipt. 5: 5

= *Chrysotus ringdahli* Ringdahl (Parent in litt.), 1928: Ent. Tidskr. 49: 195 (nom.nud.).

**Material.** 1 ♂, 1 ♀, Fennia, Petsamo, Omhoaiivi, Erkki Kanervo / 3718 [&] 3720 [ZMH].

**Distribution.** Sweden.

### Genus *Diaphorus* Meigen, 1824

12. \**Diaphorus nigricans* Meigen, 1824: Syst. Besch. 4: 33

**Material.** 6 ♀, Ylaluostari / R. Frey / 4669, 4686, 4687, 4688, 4791 [ZMH].

**Distribution.** Whole Europe, Nearctic and Neotropical Regions.

### Genus *Dolichopus* Latreille, 1796

13. *Dolichopus annulipes* Zetterstedt, 1838: Ins. lappon.: 710

= *Dolichopus stenhammari* Zetterstedt, 1843: Dipt. Scand. 2: 521 (unnecessary nom. nov. for *Dolichopus annulipes* Zetterstedt, 1838, nec *Porphyrops annulipes* Meigen, 1824)

**Distribution.** Norway, Denmark, Sweden, Finland, Estonia, Karelia, Arkhangelsk Region, Buryatia, Yakutia, Magadan Region, Primorskii

Terr., Nearctic Region. First record: Frey, 1915 (as *D. stenhammari* Zett.).

14. *Dolichopus armillatus* Wahlberg, 1850: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 7: 217

*Distribution.* Finland, Sweden, Karelia, Magadan Region, N Ural. First record: Frey, 1915.

15. *Dolichopus brevipennis* Meigen, 1824: Syst. Besch. 4: 89

*Distribution.* Europe, N Kazakhstan, E Siberia, Alaska. First record: Frey, 1915.

16. \**Dolichopus cinctipes* Wahlberg, 1850: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 7: 222

*Material.* 1 ♂, Trifona / Hellén / 823; 6 ♂, Fennia, Petsamo, Salmijärvi, Erkki Kanervo [ZMH].

*Distribution.* Sweden, Turkey, N Ural, Buryatia, Amur and Magadan Regions, Khabarovsk and Primorskii Terr.

17. *Dolichopus clavipes* Haliday, 1832 [F 1831]: Zool.J. (Lond.) [1830–1831] 5: 365

*Distribution.* Europe, Buryatia, Irkutsk Region, Krasnoyarsk Terr., Yakutia, Uzbekistan, Mongolia, China. First record: Negrobov, 1974.

18. \**Dolichopus cruralis* Wahlberg, 1850: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 7: 219

*Material.* 1 ♂, Salmijärvi / R. Frey / 1490 / *Dolichopus cruralis*, 02.2003, J. Kahanpää det.; 3 ♂, 1 ♀, Trifona / Hellén [ZMH].

*Distribution.* Sweden, Finland, Leningrad Region, Karelia.

19. *Dolichopus discifer* Stannius, 1831: Isis (Oken) 1831: 57 // syn. of *Dolichopus nigricornis* Meigen, 1824 (Loew, 1869: Besch. eur. Dipt. 1; Becker, 1917: N. Acta Acad. leop., Halle 102: 148–149); rest. Collin, 1940: Ent. monthly Mag. 76 [= (4)1]: 263

=*Dolichopus nigricornis* Becker, 1917: N. Acta Acad. leop., Halle, 102: 148; Parent, 1925: Enc. ent., Ser.B, II, Dipt. 2: 55, 56, et auctt. (nec Meigen, 1824)

*Distribution.* Transpalearctic species; N America (Negrobov, 1991, as *Dolichopus nigricornis* Meigen, 1824). First record: Frey, 1915.

20. *Dolichopus discimanus* Wahlberg, 1851 [F 1850]: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 8: 301

*Distribution.* Sweden, Finland, Romania, N Ural, Primorskii Terr. First record: Frey, 1915.

21. *Dolichopus fraterculus* Zetterstedt, 1843: Dipt. Scand. 2: 510

*Distribution.* Sweden, Finland, Karelia, Magadan Region, the Urals, Kuril Is. First record: Frey, 1915.

22. *Dolichopus latipennis* Fallén, 1823: Dipt. Svec. 2 (Monogr. Dolichop. Svec.): 8 (in subg. *Hygroceleuthus*)

*Distribution.* Central and Northern Europe, Karelia, Buryatia, Yakutia, Mongolia, China. First record: Negrobov, 1974.

23. *Dolichopus lepidus* Staeger, 1842: Naturhist. Tidsskr. 4: 36

*Distribution.* Transpalearctic species. First record: Frey, 1915.

24. *Dolichopus longicornis* Stannius, 1831 [F 1838]: Isis (Oken) 1831: 53

*Material.* 12 ♂♀, Petsamo / R. Frey; 1 ♂, Pummanki / R. Frey; 7 ♂♀, Yläluostari [Luostari] / Håkan Lindb., R. Frey, M. Hellén [ZMH].

*Distribution.* Transpalearctic species. First record: Frey, 1915.

25. *Dolichopus maculipennis* Zetterstedt, 1843: Dipt. Scand. 2: 520

*Distribution.* Europe, Magadan Region, Kamchatka. First record: Frey, 1915.

26. *Dolichopus mannerheimi* Zetterstedt, 1838: Ins. lappon.: 707

*Distribution.* Sweden, Finland, Karelia, Irkutsk Region, Altai, Buryatia, Khabarovsk Terr., Magadan and Kamchatka Regions, Mongolia, Alaska. First record: Frey, 1915.

27. \**Dolichopus medicornis* Verrall, 1875: Ent. monthly Mag. 12: 32

*Material.* 1 ♂, Trifona / Hellén / 796 [ZMH].

*Distribution.* Great Britain, Sweden.

28. *Dolichopus pectinitarsis* Stenhammar, 1851: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 8: 130 // syn. of *Dolichopus plumipes* (Scopoli, 1763) (Ringdahl, 1949: Opusc. ent. 14: 53)

*Remark.* The name is possible synonym to *D. plumipes*. Nine males have been examined in the ZMH, collected in different parts of Finland and Murmansk Region. All the males having no brown stripe on mid tibia, having black-

ish at apex hind tibia and black hind basitarsus. They demonstrate gradual degradation of pennation on mid basitarsus (from distinctly flattened setae to practically simple but elongated ones) and hypopygium (having normal to very small size with reduced appendages to a various extent). Cerci vary from normal and mostly whitish to very small and brownish-yellow.

*Distribution.* Sweden, France, Denmark, Finland, N Ural, Yakutia. First record: Frey, 1915 (as *D. parvicaudatus* Zetterstedt, 1843).

29. *Dolichopus pennatus* Meigen, 1824: Syst. Besch. 4: 90

*Distribution.* Whole Europe, Georgia, Altai, Yakutia, Amur Region, Khabarovsk and Primorskii Terr., Kuril Is., Sakhalin, Mongolia. First record: Frey, 1915.

30. *Dolichopus picipes* Meigen, 1824: Syst. Besch. 4: 76

*Distribution.* Whole Europe, Altai. First record: Frey, 1915.

31. *Dolichopus plumipes* (Scopoli, 1763) [*Musca*]

=*Musca plumipes* Scopoli, 1763: Ent. carniol.: 334

*Distribution.* Palaearctic, Nearctic, Neotropical Regions. First record: Frey, 1915.

32. *Dolichopus ringdahli* Stackelberg, 1930 [F 1929]: Annu. Mus. zool. Acad. Sci. URSS 31: 160

*Distribution.* Yakutia, Irkutsk and Amur Regions, Khabarovsk and Primorskii Terr., Sakhalin. First record: Grichanov, 2002.

33. *Dolichopus rupestris* Haliday, 1833: Ent. Mag. (London) 1: 164

*Distribution.* Central and Northern Europe, Altai, Buryatia, Khabarovsk Terr., Kamchatka, Kuril Is., Bering Is. First record: Frey, 1915.

34. *Dolichopus signatus* Meigen, 1824: Syst. Besch. 4: 92

*Distribution.* Europe, Afghanistan. First record: Negrobov, 1974.

35. *Dolichopus simplex* Meigen, 1824: Syst. Besch. 4: 85

*Distribution.* Whole Europe, Georgia, Kazakhstan, Orenburg Region, Yakutia. First record: Negrobov, 1974.

36. *Dolichopus urbanus* Meigen, 1824: Syst. Besch. 4: 92

*Distribution.* Europe, South Ural, Buryatia. First record: Frey, 1915.

37. \**Dolichopus zetterstedti* Stenhammar, 1852 [F 1851]: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 8: 128

*Material.* 1 ♂, Kuoloj. [=Kuoloyarvi] / P. Suomalainen [ZMH].

*Distribution.* Sweden, Finland, NW Russia, West Siberia, Yakutia, N Kazakhstan.

## Genus *Hercostomus* Loew, 1857

38. *Hercostomus aerosus* (Fallén, 1823) [*Dolichopus*] (Becker, 1909: Wien. ent. Ztg. 28(9/10): 324 [*aërosus*])

=*Dolichopus aerosus* Fallén, 1823: Monogr. Dolich. Svec. (Dipt. Svec. 2): 15

*Distribution.* Whole Europe, Buryatia, Mongolia, Primorskii Terr., Taiwan. First record: Negrobov, 1974.

39. \**Hercostomus brevicornis* (Staeger, 1842) [*Dolichopus*] (Lundbeck, 1912: Dipt. danica 4: 187)

=*Dolichopus brevicornis* Staeger, 1842: Naturhist. Tidsskr. 4: 42

*Material.* 6 ♂, Kuoloj. [=Kuoloyarvi] / P. Suomalainen / 492, 494, 495, 726, 729, 765; 1 ♂, Kuolajärvi, Kurtti, Hellén / 4856 [ZMH].

*Distribution.* Europe.

40. *Hercostomus sahlbergi* (Zetterstedt, 1838) [*Dolichopus*]

=*Dolichopus sahlbergi* Zetterstedt, 1838: Ins. lappon.: 711

*Distribution.* Whole Europe. First record: Frey, 1915.

## Genus *Hydrophorus* Fallén, 1823

41. *Hydrophorus albiceps* Frey, 1915: Acta Soc. Faun. Flor. fenn. 40(5): 72

*Distribution.* Finland, Sweden, Great Britain, Denmark, The Netherlands, NW Russia, NW Siberia, Krasnoyarsk Terr., Mongolia. First record: Frey, 1915.

42. *Hydrophorus alpinus* Wahlberg, 1844: Öfvers. Vetensk.-Akad. Förhandl. (Stockholm) 1: 109

*Distribution.* Sweden, Finland, NW Russia, N Ural, NW Siberia, N Krasnoyarsk Terr., Yakutia, Chukotka. First record: Frey, 1915.

43. *Hydrophorus altivagus* Aldrich, 1911: Psyche 18: 67

=*Hydrophorus callosoma* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 65 (as a var. of *Hydrophorus wahlgreni* Frey, 1915)

=*Hydrophorus wahlgreni* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 63 (Hurley, 1985, in: Griffiths, Flies nearct. Reg. 6(6) nr.1: 24)

*Distribution.* Finland, Sweden, Karelia, Leningrad Region, Mordovia, Kamchatka, Nearctic Region. First record: Frey, 1915 (as *Hydrophorus wahlgreni* var. *callosoma*).

44. \**Hydrophorus borealis* Loew, 1857: Progr. Realsch. Meseritz 1857: 23 (nom. nov. for *Hydrophorus binotatus* Zetterstedt, 1849, nec Fallén, 1823)

*Material.* 1 ♂, Yläluostari [Luostari] / Håkan Lindb. [ZMH].

*Distribution.* Central and Northern Europe, Sverdlovsk Region, Buryatia.

45. *Hydrophorus geminus* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 67

*Distribution.* Finland, Sweden, Karelia, West Siberia, Kamchatka. First record: Frey, 1915.

46. *Hydrophorus litoreus* Fallén, 1823: Dipt. Svec. 2 (Monogr. Dolichopod. Svec.): 3

*Distribution.* Finland, Sweden, Karelia, West Siberia, Kamchatka. First record: Negrobov, 1974.

47. *Hydrophorus nebulosus* Fallén, 1823: Dipt. Svec. 2 (Monogr. Dolichopod. Svec.): 3

*Distribution.* Europe, Tyumen Region, Yakutia, Buryatia. First record: Frey, 1915.

48. *Hydrophorus norvegicus* Ringdahl, 1928: Ent. Tidskr. 49: 20

*Distribution.* Norway, Finland, Sweden. First record: Negrobov, 1975.

49. *Hydrophorus pilipes* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 69

*Distribution.* Finland, Sweden, Arkhangelsk Region. First record: Frey, 1915 (Type locality – Ponoj).

50. *Hydrophorus ponojensis* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 59

*Distribution.* Murmansk Region. First record: Frey, 1915 (Type locality – Ponoj-Fluss).

51. *Hydrophorus praecox* (Lehmann, 1822) [*Dolichopus*] (Haliday, 1851: in Walker, Stainton & Wilkinson, Ins. brit. 1: 186)

=*Dolichopus praecox* Lehmann, 1822: Index Schol. Hamburg. Gymn. acad. 1822/1823: 42

*Distribution.* Palaearctic, Afrotropical, Oriental Regions, Australia, Oceania, New Zealand. First record: Negrobov, 1974.

52. *Hydrophorus rufibarbis* Gerstäcker, 1864: Ent. Ztg. (Stettin) 25: 37

=*Hydrophorus micans* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 65

*Distribution.* Germany, Sweden, Finland, Leningrad and Arkhangelsk Region. First record: Frey, 1915 (as *H. micans* Frey).

53. *Hydrophorus signifer* Coquillett, 1899: Fur Seals and Fur-Seal Islands 4: 344

=*Hydrophorus magnicornis* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 70 (Negrobov, 1979: Proc. ent. Soc. Wash. 81(2): 329 [*signiferus*])

=*Hydrophorus kolaensis* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 71 (as a var. of *Hydrophorus magnicornis* Frey, 1915) (Becker, 1917: N. Acta Acad. leop., Halle, 102: 288 [*H. magnicornis* Frey, 1915])

*Distribution.* Central and Northern Europe, N Ural, Bering Is., Alaska. First record: Frey, 1915 (as *H. magnicornis* Frey and *H. magnicornis* var. *kolaensis* Frey).

## Genus *Medetera* Fischer von Waldheim, 1819

54. *Medetera acanthura* Negrobov & Thunberg, 1970: Ann. ent. fenn. 36(3): 143

*Distribution.* Finland, Sweden, Leningrad and Perm Regions. First record: Negrobov & Thunberg, 1970.

55. *Medetera apicalis* (Zetterstedt, 1843) [*Hydrophorus*] (Loew, 1857: Progr. Realsch. Meseritz 1857: 53)

=*Hydrophorus apicalis* Zetterstedt, 1843: Dipt. Scand. 2: 452 (excl. var. b)

*Distribution.* Europe, Novosibirsk Region, Primorskii Terr., Nearctic Region. First record: Frey, 1915.

56. *Medetera borealis* Thuneberg, 1955: Ann. ent. Fenn. 21(3): 135

*Distribution.* Northern and Eastern Europe, W Siberia, Primorskii Terr., Japan. First record: Negrobov, 1974.

57. *Medetera melancholica* Lundbeck, 1912: Dipt. dan. 4: 325 [*Medeterus*]

*Distribution.* Central and Northern Europe, W Siberia. First record: Negrobov, 1974.

58. *Medetera muralis* Meigen, 1824: Syst. Besch. 4: 62 [*Medeterus*]

=*Medetera belgica* Parent, 1936: Bull. Mus. Hist. nat. Belg. 12(20): 1 (Grichanov, 2002: Ent. Tidskr. 123(3):120)

*Distribution.* Whole Europe. First record: Negrobov, 1971 (as *M. belgica* Parent).

59. *Medetera obscura* (Zetterstedt, 1838) [*Hydrophorus*]

=*Hydrophorus obscurus* Zetterstedt, 1838: Ins. lappon.: 701

*Distribution.* Central and Northern Europe, West Siberia, Buryatia. First record: Negrobov, 1974.

60. *Medetera signaticornis* Loew, 1857: Progr. Realsch. Meseritz 1857: 51 [*Medeterus*]

*Distribution.* Europe, Novosibirsk Region, Tuva, Primorskii Terr., Mongolia, Japan. First record: Frey, 1915.

61. *Medetera striata* Parent, 1927: Ann. Soc. sci. Bruxelles, Ser.B, 47 (Mem.): 14 // syn. of *Medetera signaticornis* Loew, 1857 (Parent, 1932: Stettin. ent. Ztg. 93: 241; but Collin, 1941: Ent. monthly Mag. 77 [= ser.4, vol.2]: 146)

*Distribution.* Central and Northern Europe, West Siberia. First record: Negrobov, 1974.

62. *Medetera vagans* Becker, 1917: N. Acta Acad. leop., Halle, 102: 347

=*Medetera fennica* Thuneberg, 1955: Ann. ent. Fenn. 21(3): 137 (Negrobov & Thuneberg, 1970: Ann. ent. fenn. 36(3): 143)

*Distribution.* Sweden, Finland, NW Russia, Buryatia, Yakutia, Primorskii Terr. First record: Negrobov, 1974.

63. *Medetera veles* Loew, 1861: Progr. Realsch. Meseritz 1861: 73

=*Medetera bilineata* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 52 [as *Medeterus infumatus* Loew, 1857, var.]

*Distribution.* Sweden, Finland, NW and Central Russia, Kazakhstan, Yakutia, Primorskii Terr., Nearctic Region. First record: Frey, 1915 (as *M. infumata* var. *bilineata*).

# Genus *Peodes* Loew, 1857

64. *Peodes petsamoensis* Frey, 1930: Notul. ent. 10: 82

*Distribution.* Murmansk Region and Krasnoyarsk Terr. First record: Frey, 1930.

# Genus *Rhaphium* Meigen, 1803

65. *Rhaphium antennatum* (Carlier, 1835) [*Anglearia*] (Loew, 1850: Ent. Ztg. (Stettin) 11: 112)

=*Anglearia antennata* Carlier, 1835: Ann. Soc. ent. France 4: 659

*Distribution.* Europe. First record: Frey, 1915.

66. *Rhaphium commune* (Meigen, 1824) [*Porphyrops*] (Haliday, 1951: in Walker, Stainton & Wilkinson, Ins. brit. 1(1): 202)

=*Porphyrops communis* Meigen, 1824: Syst. Besch. 4: 52

=*Rhaphium spinicoxa* Loew, 1850: Ent. Ztg. (Stettin) 11: 101 (Haliday, 1851: in Walker, Stainton & Wilkinson, Ins. brit. 1: 202)

*Distribution.* Europe, Yakutia, Khabarovsk Terr., Kamchatka, N America. First record: Frey, 1915 (as *R. spinicoxa* Loew).

67. *Rhaphium confine* Zetterstedt, 1843: Dipt. Scand. 2: 467

*Distribution.* Northern Europe, N Ural, Baikal, Khabarovsk Terr., Kamchatka. First record: Frey, 1915.

68. *Rhaphium crassipes* (Meigen, 1824) [*Porphyrops*] (Zetterstedt, 1843: Dipt. Scand. 2: 466)

=*Porphyrops crassipes* Meigen, 1824: Syst. Besch. 4: 50

*Distribution.* Europe, Baikal, Kamchatka, Primorskii Terr., North America. First record: Frey, 1915.

69. \**Rhaphium dichromum* Negrobov, 1976: Zool. Zhurn. 55: 863

*Material.* 1♂, 35–51 / Fennia, Petsamo, Petsamon-tuaret, Erkki Kanervo / *Rhaphium dichromum* Negrobov, J. Kahanpää det. [ZMH].

*Distribution.* Buryatia.

70. *Rhaphium discolor* Zetterstedt, 1838: Ins. lappon. 1838: 704

=*Rhaphium consobrinum* Zetterstedt, 1843: Dipt. Scand. 2: 471

=*Rhaphium riparium* (Parent, 1925)

[*Porphyrops*] (nec Meigen, 1824)

*Distribution*. Europe, Kirghizia, Yakutia, Mongolia, N America. First record: Frey, 1915 (as *R. consobrinum* Zetterstedt).

71. *Rhaphium elegantulum* (Meigen, 1824) [*Porphyrops*] (Zetterstedt, 1838: Ins. lappon. 1838: 703)

=*Porphyrops elegantula* Meigen, 1824: Syst. Besch. 4: 51

*Distribution*. Europe, Igarka, Baikal, Kamchatka, Alaska. First record: Frey, 1915.

72. \**Rhaphium glaciale* (Ringdahl, 1920) [*Porphyrops*] (Negrobov, in: Lindner, 1979: Flieg. palaearkt. Reg. 4(5): 502)

=*Porphyrops glacialis* Ringdahl, 1920: Ent. Tidskr. 41: 25

*Material*. 1 ♂, Fennia, Lps, Lutto, Platonoff / 605; 1 ♂, Fennia, Petsamo, Vaitolahti / Linnaniemi / 3108; 10 ♂ ♀, Ponoj / R. Frey; 1 ♂, Ponoj / Hellén / 818 [ZMH].

*Distribution*. Sweden, Krasnoyarsk Terr., Yakutia, Baikal, Magadan Region, N America.

73. *Rhaphium lanceolatum* Loew, 1850: Ent. Ztg. (Stettin) 11: 131 // syn. of *Rhaphium caliginosum* Meigen, 1824 (Parent, 1925: Enc. ent., Ser. B, II, Dipt. 2: 42; refuted by Collin, 1940: Ent. monthly Mag. 76 (= ser. 4, vol. 1): 266–267)

*Distribution*. Europe, Baikal, Primorskii Terr., Syria, N Africa. First record: Frey, 1915.

74. *Rhaphium laticorne* (Fallén, 1823) [*Hydrochus*]

=*Hydrochus laticornis* Fallén, 1823: Dipt.

Svec. 2 (Monogr. Dolichop. Svec.): 6

*Distribution*. Whole Europe, Middle Asia, Altai. First record: Negrobov, 1974.

75. *Rhaphium longicorne* (Fallén, 1823) [*Hydrochus*] (Meigen, 1824: Syst. Besch. 4: 28)

=*Hydrochus longicornis* Fallén, 1823: Dipt.

Svec. 2 (Monogr. Dolichopod. Svec.): 5

*Distribution*. Europe. First record: Frey, 1915.

76. *Rhaphium monotrichum* Loew, 1850: Ent. Ztg. (Stettin) 11: 132 (nom. nov. for *Rhaphium macrocerum* Zetterstedt, 1843, nec Meigen, 1824)

*Distribution*. Europe, Igarka, Baikal. First record: Frey, 1915.

77. *Rhaphium nigribarbatum* (Becker, 1900) [*Porphyrops*] (Negrobov, 1979: in Lindner, Flieg. palaearkt. Reg. 4(5): 514)

=*Porphyrops nigribarbata* Becker, 1900: Acta Soc. Sci. fenn. 26(9): 35

*Distribution*. Sweden, Finland, NW and Central Russia, Igarka, Altai, N America. First record: Frey, 1915.

78. \**Rhaphium patulum* (Raddatz, 1873) [*Porphyrops*] (Negrobov, 1979: in Lindner, Flieg. palaearkt. Reg. 4(5): 517)

=*Porphyrops patula* Raddatz, 1873: Stettin. ent. Ztg. 34: 329

*Material*. 6 ♂, 2 ♀, Kantalaks / Hellén [ZMH].

*Distribution*. Central and Northern Europe, Baikal.

79. *Rhaphium tridactylum* (Frey, 1915) [*Porphyrops*] (Negrobov, 1979: in Lindner, Flieg. palaearkt. Reg. 4(5): 527)

=*Porphyrops tridactyla* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 37

*Distribution*. Finland, Sweden, Khabarovsk Terr., Mongolia. First record: Negrobov, 1974.

80. *Rhaphium umbripenne* (Frey, 1915) [*Xiphandrium*] (Negrobov, 1979: in Lindner, Flieg. palaearkt. Reg. 4(5): 530)

=*Xiphandrium umbripenne* Frey, 1915: Acta Soc. Fauna Flora fenn. 40(5): 44

*Distribution*. Sweden, Finland, Leningrad Region, Kamchatka. First record: Frey, 1915.

## Genus *Scellus* Loew, 1857

81. *Scellus spinimanus* (Zetterstedt, 1843) [*Hydrophorus*] (Loew, 1857: Progr. Realsch. Meseritz 1857: 22)

=*Hydrophorus spinimanus* Zetterstedt, 1843: Dipt. Scand. 2: 445

*Distribution*. Central and Northern Europe, Crimea, N Ural, NE Siberia, Mongolia, N America. First record: Frey, 1915.

## Genus *Sympycnus* Loew, 1857

82. *Sympycnus pulicarius* (Fallén, 1823) [*Dolichopus*]



=*Dolichopus pulicarius* Fallén, 1823: Dipt. Svec. 2 (Monogr. Dolichopod. Svec.): 20

=*Sympycnus annulipes* (Meigen, 1824)

[*Porphyrops*] (Loew, 1857: Progr. Realsch. Meseritz 1857: 42)

=*Porphyrops annulipes* Meigen, 1824: Syst. Besch. 4: 56

*Distribution*. Whole Europe. First record: Negrobov, 1974.

#### Genus *Syntormon* Loew, 1857

83. *Syntormon pallipes* (Fabricius, 1794)

[*Musca*] (Schiner, 1862: Faun. austr. 1: 192)

=*Musca pallipes* Fabricius, 1794: Ent. syst. 4: 340

*Distribution*. Whole Europe, Anterior, Middle and Central Asia, North and Tropical Africa. First record: Frey, 1915.

84. *Syntormon pumilus* (Meigen, 1824) [*Porphyrops*] (Loew, 1857: Progr. Realsch. Meseritz 1857: 34–35)

=*Porphyrops pumila* Meigen, 1824: Syst. Besch. 4: 53

=*Syntormon rufipes* (Meigen, 1824)

[*Rhaphium*]

=*Rhaphium rufipes* Meigen, 1824: Syst. Besch. 4: 30 // spec. incerta (Becker, 1918: N. Acta Acad. leop., Halle, 103: 277–278) (Parent, 1925: Enc. ent., Ser.B, II, Dipt. 2: 42)

*Distribution*. Europe to the Urals, Middle Asia. First record: Frey, 1915.

#### Genus *Thinophilus* Wahlberg, 1844

85. *Thinophilus ruficornis* (Haliday, 1838)

[*Medeterus*] (Haliday, 1851, in: Walker, Stainton & Wilkinson, Dipt. brit. 1(1): 192)

=*Medetera ruficornis* Haliday, 1838: Ann. nat. Hist. 2(9): 184 [*Medeterus*]

*Distribution*. Whole Europe, N Kazakhstan, Kirghizia, W Siberia, Mongolia, China. First record: Negrobov, 1974.

#### Genus *Teuchophorus* Loew, 1857

86. *Teuchophorus monacanthus* Loew, 1859: Progr. Realsch. Meseritz 1859: 21

*Distribution*. Whole Europe. First record: Negrobov, 1974.

#### Genus *Xanthochlorus* Loew, 1857

87. *Xanthochlorus tenellus* (Wiedemann, 1817) [*Dolichopus*] (Loew, 1857: Progr. Realsch. Meseritz 1857: 42)

=*Dolichopus tenellus* Wiedemann, 1817:

Zool. Mag. (Wied.) 1(1): 73

*Distribution*. Whole Europe. First record: Negrobov, 1974.

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