

Notes on Dolichopodidae (Diptera) of the Karelian Republic of the Russian Federation

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A preliminary checklist of Karelian Dolichopodidae is presented including a total of 53 species, 3 of which are new Karelian records.

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Introduction

The fauna of dolichopodid flies of Karelian Republic has never been generalised. Nobody of Russian researchers has paid attention to this territory. The only work with original data where we could find records from Karelia is the review of the dipterofauna of Finland (Frey, 1915). At that time the Karelian areas ceded to Russia by Sweden yet before 1809 were returned to Finland as a grand duchy of the Russian Empire. Another part of Karelia (including Petrozavodsk) belonged to the Olonets Province of Russia. During the Russian Revolution (1917) and the civil war that followed (1918–1921), and during the Russo-Finnish War of 1939–1940 and the World War II, Finns and Russians fought over Karelia. The Soviet Republic (initially named Karelian Laborers' Commune) was established in the region in early 1920s, but the line of its border changed many times between the two wars and after the World War II. For example, Kandalaksha district of Karelia was handed under Murmansk administration during the piece time. Frey (1915) mentioned in his work many other populated places located pres-

ently in Murmansk and Leningrad Regions of Russian Federation. Most of them was renamed later. I have tried to separate Karelian records from other ones, using the Microsoft Encarta World Atlas (2003). Only a few geographical names are absent in the Atlas or have doubtful meaning. As a result, I have compiled a preliminary checklist of Karelian Dolichopodidae including 50 species recorded by Richard Frey. Some Frey's species records were later repeated in the Russian literature. But it is worth to note that The Catalogue of the Fauna of Dolichopodidae of the USSR (Grichanov & Negrobov, 1979) contains only small part of the Karelian records, while it includes also erroneous Karelian records for species known from the Karelian Isthmus (now the territory of the Leningrad Region).

After a short collection trip made by me to Karelia (June, 2003), 6 species have been found, 3 of which are new for Karelia. A female of *Medetera infumata* Loew, 1857 was taken on wooden pavilion at 22.VI.2003 in environs of Petrozavodsk. *Hercostomus aerosus* (Fallen, 1823), *H. angustifrons* (Staeger, 1842), *H. celer* (Meigen, 1824), *H. metallicus* (Stannius, 1831)

and *Rhaphium micans* (Meigen, 1824) were collected at 24.VI.2003 on Kizhi Island along Onega Lake shore. That means that the fauna of the Republic has reached to 53 species. But the real number may reach more than 150 species following a special expedition covering a wider geographical area of the country. For example, so far 334 species are known for Sweden, about 260 for Finland and about 230 for the Leningrad Region of Russia.

Below is given a preliminary checklist of Karelian Dolichopodidae with new records. Some names used by Frey are homonyms or synonyms, and they have been replaced by new names according to Grichanov (2003). In addition the work has been stimulated by databasing European Dolichopodidae in the frame of Fauna Europaea Project (Pollet, Pape, 2002). The material of newly recorded species is deposited in the author's collection. An asterisk (*) indicates species new for the fauna of Karelia. Arrangement of the list corresponds to a World checklist of the family (Grichanov, 2003).

A preliminary check list of Dolichopodidae (Diptera) of Karelia

1. *Argyra diaphana* (Fabricius, 1775) [*Musca*] (Macquart, 1834: *Hist. nat. Dipt.*, 1: 456)
=*Musca diaphana* Fabricius, 1775: *Syst. Ent.* 1775: 783.
2. *Argyra auricollis* (Meigen, 1824) [*Porphyrops*] (Meigen, 1838: *Syst. Besch.*, 7: 154).
=*Porphyrops auricollis* Meigen, 1824: *Syst. Besch.*, 4: 47.
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.
4. *Campsicnemus compeditus* Loew, 1857: *Progr. Realsch. Meseritz*, 1857: 26.
5. *Campsicnemus curvipes* (Fallen, 1823) [*Dolichopus*] (Haliday, 1851: in Walker, Stainton & Wilkinson, *Ins. brit.*, 1(1): 189).
=*Dolichopus curvipes* Fallen, 1823: *Monogr. Dolich. Svec.* [= *Dipt. Svec.* 2]: 20.
6. *Campsicnemus scambus* (Fallen, 1823) [*Dolichopus*] (Haliday, 1851, in: Walker, Stainton & Wilkinson: *Ins. brit.*, 1(1): 188).
=*Dolichopus scambus* Fallen, 1823: *Dipt. Svec.* 2 (Monogr. Dolichopod. Svec.): 19.
7. *Dolichopus angustipennis* Kertész, 1901: 3. *Asiat. Forsch.-Reise Zichy*, 2: 195.
8. *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).
9. *Dolichopus brevipennis* Meigen, 1824: *Syst. Besch.*, 4: 89.
10. *Dolichopus costalis* Frey, 1915: *Acta Soc. Fauna Flora fenn.*, 40(5): 20.
11. *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.
12. *Dolichopus lepidus* Staeger, 1842: *Naturhist. Tidsskr.*, 4: 36.
13. *Dolichopus longicornis* Stannius, 1831 [F 1838]: *Isis* (Oken), 1831: 53.
14. *Dolichopus longitarsis* Stannius, 1831: *Isis* (Oken), 1831: 124.
15. *Dolichopus migrans* Zetterstedt, 1843: *Dipt. Scand.*, 2: 512.
16. *Dolichopus nitidus* Fallen, 1823: *Dipt. Svec.*, 2 (Monogr. Dolichopod. Svec.): 12.
17. *Dolichopus picipes* Meigen, 1824: *Syst. Besch.*, 4: 76.
18. *Dolichopus planitarsis* Fallen, 1823: *Dipt. Svec.*, 2 (Monogr. Dolichopod. Svec.): 12.
19. *Dolichopus plumipes* (Scopoli, 1763) [*Musca*].
=*Musca plumipes* Scopoli, 1763: *Ent. carniol.*: 334.
20. *Dolichopus popularis* Wiedemann, 1817: *Zool. Mag.* (Wied.), 1(1): 70.
21. *Dolichopus remipes* Wahlberg, 1839 [F 1838]: *K. Vetensk.-Acad. Handl.* (Stockholm), 1838: 13.
22. *Dolichopus simplex* Meigen, 1824: *Syst. Besch.*, 4: 85.

23. *Dolichopus trivialis* Haliday, 1832 [F 1831]: *Zool. J.* (London), [1830-1831] 5: 363.
= *Dolichopus cilifemoratus* Parent, 1926: *Ann. Soc. sci. Bruxelles*, 46 (C.r.): 207 (and also auctt. after Parent, nec Mac quart, 1827; nec Stannius, 1831; nec Staeger, 1842).
24. *Dolichopus unguatus* (Linnaeus, 1758) [*Musca*] (Schränk, 1803: *Fauna boica*, 3, Abth. 1: 123).
= *Musca unguata* Linnaeus, 1758: *Syst. Nat.*, (Ed.10) 1: 598.
25. *Dolichopus zetterstedti* Stenhammar, 1852 [F 1851]: *Öfvers. Vetensk.-Akad. Föhandl.* (Stockholm), 8: 128.
26. *Hercostomus aerosus* (Fallen, 1823) [*Dolichopus*] (Becker, 1909: *Wien. ent. Ztg.*, 28(9/10): 324 [*aërosus*]).
= *Dolichopus aerosus* Fallen, 1823: *Monogr. Dolich. Svec. (Dipt. Svec.)*, 2: 15.
27. *Hercostomus angustifrons* (Staeger, 1842) [*Dolichopus*] (Lundbeck, 1912: *Dipt. danica*, 4: 184).
= *Dolichopus angustifrons* Staeger, 1842: *Naturhist. Tidsskr.*, 4: 44.
28. *Hercostomus brevicornis* (Staeger, 1842) [*Dolichopus*] (Lundbeck, 1912: *Dipt. danica*, 4: 187).
= *Dolichopus brevicornis* Staeger, 1842: *Naturhist. Tidsskr.*, 4: 42.
29. **Hercostomus celer* (Meigen, 1824) [*Dolichopus*] (Lundbeck, 1912: *Dipt. danica*, 4: 185).
= *Dolichopus celer* Meigen, 1824: *Syst. Besch.*, 4: 84.
30. **Hercostomus metallicus* (Stannius, 1831) [*Dolichopus*].
= *Dolichopus metallicus* Stannius, 1831: *Isis (Oken)*, 1831: 262.
31. *Hercostomus sahlbergi* (Zetterstedt, 1838) [*Dolichopus*].
= *Dolichopus sahlbergi* Zetterstedt, 1838: *Ins. lappon.*: 711.
32. *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).
33. *Hydrophorus bipunctatus* (Lehmann, 1822) [*Dolichopus*] (Zetterstedt, 1838: *Ins. lappon.*, 1838: 700).
= *Dolichopus bipunctatus* Lehmann, 1822: *Index Schol. Hamburg. Gymn. acad.*, 1822/1823: 41.
34. *Hydrophorus borealis* Loew, 1857: *Progr. Realsch. Meseritz*, 1857: 23 (nom. nov. for *Hydrophorus binotatus* Zetterstedt, 1849, nec Fallen, 1823).
35. *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.
36. *Medetera apicalis* (Zetterstedt, 1843) [*Hydrophorus*] (Loew, 1857: *Progr. Realsch. Meseritz*, 1857: 53).
= *Hydrophorus apicalis* Zetterstedt, 1843: *Dipt. Scand.*, 2: 452 (excl. var. b).
37. *Medetera excellens* Frey, 1909: *Acta Soc. Fauna Flora fenn.*, 31(9) [1908-1909]: 14 [*Medeterus*].
38. *Medetera infumata* Loew, 1857: *Progr. Realsch. Meseritz*, 1857: 52 [*Medeterus*].
= *Medetera bilineata* Frey, 1915: *Acta Soc. Fauna Flora fenn.*, 40(5): 52 [as *Medeterus infumatus* Loew, 1857, var.]
39. *Medetera jacula* (Fallen, 1823) [*Hydrophorus*] (Meigen, 1824: *Syst. Besch.*, 4: 66 [*Medeterus*]).
= *Hydrophorus jaculus* Fallen, 1823: *Dipt. Svec.*, 2 (= *Monogr. Dolichop. Svec.*): 5.
40. *Medetera obscura* (Zetterstedt, 1838) [*Hydrophorus*].
= *Hydrophorus obscurus* Zetterstedt, 1838: *Ins. lappon.*: 701.
41. *Medetera tristis* (Zetterstedt, 1838) [*Hydrophorus*].
= *Hydrophorus tristis* Zetterstedt, 1838: *Ins. lappon.*: 702.
42. *Neurigona quadrifasciata* (Fabricius, 1781) [*Musca*] (Rondani, 1856: *Dipterol. ital. Prodr.*, 1: 142).
= *Musca quadrifasciata* Fabricius, 1781: *Spec. Ins.* 2: 448.
43. *Rhaphium antennatum* (Carlier, 1835) [*Anglearia*] (Loew, 1850: *Ent. Ztg. (Stettin)*, 11: 112).

- =*Anglearia antennata* Carlier, 1835: *Ann. Soc. ent. France*, 4: 659.
44. *Rhaphium crassipes* (Meigen, 1824) [*Porphyrops*] (Zetterstedt, 1843: *Dipt. Scand.*, 2: 466).
= *Porphyrops crassipes* Meigen, 1824: *Syst. Besch.*, 4: 50.
45. *Rhaphium elegantulum* (Meigen, 1824) [*Porphyrops*] (Zetterstedt, 1838: *Ins. lappon.*, 1838: 703).
= *Porphyrops elegantula* Meigen, 1824: *Syst. Besch.*, 4: 51.
46. *Rhaphium fascipes* (Meigen, 1824) [*Porphyrops*] (Zetterstedt, 1838: *Ins. lappon.*, 1838: 704).
= *Porphyrops fascipes* Meigen, 1824: *Syst. Besch.*, 4: 54.
47. *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).
48. *Rhaphium longicorne* (Fallen, 1823) [*Hydrochus*] (Meigen, 1824: *Syst. Besch.*, 4: 28).
= *Hydrochus longicornis* Fallen, 1823: *Dipt. Svec.*, 2 (Monogr. *Dolichopod. Svec.*): 5.
49. **Rhaphium micans* (Meigen, 1824) [*Porphyrops*] (Loew, 1850: *Ent. Ztg.* (Stettin), 11: 112).
= *Porphyrops micans* Meigen, 1824: *Syst. Besch.*, 4: 51.
50. *Rhaphium monotrichum* Loew, 1850: *Ent. Ztg.* (Stettin), 11: 132 (nom. nov. for *Rhaphium macrocerum* Zetterstedt, 1843, nec Meigen, 1824).
51. *Syntormon pumilus* (Meigen, 1824) [*Porphyrops*] (Loew, 1857: *Progr. Realsch. Meseritz*, 1857: 34–35).
= *Porphyrops pumila* Meigen, 1824: *Syst. Besch.*, 4: 53.
52. *Syntormon tarsatus* (Fallen, 1823) (Kowarz, 1884: *Wien. ent. Ztg.*, 3: 109) [*Hydrochus*].
= *Hydrochus tarsatus* Fallen, 1823: *Dipt. Svec.*, 2 (Monogr. *Dolichopod. Svec.*): 7.
53. *Tachytrechus ammobates* (Haliday, 1851) [*Dolichopus*] (Loew, 1857: *Progr. Realsch. Meseritz*, 1857: 14).
= *Dolichopus ammobates* Haliday, 1851: in Walker, Stainton & Wilkinson, *Ins. brit.* 1, Dipt. 1: 173.

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= *Porphyrops elegantula* Meigen, 1824: *Syst. Besch.*, 4: 51.
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= *Hydrochus tarsatus* Fallen, 1823: *Dipt. Svec.*, 2 (Monogr. Dolichopod. Svec.): 7.
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