

# A check list of Dolichopodidae (Diptera) of Yakutia

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A checklist of Yakutian Dolichopodidae is presented including a total of 76 species, 11 of which are new Yakutian records.

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## Introduction

The fauna of Dolichopodid flies of Yakutia-Sakha Republic has never been generalised. However, a number of species was recorded or described as new for science from this territory.

The Catalogue of the Fauna of Dolichopodidae of the USSR presented annotated list of species with region by region records, containing 45 species for Yakutia (Grichanov & Negrobov, 1979). Negrobov (Negrobov et al., 2000) gave a check list of the family for Japan and 10 regions of the Russian Far East, mentioning 57 species for Yakutia. Recently the author of this paper has received a new material collected mainly by A. K. Bagachanova (the Institute of Biological Problems of Cryolithozone, Siberian Branch of the Russian Academy of Sciences, Yakutsk) in a small area of Lena-Amga watershed alas ecosystems at about 50 km ENE of Yakutsk during the last 10 years.

The alas ecosystems are located in permafrost zone of the Central Yakutia having underground ice complex (Bagachanova, 2002). They represent thermokarst depressions occupied by meadow and steppe vegetation. Alas ecosystems

are characterised by arid conditions. However, they have a lower belt of moistening with domination of hygrophilous plants (e.g., *Eleocharis palustris* and *Tephrosia palustris*). Median belt of moistening is occupied by cereal grasses (mainly *Puccinellia tenuiflora*), *Knorringia sibirica* and *Glaux maritime*. The Dolichopodidae as a whole are mostly predatory flies distributed throughout the world including the tropics and high-latitude islands and territories. In Yakutia adults and larvae of species of long-legged flies are predators inhabiting moist substrata in general. Species of only one genus (*Thrypticus*) are known to be phytophages living inside stems of hygrophilous 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).

As a result, about 25 species have been found in the collection, 11 of which are new for Yakutia. That means that the fauna of the Republic has reached to 76 species. But the real number may reach more than 150 species following a special expedition covering a wider geographical area of the country.

Below is given a revised checklist of Yakutian Dolichopodidae with new records and some corrections. Some names used by previous authors are homonyms or synonyms, and they have been replaced by new names according to Meuffels (1999). The material of newly recorded species is deposited mainly in the collection

of the Institute of Biological Problems of Cryolithozone. An asterisk (\*) indicates species collected in the Lena-Amga watershed. Double asterisk (\*\*) shows species new for the fauna of Yakutia. For references see Grichanov & Negrobov (1979), Negrobov (1991) and Negrobov et al. (2000).

### A CHECK LIST OF DOLICHOPODIDAE (DIPTERA) OF YAKUTIA

| Subfamily <sup>1</sup> | Species   | Notes and synonyms  |
|------------------------|---|---|
| 1. SYMP                | <i>Campsicnemus armatus</i> (Zetterstedt, 1849)         | = <i>prodromus</i> (Haliday, 1832)<br>[ <i>Camptosceles</i> ] (nec Meigen, 1824) = <i>pectinifer</i> De Meijere, 1907   |
| 2. SYMP                | <i>Campsicnemus compeditus</i> (Loew, 1857)             |   |
| 3. SYMP                | <i>Campsicnemus paradoxus</i> (Wahlberg, 1844)          |   |
| 4. SYMP                | * <i>Campsicnemus picticornis</i> (Zetterstedt, 1843)   | = <i>varicornis</i> Loew, 1864<br>= <i>canzonieri</i> Rampini, 1975<br>= <i>pectinulatus</i> Loew, 1864   |
| 5. SYMP                | <i>Campsicnemus pumilio</i> (Zetterstedt, 1843)         |   |
| 6. DIAP                | <i>Chrysotus andrei</i> Negrobov, 1986                  |   |
| 7. DIAP                | <i>Chrysotus fuscoluteus</i> Negrobov et Zurikov, 1986  |   |
| 8. DIAP                | <i>Chrysotus ljutengensis</i> Negrobov et Zurikov, 1986 |   |
| 9. DIAP                | ** <i>Chrysotus neglectus</i> (Wiedemann, 1817)         | = <i>viridulus</i> (Fallén, 1823)<br>[ <i>Dolichopus</i> ] = <i>copiosus</i> Meigen, 1824 = <i>femoralis</i> Meigen, 1824 = <i>taeniomerus</i> Meigen, 1830 = <i>lundbladi</i> Frey, 1939 |
| 10. DIAP               | <i>Chrysotus obscuripes</i> Zetterstedt, 1838           | = <i>amplicornis</i> Kowarz, 1874, nec Zetterstedt, 1849<br>= <i>kowarzi</i> Lundbeck, 1912   |
| 11. DIAP               | <i>Chrysotus nudisetus</i> Negrobov et Maslová, 1995    |   |
| 12. DIAP               | <i>Chrysotus viridifemoratus</i> von Roser, 1840        | Negrobov et al., 2000   |
| 13. DOLI               | <i>Dolichopus agilis</i> Meigen, 1824                   |   |
| 14. DOLI               | <i>Dolichopus amginensis</i> Stackelberg, 1928          |   |
| 15. DOLI               | * <i>Dolichopus angustipennis</i> Kertész, 1901         |   |
| 16. DOLI               | <i>Dolichopus annulipes</i> Zetterstedt, 1838           | Negrobov et al., 2000;<br>= <i>stenhammari</i> Zetterstedt, 1843  |
| 17. DOLI               | * <i>Dolichopus bianchii</i> Stackelberg, 1929          |   |
| 18. DOLI               | * <i>Dolichopus brevipennis</i> Meigen, 1824            | = <i>plumitarsis</i> , var. b, Fallén, 1823   |
| 19. DOLI               | ** <i>Dolichopus calceatus</i> Parent, 1927             |   |
| 20. DOLI               | * <i>Dolichopus clavipes fusiformis</i> Becker, 1917    |   |
| 21. DOLI               | <i>Dolichopus costalis</i> Frey, 1915                   |   |
| 22. DOLI               | <i>Dolichopus maculicornis</i> Verrall, 1875            | Negrobov et al., 2000;<br>= <i>consobrinus</i> Zetterstedt, 1859 (nec Haliday, 1851)  |

23. DOLI Dolichopus czekanovskii Stackelberg, 1928  
 24. DOLI Dolichopus eous Stackelberg, 1929  
 25. DOLI Dolichopus flavipes Stannius, 1831  
 26. DOLI Dolichopus galeatus Loew, 1871  
 27. DOLI Dolichopus ivanovi Stackelberg, 1929  
 28. DOLI Dolichopus jacutensis Stackelberg, 1929  
 29. DOLI Dolichopus kjari Stackelberg, 1929  
 30. DOLI \*Dolichopus (Hygroceleuthus) latipennis Fallén, 1823  
 31. DOLI Dolichopus linearis Meigen, 1824 =*agilis* Zetterstedt, nec Meigen, 1824 =*plebeius* Meigen, 1824 =*parvulus* Zetterstedt, 1843  
 32. DOLI \*Dolichopus litorellus Zetterstedt, 1852  
 33. DOLI Dolichopus longicornis Stannius, 1831 =*acuticornis* Fallén, 1823 [p.p.] [et alii auctores nec Wiedemann, 1817]  
 34. DOLI Dolichopus discifer Stannius, 1831 Negrobov et al., 2000; =*patellatus* Meigen, 1824 (nec Fallén, 1823) =*confusus* Zetterstedt, 1838 nec 1843 =*nigricornis* Becker, 1917 et auctt. (nec Meigen, 1824)  
 35. DOLI Dolichopus notatus Staeger, 1842 Negrobov et al., 2000; =*notabilis* Zetterstedt, 1843 =*puncticornis* Zetterstedt, 1843  
 36. DOLI \*\*Dolichopus negrobovi Gosseries, 1989 (nom.nov.) =*pallipes* Negrobov, 1973 (nec Macquart, 1827) =*pal-lidus* Negrobov, 1991 (nom. nov.) (nec Fallén, 1823)  
 37. DOLI Dolichopus pectinitarsis Stenhammer, 1851 Negrobov et al., 2000  
 38. DOLI Dolichopus pennatus Meigen, 1824 Negrobov et al., 2000; =*popularis* Fallén, 1823 (nec Wiedemann, 1817) =*signatus* Staeger, 1842 (nec Meigen, 1824)  
 39. DOLI Dolichopus plumitarsis Fallén, 1823 Negrobov et al., 2000  
 40. DOLI Dolichopus ringdahli Stackelberg, 1929  
 41. DOLI \*\*Dolichopus (Hygroceleuthus) rotundipennis Loew, 1848  
 42. DOLI Dolichopus rupestris Haliday, 1833 =*festinans* Zetterstedt, 1838 =*fuscimanus* Zetterstedt, 1843  
 43. DOLI \*\*Dolichopus sagittarius Loew, 1848  
 44. DOLI Dolichopus sibiricus Stackelberg, 1929  
 45. DOLI \*Dolichopus simius Parent, 1927  
 46. DOLI Dolichopus socer Loew, 1871  
 47. DOLI Dolichopus uniseta Stackelberg, 1929  
 48. DOLI Dolichopus zetterstedti Stenhammar, 1852  
 49. DOLI Hercostomus flavicoxus Negrobov et Logvinovskij, 1977  
 50. DOLI Hercostomus rusticus (Meigen, 1824)

51. HYDR *Hydrophorus alpinus* Wahlberg, 1844
52. HYDR *Hydrophorus balticus* (Meigen, 1824) Negrobov et al., 2000;  
=*chloropus* (von Roser,  
1840) [*Medeterus*]
53. HYDR *Hydrophorus brunnicosus* Loew, 1857
54. HYDR \**Hydrophorus callostomus* Loew, 1857 Excluded by Negrobov et al.,  
2000
55. HYDR *Hydrophorus litoreus* Fallén, 1823 =*aquaticus* (Meigen, 1824)  
[*Medeterus*] =*conspersus*  
(Haliday, 1832) [*Medeterus*]  
=*chloropus* (Zetterstedt,  
1843) [*Medeterus*] (nec von  
Roser, 1840)
56. MEDE \*\**Medetera bargusinica* Negrobov, 1972 a sister species to *M.*  
*spinulicauda* Negrobov, 1972
57. MEDE *Medetera bilineata* Frey, 1915
58. MEDE *Medetera jakuta* Negrobov, 1972
59. MEDE *Medetera lamprostomoides lamprostomoides* Negrobov, 1972
60. MEDE \**Medetera micacea* Loew, 1857 =*jacula* (Fallén, 1823, p.p.)  
[*Hydrophorus*] =*apicalis*  
var.b (Zetterstedt, 1843)  
[*Hydrophorus*] =*acuta*  
Negrobov, 1966
61. MEDE *Medetera vagans* Becker, 1917 =*fennica* Thuneberg, 1955
62. DIAP \*\**Melanostolus nigricilius* (Loew, 1871)
63. SYMP *Micromorphus jakutensis* Negrobov, 2000
64. RHAP *Rhaphium basale* Loew, 1850
65. RHAP *Rhaphium commune* (Meigen, 1824) Negrobov et al., 2000;  
=*bivittatum* (von Roser,  
1840) [*Porphyrops*]  
=*spinicoxa* Loew, 1850
66. RHAP *Rhaphium glaciale* (Ringdahl, 1920)
67. RHAP *Rhaphium patellitarse* (Becker, 1900)
68. RHAP *Rhaphium riparium* (Meigen, 1824) Negrobov et al., 2000  
=*praerosum* Loew, 1850  
=*tenuis* (Verrall, 1876)  
[*Porphyrops*]
69. RHAP *Rhaphium rivale* (Loew, 1869) =*hartmannifallax* (Loew,  
1869) [*Porphyrops*]  
=*fasciculatum* (Strobl, 1898)  
[*Porphyrops*]
70. HYDR *Scellus alactaga* Stackelberg, 1951
71. HYDR \**Scellus gallicanus* Becker, 1909
72. SYMP \*\**Sympycnus urgaicus* Negrobov, 1973
73. DOLI \*\**Tachytrechus notatus* Stannius, 1831 Identified by a single female.  
=*litoreus* (Haliday, 1833)  
[*Dolichopus*] =*beckeri*  
(Müller, 1923)  
[*Hercostomus*] (nec  
Lichtwardt, 1917)

