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First records of Dolichopodidae (Diptera) from Khingan Nature Reserve, Russia

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Abstract. New material of Dolichopodidae has been recently collected in the Khingan Nature Reserve, Amurskaya Oblast, which includes 14 species (all species are new for the Reserve). In total, 86 species are reported in this Region, which apparently make up 45–50% of actual Dolichopodidae regional fauna. *Amblypsilopus* aff. *bouvieri* (Parent, 1927), *Chrysotimus spinuliferus* Negrobov, 1978, *Gymnopternus pseudoceler* (Stackelberg, 1933), *Poecilobothrus flaveolus* (Negrobov et Chalaya, 1987) and *Sympycnus changaicus* Negrobov, 1973are recorded from Priamurye for the first time. This paper also provides the distribution pattern for each collected species. A check-list of Dolichopodidae species known from Amurskaya Oblast is provided.

Keywords: Dolichopodidae, Russian Far East, Amurskaya Oblast, Khingan Nature Reserve, new records

Первые указания Dolichopodidae (Diptera) из Хинганского заповедника, Россия

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Аннотация. Материал по семейству Dolichopodidae впервые собран в Хинганском государственном природном заповеднике, Амурская область; новые указания включают 14 видов (все – новые для заповедника). Всего в области отмечено 86 видов, что, по-видимому, составляет 45–50% региональной фауны Dolichopodidae. *Amblypsilopus* aff. *bouvieri* (Parent, 1927), *Chrysotimus spinuliferus* Negrobov, 1978, *Gymnopternus pseudoceler* (Stackelberg,1933), *Poecilobothrus flaveolus* (Negrobov et Chalaya, 1987) и *Sympycnus changaicus* Negrobov, 1973 отмечены впервые в Приамурье. В статье приведено также общее распространение для каждого отловленного вида и справочный список долихоподид Амурской области.

Ключевые слова: Dolichopodidae, Дальний Восток России, Амурская область, Хинганский заповедник, новые указания

Introduction

Amur Region, or Amurskaya Oblast, or Priamurye is located in the Russian Far East, between the Stanovoy Range in the north and the Amur River in the south, bordering the Sakha Republic in the north, Khabarovsky Krai and the Jewish Autonomous Oblast (JAO) in the east, Heilongjiang Province of China in the south, and Zabaykalsky Krai in the west. It has insufficiently studied fauna of long-legged flies, regarding especially protected areas of the Region. The Khingan Nature Reserve covers the flat Arkharinskaya lowlands with abundant wetlands (the Amur-Zeya-Bureya intermountain plains), and forested spurs of the Lesser Khingan mountains (the low rugged hills). It is located in the Amur meadow steppe ecoregion within flooded grasslands and savannas biome (see Ecoregions 2017). The Reserve is relatively forest-free and characterized today by extensive wetlands of bogs and grasslands with a network of small rivers and lakes (Gafarov 2013).

The first record of long-legged fly from Priamurye ("between Shilka and Nikolaevsk"), *Dolichopus ungulatus* (Linnaeus, 1758), was published by Motschulsky (Motschulsky 1859); the record is yet not supported by published materials from the Far East. Parent (Parent 1929) described three new species from "Province d'Amour", *Dolichopus bilamellatus, Hercostomus zieheni* and *Sciapus roderi*. First specimens of Dolichopodidae began to come from the Amurskaya Oblast in the collection of the Zoological Institute of the Russian Academy of Sciences (ZIN) since the beginning of the 20th century. New materials were collected in the 1950–80s. They were processed by Professor O.P. Negrobov, a famous Soviet dipterologist, and his students and were used in a number of taxonomical revisions and faunistic reviews of dolichopodid fauna of the USSR and Russia (Negrobov 1967; 1970; 1975; 1980; 1986a; 1986b; 2000; Negrobov, Stackelberg 1971–1974; Negrobov, Maslova 1995; Maslova et al. 2008; 2010; 2011; 2012; Negrobov, Selivanova 2010; Kornev et al. 2011; Negrobov et al. 2013; 2014; 2016; 2020; Grichanov, Selivanova 2022). Unfortunately, some species

Fig. 1. Kleshinskoe Lake shore, 10 August 2022. Courtesy of Oksana V. Kosheleva

Рис. 1. Берег озера Клешинское, 10 августа 2022. Фото Оксаны В. Кошелевой

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Fig. 2. Forest near the Tarmanchukan River, 7 August 2022. Courtesy of Oksana V. Kosheleva
Рис. 2. Лес около реки Тарманчукан, 7 августа 2022. Фото Оксаны В. Кошелевой

were included into the catalog (Negrobov 1991) and checklists (Negrobov 1979; Negrobov et al. 2000), but the material from the Amurskaya Oblast has never been published. The unpublished material from this and other regions was also included into the PhD dissertations by Rodionova (Rodionova 2004), Maslova (Maslova 2006), Selivanova (Selivanova 2006) and Nechaj (Nechaj 2011), PhD students of Prof. O.P. Negrobov. These records must be confirmed, as specimens for at least one species, *Dolichopus cinctipes* Wahlberg, 1850, were later described as a new for science *D. soldatovi* (Negrobov et al. 2013). Negrobov et al. (Negrobov et al. 2000) counted 37 species in the fauna of Priamurye. There were later some nomenclatural changes for the published names, and many new records based on old ZIN collections were published (see above). During the last decades, no regular collecting of dolichopodid flies was made in the region.

The material for this study was collected in wetlands (Figs. 1, 2) by the collaborator of the All-Russian Institute of Plant Protection Dr. O.V. Kosheleva using standard sweeping and yellow pan trap methods, fixed in 70% ethanol or dried and mounted on pins; it will be deposited at the Zoological Institute of the Russian Academy of Sciences, Saint Petersburg. Females of some genera are not sorted as they could hardly be distinguished from females of closely related species inhabiting the Far East. New records for 14 species are listed below, collected in the Khingan Nature Reserve and labeled as follows: Russia: Far East, Amur Province, Khingan Reserve. These data are not repeated in the text. The information on the global distribution for each species follows Grichanov (Grichanov 2022). The type localities are provided and the country lists are arranged alphabetically. The words "Region" (Oblast) and "Territory" (Krai) are omitted from the list of Russian regions. Remarks are provided where deemed necessary. A check-list of Dolichopodidae species known from Amurskaya Oblast is provided.

New Records

Amblypsilopus* aff. *bouvieri (Parent, 1927)
Material examined. 1♀, 3 km E Uril, [49°13' N, 130°32' E], floodplain, Tarmanchukan River, 04.08.2022.
Distribution. Type locality: China: Jiangsu, Nanjing. Oriental: China (Fujian, Guizhou); Palaearctic: China (Beijing, Henan, Jiangsu, Shaanxi), Russia (JAO).
Notes. The female examined is associated with this species, which was recorded recently from Amurzet in the neighbouring Jewish Autonomous Oblast (Grichanov, Selivanova, 2022).

Chrysotimus spinuliferus Negrobov, 1978
Material examined. 1♀, 3 km E Uril, [49°13' N, 130°32' E], floodplain, Tarmanchukan River, 04.08.2022; 1♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], mixed broadleaf forest, 9.08.2022.
Distribution. Type locality: Russia, Primorye, Yakovlevka. Palaearctic: Russia (Kuriles, Priamurye, Primorye, Sakhalin, Yakutia).
Notes. The species is recorded from Priamurye for the first time.

Chrysotus cilipes Meigen, 1824
Material examined. 1♂, 3 km E Uril, [49°13' N, 130°32' E], floodplain, Tarmanchukan River, 04.08.2022.
Distribution. Type locality: Germany, Hamburg. Trans-Palaearctic species.

Chrysotus neglectus (Wiedemann, 1817)
Material examined. 1♂, 3 km E Uril, [49°13' N, 130°32' E], floodplain, Tarmanchukan River, 04.08.2022.
Distribution. Type locality: Germany, Holstein. Trans-Palaearctic species.

Diaphorus nigricans Meigen, 1824
Material examined. 1♀, 7 km SE Uril, Dyrovatka River, [49°10' N, 130°33' E], Calamagrostis, swamp, 6.08.2022.
Distribution. Type locality: "Germany." Afrotropical, Nearctic, Oriental, Palaearctic and Neotropical Regions.

Dolichopus amurensis Stackelberg, 1930
Material examined. 1♂, 3 km E Uril, [49°13' N, 130°32' E], floodplain, Tarmanchukan River, 04.08.2022.
Distribution. Type locality: Russia: Khabarovsky Krai, "Amurlande: Banjbo, Port-Ajan". Palaearctic: Mongolia, Russia (Altai, Irkutsk, Khabarovsk, Krasnoyarsk, Priamurye, Primorye, Sakhalin).
Notes. Kornev et al. (Kornev et al. 2011) recorded females of this species from Priamurye. Here is the first reliable record from the region.

Dolichopus migrans Zetterstedt, 1843
Material examined. 1♂, 1♀, 7 km E Uril, [49°13' N, 130°36' E], mixed broadleaf forest, the Tarmanchukan River, 06.08.2022; 2♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], 12.08.2022; 1♀, 24 km W Arkhara, Yuzhnyi Cordon, [49°23' N, 129°43' E], oakery, 13.08.2022.
Distribution. Type locality: Sweden, Gottlandia, Nahr, Hoburg and Furillen. Trans-Palaearctic species.

Dolichopus nitidus Fallén, 1823
Material examined. 1♂, 1♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], 14.08.2022.
Distribution. Type locality: not given (Sweden?). Trans-Palaearctic species; Oriental: China (Shanghai).

Dolichopus plumipes (Scopoli, 1763)
Material examined. 2♀, 24 km W Arkhara, Yuzhnyi Cordon, [49°23' N, 129°43' E], oakery, 13.08.2022.
Distribution. Type locality: Slovenia, "Carnioliae indigena." Mainly Holarctic species. Neotropical: Mexico; Oriental: India (Kashmir).

Dolichopus setimanus Smirnov, 1948
Material examined. 1♂, 1♀, 7 km SE Uril, the Dyrovatka River, [49°10' N, 130°33' E], forest, 07.08.2022; 2♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], mixed broadleaf forest, 09.08.2022; 1♂, 4♀, 24 km W Arkhara, Yuzhnyi Cordon, [49°23' N, 129°43' E], oakery, 13.08.2022; 1♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], 14.08.2022.
Distribution. Type locality: Russia, Primorye, Okeanskaya, near Vladivostosk. Palaearctic: Russia (JAO, Khabarovsk, Priamurye, Primorye, Sakhalin including the Kuril Is., Zabaikalye).

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Dolichopus simius Parent, 1927
Material examined. 1♂, 1♀, 24 km W Arkhara, Yuzhnyi Cordon, [49°23' N, 129°43' E], oakery, 13.08.2022.
Distribution. Type locality: Russia, Irkutsk Region: "Siberia: environs d'Irkutsk." Palaearctic: China (Heilongjiang, Inner Mongolia), Mongolia, Russia (Altai Rep., Bashkortostan, Buryatia, the Commander Is., Irkutsk, Kamchatka, Khabarovsk, Khakassia, Krasnoyarsk, the Kuriles, Magadan, Moscow, Novosibirsk, Priamurye, Primorye, Sakhalin, Sverdlovsk, Tomsk, Yakutia, Zabaikalye).

Dolichopus soldatovi Negrobov, Selivanova et Maslova, 2013
Material examined. 2♂, 7 km SE Uril, the Dyrovatka River, [49°10' N, 130°33' E], forest, 07.08.2022.
Distribution. Type locality: Khabarovskii krai, lower reach of Amur River, Nizhnevyatskoe. Palaearctic: Russia (Khabarovsk, Priamurye).

Gymnopternus pseudoceler (Stackelberg,1933)
Material examined. 17♂, 9♀, 3 km E Uril, [49°13' N, 130°32' E], floodplain, the Tarmanchukan River, 04.08.2022; 3♂, 2♀, 7 km SE Uril, the Dyrovatka River, [49°10' N, 130°33' E], Calamagrostis, swamp, 06.08.2022; 2♀, 7 km E Uril, [49°13' N, 130°36' E], mixed broadleaf forest, the Tarmanchukan River, 06.08.2022; 3♂, 1♀, 7 km SE Uril, the Dyrovatka River, [49°10' N, 130°33' E], forest, 07.08.2022; 3♂, 2♀, 24 km W Arkhara, Yuzhnyi Cordon, [49°23' N, 129°43' E], oakery, 13.08.2022; 1♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], 14.08.2022.
Distribution. Type locality: Russia: "Ussuri-Gebiet, Dorf Jakovlevka, Distrikt Spassk." Palaearctic: Russia (Kuriles, Priamurye, Primorye).
Notes. The species is recorded from Priamurye for the first time.

Poecilobothrus flaveolus (Negrobov et Chalaya, 1987)
Material examined. 2♂, 3♀, 3 km E Uril, [49°13' N, 130°32' E], floodplain, the Tarmanchukan River, 04.08.2022; 3♂, 5♀, 7 km SE Uril, the Dyrovatka River, [49°10' N, 130°33' E], Calamagrostis, swamp, 06.08.2022; 2♀, 7 km E Uril, [49°13' N, 130°36' E], mixed broadleaf forest, the Tarmanchukan River, 06.08.2022; 1♂, 4♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], mixed broadleaf forest, 09.08.2022; 2♂, 3♀, 24 km W Arkhara, Kleshinskoe Ozero Cordon, [49°23' N, 129°43' E], 12.08.2022; 3♂, 5♀, 24 km W Arkhara, Yuzhnyi Cordon, [49°23' N, 129°43' E], oakery, 13.08.2022.
Distribution. Type locality: Russia, Primorye, Spassky Distr., Nakhimovka. Palaearctic: China (Beijing, Heilongjiang, Henan, Shaanxi), Japan, Russia (JAO, Khabarovsk, Kunashir, Priamurye, Primorye).
Notes. Amurskaya Oblast was erroneously included into the species distribution area instead of Jewish Autonomous Oblast in some regional lists. Here I record *P. flaveolus* from Priamurye for the first time.

Sympycnus changaicus Negrobov, 1973
Material examined. 1♂, 1♀, 7 km SE Uril, the Dyrovatka River, [49°10' N, 130°33' E], forest, 07.08.2022.
Distribution. Type locality: Mongolia: "Archangaj aimak, Gebirgspas Egijn davaa." Palaearctic: Mongolia, Russia (Altai Republic, Buryatia, Transbaikalia, Tyva, Yakutia).

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Appendix

A check-list of Dolichopodidae species known from Amurskaya Oblast. An asterisk (*) designates species collected from the Khingan Nature Reserve.

1. *Achalcus polleti* Negrobov et Selivanova, 2010
2. *Amblypsilopus* aff. *bouvieri* (Parent, 1927)*
3. *Argyra spoliata* Kowarz, 1879
4. *Campsicnemus picticornis* (Zetterstedt, 1843)
5. *Chrysotimus spinuliferus* Negrobov, 1978*
6. *Chrysotus albibarbus* Loew, 1857
7. *Chrysotus amurensis* Negrobov, 1980
8. *Chrysotus andrei* Negrobov, 1986

9. *Chrysotus caerulescens* Negrobov, 1980
10. *Chrysotus cilipes* Meigen, 1824*
11. *Chrysotus cupreus* Macquart, 1827
12. *Chrysotus degener* Frey, 1917
13. *Chrysotus femoratus* Zetterstedt, 1843
14. *Chrysotus glebi* Negrobov et Maslova, 1995
15. *Chrysotus gramineus* Fallén, 1823
16. *Chrysotus laesus* (Wiedemann, 1817)
17. *Chrysotus neglectus* (Wiedemann, 1817)*
18. *Chrysotus obscuripes* Zetterstedt, 1843
19. *Chrysotus pseudocilipes* Hollis, 1964
20. *Chrysotus pulchellus* Kowarz, 1874
21. *Chrysotus smithi* Negrobov, 1980
22. *Chrysotus suavis* Loew 1857
23. *Chrysotus vladimiri* Negrobov et Maslova, 1995
24. *Diaphorus anatoli* Negrobov, 1986
25. *Diaphorus nigricans* Meigen, 1824
26. *Dolichopus agilis* Meigen, 1824
27. *Dolichopus albipalpus* Negrobov, 1973
28. *Dolichopus amurensis* Stackelberg, 1930*
29. *Dolichopus basalis* Loew, 1859
30. *Dolichopus bilamellatus* Parent, 1929
31. *Dolichopus bonsdorfi* Frey, 1951
32. *Dolichopus calceatus* Parent, 1927
33. *Dolichopus davshinicus* Negrobov, 1973
34. *Dolichopus discifer* Stannius, 1831
35. *Dolichopus eous* Stackelberg, 1929
36. *Dolichopus eurypterus* Gerstäcker, 1864
37. *Dolichopus flavipes* Stannius, 1831
38. *Dolichopus galeatus* Loew, 1871
39. *Dolichopus griseifacies* Becker, 1917
40. *Dolichopus jacutensis* Stackelberg, 1929
41. *Dolichopus linearis* Meigen, 1824
42. *Dolichopus longicornis* Stannius, 1831
43. *Dolichopus mannerheimi* Zetterstedt, 1838
44. *Dolichopus migrans* Zetterstedt, 1843*
45. *Dolichopus negrobovi* Gosseries, 1989
46. *Dolichopus nigripes* Fallén, 1823
47. *Dolichopus nitidus* Fallén, 1823*
48. *Dolichopus plumipes* (Scopoli, 1763)*
49. *Dolichopus plumitarsis* Fallén, 1823
50. *Dolichopus ptenopedilus* Meuffels, 1982
51. *Dolichopus punctum* Meigen, 1824
52. *Dolichopus robustus* Stackelberg, 1928
53. *Dolichopus rupestris* Haliday, 1833
54. *Dolichopus setimanus* Smirnov, 1948*
55. *Dolichopus shamshevi* Negrobov, Selivanova et Maslova, 2014
56. *Dolichopus sharovi* Smirnov, 1948*
57. *Dolichopus simius* Parent, 1928*
58. *Dolichopus socer* Loew, 1871
59. *Dolichopus soldatovi* Negrobov, Selivanova et Maslova, 2013*
60. *Dolichopus ussuriensis* Stackelberg, 1930
61. *Gymnopternus aerosus* (Fallén, 1823)
62. *Gymnopternus assimilis* (Staeger, 1842)
63. *Gymnopternus daubichensis* (Stackelberg, 1933)
64. *Gymnopternus pseudoceler* (Stackelberg, 1933)*
65. *Gymnopternus ussurianus* (Stackelberg, 1933)
66. *Hercostomus rusticus* (Meigen, 1824)
67. *Hercostomus sviridovae* Negrobov et Chalaya, 1987
68. *Hercostomus udeorum* Stackelberg, 1933
69. *Hercostomus zieheni* Parent, 1929
70. *Hydrophorus cinipunctus* Negrobov, 1975
71. *Medetera hymera* Negrobov, 1972
72. *Medetera infumata* Loew, 1857
73. *Medetera spinulicauda* Negrobov, 1970
74. *Medetera tarasovae* Negrobov, 1972
75. *Medetera thunebergi* Negrobov, 1967
76. *Micromorphus amurensis* Negobov, 2000
77. *Neurigona pullata* Negrobov et Fursov, 1988
78. *Poecilobothrus flaveolus* (Negrobov et Chalaya, 1987)*
79. *Rhaphium boreale* Van Duzee, 1923
80. *Rhaphium elegantulum* Meigen, 1824
81. *Rhaphium nigribarbatum* Becker, 1900
82. *Sciapus roderi* Parent, 1929
83. *Sympycnus changaicus* Negrobov, 1973*
84. *Sympycnus gorodkovi* Negrobov, Barkalov, Selivanova et Grichanov, 2016
85. *Syntormon flexibilis* Becker, 1922
86. *Thrypticus tsacasi* Negrobov, 1971

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