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New records of Dolichopodidae (Diptera) from Kaliningrad Region of Russia

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Abstract. The faunistic data of the results of collecting dolichopodids in the Kaliningrad Region of Russia during two short-term visits (2022, 2023) are presented. In all, 24 Dolichopodidae species are recorded from the Kurshskaya Kosa National Park and 44 species from the Kaliningrad Region. Almost all species are firstly recorded for the region. Most of the collected species are common and widespread across Europe or even across the Palaearctic Region. *Gymnopternus silvestris* (Pollet, 1991) species is found in Russia and the Baltic Region for the first time.

Keywords: long-legged flies, fauna, Russia, Kaliningrad, new records

Новые находки Dolichopodidae (Diptera) из Калининградской области России

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Аннотация. Представлены фаунистические данные результатов сборов хищных мух-зеленушек в Калининградской области России, расположенной в экологическом регионе смешанных лесов Центральной Европы, в ходе двух краткосрочных поездок (2022 г., 2023 г.). Всего в национальном парке «Куршская коса» отмечено 24 вида Dolichopodidae, и в Калининградской области — 44 вида. Почти все виды впервые отмечены для региона. Большинство собранных видов обычны и широко распространены в Европе и даже в Палеарктике. Вид *Gymnopternus silvestris* (Pollet, 1991) обнаружен в России и Прибалтике впервые.

Ключевые слова: двукрылые, мухи-зеленушки, фауна, Россия, Калининград, новые указания

Introduction

The Kaliningrad Region, or Kaliningrad Oblast, is a semi-exclave of the Russian Federation bordered (since 1945) by Poland to the south, Lithuania to the north and east, and the Baltic Sea to the northwest. It is located in the Central European Mixed Forests ecoregion in contrast to the most part of the Baltic coastal region belonging to the Taiga ecoregion, Baltic and Sarmatic Mixed Forests ecoregions (see Ecoregions 2017). The area of the Kurshskaya Kosa (Curonian Spit) National Park (KKNP) and adjacent Kaliningradskiy (Sambian) Peninsula is one of high biodiversity due to the many different ecological communities in close proximity to each other: beach, dune ridge, wetlands of various types, meadows and forests. The climate is considered warm and temperate. The month of the highest temperature is July with the average temperature up to 19°C. January is the coldest time of year with temperatures averaging at around –2°C. The annual precipitation is approximately 750 to 800 mm (Kaushila, Shver 1983).

Only one paper devoted to the fauna of the long-legged flies (Dolichopodidae) of the Kaliningrad Region was published (Grichanov 2011). Nine species were found by Dr. V. Kolyada (Moscow) during his short 2006 visit to the Kurshskaya Kosa National Park, near Rybachiy Village. Four species collected by use of yellow pan traps from this first list have not been found again, i.e. *Campsicnemus lumbatus* Loew, 1857, *C. picticornis* (Zetterstedt, 1843), *Chrysotus gramineus* (Fallén, 1823) and *Xanthochlorus galbanus* Chandler et Negrobov, 2008.

Recently, a new material collected mainly by the author of this paper in KKNP and few neighboring districts by use of sweep net has been identified (his name is omitted from the list). Also the material collected by Dr. Elena A. Erofeeva (Moscow) during her 2022 visit to KKNP is also included. This paper presents the new species records in detail. All studied specimens are pinned and will be deposited in the collections of Zoological Institute of the Russian Academy of Sciences, Saint Petersburg (ZIN) and Zoological Museum of Moscow State University (ZMMU). The information on the global distribution for each collected species follows Grichanov (2023). The type localities are provided and the country lists are arranged alphabetically. In future, it will allow characterizing dolichopodid fly species by area types. The words "Region" (oblast) and "Territory" (kray) are omitted from the list of Russian regions. Remarks are provided where deemed necessary. Closely related species of some genera (e.g., *Gymnopternus* Loew, 1857) are usually indistinguishable by females; therefore, they are left unidentified.

New records

Genus ***Argyra*** Macquart, 1834

1. ***Argyra vestita*** (Wiedemann, 1817)
Material examined. 1♂, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023; 1♀, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: Denmark, Rosenthal, Gryphium. Trans-Palaearctic species.

Genus ***Campsicnemus*** Haliday, 1851

2. ***Campsicnemus armatus*** (Zetterstedt, 1849)
Material examined. 4♂, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: Denmark, Rosenthal, Gryphium. Trans-Palaearctic species.

3. ***Campsicnemus pusillus*** (Meigen, 1824)
Material examined. 1♂, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023.
Distribution. Type locality: Germany: Hamburg. Trans-Palaearctic species.

4. ***Campsicnemus scambus*** (Fallén, 1823)
Material examined. 2♀, Kaliningrad, Victory Park, ditch, 54.69°N, 20.46°E, 11.07.2023; 9♂, 4♀, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023; 1♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023; 4♂, Kaliningrad, Suvorova street, rivulet, 54.69°N, 20.46°E, 15.07.2023; 2♂, Kaliningrad reg., Golubevo vil., lake shore, 54.62°N, 20.39°E, 15.07.2023; 3♂, 6♀, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.

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Distribution. Type locality: Sweden, Esperod. Trans-Palaearctic boreal species.

Genus ***Chrysotus*** Meigen, 1824

5. ***Chrysotus cilipes*** Meigen, 1824
Material examined. 1♂, 3♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023.
Distribution. Type locality: Germany, Hamburg. Trans-Palaearctic species.

6. ***Chrysotus suavis*** Loew, 1857
Material examined. 1♂, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023.
Distribution. Type locality: Germany, Hamburg. Trans-Palaearctic species.

Genus ***Dolichopus*** Latreille, 1796

7. ***Dolichopus campestris*** Meigen, 1824
Material examined. 1♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023; 1♂, 2♀, Kaliningrad reg., Valdburg Park, ditch, 54.63°N, 20.36°E, 15.07.2023.
Distribution. Type locality: not given. Trans-Palaearctic species.

8. ***Dolichopus latilimbatus*** Macquart, 1827
Material examined. 1♀, KKNP, Rybachiy vil., bay shore, 55.148°N, 20.855°E, 23.07–6.08.2022, E. Erofeeva.
Distribution. Type locality: not given ("Nord de France"). Trans-Palaearctic temperate species (except for the Far East).

9. ***Dolichopus nubilus*** Meigen, 1824
Material examined. 1♂, Kaliningrad reg., Valdburg Park, ditch, 54.63°N, 20.36°E, 15.07.2023.
Distribution. Type locality: not given. Trans-Palaearctic species. The species was recorded from KKNP (Grichanov 2011).

10. ***Dolichopus pennatus*** Meigen, 1824
Material examined. 1♂, Kaliningrad, Suvorova street, rivulet, 54.69°N, 20.46°E, 15.07.2023.
Distribution. Type locality: not given. Trans-Palaearctic species.

11. ***Dolichopus plumipes*** (Scopoli, 1763)
Material examined. 1♂, 1♀, Kaliningrad reg., Golubevo vil., lake shore, 54.62°N, 20.39°E, 15.07.2023.
Distribution. Type locality: Slovenia, "Carnioliae indigena". Mainly Holarctic species; Neotropical: Mexico; Oriental: China, India (Kashmir).

12. ***Dolichopus popularis*** Wiedemann, 1817
Material examined. 1♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023.
Distribution. Type locality: Germany, Holstein. Mainly West-Palaearctic species.

13. ***Dolichopus trivialis*** Haliday, 1832
Material examined. 1♀, Kaliningrad reg., Golubevo vil., lake shore, 54.62°N, 20.39°E, 15.07.2023.
Distribution. Type locality: Ireland: Holywood. European species.

14. ***Dolichopus ungulatus*** (Linnaeus, 1758)
Material examined. 1♂, KKNP, Rybachiy vil., bay shore, 55.148°N, 20.855°E, 23.07–6.08.2022, E. Erofeeva; 1♂, Kaliningrad, Victory Park, ditch, 54.69°N, 20.46°E, 11.07.2023; 1♀, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023; 1♂, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023; 1♂, Kaliningrad reg., Valdburg Park, ditch, 54.63°N, 20.36°E, 15.07.2023.
Distribution. Type locality: Europe. Trans-Palaearctic temperate species.

Genus ***Gymnopternus*** Loew, 1857

15. ***Gymnopternus aerosus*** (Fallén, 1823)
Material examined. 44♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.
Distribution. Type locality: not given (Sweden). Trans-Palaearctic species.

16. ***Gymnopternus assimilis*** (Staeger, 1842)
Material examined. 3♂, 3♀, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.
Distribution. Type locality: not given (Denmark). Europe; Turkey.

17. ***Gymnopternus blankaartensis*** (Pollet, 1991)
Material examined. 2♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.
Distribution. Type locality: Belgium, West Flanders, Woumen, De Blankaart Nature Reserve. Western Palaearctic species.

18. ***Gymnopternus brevicornis*** (Staeger,

1842)
Material examined. 12♂, 1♀, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.
Distribution. Type locality: not given (Denmark). Trans-Palaearctic species.

19. ***Gymnopternus celer*** (Meigen, 1824)
Material examined. 2♂, 1♀, Kaliningrad, Victory Park, ditch, 54.69°N, 20.46°E, 11.07.2023; 1♂, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023; 4♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.
Distribution. Type locality: not given (Germany). Trans-Palaearctic species (except for the Far East).

20. ***Gymnopternus metallicus*** (Stannius, 1831)
Material examined. 6♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023; 2♀, Kaliningrad, Suvorova street, rivulet, 54.69°N, 20.46°E, 15.07.2023; 1♂, 2♀, Kaliningrad reg., Valdburg Park, ditch, 54.63°N, 20.36°E, 15.07.2023; 1♂, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: Germany, "Umgegend von Hamburg." Trans-Palaearctic species.

21. ***Gymnopternus silvestris*** (Pollet, 1991)
Material examined. 3♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023; Kaliningrad, Suvorova street, rivulet, 54.69°N, 20.46°E, 15.07.2023; 4♂, Kaliningrad, Suvorova street, rivulet, 54.69°N, 20.46°E, 15.07.2023.
Distribution. Type locality: Belgium: West Flanders, Ingelmunster, De Mandelhoek Nature Reserve. Czech Republic, Belgium, France, Germany, Netherlands, Switzerland, UK. New species for Russia.

Genus ***Hercostomus*** Loew, 1857

22. ***Hercostomus nanus*** (Macquart, 1827)
Material examined. 1♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.
Distribution. Type locality: France. Mainly European species.

23. ***Hercostomus nigriplantis*** (Stannius, 1831)
Material examined. 3♂, 4♀, KKNP, Rybachiy vil., bay shore, 55.148°N, 20.855°E, 23.07–6.08.2022, E. Erofeeva.
Distribution. Type locality: Germany: Potsdam, Berlin. Mainly European species.

Genus ***Hydrophorus*** Fallén, 1823

24. ***Hydrophorus bipunctatus*** (Lehmann, 1822)
Material examined. 3♂, 4♀, Kaliningrad reg., Golubevo vil., lake shore, 54.62°N, 20.39°E, 15.07.2023.
Distribution. Type locality: Germany, Hamburg. Mainly Western Palaearctic species.

Genus ***Medetera*** Fischer von Waldheim, 1819

25. ***Medetera jacula*** (Fallén, 1823)
Material examined. 1♂, Kaliningrad, Gvardeisky av., tree trunk, 54.71°N, 20.49°E, 13.07.2023.
Distribution. Type locality: Sweden, Scania. Trans-Palaearctic species (except for the Far East).

26. ***Medetera truncorum*** Meigen, 1824
Material examined. 1♀, Kaliningrad, Gvardeisky av., tree trunk, 54.71°N, 20.49°E, 13.07.2023.
Distribution. Type locality: Germany, Hamburg. Holarctic species.

Genus ***Neurigona*** Rondani, 1856

27. ***Neurigona quadrifasciata*** (Fabricius, 1781)
Material examined. 1♀, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: Germany. Europe; Baikal.

Genus ***Poecilobothrus*** Mik, 1878

28. ***Poecilobothrus comitialis*** (Kowarz, 1867)
Material examined. 1♀, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023; 1♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023.
Distribution. Type locality: Slovakia, Lucenec. Western Palaearctic temperate species.

29. ***Poecilobothrus chrysozygos*** (Wiedemann, 1817)
Material examined. 1♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023; 1♀, Kaliningrad reg., Melnikovo vil., lake shore,

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54.87°N, 20.46°E, 13.07.2023; 4♂, Kaliningrad reg., Valdburg Park, ditch, 54.63°N, 20.36°E, 15.07.2023.
Distribution. Type locality: Germany, probably Aachen. Mainly Western Palaearctic temperate species. Records outside Europe need confirmation.

Genus ***Rhaphium*** Meigen, 1803

30. ***Rhaphium caliginosum*** Meigen, 1824
Material examined. 4♂, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023.
Distribution. Type locality: not given. Western Palaearctic species. The species was recorded from KKNP (Grichanov 2011).

31. ***Rhaphium elegantulum*** (Meigen, 1824)
Material examined. 1♀, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.
Distribution. Type locality: Sweden. West-Palaearctic boreal species.

32. ***Rhaphium micans*** (Meigen, 1824)
Material examined. 1♀, Kaliningrad, Suvorova street, rivulet, 54.69°N, 20.46°E, 15.07.2023.
Distribution. Type locality: Germany, Hamburg. Trans-Palaearctic species.

Genus ***Sciapus*** Zeller, 1842

33. ***Sciapus platypterus*** (Fabricius, 1805)
Material examined. 1♂, 2♀, Kaliningrad reg., Valdburg Park, ditch, 54.63°N, 20.36°E, 15.07.2023; 1♂, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: Germany. European species.

Genus ***Sybistroma*** Meigen, 1824

34. ***Sybistroma obscurella*** (Fallén, 1823)
Material examined. 1♂, 1♀, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: Sweden, "Esperod Scan". Western Palaearctic species.

Genus ***Sympycnus*** Loew, 1857

35. ***Sympycnus pulicarius*** (Fallén, 1823)
Material examined. 1♀, Kaliningrad, Victory Park, ditch, 54.69°N, 20.46°E, 11.07.2023; 2♂, 3♀, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023; 2♂, 2♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023; 1♀, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: Sweden, Scania. Western Palaearctic species. The species was recorded from KKNP (Grichanov 2011).

Genus ***Syntormon*** Loew, 1857

36. ***Syntormon denticulatus*** (Zetterstedt, 1843)
Material examined. 1♀, Kaliningrad, Victory Park, ditch, 54.69°N, 20.46°E, 11.07.2023; 1♂, 2♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023; 5♂, 6♀, Kaliningrad, Suvorova street, rivulet, 54.69°N, 20.46°E, 15.07.2023.
Distribution. Type locality: Sweden, Scania. Western Palaearctic species.

37. ***Syntormon monile*** (Haliday, 1851)
Material examined. 2♀, Kaliningrad, Centre, Park, 54.71°N, 20.48°E, 16.07.2023.
Distribution. Type locality: England; Ireland. Europe, ?North Africa and ?Turkey.
Notes. See notes under *S. submonilis*. The records outside British Isles need confirmation.

38. ***Syntormon pallipes*** (Fabricius, 1794)
Material examined. 1♂, Kaliningrad reg., Valdburg Park, ditch, 54.63°N, 20.36°E, 15.07.2023.
Distribution. Type locality: Germany. Trans-Palaearctic species; Afrotropical (Yemen) and Oriental (China) regions.

39. ***Syntormon submonilis*** Negrobov, 1975
Material examined. 1♂, 6♀, Kaliningrad reg., Melnikovo vil., lake shore, 54.87°N, 20.46°E, 13.07.2023.
Distribution. Type locality: Russia: North Caucasus, Caucasian Nature Reserve, Aishkho Pass. Croatia, Romania, Russia (Kaliningrad, Krasnodar), Serbia, UK.
Notes. Until recently, the species was known only from the North Caucasus (e.g., Grichanov 2007). Drake (2021) changed the species concept of *S. monile*. As a result, the latter species records from many countries of Europe (eastward to Urals), from North Africa and Turkey must be confirmed, as they may belong to *S. submonilis*.

Genus ***Teuchophorus*** Loew, 1857

40. ***Teuchophorus spinigerellus*** (Zetterstedt, 1843)

Material examined. 1♂, KKNP, Rybachiy vil., lake shore, 55.16°N, 20.85°E, 13.07.2023.

Distribution. Type locality: Suecia meridionali & media, Scania ad Lund, Ostrogothia ad Wadstena, Dania [Sweden, Denmark]. West-Palaearctic temperate species.

Conclusion

As a result of my study, 24 Dolichopodidae species are recorded from the Kurshskaya Kosa National Park and 44 species from the Kaliningrad Region. Most of the collected species are common and widespread across Europe or even across Palaearctic Region. The rare species *Gymnopternus silvestris* is found in Russia and Baltic Region for the first time. *Xanthochlorus galbanus* is known in Russia from only Kaliningrad Region (Grichanov 2011). The latter is insufficiently studied, and new species records are anticipated here despite its small-sized territory (15,125 sq. km). In comparison, the dolichopodid fauna of Poland (322,575 sq. km) contains 273 species (Zatwarnicki 2001), of the Leningrad Region and Saint Petersburg (85,347 sq. km) — 228 species (Ovsyannikova, Grichanov 2022), of Latvia (64,589 sq. km) — 142 species (Vilks 2003), and fauna of Lithuania (65,300 sq. km) — 81 species (Pakalniškis 2006).

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