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An annotated checklist of Dolichopodidae (Diptera) species from Sakhalin, Russia, with new records

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Abstract. The results of long-term studies of the dolichopodid fauna of Sakhalin Island by Russian authors are presented in the form of an annotated list of species for the first time. For this paper, originally published localities were checked, if they were referenced, and the exact locations of some collection points were established according to the museum collections. The latter material is included into the checklist. In addition, an unpublished material of Dolichopodidae is included. New records for 36 species, including 9 species new for the Sakhalin, are presented. *Campsicnemus picticornis* and *C. scambus*, *Diaphorus nigricans*, *Dolichopus bisetulatus*, *Hydrophorus brunnicosus*, *Nepalomyia tatjanae*, *Rhaphium firsovi*, *R. tridactylum* and *Syntormon monochaetus* are reported from Sakhalin for the first time. Sixteen species are excluded from the fauna of the island. In total, 72 species from 18 genera of long-legged flies are listed.

Keywords: Dolichopodidae, Russia, Sakhalin Island, checklist, new records.

Аннотированный список видов Dolichopodidae (Diptera) Сахалина и новые указания

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Аннотация. Впервые представлены в виде аннотированного списка видов итоги многолетних исследований фауны мух-зеленушек Сахалина российскими авторами. Для данной статьи были проверены первоначально опубликованные местонахождения и было установлено точное местоположение некоторых пунктов сбора в соответствии с музейными этикетками. Этот материал включен в список. Кроме того, включен неопубликованный материал по Dolichopodidae. Всего приведены новые указания для 36 видов мух-зеленушек. *Campsicnemus picticornis* и *C. scambus*, *Diaphorus nigricans*, *Dolichopus bisetulatus*, *Hydrophorus brunnicosus*, *Nepalomyia tatjanae*, *Rhaphium firsovi*, *R. tridactylum* и *Syntormon monochaetus* впервые обнаружены на Сахалине. Шестнадцать видов исключены из островной фауны. Всего перечислено 72 вида из 18 родов мух-зеленушек.

Ключевые слова: Dolichopodidae, Россия, Сахалин, список, новые указания.

Introduction

Almost the whole territory of the Sakhalin Island, the largest island of Russia, is covered with dense forests, mostly coniferous (Krestov et al. 2004). It is located mainly in the Sakhalin Island Taiga ecoregion (within the Taiga biome) and in the Hokkaido Deciduous Forests ecoregion (within the Temperate Broadleaf and Mixed Forests biome) in the south (Ecoregions 2017).

The diversity of the natural and climatic conditions of Sakhalin Island forms rich species diversity of entomofauna. Monsoon climate and a dense river network favour the habitation of Dolichopodidae flies preferring hydrophilic plant communities. Proximity of the Asian mainland facilitates the penetration of continental fauna. Closeness of Sakhalin to the Japanese archipelago and their connection about 20,000 years ago suggest the presence of southern Palaearctic species on the island.

The long-legged flies were usually not a group of special interest of entomologists, who visited Sakhalin. A small but valuable collection of Dr. N. A. Violovitsh (the Zoological Institute of the Russian Academy of Sciences, Saint Petersburg; ZIN) in 1955 and 1956 was used by famous dipterologist Prof. O. P. Negrobov (Voronezh State University, Voronezh, Russia; VSU) for the description of the first species known from Sakhalin (Negrobov 1975). Subsequently, targeted collection of Dolichopodidae material was made there (Grichanov et al. 2021) by Drs. V. D. Logvinovsky, V. V. Zlobin and I. V. Shamshev. Based on these materials, about 30 new species were described from Sakhalin published by O. P. Negrobov and his disciples. 27 species were recorded from Sakhalin by Negrobov (1991) without material provided. No material for 16 of these species was found in the VSU collection. They are excluded from the fauna of the island.

Negrobov, Satô (2006) counted, but not listed, 48 species discovered on the Sakhalin. However, Selivanova et al. (2020) listed 13 species and 2 subspecies as endemics of the island, and also 16 additional species reported there (original material was not provided). *Argyra takagii* Negrobov et Satô, 2009 from that paper was in error considered endemic of the island. *Rhaphium curvitarsus* Negrobov, Maslova et Selivanova, 2020 was not included into that list. The unpublished material from VSU and ZIN collections is included into the checklist below.

The information on the global distribution for each collected species follows Negrobov et al. (2013), Yang et al. (2018) and Grichanov (2021). The type localities are provided and the country lists are arranged alphabetically. The words "region" (oblast) and "territory" (kray) are omitted from the list of Russian regions. The distribution is outlined in general for Holarctic and Trans-Palaearctic species. References dealing with Sakhalin only are given after a species name.

Checklist and new records

In total, 72 species are recorded now from the Sakhalin Island that apparently make up about 50% of the actual Dolichopodidae fauna of this territory.

Genus ***Argyra*** Macquart, 1834

1. ***Argyra arrogans*** Takagi, 1960

References. Selivanova et al. 2009: 304.

Distribution. Type locality: Japan, Hokkaido, Aizan-Kei. Palaearctic: Japan, Russia (Primorye, Sakhalin); Oriental: China.

2. ***Argyra igori*** Negrobov, Satô et Selivanova, 2012

References. Negrobov et al. 2012a: 2.

Distribution. Type locality: Russia, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near settlement Urozhainoe. Palaearctic: Japan, Russia (Primorye, Sakhalin).

3. ***Argyra superba*** Takagi, 1960

References. Selivanova et al. 2009: 304.

Material examined. 1♂, 1♀, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, Shamshev, 7.08.1982.

Distribution. Type locality: Japan, Hokkaido, Azian-Kei, Nukabira, Sapporo, Kamidaki, Toyama-ken, Honshu. Palaearctic: Japan, Russia (Sakhalin).

4. ***Argyra takagii*** Negrobov et Satô, 2009
References. Negrobov, Satô 2009: 73.
Distribution. Type locality: Russia, Sakhalin Is., Anivsky District, Urozhainoe. Palaearctic: Japan (Hokkaido), Russia (Sakhalin, Taimyria).

5. ***Argyra zlobini*** Negrobov, Satô et Selivanova, 2012
References. Negrobov et al. 2012a: 4.
Distribution. Russia: Sakhalin Is., Anivsky District, right bank of Lyutoga River. Palaearctic: Japan, Russia (Primorye, Sakhalin).

Genus ***Campsicnemus*** Haliday, 1851

6. ***Campsicnemus argyropterus*** Negrobov et Shamshev, 1985
References. Negrobov, Shamshev 1985: 74.
Distribution. Type locality: Russia: Sakhalin Is., Yuzhno-Sakhalinsk. Palaearctic: Russia (Khabarovsk, Sakhalin).

7. ***Campsicnemus picticornis*** (Zetterstedt, 1843)
Material examined. 15♂, Sakhalin Is., 38 km W Pyatirechye, Shamshev, 28.07.1982.
Distribution. Type localities: Sweden: "Suecia meridionali et media, in Scania ad Raften; Ostrogothia ad Larketorp; Haradshammar; Holmiam." Trans-Palaearctic species. First record from Sakhalin.

8. ***Campsicnemus scambus*** (Fallén, 1823)
Material examined. 2♂, 4♀, Sakhalin, near Yuzhno-Sakhalinsk, 29.09.1956, Violovich; 1♀, Sakhalin Is., 44 km SW Yuzhno-Sakhalinsk, near Taranay, 4.08.1982, Shamshev; 1♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 1♂, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev; 2♂, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, 7.08.1982, Shamshev.
Distribution. Type locality: Sweden, Esperod. Trans-Palaearctic species. First record from Sakhalin.

Genus ***Chrysotimus*** Loew, 1857

9. ***Chrysotimus spinuliferus*** Negrobov, 1978
References. Negrobov 1978: 1378.
Distribution. Type locality: Russia, Primorye, Yakovlevka. Palaearctic: Russia (Primorye, Sakhalin, Yakutia).

Genus ***Chrysotus*** Meigen, 1824

10. ***Chrysotus cilipes*** Meigen, 1824
References. Maslova et al. 2011b: 465.
Material examined. 1♀, Sakhalin Is., Anivsky District, riverside Lyutoga, Zlobin, 14.07.1973; 1♂, Sakhalin Is., Anivsky District, 38 km, Logvinovskii, 17.07.1973; 1♂, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, Zlobin, 1.08.1973; 1♂, Sakhalin Is., Anivsky District, Urozhainoe, Zlobin, 19.07.1978.
Distribution. Type locality: Germany, Hamburg. Trans-Palaearctic species.

11. ***Chrysotus cilitibia*** Maslova et Negrobov, 2015
References. Maslova, Negrobov 2015: 201.
Distribution. Type locality: Russia: Sakhalin Is., Yuzhno-Sakhalinsk env. Palaearctic: Russia (Sakhalin, Kuriles: Kunashir).

12. ***Chrysotus kumazawai*** Negrobov, Maslova et Fursov, 2015
References. Negrobov et al. 2015: 11.
Distribution. Type locality: Japan: Honshu, Ibaraki Pref., Tsukuba, Kannondai, Yatabe. Palaearctic: Japan (Honshu Island), Russia (Sakhalin).

13. ***Chrysotus logvinovskii*** Negrobov et Tsurikov, 2000
References. Negrobov et al. 2000: 231.
Distribution. Type locality: Sakhalin Is., Anivsky District. Palaearctic: Russia (Sakhalin).

14. ***Chrysotus nudisetus*** Negrobov et Maslova, 1995
References. Negrobov, Maslova 1995: 460.
Distribution. Type locality: Sakhalin Is., Anivsky District. Palaearctic: Russia (Chukotka, Khabarovsk, Magadan, Sakhalin, Primorye, Yakutia), Japan.

15. ***Chrysotus suavis*** Loew, 1857
References. Maslova et al. 2011b: 467.
Distribution. Type locality: Germany: "Coln"; Austria: "Neusiedler See in Ungarn." Trans-Palearctic species.

16. ***Chrysotus zlobiniani*** Negrobov et Maslova, 1995
= *Chrysotus zlobini* Negrobov, 2000
References. Negrobov, Maslova 1995: 465.
Distribution. Type locality: Sakhalin, Anivsky District, Lyutoga River. Palaearctic: Russia (Sakhalin, Yakutia).

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Genus ***Diaphorus*** Meigen, 1824

17. ***Diaphorus nigricans*** Meigen, 1824
Material examined. 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, Shamshev, 13.07.1982.
Distribution. Type locality: "Germany." Afrotropical, Nearctic, Oriental, Palaearctic and Neotropical Regions. First record from Sakhalin.

18. ***Diaphorus zlobini*** Negrobov et Duchanina, 1987
References. Negrobov, Duchanina 1987: 35.
Distribution. Type locality: Russia: Sakhalin, Anivsky Distr., Urozhainoe. Palaearctic: Russia (Sakhalin).

Genus ***Diostracus*** Loew, 1861

19. ***Diostracus naegelei*** Negrobov, 1978
References. Negrobov 1978: 412.
Material examined. 1♂, Sakhalin Is., 16 km W Yuzhno-Sakhalinsk, near Chekhov Mt., 6.08.1982, Shamshev.
Distribution. Type locality: Russia: Sakhalin, Susunajaki Range. Palaearctic: Russia (Sakhalin).

Genus ***Dolichopus*** Latreille, 1796

20. ***Dolichopus amurensis*** Stackelberg, 1930
References. Negrobov 1991: 97 (no material provided); Maslova et al. 2011a: 91.
Distribution. Type locality: Russia: "Amurlande: Banjbo, Port-Ajan" (= Khabarovsky Territory, Ayan, 56°45′N, 138°16′E). Palaearctic: Mongolia, Russia (Altai, Irkutsk, Khabarovsk, Krasnoyarsk, Primorye, Sakhalin).

21. ***Dolichopus bigeniculatus*** Parent, 1926
References. Negrobov 1991: 99 (no material provided).
Material examined. 1♀, Sakhalin Is., near Yuzhno-Sakhalinsk, 27.06.1956, Violovich; 3♀, Sakhalin Is., Anivsky District, Urozhainoe, 21, 27.06.1973, Logvinovskii; 1♂, Sakhalin Is., 16 km W Yuzhno-Sakhalinsk, near Chekhov Mt., 19.08.1973, Logvinovskii; 1♀, Sakhalin Is., 16 km W Yuzhno-Sakhalinsk, near Chekhov Mt., 15.07.1973, Zlobin; 1♀, Sakhalin Is., Susunaisky mountain range, 9.09.1973, Zlobin; 1♀, Sakhalin Is., 16 km W Yuzhno-Sakhalinsk, near Chekhov Mt., 7.09.1974, Zlobin; 1♀, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 1.08.1973, Zlobin; 1♀, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 15.08.1973, Zlobin; 3♀, Sakhalin Is., near Novo-Aleksandrovsk, 26.07.1974, Zlobin; 1♀, Sakhalin Is., 25 km SW Yuzhno-Sakhalinsk, riverside Lyutoga, 1.08.1982, Shamshev; 4♀, Sakhalin Is., 9 km S Nevelsk, 23.07.1982, Shamshev; 3♀, Sakhalin Is., near Yuzhno-Sakhalinsk, 5–6.07.1982, Shamshev; 22♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 11♀, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev.
Distribution. Type locality: China, Shanghai, "Zi-Ka-Wei" (= Xujiahui). Palaearctic: China (Beijing, Henan, Shaanxi, Shandong), Japan, Russia (Khabarovsk, Primorye, Sakhalin); Oriental: China (Anhui, Jiangsu, Sichuan, Zhejiang). First reliable record from Sakhalin.

22. ***Dolichopus bilamellatus*** Parent, 1929
References. Negrobov 1979: 647 (no material provided); Negrobov 1991: 99 (no material provided).
Material examined. 12♂, Sakhalin Is., near Novo-Aleksandrovsk, 7.06.1973, Logvinovskii.
Distribution. Type locality: Russia, "Province d'Amour." Palaearctic: Russia (Khabarovsk, Primorye, Sakhalin). First reliable record from Sakhalin.

23. ***Dolichopus bisetulatus*** Negrobov, 1977
Material examined. 1♂, Sakhalin Is., near Novo-Aleksandrovsk, 22.07.1973, Zlobin.
Distribution. Type locality: Russia: Primorye, Suputinski Reserve, Mokraya Pad. Palaearctic: Russia (Primorye). First record from Sakhalin.

24. ***Dolichopus calceatus*** Parent, 1927
References. Negrobov 1991: 99 (no material provided).
Material examined. 1♂, 1♀, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, 10.07.1982, Shamshev; 2♂, 2♀, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev; 6♂, 3♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 3♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25.07.1982, Shamshev; 2♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 6, 7.07.1982, Shamshev; 1♀, Sakhalin Is., 9 km S Nevelsk, 23.07.1982,

Shamshev; 6♂, 2♀, Sakhalin Is., 38 km E Aleksandrovsk-Sakhalinsky, near Tymovsky, 17–19.07.1982, Shamshev.

Distribution. Type locality: Russia, Zabaikalye: "Transbaikale; Pjetschanka (= Peschanka), b. Tschita." Palaearctic: China, Kazakhstan, Russia (Altai Rep., Amur Region, Buryatia, Irkutsk, Kamchatka, Khabarovsk, Primorye, Sakhalin, Tomsk, Yakutia, Zabaikalye). First reliable record from Sakhalin.

25. ***Dolichopus discifer*** Stannius, 1831

References. Negrobov, 1991: 109 (no material provided; as *Dolichopus nigricornis* Becker, 1917, nec Meigen, 1924).

Material examined. 1♂, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 13.08.1973, Zlobin; 2♂, Sakhalin Is., 38 km E Aleksandrovsk-Sakhalinsky, near Tymovsky, 17–19.07.1982, Shamshev; 1♂, Sakhalin Is., 44 km SW Yuzhno-Sakhalinsk, near Taranay 4.08.1982, Shamshev; 3♂, 1♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25–27.07.1982, Shamshev; 2♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev.

Distribution. Type locality: Germany. Holarctic species known also from Chukotka, Kamchatka, Kuriles and Sakhalin Island. First reliable record from Sakhalin.

26. ***Dolichopus gubernator*** Mik, 1878

References. Negrobov 1991: 104 (no material provided).

Material examined. 1♂, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, Shamshev, 10.07.1982; 2♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25–26.07.1982, Shamshev; 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, Shamshev, 13.07.1982.

Distribution. Type locality: Austria: "bei Hammern in Mühlviertel in Oberösterreich." Palaearctic: Austria, Estonia, Finland, Latvia, Poland; Russia (Karelia, Khabarovsk, Kamchatka, Leningrad, Sakhalin, Kuriles). First reliable record from Sakhalin.

27. ***Dolichopus linearis*** Meigen, 1824

References. Negrobov 1991: 106 (no material provided).

Material examined. 2♂, 1♀, Sakhalin Is., near Yuzhno-Sakhalinsk, 10–12.07.1956, Violovich; 1♀, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 1.08.1973, Zlobin; 3♂, 2♀, Sakhalin Is., near Novo-Aleksandrovsk, 22.07.1973, Zlobin; 4♂, 8♀, Sakhalin Is., near Novo-Aleksandrovsk, 8, 22, 25–26.07.1973, Logvinovskii; 2♂, 2♀, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 1–8.08.1973, Logvinovskii; 2♂, Sakhalin Is., Anivsky District, riverside Lyutoga, 13.07.1973, Logvinovskii; 12♂, Sakhalin Is., near Novo-Aleksandrovsk, Zlobin, 6.09.1978; 3♂, Sakhalin Is., near Novo-Aleksandrovsk, Zlobin, 14.07.1978; 1♂, Sakhalin Is., Anivsky District, riverside Lyutoga, 14.07.1973, Zlobin; 3♂, Sakhalin Is., Anivsky District, Urozhainoe, 19.07.1973, Zlobin; 4♂, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev; 14♂, 15♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 2♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 11.08.1982, Shamshev; 1♂, Sakhalin Is., 9 km S Nevelsk, 23.07.1982, Shamshev.

Distribution. Type locality: not given (Germany?). Trans-Palaearctic species. First reliable record from Sakhalin.

28. ***Dolichopus longicornis*** Stannius, 1831

References. Negrobov 1991: 106 (no material provided).

Material examined. 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 1♂, Sakhalin Is., Anivsky District, 38 km, Logvinovskii, 17.07.1973.

Distribution. Type locality: not given (Germany: Hamburg?, Breslau?). Trans-Palaearctic species. Nearctic: Canada (Yukon), USA (Alaska). First reliable record from Sakhalin.

29. ***Dolichopus longicostalis*** Negrobov et Barkalov, 1978

References. Negrobov, Barkalov 1978: 154.

Material examined. 2♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev.

Distribution. Type locality: Russia: Sakhalin Is., Anivsky District, Urozhainoe. Palaearctic: Russia (Sakhalin).

30. ***Dolichopus microstigma*** Stackelberg, 1930

References. Negrobov et al. 2018: 268.

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Material examined. 1♂, Sakhalin Is., Terpeniya Peninsula, Kotilovo, 70 km from Cape Terpeniya, 27.07.1956, Violovich.
Type locality: Russia, Primorye, Sedanka. Palaearctic: Mongolia, Russia (Primorye, Sakhalin).

31. ***Dolichopus nigricercus*** Negrobov, Selivanova et Maslova, 2018
References. Negrobov et al. 2018: 268.
Distribution. Type locality: Russia: Sakhalin Is., 38 km E Aleksandrovsk, vil. Tymovsky. Palearctic: Russia (Magadan, Kamchatka, Primorye, Sakhalin).

32. ***Dolichopus nitidus*** Fallén, 1823
References. Negrobov 1991: 109 (no material provided).
Material examined. 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 10.07.1956, Violovich; 1♂, Sakhalin Is., Anivsky District, riverside Lyutoga, 8.08.1973, Logvinovskii; 1♂, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 27.07.1973, Logvinovskii; 1♂, Sakhalin Is., near Novo-Aleksandrovsk, 17.07.1974, Zlobin; 1♀ Sakhalin Is., 44 km SW Yuzhno-Sakhalinsk, near Taranay, 4.08.1982, Shamshev; 1♀, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, 10.07.1982, Shamshev.
Distribution. Type locality: not given (Sweden?). Trans-Palaearctic species; Oriental: China (Shanghai). First reliable record from Sakhalin.

33. ***Dolichopus plumipes*** (Scopoli, 1763)
References. Negrobov, Rodionova 2004: 194.
Distribution. Type locality: Slovenia, "Carnioliae indigena." Mainly Holarctic species. Neotropical: Mexico; Oriental: India (Kashmir).

34. ***Dolichopus ptenopedilus*** Meuffels, 1982
References. Maslova et al. 2012: 76.
Material examined. 1♂, Sakhalin Is., Kholmsk, 20.06.1966, Loktin; 1♂, Sakhalin Is., Starodubskoe, 3.08.1991, Blagoderov.
Distribution. Type locality: Japan, Hokkaido, Sounkyo. Palaearctic: Japan, Mongolia, Russia (Amur Region, Kamchatka, Khabarovsk, Krasnoyarsk, Magadan, Primorye, Sakhalin, Kuriles, Zabaikalye).

35. ***Dolichopus ringdahli*** Stackelberg, 1930
References. Negrobov 1991: 113 (no material provided).
Material examined. 2♂, Sakhalin Is., Starodubskoe, 24.07.1973, Logvinovskii; 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25.07.1982, Shamshev.
Distribution. Type locality: Russia, Primorye, Tigrovaya. Palaearctic: China (Jilin), Russia (Buryatia, Murmansk, Primorye, Sakhalin, Yakutia). First reliable record from Sakhalin.

36. ***Dolichopus shamshevi*** Negrobov, Selivanova et Maslova, 2014
References. Negrobov et al. 2014: 222.
Distribution. Type locality: Russia, Kamchatka, Petropavlovsk-Kamchatsky env., Nagornyi. Palaearctic: Russia (Amur Region, Kamchatka, Khabarovsk, Krasnoyarsk, Magadan, Primorye, Sakhalin, Zabaikalye).

37. ***Dolichopus simius*** Parent, 1927
References. Negrobov 1979: 649 (no material provided); Negrobov 1991: 115 (no material provided); Kornev et al. 2013: 150.
Material examined. 1♀, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, 7.08.1982, Shamshev.
Distribution. Type locality: Russia, Irkutsk Region: "Siberia: environs d'Irkutsk." Palaearctic: China (Heilongjiang, Inner Mongolia), Mongolia, Russia (Altai Rep., Bashkortostan, Amur Region, Buryatia, Commander Is., Irkutsk, Kamchatka, Khabarovsk, Khakassia, Krasnoyarsk, Kuriles, Magadan, Moscow, Novosibirsk, Primorye, Sakhalin, Sverdlovsk, Tomsk, Yakutia, Zabaikalye).

38. ***Dolichopus sinuatus*** Negrobov et Barkalov, 1978
References. Negrobov, Barkalov 1978: 159; Negrobov et al. 2010: 523.
Distribution. Type locality: Russia: Sakhalin, Novo-Aleksandrovsk. Palaearctic: Russia (Amur Region, Kuriles, Sakhalin).

39. ***Dolichopus spinuliformis*** Maslova, Negrobov et Selivanova, 2012
References. Maslova et al. 2012: 82.
Material examined. 1♂, [Sakhalin, Novo-Aleksandrovsk,] "Saghalien," Central Experimental Station, 16.07.1933, [in Japanese] (ZIN ex coll. FCBV).

Distribution. Type locality: Russia: Sakhalin Island, 32 km E Aleksandrovsk, vil. Tymovsky. Palaearctic: Russia (Sakhalin).

40. ***Dolichopus storozhenkoi*** Negrobov, Selivanova et Maslova, 2016
References. Negrobov et al. 2016: 34.
Material examined. 1♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 1♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25.07.1982, Shamshev.
Distribution. Type locality: Sakhalin Region, Sakhalin Is., 25 km SW Yuzhno-Sakhalinsk, Lyutoga River. Palaearctic: Russia (Sakhalin).

41. ***Dolichopus ussuriensis*** Stackelberg, 1930
References. Negrobov 1991: 118 (no material provided).
Material examined. 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 22.06.1956, Violovich; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 10.07.1956, Violovich; 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev.
Distribution. Type localities: Russia, Primorye: "Majkhe (= Shtykovo), near Shkotovo, Tigrovaya, Spassk-Yakovlevka, Ugodinza (= Pyatigorka) River." Palaearctic: Russia (Amur Region, Khabarovsk, Sakhalin, Primorye). First reliable record from Sakhalin.

42. ***Dolichopus vadimi*** Negrobov, Selivanova et Maslova, 2012
References. Negrobov et al. 2012: 308.
Distribution. Type locality: Russia: Sakhalin, 29 km SW of Yuzhno-Sakhalinsk, Urozhainoe. Palaearctic: Russia (Sakhalin).

43. ***Dolichopus verae*** Negrobov, 1977
References. Negrobov 1991: 118 (no material provided).
Material examined. 1♂, Sakhalin Is., near Novo-Aleksandrovsk, 22.07.1973, Zlobin; 3♂, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, 7.08.1982, Shamshev; 1♂, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev; 5♂, Sakhalin Is., 25 km SW Yuzhno-Sakhalinsk, riverside Lyutoga, 1.08.1982, Shamshev.
Distribution. Type locality: Russia: Kuril Is., Iturup, Yasnyi nr. Kurilsk. Palaearctic: Russia (Kuriles, Sakhalin). First reliable record from Sakhalin.

Genus ***Gymnopternus*** Loew, 1857

44. ***Gymnopternus aerosus*** (Fallén, 1823)
References. Negrobov, Rodionova 2004: 201.
Trans-Palaearctic species; Oriental: Taiwan.

Genus ***Hercostomus*** Loew, 1857

45. ***Hercostomus rivulorum*** Stackelberg, 1934
References. Nechai 2011: 108.
Distribution. Type locality: Russia: "Station Tigrovaya, Sutshan-Distr., Ussuri Gebiet." Russia (Kuriles, Primorye, Sakhalin).

Genus ***Hydrophorus*** Fallén, 1823

46. ***Hydrophorus brunnicosus*** Loew, 1857
Material examined. 5♂, 2♀, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 13.08.1973, Zlobin.
Distribution. Type locality: Poland: Poznan. Palaearctic: Austria, Belarus, Estonia, Finland, Poland, Russia (Crimea, Irkutsk, Krasnoyarsk, Leningrad, Lipetsk, Mordovia, Moscow, Novgorod, Novosibirsk, Orenburg, Ryazan, NW Siberia, Voronezh, ?Yakutia, Yaroslavl), Sweden. First record from Sakhalin.

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

47. ***Medetera sakhalinensis*** Negrobov et Naglis, 2015
References. Negrobov, Naglis 2015: 387.
Distribution. Type locality: Russia, Sakhalin, 20 km S Yuzhno-Sakhalinsk, Dachnoye. Palaearctic: Russia (Sakhalin).

Genus ***Nepalomyia*** Hollis, 1964

48. ***Nepalomyia tatjanae*** (Negrobov, 1984)
Material examined. 2♂, 9♀, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev; 1♂, 2♀, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 6.07.1982, Shamshev.
Distribution. Type locality: Russia: Primorye, Kedrovaya Pad Reserve. Palaearctic: Russia (Primorye). First record from Sakhalin.

Genus ***Neurigona*** Rondani, 1856

49. ***Neurigona davshinica*** Negrobov, 1987
References. Negrobov 1987: 408.

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Distribution. Type locality: Russia: Barguzin Reserve, Davshe. Palaearctic: Russia (Buryatia, Sakhalin).

50. ***Neurigona kasparyani*** Negrobov, 1987
References. Negrobov 1987: 412.
Distribution. Type locality: Russia: Sakhalin Is., 45 km N Yuzhno-Sakhalinsk, near Bykov. Palaearctic: Russia (Kuriles, Sakhalin), Japan.

51. ***Neurigona pullata*** Negrobov et Fursov, 1988
References. Negrobov, Fursov 1988: 407.
Distribution. Type locality: Russia: Primorye, Kedrovaya Pad Reserve. Palaearctic: Russia (Amur Region, Primorye, Sakhalin).

Genus ***Rhaphium*** Meigen, 1803

52. ***Rhaphium albifrons*** Zetterstedt, 1843
References. Maslova et al. 2020: 140 (Moneron Is., Sakhalin Is.); Negrobov et al., 2020c: 90 (Moneron Is.).
Material examined. 1♂, Sakhalin Is., Anivsky District, riverside Lyutoga, 13.07.1973, Logvinovskii; 1♂, Sakhalin Is., Anivsky District, riverside Lyutoga, 14.07.1973, Zlobin.
Distribution. Type locality: Norway: "Scandinavia boreali–Norvegia Gamaes Vaerdaliae." Trans-Palaearctic species.

53. ***Rhaphium boreale*** (Van Duzee, 1923)
References. Negrobov et al. 2020a: 51.
Material examined. 1♂, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev; 2♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 8♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25–27.07.1982, Shamshev; 2♂, Sakhalin Is., near Yuzhno-Sakhalinsk, Shamshev 5–7.07.1982; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 5.08.1982, Shamshev; 1♂, Sakhalin Is., 44 km SW Yuzhno-Sakhalinsk, near Taranay, 4.08.1982, Shamshev; 1♂, Sakhalin Is., 25 km SW Yuzhno-Sakhalinsk, riverside Lyutoga, 1.08.1982, Shamshev; 1♂, 1♀ (in copula), Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev.
Distribution. Type locality: USA: Alaska, Savonoski, Naknek Lake. Palaearctic: Korea, Russia (Altai Rep., Buryatia, Krasnoyarsk, Primorye); Nearctic: USA (Alaska).

54. ***Rhaphium curvitarsus*** Negrobov, Maslova et Selivanova, 2020
References. Negrobov et al. 2020b: 22.
Distribution. Type locality: Russia: Sakhalin, 41 km N Yuzhno-Sakhalinsk, village Pokrovka. Palaearctic: Russia (Sakhalin).

55. ***Rhaphium discolor*** Zetterstedt, 1838
References. Negrobov et al. 2020a: 52.
Material examined. 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, Shamshev 11.08.1982; 3♂, Sakhalin Is., 44 km SW Yuzhno-Sakhalinsk, near Taranay, 4.08.1982, Shamshev.
Distribution. Trans-Palaearctic species; Nearctic: USA (Alaska).

56. ***Rhaphium dispar*** Coquillett, 1898
References. Negrobov et al. 2020a: 52.
Material examined. 2♂, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 15.08.1973, Zlobin; 1♂, Sakhalin Is., near Novo-Aleksandrovsk, 7.06.1973, Logvinovskii; 1♂, Sakhalin Is., Anivsky District, Urozhainoe, 20.06.1973, Logvinovskii; 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, 13.07.1982, Shamshev; 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25.07.1982, Shamshev; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 5.08.1982, Shamshev.
Distribution. Type locality: Japan. Palaearctic: Japan, Russia (Kamchatka, Magadan, Primorye, Sakhalin); Oriental: China (Guizhou, Sichuan, Taiwan, Zhejiang).

57. ***Rhaphium firsovi*** Stackelberg et Negrobov, 1976
Material examined. 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Urozhainoe, Shamshev, 13.07.1982
Distribution. Distribution. Type locality: Russia: Primorye, Suchansky (= Partizansky) District, Tigrovaya. Palaearctic: Russia (Primorye). Nearctic: USA (Alaska). First record from Sakhalin.

58. ***Rhaphium flavilabre*** Negrobov, 1979
References. Negrobov et al. 2020a: 53.
Material examined. 1♂, Sakhalin Is., Anivsky District, 38 km, 17.07.1973, Logvinovskii; 1♂, Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe, 7.08.1982, Shamshev; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk,

6.07.1982, Shamshev; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 7.08.1982, Shamshev.
Distribution. Type locality: Primorye, Komarovo-Zapovednoe, Ussuriysky Nature Reserve. Palaearctic: Russia (Khabarovsk, Primorye, Sakhalin).

59. ***Rhaphium macalpini*** Negrobov, 1986
References. Negrobov 1986: 162.
Distribution. Palaearctic: Russia (Sakhalin); Nearctic: Canada.

60. ***Rhaphium nasutum*** (Fallén, 1823)
References. Negrobov et al. 2020a: 54.
Distribution. Holarctic species.

61. ***Rhaphium neolatifacies*** Yang et Wang, 2006
References. Negrobov 1986: 165.
Distribution. Type locality: Russia: Sakhalin, 41 km N Yuzhno-Sakhalinsk, Pokrovka. Palaearctic: Russia (Sakhalin).

62. ***Rhaphium patellitarse*** (Becker, 1900)
References. Negrobov et al. 2020a: 55.
Distribution. Type locality: Russia, Khantaika [Taimyr]. Palaearctic: Russia (Altai Rep., Buryatia, Magadan, Sakhalin, Taimyr, Ural, Yakutia, Yamalia).

63. ***Rhaphium richterae*** Negrobov, 1977
References. Negrobov et al. 2020a: 55.
Material examined. 1♂, Sakhalin Is., Anivsky District, Urozhainoe, 20.06.1973, Logvinovskii; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 3.06.1973, Logvinovskii.
Distribution. Type locality: Russia, Kuril Is., Kunashir, Tretjakovo. Palaearctic: Russia (Kuriles, Sakhalin).

64. ***Rhaphium sachalinense*** Negrobov, 1979
References. Negrobov 1979: 524.
Distribution. Type locality: Russia: Sakhalin: Yuzhno-Sakhalinsk. Palaearctic: Russia (Sakhalin).

65. ***Rhaphium terminale igorjani*** Negrobov, 1986
References. Negrobov 1986: 165.
Distribution. Type locality: Russia: Sakhalin, Aleksandrovsk-Sakhalinsky, Tymovsky. Palaearctic: Russia (Sakhalin).

66. ***Rhaphium tridactylum*** (Frey, 1915)
Material examined. 1♂, Sakhalin Is., Anivsky District, Urozhainoe, 21.06.1973, Logvinovskii.
Distribution. Palaearctic: Finland, Mongolia, Russia (Murmansk, Kamchatka, Khabarovsk, Taimyr), Sweden. First record from Sakhalin.

Genus ***Sciapus*** Zeller, 1842

67. ***Sciapus paradoxus sachalinensis*** Negrobov et Shamshev, 1986
References. Negrobov, Shamshev 1986: 20.
Distribution. Type locality: Russia: Sakhalin Is., 50 km NE Yuzhno-Sakhalinsk, near Starodubskoe. Palaearctic: Russia (Sakhalin).

Genus ***Syntormon*** Loew, 1857

68. ***Syntormon monochaetus*** Negrobov, 1975
Material examined. 1♀, Sakhalin Is., near Yuzhno-Sakhalinsk, Violovich, 23 May 1956; 1♀, Sakhalin Is., Anivsky District, riverside Lyutoga, Logvinovskii, 8.08.1973; 1♂, 6♀, Sakhalin Is., 16 km W Yuzhno-Sakhalinsk, near Chekhov Mt., Logvinovskii, 24.08.1973; 2♀, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, Zlobin, 13.08.1973; 1♂, 3♀, Sakhalin Is., near Novo-Aleksandrovsk, Zlobin, 7.08.1973; 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, Shamshev, 25.07.1982
Distribution. Palaearctic: Japan, Russia (Buryatia, Khabarovsk, Primorye). First record from Sakhalin.

69. ***Syntormon pseudopalmarae*** Negrobov et Shamshev, 1985
References. Negrobov, Shamshev 1985: 75.
Distribution. Type locality: Russia, Sakhalin Is., Yuzhno-Sakhalinsk. Palaearctic: Russia (Sakhalin).

70. ***Syntormon violovitshi*** Negrobov, 1975
References. Negrobov 1975: 663.
Material examined. 1♀, Sakhalin Is., Yuzhno-Sakhalinsk, 18.06.1955, Violovich; 1♂, Moneron Is., Violovich, 22.08.1956; 2♀, Sakhalin Is., Yuzhno-Sakhalinsk, 30.06.1957, Violovich; 1♀, Sakhalin Is., Yuzhno-Sakhalinsk, 5.07.1955, Violovich; 2♀, Sakhalin Is., near Yuzhno-Sakhalinsk, 10.07.1956, Violovich; 3♂, 2♀, Sakhalin Is., Anivsky District, Urozhainoe, 9–11.06.1973, Logvinovskii; 10♂, 9♀, Sakhalin Is., Anivsky District, Urozhainoe, 18–19.06.1973, Logvinovskii; 4♀, Sakhalin Is., Anivsky District, Urozhainoe, 27.06.1973, Logvinovskii; 2♂, 1♀, Sakhalin Is., Anivsky

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District, Urozhainoe, 13–18.07.1973, Logvinovskii; 19♂, 24♀, Sakhalin Is., Anivsky District, Urozhainoe, 20–24.06.1973, Logvinovskii; 1♂, Sakhalin Is., 16 km W Yuzhno-Sakhalinsk, near Chekhov Mt., 3.08.1973, Logvinovskii; 1♀, Sakhalin Is., Ogonki, 23.06.1973, Logvinovskii; 1♂, Sakhalin Is., near Yuzhno-Sakhalinsk, 8.06.1973, Logvinovskii; 1♀, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 6.07.1973, Logvinovskii; 1♂, Sakhalin Is., Anivsky District, riverside Lyutoga, 14.07.1973, Zlobin; 1♀, Sakhalin Is., Starodubskoe, 24.07.1973, Zlobin; 1♂, Sakhalin Is., Anivsky District, Urozhainoe, 07.1973, Zlobin; 5♂, Sakhalin Is., 8 km N Yuzhno-Sakhalinsk, 13.08.1973, Zlobin; 2♂, 1♀, Sakhalin Is., near Novo-Aleksandrovsk, 7.08.1973, Zlobin; 1♂, Sakhalin Is., near Novo-Aleksandrovsk, 22.07.1973, Zlobin; 1♀, Sakhalin Is., near Yuzhno-Sakhalinsk, 5.08.1982, Shamshev; 1♂, 14♀, Sakhalin Is., near Yuzhno-Sakhalinsk, 4.07.1982, Shamshev; 1♂, Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, near Dachnoye, 25.07.1982, Shamshev; 2♂, 1♀, Sakhalin Is., 38 km W Pyatirechye, 28.07.1982, Shamshev.
Distribution. Type locality: Russia: Petropavlovsk-Kamchatsky, Nagornyi. Palaearctic: Russia (Kamchatka, Sakhalin), Korea, Japan.

Genus ***Systenus*** Loew, 1857

71. ***Systenus sachalinensis*** Negrobov et Shamshev, 1985
References. Negrobov, Shamshev 1985: 77.
Distribution. Type locality: Russia: Sakhalin Is., 29 km SW Yuzhno-Sakhalinsk, Dachnoye. Palaearctic: Russia (Sakhalin).

Genus ***Tachytrechus*** Haliday, 1851

72. ***Tachytrechus rubzovi*** Negrobov, 1976
References. Negrobov, Shamshev 1985: 80.
Distribution. Type locality: China: "50 km from Mukden" [= Shenyang]. Palaearctic: China (Liaoning), Russia (Sakhalin).

SPECIES EXCLUDED FROM THE FAUNA OF SAKHALIN

Chrysotus femoratus Zetterstedt, 1843
Notes. The record of this species (Negrobov 1991: 72) without material provided may belong to one of the new species described later. No material was found in the VSU collection.

Diaphorus parenti Stackelberg, 1928
Notes. No material was found in the VSU collection for the record of this species from Sakhalin (Negrobov 1991: 70). The species is spread in mainland East Asian Palaearctic.

Dolichopus basalis Loew, 1859
Notes. This species was recorded from Sakhalin by Negrobov (1979: 647) without material provided. Maslova et al. (2012) noted that this record belongs to *Dolichopus spinuliformis*. *Dolichopus basalis* is widespread in mainland East Asian Palaearctic.

Dolichopus cilifemoratus Macquart, 1827
Notes. This species was recorded from Sakhalin by Negrobov (1991: 100) without material provided. No material was found in the VSU collection.

Dolichopus divisus Becker, 1917
Notes. This species was also recorded from Sakhalin by Negrobov (1991: 102) without material provided. No material was found in the VSU collection. The species is spread in mainland East Asian Palaearctic.

Dolichopus migrans Zetterstedt, 1843
Notes. This species was also recorded from Sakhalin by Negrobov (1991: 108) without material provided. No material was found in the VSU collection. This Trans-Palaearctic species can be found in Sakhalin.

Dolichopus notatus Staeger, 1842
Notes. This species was also recorded from Sakhalin by Negrobov (1991: 110) without material provided. No material was found in the VSU collection. This Trans-Palaearctic species can be found in Sakhalin.

Dolichopus pennatus Meigen, 1824
Notes. This species was recorded from Sakhalin by Negrobov (1991: 111) without material provided. No material was found in the VSU collection.

Dolichopus plumitarsis Fallén, 1823
Notes. This species was recorded from Sakhalin by Negrobov (1979: 649, 1991: 112) without material provided. No material was found in the VSU collection. This Holarctic species can be found in Sakhalin.

Dolichopus portentosus Negrobov, 1973

Notes. This species was recorded from Sakhalin by Negrobov (1991: 112) without material provided. No material was found in the VSU collection. The species is spread in mainland East Asian Palaearctic.

Dolichopus robustus Stackelberg, 1928

Notes. This species was also recorded from Sakhalin by Negrobov (1991: 113) without material provided. No material was found in the VSU collection. The species is spread mainly in mainland East Asian Palaearctic.

Dolichopus sagittarius Loew, 1848

Notes. This species was also recorded from Sakhalin by Negrobov (1991: 114) without material provided. No material was found in the VSU collection. This East Palaearctic and West Nearctic species can be found in Sakhalin.

Dolichopus setimanus Smirnov, 1948

Notes. This species was recorded from Sakhalin by Negrobov (1991: 114) without material provided. Describing their new species, *Dolichopus storozhenkoi* (Negrobov et al. 2016), the authors used the material collected from Kuriles and Sakhalin and listed under *D. setimanus* (Selivanova et al. 2010). They noted that these records belong to *D. storozhenkoi*. So, *D. setimanus* is excluded from the list of Dolichopodidae recorded from Sakhalin. The latter species is spread in mainland East Asian Palaearctic.

Dolichopus sharovi Smirnov, 1948

Notes. This species was recorded from Sakhalin by Negrobov (1991: 115) without material provided. It is known from Kamchatka and Primorye and can be found in Sakhalin.

Dolichopus varians Smirnov, 1948

Notes. This species was recorded from Sakhalin by Negrobov (1991: 118) without material provided. It is known from Korea, Kamchatka, Khabarovsk Territory, Kuriles and Primorye and can be found in Sakhalin.

Dolichopus xanthopyga Stackelberg, 1930

Notes. This species was also recorded from Sakhalin by Negrobov (1991: 119) without material provided. No material was found in the VSU collection. The species is spread in mainland East Asian Palaearctic.

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