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New records of Dolichopodidae (Diptera) from Yakutia and Far East of Russia

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Abstract. New and old material of Dolichopodidae from Yakutia and Far Eastern regions of Russia has been recently identified, and includes 69 species. *Amblypsilopus bouvieri* (Parent, 1927) and *Dolichopus bayaticus* Negrobov, 1976 are found in Russia for the first time. *Dolichopus uralensis* Stackelberg, 1930 is recorded in the Far East, being probably the second reliable finding after description. *Dolichopus hilaris* Loew, 1862, *Neurigona grossa* Negrobov, 1987 and *Poecilobothrus flaveolus* (Negrobov et Chalaya, 1987) are new for the Kurile Islands. Six species are firstly recorded from the Amur Region, four from the Khabarovsk Territory, four from the Kamchatka Territory, two from Yakutia, one from Chukotka and one from the Jewish Region. This paper provides also distribution pattern for each collected species.

Keywords: Dolichopodidae, Russia, Far East, Yakutia, new records.

Новые находки Dolichopodidae (Diptera) в Якутии и на Дальнем Востоке России

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Аннотация. Определен новый и старый материал по Dolichopodidae из Якутии и Дальневосточного региона России, включающий 69 видов. *Amblypsilopus bouvieri* (Parent, 1927) и *Dolichopus bayaticus* Negrobov, 1976 обнаружены в России впервые. *Dolichopus uralensis* Stackelberg, 1930 впервые отмечен на Дальнем Востоке и является, вероятно, второй достоверной находкой после первоописания. *Dolichopus hilaris* Loew, 1862, *Neurigona grossa* Negrobov, 1987 и *Poecilobothrus flaveolus* (Negrobov et Chalaya, 1987) являются новыми для Курильских островов. Шесть видов впервые отмечены в Амурской области, четыре – в Хабаровском крае, четыре – в Камчатском крае, два – в Якутии, один – на Чукотке и один – в Еврейской автономной области. В статье также приведено общее распространение каждого собранного вида.

Ключевые слова: Dolichopodidae, Россия, Дальний Восток, Якутия, новые указания.

Introduction

Recently, the data on the known dolichopodid fauna of the main regions of the Palaearctic Far East were summarised in form of the checklists (Grichanov 2018; 2021; Grichanov et al. 2021; Grichanov, Bagachanova 2018; Grichanov, Selivanova 2021; 2022; Selivanova, Grichanov 2022). Additional unsorted dolichopodid material was received from colleagues and found in old Russian collections and was processed by authors of this paper. All specimens are pinned and will be deposited in the collections of the Zoological Institute of the Russian Academy of Sciences, Saint Petersburg (ZIN), Zoological Museums of Moscow State University (ZMMU), Voronezh State University (VSU), and Federal Scientific Centre of the East Asia Terrestrial Biodiversity, Vladivostok (FCBV). The information on the global distribution for each collected species follows Negrobov et al. (2013), Yang et al. (2018) and Grichanov (2022a). The words “Region” (oblast) and “Territory” (kray) are omitted from the list of Russian regions. Latitude and longitude geographic coordinates are given as either decimal degrees or sexagesimal units (degrees, minutes, and seconds), following original labels.

New records

Genus *Amblypsilopus* Bigot, 1888

1. *Amblypsilopus bouvieri* (Parent, 1927)

Material examined. 1♂, Jewish Region, Amurzet, 47.7°N, 131.1°E, 4–6.07.2013, Igor Melnik.

Distribution. Type locality: China: Jiangsu, Nanjing. Oriental: China (Fujian, Guizhou); Palaearctic: China (Beijing, Henan, Jiangsu, Shaanxi). First record from Russia.

Notes. The species is very close to *Amblypsilopus bouvieri*, described from environs of Nanjing (~32°N), differing in smaller size (3.4 vs. 4–4.5 mm), dorsoapical vs. apical arista, right vs. acute angle between M_{1+2} and M_1 (Parent 1927). Yang et al. (2011) described arista as dorsoapical in this species, while Parent (1927) described it as apical. The northernmost records of this species may belong to an undescribed species.

Genus *Campsicnemus* Haliday, 1851

2. *Campsicnemus picticornis* (Zetterstedt, 1843)

Material examined. 2♂, Amur Region, 34 km N Zeya town, 5, 9.07.1982, V. V. Zlobin.

Distribution. Type locality: Sweden: “Suecia meridionali et media, in Scania ad Raften; Ostrogothia ad Larketorp; Haradshammar; Holmiam.” Trans-Palaearctic temperate species.

Genus *Chrysotimus* Loew, 1857

3. *Chrysotimus spinuliferus* Negrobov, 1978

Material examined. 1♂, Kunashir Is., Kurilsky Nature Reserve, caldera of the Golovnin volcano, 43.841°N, 145.509°E, 4.07.2014, T. V. Galinskaya.

Distribution. Type locality: Russia, Primorye, Yakovlevka. Russia (Kuriles: Shikotan, Primorye, Sakhalin, Yakutia).

Genus *Chrysotus* Meigen, 1824

Notes. The East Palaearctic *Chrysotus* species are usually indistinguishable by females; therefore, some females collected are left unidentified.

4. *Chrysotus cilipes* Meigen, 1824

Material examined. 1♂, Khabarovsk Terr., Komsomolsky District, Udomi vil., 9.08.1976, Yu. D. Bodrova.

Distribution. Type locality: Germany, Hamburg. Trans-Palaearctic species.

Notes. This species was not included in the checklist of Khabarovsk Territory (Grichanov et al. 2021).

5. *Chrysotus komovi* Negrobov, Barkalov et Selivanova, 2014

Material examined. 20♂, 23♀, Chukotka, Pevek env., 69°42'N, 170°20'E, 21.06–4.07.2021, O. Khruleva.

Distribution. Type locality: Russia: Krasnoyarsky Krai, Taimyr Reserve, Ary-Mas field station, left bank of Novaya River. Palaearctic: Russia (Chukotka incl. Wrangel, Taimyria).

6. *Chrysotus neglectus* (Wiedemann, 1817)

Material examined. 2♂, Kamchatka, 12.07.1985, V. V. Zlobin; 1♂, 4♀, Kamchatka, 18 km NO Kozyrevsk, 21.07.1985, V. V. Zlobin; 3♂, 1♀, Russia, Kamchatka, Valley of Geysers, 12.08.1985, V. V. Zlobin; 1♂, Yakutia, Pokrovsk, 20.07.1986, V. N. Makarkin.

Distribution. Type locality: Russia: Sob River, Bolshoy Ural, Obdorsk [= Salekhard]. Trans-Palaeartic polyzonal species.

Genus *Dolichopus* Latreille, 1796

7. *Dolichopus albipalpus* Negrobov, 1973

Material examined. 1♂, Amur Region, Zeya vil., 11.06.1978, A. Shataikin.

Distribution. Type locality: Mongolia, “Central aimak, Zaisan, südlich von Berg Bogdoul.” Palaeartic: Russia (Primorye), Mongolia. First record from Amur Region.

8. *Dolichopus angustipennis* Kertész, 1901

Material examined. 2♀, Yakutsk environs, 22.05.1900, Olenin; 1♂, Yakutsk, 12.07.1927, Moskvina; 1♀, Yakutia, Zhigansk, swampy lake shore, 7.07.1973, K. B. Gorodkov; 1♂, 1♀, Yakutia, Mikhailovka, 60 km S Amga, 1.08.1984, Kaimuk; 1♂, Khantagai, 35 km from Yakutsk, 14.07.1985, A. K. Bagachanova; 2♂, Yakutia, Mikhailovka, 60 km S Amga, 21, 30.06.1986, A. K. Bagachanova.

Distribution. Type locality: Russia, Kazan. Palaeartic: Finland, Germany, Russia (Buryatia, Irkutsk, Kamchatka, Karelia, Tatarstan, Primorye, Yakutia), Georgia, Kazakhstan, China. Trans-Palaeartic boreal-montane species.

9. *Dolichopus apicalis* Zetterstedt, 1849

Material examined. 1♂, Russia, Kamchatka, Valley of Geysers, 12.08.1985, V. V. Zlobin.

Distribution. Type locality: Denmark: Sorø. Palaeartic: Belgium, Czechia, Denmark, Finland, Germany, Italy, Latvia, Poland, Russia (Buryatia, Kamchatka, Kursk, Leningrad, Magadan, Novgorod, Pskov, Saratov, Taimyria, Vologda, Voronezh), N Kazakhstan, Sweden.

10. *Dolichopus armillatus* Wahlberg, 1850

Material examined. 2♂, [Kamchatka Terr.], Koryakia, Apuka, Pakhachinsky Ridge, mountain tundra, 7.07.1959, K. B. Gorodkov; 1♂, 9♀, Magadan Region, 10 km NNE Spornoe, 21.07.1981, V. S. Lebedev; 4♀, Magadan Region, 30 km NE Spornoe, 26.06.1981, V. S. Lebedev; 3♂, 2♀, Magadan Region, 30 km NE Spornoe, 22.06.1981, V. S. Lebedev.

Distribution. Type locality: Quickjock, Lapponiae Lulensis, Mounioniska, Peljatschware, Koutokeino, Finmarkiae, Syvajarvi infra alpem Stuur Oive [Sweden and Finland]. Palaeartic: Czechia, Finland, Norway, Russia (Chukotka, Karelia, Murmansk, N Ural, Magadan), Sweden. First record from Kamchatka Territory.

11. *Dolichopus basalis* Loew, 1859

Material examined. 1♂, [Kamchatka Terr.], Koryakia, Apuka, Pakhachinsky Ridge, shrub tundra, 2.08.1959, K. B. Gorodkov; 1♂, Kamchatka, 18 km NO Kozyrevsk, 21.07.1985, V. V. Zlobin; 1♂, [Khabarovsk Terr.], Okhotsk airport, larch forest, 28.08.1987, K. B. Gorodkov.

Distribution. Type locality: “Chamar-Daban” Ridge (Siberia). Palaeartic: Korea, Russia (Buryatia, Irkutsk, Kamchatka, Khabarovsk, Kuriles, Yakutia, Zabaikalye). First record from Koryakia.

12. *Dolichopus bayaticus* Negrobov, 1976

Material examined. 3♂, Yakutia, Pokrovsk, 19, 20, 21.7.1986, V. N. Makarkin.

Distribution. Type locality: Mongolia: Ubsu-Nurskij aimak, 5 km N Khajargasa. Palaeartic: Mongolia. First record from Russia.

13. *Dolichopus bigeniculatus* Parent, 1926

Material examined. 8♂, 4♀, Khabarovsk, Bychikha, former pond at end of Yubileynaya street and its forested environs, 48.2917–2947°N, 134.8268–8290°E, 81–84 m a. s. l., 25.07.2020, O. Kosterin; 1♀, Khabarovsk, Bolshoy Ussuriysky Island, at oxbow lakes, 48.33–42°N, 134.80–90°E, 35–38 m a. s. l., 26.07.2020, O. Kosterin.

Distribution. Type locality: China, Shanghai, “Zi-Ka-Wei” (= Xujiahui). Palaeartic: China (Beijing, Henan, Shaanxi, Shandong), Japan, Russia (Khabarovsk, Kuriles, Primorye); Oriental: China (Anhui, Jiangsu, Sichuan, Zhejiang).

14. *Dolichopus bonsdorfi* Frey, 1951

Material examined. 1♂, Amur Region, North-West, Nizhnii Davan River [56.4°N, 121.9°E], 25.6.1976, R. G. Soboleva.

Distribution. Type locality: Finland: “westliche Lappland: Monio, in der Nahe des Fjeldes Olostunturi.” Palaeartic: Estonia, Finland, Russia (Altai Rep., Khabarovsk, Leningrad, Primorye), Sweden, China (Heilongjiang). First record from Amur Region.

Notes. This species was recorded from Primorye without definite locality (Negrobov 1991). It was not included in the checklist of Primorye (Grichanov, Selivanova 2021).

15. *Dolichopus discifer* Stannius, 1831

= *Dolichopus nigricornis* Becker, 1917 et auctt. (nec Meigen, 1824), misidentification.

Material examined. 4♂, 1♀, Magadan, 27–31.07.1963, A. Zhelokhovtsev; 1♂, Petropavlovsk-Kamchatsky environs, Nagornyi, 1.07.1970, O. P. Negrobov; 1♀, Petropavlovsk-Kamchatsky environs, Nagornyi, 7.07.1970, O. P. Negrobov; 3♂, 4♀, Petropavlovsk-Kamchatsky environs, Nagornyi, 9.07.1970, O. P. Negrobov; 1♂, Kamchatka, Krapivnoe environs, 24.06.1975, A. Barkalov; 2♂, 1♀, Kamchatka, Esso, Bystraya River bank, 27–29.06.1975, A. Barkalov; 1♂, 1♀, Petropavlovsk-Kamchatsky, 2.07.1975, A. Barkalov; 2♀, Kamchatka, Elizovo, 7.07.1975, A. Barkalov; 3♂, Magadan Region, Khasyn River, 12.07.1975, A. Barkalov; 3♂, 1♀, 50 km S Magadan, Ola River bank, 12–15.08.1975, A. Barkalov.

Distribution. Type locality: Germany. Holarctic species.

16. *Dolichopus eurypterus* Gerstäcker, 1864

Material examined. 1♂, Khabarovsk Terr., Komsomolsk-on-Amur, Silinsky Park, 13.09.1985, V. A. Mutin.

Distribution. Type locality: Germany, Berlin. Palaearctic: Belgium, Czechia, Germany, Hungary, Kazakhstan, Latvia, Poland, Russia (Khabarovsk, Primorye).

17. *Dolichopus fraterculus* Zetterstedt, 1843

Material examined. 18♂♀, [Kamchatka Terr.], Koryakia, Apuka environs, Apuka River mouth, lake shore on island, tundra, 7.08.1959, K. B. Gorodkov.

Distribution. Type locality: Sweden: Jemtlandia meridionali, Asarne. Holarctic boreal species. First record from Kamchatka Territory.

18. *Dolichopus galeatus* Loew, 1871

Material examined. 2♂, Khabarovsk Terr., Larta River, 3.08.1976, Yu. D. Bodrova; 1♀, Magadan Region, 30 km NE Spornoe, 26.06.1981, V. S. Lebedev; 2♂, 3♀, Magadan Region, 18 km S Orotukhan; 10.07.1981,

V. S. Lebedev; 1♀ Magadan Region, 10 km NW Seimchan, 31.07.1981, V.S. Lebedev; 2♂, Khabarovsk Terr., Lower Amur, Gorin River, Zolotoi Spring, 17.07.1986, V. A. Mutin; 1♂, Yakutia, Pokrovsk, 19.07.1986, V. N. Makarkin; 1♂, Yakutia, Verkhneyansky Distr., Yana River, Stolby environs, 26.07.2008, A. Ovchinnikov.

Distribution. Type locality: Russia, “Sibirien.” Palaearctic: China (Heilongjiang), Russia (Amur Region, Buryatia, Irkutsk, Kamchatka, Khabarovsk, Magadan, Primorye, Yakutia).

19. *Dolichopus grunini* Smirnov, 1948

Material examined. 2♂, Khabarovsk Terr., Bureinsky Ridge, Suluk-Makit River mouth [51.31°N, 134.51°E], 2.07.1988, V. A. Mutin.

Distribution. Type locality: Russia, Primorye, Jasnaya Polyana, Takema River, Sikhote-Alinskii Nature Reserve. Palaearctic: China (Xinjiang), Russia (Kamchatka, Magadan, Primorye). First record from Khabarovsk Territory.

20. *Dolichopus gubernator* Mik, 1878

Material examined. 1♂, Shikotan Is., Tserkovnyi Bay, 43°75' N, 146°70' E, 27–31.08.2012, Yu. Sundukov.

Distribution. Type locality: Austria: “bei Hamern in Muhlviertel in Oberosterreich.” Trans-Palaearctic boreal species. It was recorded from Kuriles without definite locality (Negrobov 1991). First record from Shikotan Island.

21. *Dolichopus hiliaris* Loew, 1862

Material examined. 1♂, Kunashir Is., Lake Peschanoe, Danilovo environs, 43°57'16"N, 145°35'37.7"E, forest, 1–5.08.2008, I. Melnik; 1♂, Khabarovsk, Bolshoy Ussuriysky Island, at oxbow lakes, 48.33–42°N, 134.80–90°E, 35–38 m a.s.l., 26.07.2020, O. Kosterin.

Distribution. Type locality: Poland, Międzyrzecz. Trans-Palaearctic species. First records from Kuriles and Khabarovsk Territory.

22. *Dolichopus kjari* Stackelberg, 1929

Material examined. 2♂, Yakutia, Momsky Distr., Indigirka, Ystan-Yuryakh River lower reach, 28.06, 1.07.1971, V. Kovalev.

Distribution. Type Locality: Russia: “Aus Verschiedenen Orten Des Distrikts Jakutsk.” Palaearctic: Russia (Buryatia, Chita, Irkutsk, Kemerovo, Krasnoyarsk, “Sayan Mountains,” Yakutia), Mongolia.

23. *Dolichopus kurayensis* Negrobov, Barkalov et Selivanova, 2011

Material examined. 2♂, Chukotka, Pevek env., wet tundra, 200–300 m, 29.06.1963, K. B. Gorodkov.

Additional material. 2♂, Taimyrsky Nature Reserve, Ary-Mas cordon, 14 m a. s. l., 72°5' N, 101°94' E, 12–22.07.2010, A. Barkalov.

Distribution. Type locality: Republic of Altai: Kosh-Agachsky District, Ukok Plateau, 2450 m a. s. l, Muzdy-Bulak Lake. Palaearctic: Russia (Altai Republic). First record from Chukotka and Taimyria.

Notes. Males of this species have mid tarsus laterally flattened from apex of basitarsus to segment 4; the character was not mentioned in original description (Negrobov et al. 2011).

24. *Dolichopus lenensis* Negrobov, Barkalov et Selivanova, 2014

Material examined. 1♂, Yakutia, Pokrovsk, 21.07.1986, V. N. Makarkin; 6♂, 3♀, Yakutia, Indigirka River, 5 km downstream from Chubukulak River mouth, bog within larch forest near steppe, 15.07.2011, A. K. Bagachanova; 1♂, Yakutia, Indigirka River, 9 km downstream from Sarba River, 63°31'23" N, 142°37'02" E, 16.07.2011, A.K. Bagachanova; 1♂, Yakutia, old Magadan road between rivulets Small Begel Haya and Big Begel Haya, at slope, [63°15'20" N, 143°43'33" E], 18.07.2011, A. K. Bagachanova.

Distribution. Type locality: Russia: Irkutsk government, Lena River. Palaearctic: Russia (Irkutsk, Yakutia).

25. *Dolichopus linearis* Meigen, 1824

Material examined. 1♂, Yakutia, Pokrovsk, 21.07.1986, V. N. Makarkin; 1♂, Khabarovsk Terr., Pivan environs, 30.07.1976, Yu.D. Bodrova; 1♂, Khabarovsk Terr., Komsomolsk-on-Amur, Silinsky Park, 13.09.1985, V. A. Mutin; 1♂, Khabarovsk Terr., Vanino env., 10.08.1976, Yu. D. Bodrova.

Distribution. Type locality: not given (Germany?). Trans-Palaearctic species.

26. *Dolichopus litorellus* Zetterstedt, 1852

Material examined. 1♂, Yakutsky Okrug, Tylyminskii 1 Nasleg, 2.07.1925, L. Bianki; 1♀, Yakutsky Okrug, Namsky Ulus, Letnik Aly, 3.08.1926, A. Ivanov; 1♂, 1♀, Yakutsk, 16,

18.07.1927, Moskvin; 1♂, Yakutsky Okrug, Chochur-Muran, 23.06.1957, K. B. Gorodkov.

Distribution. Type locality: Sweden: Lomma Scaniae. Trans-Eurasian temperate species.

27. *Dolichopus longicornis* Stannius, 1831

Material examined. 1♂, Yakutia, Pokrovsk, 21.07.1986, V. N. Makarkin; 1♂, Khabarovsk Terr., Lower Amur, Gorin River mouth, Tikhaya girt, 18.06.1988, V. A. Mutin.

Distribution. Type locality: not given (Germany: Hamburg?, Breslau?). Trans-Palaearctic species; Nearctic: Canada (Yukon), USA (Alaska).

28. *Dolichopus longisetus* Negrobov, 1977

Material examined. 1♂, 1♀, Khabarovsk, Bychikha, former pond at end of Yubileynaya street and its forested environs, 48.2917–2947°N, 134.8268–8290°E, 81–84 m a. s. l., 25.07.2020, O. Kosterin.

Distribution. Type locality: Russia, Primorye, Kedrovaya Pad Nature Reserve. Palaearctic: Russia (Kamchatka, Khabarovsk, Primorye).

29. *Dolichopus maculipennis* Zetterstedt, 1843

Material examined. 14♂, 4♀, Petropavlovsk-Kamchatsky environs, Nagorny, 12.07.1970, O. P. Negrobov; 1♂, 2♀, 11 km E Petropavlovsk-Kamchatsky, 6.07.1975, A. Barkalov; 2♀, Magadan Region, 15 km SSE Atka, 5.07.1981, V. S. Lebedev.

Distribution. Trans-Palaearctic boreal species; Nearctic: USA (Alaska).

30. *Dolichopus mannerheimi* Zetterstedt, 1838

Material examined. 1♂, Amur Region, North-West, Khorogochi River, 4.07.1975, R. G. Soboleva; 2♀, Amur Region, Zeya vil., 23.06, 6.07.1982, A. Ozerov; 3♂, Kamchatka, Esso, Bystraya River bank, 28, 29.06.1975, A. Barkalov; 23♂, 11♀, Khabarovsk Terr., Vysokogornyi vil., A. Barkalov, 10.07.1977; 3♂, Magadan Region, 30 km NE Spornoe, 22.06.1981, V. S. Lebedev; 2♂, Magadan Region, 15 km SSE Atka, 29.06.1981, V. S. Lebedev.

Distribution. Type locality: Sweden: “Laponia Umensi, Stensele; Tresunda; Naestansjo; in paroecia Wilhelmina” [= Vilhehnina]. Palaearctic: China (Xinjiang, Heilongjiang), Finland, Mongolia, Norway, Russia (Altai Rep., Buryatia, Irkutsk, Kamchatka, Karelia,

Khantia-Mansia, Khabarovsk, Krasnoyarsk, Magadan, Murmansk, Primorye, Zabaikalye), Sweden; Nearctic: Canada (Yukon); USA (Alaska). First record from Amur Region.

31. *Dolichopus nitidus* Fallén, 1823

Material examined. 4♂, 4♀, Khabarovsk, Bychikha, former pond at end of Yubileynaya street and its forested environs, 48.2917–2947°N, 134.8268–8290°E, 81–84 m a. s. l., 25.07.2020, O. Kosterin.

Distribution. Type locality: not given (Sweden?). Trans-Palaeartic species; Oriental: China (Shanghai).

32. *Dolichopus plumipes* (Scopoli, 1763)

Material examined. 1♂, [Kamchatka Territory,] Bering Is., Nikolskoe environs, 12.07.1972, Yu. D. Bodrova.

Distribution. Type locality: Slovenia, “Carnioliae indigena.” Mainly Holarctic species. Neotropical: Mexico; Oriental: India (Kashmir).

33. *Dolichopus pseudomigrans* Ringdahl, 1928

Material examined. 1♂, Kamchatka, [Kronotsky Nature Reserve,] Zhupanovo, forest, 20.07.1985, L. E. Lobkova.

Distribution. Type locality: not given. Palaeartic: Finland, Russia (Chukotka, Nenetsia), Sweden. First record from Kamchatka.

34. *Dolichopus ptenopedilus* Meuffels, 1982

Material examined. 1♂, Kamchatka, Petropavlovsk environs, 23.06.1959, K. B. Gorodkov; 3♂, Kamchatka, Atlasovo, 8, 9.07.1985, V. V. Zlobin; 3♂, Kamchatka, 18 km NO Kozyrevsk, 21.07.1985, V. V. Zlobin; 1♂, Kamchatka, Petropavlovsk, 21.07.1985, V. V. Zlobin.

Distribution. Type locality: Japan: Hokkaido, Sooukyo. Palaeartic: Japan, Mongolia, Russia (Amur Region, Kamchatka, Khabarovsk, Krasnoyarsk, Kuriles, Magadan, Primorye, Sakhalin, Zabaikalye).

35. *Dolichopus remipes* Wahlberg, 1839

Material examined. 1♂, 11 km E Petropavlovsk-Kamchatsky, 8.07.1975, A. Barkalov.

Distribution. Type locality: Sweden, Gusum. Holarctic boreal species.

36. *Dolichopus ringdahli* Stackelberg, 1930

Material examined. 4♂, 1♀, Yakutsk environs, Koodei Lake, road to Amga River,

15.07.1925, L. Bianki; 3♀, Yakutsky Okrug, Kachikatsky Nasleg, 12.07.1925, L. Bianki.

Distribution. Type locality: Russia, Primorye, Tigrovaya. Palaeartic: China (Jilin), Russia (Buryatia, Murmansk, Primorye, Yakutia).

37. *Dolichopus rupestris* Haliday, 1833

Material examined. 3♂, 2♀, [Kamchatka Terr.], Koryakia, Apuka vil., tundra, 30.07.1959, K. B. Gorodkov; 1♂, [Kamchatka Terr.], Koryakia, Apuka, Pakhachinsky Ridge, shrub tundra, 30.07.1959, K. B. Gorodkov; 1♂, [Kamchatka Terr.], Koryakia, Apuka, Pakhachinsky Ridge, mountain tundra, 300 m, 3.08.1959, K.B. Gorodkov; 1♂, [Kamchatka Terr.], Koryakia, 10 km SO Apuka, sea coast, tundra, 8.08.1959, K. B. Gorodkov; 1♂, Magadan Region, Sokol, 56th km, rivulet shore and river shore, willow, 24, 25.08.1966, K. B. Gorodkov; 25♂, 8♀, Chukotka, Anadyr River lower reach, 64°83' N, 175°96' E. 18–24.07.2013, A. Barkalov; 2♂, Chukotka, Anadyr Distr., Meynypilgyno, 62.619850°N, 176.845317°E, 25.07.2019, P. S. Tomkovich.

Distribution. Type locality: England, Downshire, Tullymore Park and Mountains of Mourne. Trans-Palaeartic species. Nearctic: Canada (Yukon Territory), USA (Alaska). First record from Koryakia.

38. *Dolichopus sharovi* Smirnov, 1948

Material examined. 1♂, Amur Region, Khingansky Nature Reserve, Kundur [49°06'12" N, 130°45'33" E], 18.07.1988, V.S. Sidorenko; 1♂, Khabarovsk Terr., Pivan env. [50°28'50" N, 137°05'30" E], 8.08.1976, Yu.D. Bodrova; 1♂, [Khabarovsk Terr.], Lower Amur River, Gorin River mouth, Bichi [50°44'53" N, 137°39'19" E], 18.09.1985, V. A. Mutin.

Distribution. Type locality: Russia, Primorye, Lazovsky Reserve. Palaeartic: Russia (Kamchatka, Primorye). First records from Amur Region and Khabarovsk Territory.

39. *Dolichopus simius* Parent, 1927

Material examined. 1♂, Amur Region, 52 km N Zeya town, 25.07.1982, V. V. Zlobin; 1♂, Khabarovsk Terr., Komsomolsk-on-Amur, Silinsky Park, 25.06.1986, V. A. Mutin.

Distribution. Type locality: Russia, Irkutsk Region: “Siberia: environs d'Irkutsk.” Palae-

arctic: China (Heilongjiang, Inner Mongolia), Mongolia, Russia (Altai Rep., Amur Region, Bashkortostan, Buryatia, Commander Is., Irkutsk, Kamchatka, Khabarovsk, Khakassia, Krasnoyarsk, Kuriles, Magadan, Moscow, Novosibirsk, Primorye, Sakhalin, Sverdlovsk, Tomsk, Yakutia, Zabaikalye).

40. *Dolichopus socer* Loew, 1871

Material examined. 1♂, [Kamchatka Terr.], Koryakia, Apuka environs, Apuka River mouth, lake shore on island, tundra, 7.08.1959, K. B. Gorodkov; 1♂, [Kamchatka Terr.], Koryakia, Apuka environs, 6.07.1959, K. B. Gorodkov; 2♂, Kamchatka, Kamenskoe, 31.07.1973, O. P. Negrobov; 2♂, 1♀, Chukotka, Pevek env., 69°42' N, 170°18' E, 4.07.2021, wet grass-moss submontane apron, O. Khruleva; 2♂, Khabarovsk Krai, Vysokogornyi, 13–17.07.1974, A. Barkalov; 18♂, Magadan Region, Khasyn River, 13.07.1975, A. Barkalov; 5♂, 50 km N Magadan, Ola River bank, 15.08.1975, A. Barkalov; 1♂, Magadan Region, 30 km NE Spornoe, 29.06.1981, V. S. Lebedev; 1♂, Magadan Region, 15 km SSE Atka, 29.06.1981, V. S. Lebedev; 4♂, Magadan Region, 18 km N Orotukhan, 10.07.1981, V. S. Lebedev.

Distribution. Type locality: Quickjock, Lapponiae Lulensis, Mounioniska, Peljatschware, Koutokeino, Finmarkiae, Syvajarvi infra alpem Stuur Oive [Sweden and Finland]. Palaearctic: Czechia, Finland, Norway, Russia (Altai Rep., Amur Region, Buryatia, Chukotka, Kamchatka, Karelia, Khabarovsk, Krasnoyarsk, Magadan, Murmansk, N Ural, Tomsk, Yamalia, Yakutia), Sweden. First record from Koryakia.

41. *Dolichopus spinuliformis* Maslova, Negrobov et Selivanova, 2012

Material examined. 1♂, [Sakhalin, Novoalexandrovsk.] “Saghalien,” Central Experimental Station, 16.07.1933, [in Japanese].

Distribution. Type locality: Russia: Sakhalin Island, 32 km E Aleksandrovsk, vil. Tymovskii. Endemic to Sakhalin Island.

42. *Dolichopus uniseta* Stackelberg, 1929

Material examined. 1♂, Yakutia, Pokrovsk, 20.07.1986, V. N. Makarkin.

Distribution. Type localities: Russia, Yakutia and Primorye: “Kreis Jakutsk: Olom;

Abyj, ungefähr 60°50' nordlicher Breite und 130° Ostlicher Länge zwischen der Lena und Amga, Amginiskaja Sloboda, amlinken Ufer des Flukes Amga; Sud-Ussuri-Gebiet: Jakovlevka, Kreis Spassk.” Palaearctic: China (Heilongjiang, Hebei, Beijing, Shaanxi), Russia (Khabarovsk, Primorye, Yakutia).

43. *Dolichopus uralensis* Stackelberg, 1930

Material examined. 1♂, 1♀, [Kamchatka Terr.], Koryakia, Apuka River upper reach, shrub tundra, 550 m, 62°02'N, 170°25'E, 12.07.1959, K. B. Gorodkov.

Distribution. Type locality: Russia: Nord Ural, Sobj-Flus Systeme, Distr. Obdorsk [= Salekhard]. Palaearctic: France?, Russia (Yamalia). First record from the Far East.

Notes. The species was probably not recorded after description. A record from France (Pollet 2013) is most probably a misidentification, because *D. uralensis* seems to be an arctoboreal species.

44. *Dolichopus verae* Negrobov, 1977

Material examined. 1♂, Shikotan Is., Tserkovnyi Bay, 43°75' N, 146°70' E, 27–31.08.2012, Yu. Sundukov; 1♂, Shikotan Is., Tserkovnyi Bay, 43°75' N, 146°70' E, 10–17.09.2012, Yu. Sundukov; 1♂, 1♀, Kunashir Is.: Kurilsky Nature Reserve, caldera of the Golovnin volcano, 43.841°N, 145.509°E, 3, 4.07.2014, T.V. Galinskaya.

Distribution. Type locality: Russia: Kuril Is., Iturup, Yasnyi nr. Kurilsk. Palaearctic: Russia (Kuriles, Sakhalin).

45. *Dolichopus violovitshi* Negrobov, 1977

Material examined. 1♂, Shikotan Is., Tserkovnyi Bay, 43°75' N, 146°70' E, 23–30.08.2012, Yu. Sundukov.

Distribution. Type locality: Russia: Kurilsk, Iturup, Kuril Is. Palaearctic: Russia (Kamchatka, Kuriles, Sakhalin). This species was known from Iturup and Kunashir islands; here we found it on Shikotan Island.

46. *Dolichopus xanthopyga* Stackelberg, 1930

Material examined. 2♂, Khabarovsk, Bychikha, former pond at end of Yubileynaya street and its forested environs, 48.2917–2947°N, 134.8268–8290°E, 81–84 m a. s. l., 25.07.2020, O. Kosterin; Russia, 5♂, 7♀,

Khabarovsk, Bolshoy Ussuriysky Island, at oxbow lakes, 48.33–42°N, 134.80–90°E, 35–38 m a. s. l., 26.07.2020, O. Kosterin; 1♂, Khabarovsk, 2–2.6 km NE of Kazakevichevo, Bolshekhekhtsyrsky Nature Reserve, Sosninsky Brook lowermost reaches and right bank of Amurskaya Protoka of Amur River just downstream of it, 48.2800–2848°N, 134.7571–7642°E, 36–50 m a. s. l., 23–26.07.2020, O. Kosterin.

Distribution. Type localities: Russia, Primorye: “Yakovlevka env., Staraya Devitsa, Ryabokon Peninsula, Lefu (= Ilistaya) River mouth.” Palaeartic: China (Heilongjiang), Russia (Khabarovsk, Primorye). This species was recorded from Kuriles without definite locality (Negrobov 1991).

Genus *Gymnopternus* Loew, 1857

47. *Gymnopternus pseudoceler* (Stackelberg, 1933)

Material examined. 1♂, Shikotan Is., Krabozavodskoe, 43°83' N, 146°75' E, 18–20.08.2012, Yu. Sundukov.

Distribution. Type locality: Russia: “Ussuri-Gebiet, Dorf Jakoblevka, Distrikt Spassk.” Palaeartic: Russia (Kuriles, Primorye). This species was known from Iturup and Zelyonyi islands; here we found it on Shikotan Island.

48. *Gymnopternus* aff. *rohdendorfi* (Stackelberg, 1933)

Material examined. 5♂, Kunashir Is., Kurilsky Nature Reserve, caldera of the Golovnin volcano, 43.841°N, 145.509°E, 4.07.2014, T. V. Galinskaya.

Distribution. Type locality: Russia: “Ussuri Gebiet, beim Dorf Jakoblevka, Distr. Spassk.” Palaeartic: Russia (Khabarovsk, Primorye, Yakutia).

Notes. Two species of the genus were known from the Kunashir Island (Grichanov, Selivanova 2022a). Our material differs from *Gymnopternus daubichensis* (Stackelberg, 1933) and *G. ussurianus* (Stackelberg, 1933) in black vs. yellow cercus of hypopygium.

49. *Gymnopternus ussurianus* (Stackelberg, 1933)

Material examined. 2♂, 7♀, Khabarovsk, Bychikha, former pond at end of Yubileynaya

street and its forested environs, 48.2917–2947°N, 134.8268–8290°E, 81–84 m a. s. l., 25.07.2020, O. Kosterin; 6♂, Khabarovsk, Bolshoy Ussuriysky Island, at oxbow lakes, 48.33–42°N, 134.80–90°E, 35–38 m a.s.l., 26.07.2020, O. Kosterin; 4♀, Khabarovsk, 2–2.6 km NE of Kazakevichevo, Bolshekhekhtsyrsky Nature Reserve, Sosninsky Brook lowermost reaches and right bank of Amurskaya Protoka of Amur River just downstream of it, 48.2800–2848°N, 134.7571–7642°E, 36–50 m a. s. l., 23–26.07.2020, O. Kosterin.

Distribution. Type localities: Russia, “Ussuri-Gebiet, Tigrovaja, Sutshan (= Partizansky) Distr., Jakoblevka, Spassk-Distr., Basargin bei Wladiwostok, Rjabokonj am Chanka-See.” Palaeartic: Japan, Russia (Amur Region, Khabarovsk, Kuriles, Primorye).

Genus *Hercostomus* Loew, 1857

50. *Hercostomus sviridovae* Negrobov et Chalya, 1987

Material examined. 1♂, Amur Region, 52 km N Zeya town, 25.07.1982, V. V. Zlobin.

Distribution. Type locality: Russia: Primorye, Bikin River. Palaeartic: Russia (Buryatia, Primorye, Yakutia, Zabaikalye). First record from Amur Region.

Genus *Hydrophorus* Fallén, 1823

51. *Hydrophorus callostomus* Loew, 1857

Material examined. 3♂, 2♀, Yakutia, Pokrovsk, 21.07.1986, V. N. Makarkin.

Distribution. Type locality: Russia, “Siberia.” Palaeartic: Armenia, Kazakhstan, Russia (Adygea, Buryatia, Dagestan, Krasnodar, Leningrad, Omsk, Primorye, “Ural,” Voronezh, Yakutia, Yaroslavl), Sweden, Tajikistan, Turkey, Ukraine.

52. *Hydrophorus cinipunctus* Negrobov, 1975

Material examined. 1♂, Khabarovsk Terr., Vysokogornyi vil. env., Kenai station. 9.08.1972, along road, O. P. Negrobov; 21♂, 14♀, Khabarovsk Terr., Vysokogornyi vil., 15, 16, 17.07.1974, on water surface at river shore, grass at rivulet, A. Barkalov; 2♂, 1♀, Khabarovsk Terr., Vysokogornyi vil., 11.07.1974, taiga, O. P. Negrobov; 1♂, 4♀, Khabarovsk Terr., Vysokogornyi vil., 13.08.1974, grass at rivulet, O. P. Negrobov;

1♂, Amur Region, 52 km N Zeya town, 25.07.1982, V. V. Zlobin.

Distribution. Type locality: Russia: “Umgebung von Petropawlowsk-Kamtschatskij Nogomy.” Palaearctic: Mongolia, Russia (Buryatia, Kamchatka, Khabarovsk, Yakutia). First record from Amur Region.

53. *Hydrophorus freyi* Storå, 1954

Material examined. 1♂, 2♀, Khabarovsk Terr., Vysokogornyi vil., 15.07.1974, on water surface at river shore, A. Barkalov; 1♂. Khabarovsk Terr., Vysokogornyi vil., 11.07.1974, taiga, O. P. Negrobov.

Distribution. Type locality: Finland: Jacobstad. Palaearctic: Finland, Russia (Buryatia, Khabarovsk, Primorye, Yakutia), Sweden.

54. *Hydrophorus signifer* Coquillett, 1899

Material examined. 32♂♀, [Kamchatka Territory,] Commander Islands, Nikolskoe environs, on water, 7–20.09.1959, K. B. Gorodkov.

Distribution. Type locality: Russia: Bering Is. Palaearctic: Austria, Belgium, Czech, Finland, Latvia, Netherlands, Norway, Sweden, Russia (Kamchatka, Karelia, Murmansk, Nenetsia, N Ural, Yakutia); Nearctic: USA (Alaska), Canada (Yukon Territory, Northwest Territories, Manitoba, Quebec, Newfoundland).

Genus *Neurigona* Rondani, 1856

55. *Neurigona grossa* Negrobov, 1987

Material examined. 1♂, Shikotan Is., Krabozavodskoe, 43°83' N, 146°75' E, 18–20.08.2012, Yu. Sundukov.

Distribution. Type locality: Russia, Primorye, Komarovo-Zapovednoe. Palaearctic: Russia (Primorye). First record from Kuriles.

56. *Neurigona kasparyani* Negrobov, 1987

Material examined. 1♂, Shikotan Is., Tserkovnyi Bay, 43°75' N, 146°70' E, 27–31.08.2012, Yu. Sundukov.

Distribution. Type locality: Russia: Sakhalin Is., 45 km N Yuzhno-Sakhalinsk, near Bykov. Palaearctic: Japan, Russia (Kuriles, Sakhalin). First record from Shikotan Island.

Genus *Poecilobothrus* Mik, 1878

57. *Poecilobothrus flaveolus* (Negrobov et Chalaya, 1987)

= *Poecilobothrus arcticus* (Yang, 1996)

Material examined. 1♂, Kunashir Is., Grozovoe environs, Ivanovsky Cape, 43°50'22.7" N, 145°24'39.9" E, 8–15.08.2008, I. Melnik.

Distribution. Type locality: Russia: Primorye, Spasskii Distr., Nakhimovka. Palaearctic: China (Beijing, Heilongjiang, Shaanxi), Japan, Russia (Amur Region, Khabarovsk, Primorye); Oriental: China (Hunan). First record from Kuriles.

Genus *Rhaphium* Meigen, 1803

58. *Rhaphium beringiense* Negrobov et Vockeroth, 1979

Material examined. 1♀, Chukotka, Pevek env., 69°42'N, 170°20'E, 3.07.2021, spotted tundra, O. Khruleva.

Distribution. Type locality: Russia: Magadan-skaya Oblast, Hazjin River. Nearctic: USA (Alaska); Palaearctic: Russia (Altai Rep., Chukotka incl. Wrangel, Kamchatka, Magadan, Taimyria).

59. *Rhaphium confine* Zetterstedt, 1843

Material examined. 1♂, [Khabarovsk Terr.,] Komsomolsk-on-Amur, Silinsky Park, [50°34'29"N, 137°02'09"E], 2.06.1986, V. A. Mutin.

Distribution. Type localities: “Lapponis Umensi ad Nastansjo; Norvegia ad Bjorkvik Nordlandiae; Jemtlandiae et Vaerdaliae” [Sweden, Norway]. Palaearctic: Finland, Norway, Russia (Buryatia, Kamchatka, Khabarovsk, Komi, Krasnodar, Murmansk, Taimyria, Yamalia), Sweden.

60. *Rhaphium crassipes* (Meigen, 1824)

Material examined. 2♂, Kamchatka, Zhupanovo, 30.07.1985, V. V. Zlobin.

Distribution. Type locality: not given. Holarctic temperate species.

61. *Rhaphium micans* (Meigen, 1824)

Material examined. 2♂, 5♀, Khabarovsk, Bychikha, former pond at end of Yubileynaya street and its forested environs, 48.2917–2947°N, 134.8268–8290°E, 81–84 m a. s. l., 25.07.2020, O. Kosterin; 6♀, Khabarovsk, 2–2.6 km NE of Kazakevichevo, Bolshekhkhtsyrsky Nature Reserve, Sosninsky Brook lowest reaches and right bank of Amurskaya Protoka of Amur River just downstream of it, 48.2800–2848°N, 134.7571–7642°E, 36–50 m a. s. l., 23–26.07.2020, O. Kosterin.

Distribution. Type locality: Germany: “Hamburg.” Trans-Palaeartic species.

62. *Rhaphium richterae* Negrobov, 1977

Material examined. 1♂, Kuriles, Kunashir Is., Lagunnoe Lake environs, 18.06.1968, E. P. Narchuk.

Distribution. Type locality: Russia, Kuril Is., Kunashir, Tretjakovo. Endemic to Kunashir Island.

63. *Rhaphium tridactylum* (Frey, 1915)

Material examined. 2♂, Khabarovsk Terr., Vysokogornyi vil., 17.07.1974, grass at rivulet, A. Barkalov.

Distribution. Type locality: Finland: Muonio, bei Ounasjoki; Kelottijarvi. Palaeartic: Finland, Mongolia, Russia (Murmansk, Kamchatka, Khabarovsk, Sakhalin, Taimyria), Sweden.

64. *Rhaphium umbripenne* (Frey, 1915)

Material examined. 1♂, Kamchatka, Petropavlovsk environs, rivulet valley, 25.06.1959, K. B. Gorodkov.

Distribution. Type locality: Finland: Tavastehus, Kuopio, Tuovilanlahti, Ilomantsi, Jacobstad, Saraisniemi, Kuusamo, Muonio, Enontekis, Kantalaks, Ponoj, Fl. Voronje; Russia: Kola Peninsula. Nearctic: “North America”; Palaeartic: Finland, Norway, Russia (Kamchatka, Karelia, Khantia-Mansia, Komi, Leningrad, Magadan, Murmansk, Yakutia), Sweden.

Genus *Scellus* Loew, 1857:22

65. *Scellus gallicanus* Becker, 1909

Material examined. 7♂♀, [Kamchatka Terr.], Koryakia, Apuka environs, tundra, 30.07–8.08.1959, K. B. Gorodkov; 1♂, [Kamchatka Terr.], Koryakia, 20 km NO Apuka, Kultbaza, Apuka River meadow valley, 13.08.1959, K. B. Gorodkov; 1♂, [Kamchatka Terr.], Koryakia, Pakhachi, tundra, on spit, 22.08.1959, K. B. Gorodkov; 1♂, [Kamchatka Terr.], Koryakia, Pakhachi, dense grass, 22.08.1959, K. B. Gorodkov.

Distribution. Type locality: France: Lautaret. Palaeartic: China, France, Mongolia, Russia (Altai Rep., Chukotka, Murmansk, Sayan Mnts., Irkutsk, Yakutia). First record from Kamchatka Territory.

66. *Scellus spinimanus* (Zetterstedt, 1843)

Material examined. 1♂, 1♀, Yakutia, Pokrovsk, 19, 21.7.1986, V. N. Makarkin; 1♂, 1♀, Chukotka, Anadyr Distr., Meynypilgyno env., 62.524750°N, 176.849467°E, 30.07.2017, P. S. Tomkovich; 2♀, Chukotka, Pevek env., 69°42'N, 170°19'E, 12.07.2021, dry cereal meadow, cereals and Artemisia, O. Khruleva.

Distribution. Type locality: Scandinavia. Palaeartic: Austria, Finland, Mongolia, Norway, Russia (Chukotka, Crimea, N Ural, Yakutia), Sweden; Nearctic: Canada (Newfoundland, Manitoba, Northwest Terr., Yukon), USA (Alaska).

Genus *Sciapus* Zeller, 1842

67. *Sciapus sibiricus* Negrobov et Shamshev, 1986

Material examined. 1♂, Yakutia, Pokrovsk, 21.7.1986, V. N. Makarkin.

Distribution. Type locality: Russia, Siberia, Eastern Sayan, Arshan, Tagyrkhai. Palaeartic: Russia (Buryatia, Irkutsk, Primorye, Zabaikalye). First record from Yakutia.

Genus *Syntormon* Loew, 1857

68. *Syntormon violovitshi* Negrobov, 1975

Material examined. 1♂, Kuriles, Kunashir Is., Tretyakovo, 5.09.1971, E. P. Narchuk.

Distribution. Type locality: Russia, Petropavlovsk-Kamchatsky env., Nagornyi vil. Palaeartic: Japan, Korea, Russia (Kamchatka, Kuriles, Sakhalin).

Genus *Thinophilus* Wahlberg, 1844

69. *Thinophilus longipilus* Negrobov, 1971

Material examined. 1♂, Khabarovsk, Korfovsky Settlement, an inundated former quarry, 48.2197–2208°N, 135.0681–0696°E, 95–96 m a. s. l., 25.07.2020, O. Kosterin; 1♀, Khabarovsk, Bolshoy Ussuriysky Island, at oxbow lakes, 48.33–42°N, 134.80–90°E, 35–38 m a.s.l., 26.07.2020, O. Kosterin.

Distribution. Type locality: Russia, Primorye, Khanka Lake, Kamen-Rybolov. Palaeartic: Japan, Russia (Primorye). New for Khabarovsk Territory.

Conclusion

The present research features new records for 69 species from Yakutia and Far Eastern

regions of Russia. *Amblypsilopus bouvieri* and *Dolichopus bayaticus* are found in Russia for the first time. *Dolichopus uralensis* is recorded in the Far East, being probably the second reliable finding after description. *Dolichopus hilaris*, *Neurigona grossa* and *Poecilobothrus flaveolus* are new for the Kurile Islands; six species are added to the fauna of Shikotan, one—to the fauna of Kunashir. Six species are firstly recorded from the Amur Region, four from the Khabarovsk Territory, two from Yakutia, one from Chukotka and one from the Jewish Region. Four species are new for Kamchatka Territory, and seven species are found for the first time in the historical region Koryakia, now a part of Kamchatka.

As a result of recent researches, Primorsky Territory with 216 known species (Grichanov 2022b) seems to be the biodiversity center in East Asian Palaearctic. A decrease in the number of known species and biodiversity indices is observed northward, southward and westward of Primorye (Grichanov et al. 2021). The other regions

and territories of the Russian Far East include now 148 (Yakutia), 97 (Kamchatka), 89 (Khabarovsk Territory), 84 (Sakhalin), 56 (Kuriles), 55 (Magadan Region), 50 (Amur Region), 37 (Chukotka), and 21 species (Jewish Autonomous Region).

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