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## New records of Dolichopodidae (Diptera) from Primorsky Territory, Russia

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**Abstract.** A collection of long-legged flies was studied in the Laboratory of Entomology of the Federal Research Centre for Biodiversity of Terrestrial Biota of East Asia, Vladivostok. A new material was identified for the first time, collected mainly by the researchers of this laboratory in the Primorsky Territory since 1970s, as well as by Igor Ya. Grichanov during his visit to Vladivostok in 2021. Unidentified material from some other scientific institutions is also included in the list. In total, new records are given for 73 species of long-legged flies. *Hercostomus rohdendorfi* Stackelberg, 1933 is transferred to the genus *Gymnopternus* (**comb.n.**). *Mesorhaga janata* Negrobov, 1984 is placed in synonymy with *Amblypsilopus pilosus* (Negrobov, 1979) (**syn.n.**). *Dolichophorus immaculatus*, *Dolichopus henanus*, *D. kumazawai*, *Hercostomus beijingensis*, *Rhaphium dorsiseta*, and *R. mediocre* are found for the first time in Russia. *Chrysotus caeruleus*, *Hydrophorus albiceps*, *Rhaphium fascipes* and *Syntormon violovitshi* are reported from Primorye for the first time. The finding of *Dolichopus griseifacies* is the first reliable record from Primorye. In total, 215 species from 31 genera of Dolichopodidae are known in the regional fauna.

**Keywords:** Dolichopodidae, Russia, Primorsky Territory, new synonym, new combination, new records.

## Новые находки Dolichopodidae (Diptera) в Приморском крае России

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**Аннотация.** Изучена коллекция мух-зеленушек Лаборатории энтомологии Федерального научного центра биоразнообразия наземной биоты Восточной Азии ДВО РАН. Впервые определен материал, собранный главным образом сотрудниками этой лаборатории в Приморском крае с 1970-х гг., а также И. Я. Гричановым во время его пребывания во Владивостоке в 2021 г. Ранее неопределенный материал из некоторых других научных учреждений также включен в список. Всего приведены новые указания для 73 видов мух-зеленушек. *Hercostomus rohdendorfi* Stackelberg, 1933 перенесен в род *Gymnopternus* (**comb. n.**). *Mesorhaga janata* Negrobov, 1984 помещен в синонимы к *Amblypsilopus pilosus* (Negrobov, 1979) (**syn. n.**). *Dolichophorus immaculatus*, *Dolichopus henanus*, *D. kumazawai*, *Hercostomus beijingensis*, *Rhaphium dorsiseta* и *R. mediocre* впервые обнаружены в фауне России. *Chrysotus caeruleus*, *Hydrophorus albiceps*, *Rhaphium fascipes* и *Syntormon violovitshi* впервые обнаружены в Приморье. Находка *Dolichopus griseifacies* является первой достоверной находкой из Приморья. Всего в крае отмечено 215 видов из 31 рода приморской фауны Dolichopodidae.

**Ключевые слова:** Dolichopodidae, Россия, Приморский край, новый синоним, новая комбинация, новые указания.

## Introduction

Recently, the data of the known dolichopodid fauna of the Primorsky Territory, or Primorye, were summarised in form of the annotated checklist (Grichanov, Selivanova 2021). In total, 204 species from 30 genera of long-legged flies were listed. *Dolichopus pennatus* Meigen, 1824 included in the Palaearctic Catalog (Negrobov, 1991) as known from Primorye was overlooked by that list (original material was not provided). *Chrysotus orientalis* Negrobov et Tsurikov, 2000 (Negrobov et al. 2000) was also overlooked by that list.

The cluster analysis of the dolichopodid genera and species composition was conducted for continental Chinese and Russian regions belonging to the East Palaearctic (Grichanov et al. 2021). This analysis along with the comparison of the the biodiversity index supports the uniqueness of Primorsky Territory as the biodiversity centre in East Asian Palaearctic. A decrease in the number of known species and biodiversity indices is observed northward, southward and westward of this Territory.

Recently, a rich collection of long-legged flies was studied in the Laboratory of Entomology of the Federal Research Centre for Biodiversity of Terrestrial Biota of East Asia, Vladivostok (FCBV). A new material collected mainly by the researchers of this laboratory in the Primorsky Territory since 1970s was identified for the first time. Also the material collected by Igor Ya. Grichanov during his visit to Vladivostok in 2021 and that from collection of the Zoological Museum of Moscow State University (ZMMU) is also included in the list. The material collected by Dr. Oksana Kosheleva (All-Russian Institute of Plant Protection) is fixed in 70% ethanol; it will be deposited at the Zoological Institute of the Russian Academy of Sciences (ZIN).

The information on the global distribution for each species collected follows Yang et al. (2018), Grichanov (2021) and Grichanov, Selivanova (2021). The type localities are provided and the country lists are arranged al-

phabetically. The words "Region" (oblast) and "Territory" (kray) are omitted from the list of Russian regions. It is worth noting that some species names were first published in keys, having priority against species descriptions and their distribution published later and referenced in this paper. It corresponds with the International Code of Zoological Nomenclature. Remarks are provided where deemed necessary.

## New records

### Genus *Amblypsilopus* Bigot, 1888

*Amblypsilopus pilosus* (Negrobov, 1979)

*Mesorhaga pilosa* Negrobov 1979: 188.

*Mesorhaga janata* Negrobov 1984: 32, **syn. nov.** Type locality: Japan, Ofune.

*Amblypsilopus janatus*: Bickel 1994: 373.

**Material examined.** 3♂, 3♀, Primorye, Khasansky Distr., Ryazanovka, 12, 14.08.1987, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, Primorye, Komarovka. Palaearctic: Japan, Russia (Primorye).

**Notes.** Negrobov (1984) distinguished *Amblypsilopus janatus* (males described from Japan) from *A. pilosus* (males and females described from Primorye) by right vs. acute angle between  $M_{1+2}$  and  $M_1$ . Descriptions of the two species including male genitalia figured have no significant differences. The material examined has right angle between  $M_{1+2}$  and  $M_1$  in males and acute angle in females. It is worth noting that the line drawing of *A. pilosus* is inaccurate (Negrobov 1979). The wing of all Primorian male specimens examined is identical to wing pictured for *A. janatus*. Therefore, the two names are considered here as synonyms. The species seems not uncommon in both Primorye and Japan (Grichanov 2020; Grichanov, Selivanova 2021; Negrobov 1979; 1984).

### Genus *Argyra* Macquart, 1834

*Argyra arrogans* Takagi, 1960

**Material examined.** 3♂, Primorye, Khasansky Distr., Ryazanovka, 24.06., 19, 24.07.1987, V. N. Makarkin (FCBV).

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

**Notes.** This species was first recorded from Primorye by Selivanova et al. (2009).

*Argyra shamshevi* Selivanova et Negrobov, 2006

**Material examined.** 1♂, Primorye, Ussurisky Nature Reserve, Malaise trap, 30.06.–10.07.1991, P. Vilkamaa (FCBV ex coll. Museum Zoology, Helsinki, Finland).

**Distribution.** Type locality: Russia, Primorye, Vladivostok env.: Okeanskaya at Kedrovaya Pad Nature Reserve. Palaearctic: Russia (Primorye).

*Argyra ussuriana* Negrobov, 1973

**Material examined.** 1♂, 1♀, Primorye, Khasansky Distr., Ryazanovka, 16, 25.06.1987, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, Primorye, Partizansky Distr., Tigrovaya. Palaearctic: Russia (Primorye).

Genus *Campsicnemus* Haliday, 1851

*Campsicnemus versicolorus* Negrobov et Zlobin, 1978

**Material examined.** 1♂, Primorye, Khasansky Distr., Ryazanovka, 9.08.1987, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, Primorye, Yakovlevka. Palaearctic: Russia (Primorye).

Genus *Chrysotimus* Loew, 1857

*Chrysotimus flavisetus* Negrobov, 1978

**Material examined.** 1♂, Primorye, Khasansky Distr., Ryazanovka, 23.07.1987, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, Primorye, Sichote-Alinsky Nature Reserve, 37 km from Ternei, River Serebryanka. Palaearctic: Russia (Primorye).

*Chrysotimus spinuliferus* Negrobov, 1978

**Material examined.** 8♂, Primorye, Khasansky Distr., Ryazanovka, 19, 23.07., 9.08.1987, V. N. Makarkin; 3♂, Primorye, Spassky Distr., [Gorno-Tayozhnoe vil.], Gornotayozhnaya station, 20.07.1990, V. N. Makarkin (all in FCBV).

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

Genus *Chrysotus* Meigen, 1824

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

*Chrysotus caeruleus* Negrobov, 1980

**Material examined.** 1♂, Primorye, Oblachnaya Mt., 1700 m, 17.07.1993, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia: Sob River, Bolshoy Ural, Obdorsk [= Salekhard]. Palaearctic: Russia (Altai Rep., Amur Region, Buryatia, Khantia-Mansia, Krasnoyarsk, Yamalia). First record from Primorye.

*Chrysotus cilipes* Meigen, 1824

**Material examined.** 2♂, Primorye, Spassky Distr., Novoselskoe, 28, 29.06.1985, V. N. Makarkin; 1♂, Primorye, Arsenyev, agrolandscape, 30.06.1986, V. N. Makarkin; 1♂, Primorye, Khasansky Distr., Ryazanovka, 19.07.1987, V. N. Makarkin; 1♂, Primorye, Chernigovsky Distr., Gornyi Khutor, sweeping on *Ambrosia*, 24.06.1988, L. Esipenko; 1♂, Primorye, Spassky Distr., Prokhory, sweeping, 6.07.1990, L. Esipenko; 1♂, Primorye, Chernigovsky Distr., Dmitrievka, sweeping on *Ambrosia*, 6.07.1990, L. Esipenko; 2♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin (all in FCBV); 32♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva; 2♂, Primorye, Partizansk env., sweeping, 25.08.2019, mountain springs, Kosheleva (all in ZIN).

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

*Chrysotus degener* Frey, 1917

**Material examined.** 17♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Sri Lanka, Anuradhapura. Palaearctic: China (Anhui, Beijing, Heilongjiang, Jiangsu, Liaoning, Shaanxi), Russia (Amur Region, Primorye, Yakutia); Oriental: China (Chongqing, Guangxi, Henan, Taiwan, Yunnan, Zhejiang), India, Myanmar, Pakistan, Sri Lanka.

*Chrysotus glebi* Negrobov et Maslova, 1995

**Material examined.** 1♂, Primorye, Khasansky Distr., Ryazanovka, 24.06.1987, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, Primorye, Ussuriisky Nature Reserve. Palaearctic: Kyrgyzstan, Russia (Altai Rep., Amur Region, Karachai-Cherkessia, Leningrad, Murmansk, Primorye, Yakutia), Spain, Turkey, Ukraine.

*Chrysotus logvinovskii* Negrobov et Tsurikov, 2000

**Material examined.** 1♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Russia: Sakhalin, Anivsky Distr. Palaearctic: Russia (Sakhalin). First record from Primorye.

*Chrysotus orientalis* Negrobov et Tsurikov, 2000

**Material examined.** 3♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: [Inner] Mongolia: Khent. aimak, Kerulen River, 40 km WSW Bayan-Obo. Palaearctic: China (Inner Mongolia), Mongolia, Russia (Altai Rep., Primorye, Yakutia, Zabaikalye).

**Notes.** The species was overlooked in the annotated checklist (Grichanov, Selivanova 2021).

Genus *Diaphorus* Meigen, 1824

*Diaphorus nigricans* Meigen, 1824

**Material examined.** 1♂, Primorye, Khasansky Distr., Ryazanovka, 23.07.1987, V. N. Makarkin (FCBV).

**Distribution.** Type locality: "Germany." Afrotropical, Nearctic, Oriental, Palaearctic and Neotropical Regions.

*Diaphorus parenti* Stackelberg, 1928

**Material examined.** 5♂, 2♀, Primorye, Kedrovaya Pad, 20, 23.07., 3.08.1976, R. G. Soboleva; 1♂, Primorye, Ussuriisky Distr., Kamenushka, Barsukovka River, 3.07.1979, R. G. Soboleva; 3♂, 2♀, Primorye, Khasansky Distr., Ryazanovka, 23, 23.07.1987, V. N. Makarkin (all in FCBV).

**Distribution.** Type locality: Russia, Primorye, "Suchansky" (= Partizansky) District, Tigrovaya. Palaearctic: China (Ningxia, Hebei, Henan), Russia (Karachai-Cherkessia, Primorye, Zabaikalye).

Genus *Dolichophorus* Lichtwardt, 1902

*Dolichophorus immaculatus* Parent, 1944

**Material examined.** 2♂, Primorye, Chernigovskiy Distr., Evseevka, sweeping, 10.07.1987, L. Esipenko; 3♂, Primorye, Chernigovskiy Distr., Dmitrievka, sweeping on *Ambrosia*, 6.07.1990, L. Esipenko (all in ZIN ex coll. FCBV).

**Distribution.** Type locality: China: "Kinpeng, Ordos." Palaearctic: China (Inner Mongolia, Ningxia).

**Notes.** See Yang et al. (2011) for the redescription of this species. The genus is reported from Far Eastern Russia for the first time. The species is reported from Russia for the first time.

Genus *Dolichopus* Latreille, 1796

**Notes.** Several closely related *Dolichopus* species were identified by males from one sample (Khankaisky district, 6 km N Novokachalinsk, 1–4.09.2019) or one locality (e. g. Chernigovskiy district, sweeping on *Ambrosia*). The Far Eastern species of the genus are usually indistinguishable by females; therefore, most females collected there are left unidentified.

*Dolichopus agilis* Meigen, 1824

**Material examined.** 9♂, Primorye, Chernigovskiy Distr., Evseevka, sweeping, 7.06., 4, 11, 15.07.1988, L. Esipenko; 11♂, Primorye, Chernigovskiy Distr., Dmitrievka, sweeping on *Ambrosia*, 7.06., 6, 11.07., 20.08.1988, L. Esipenko; 2♂, Primorye, Chernigovskiy Distr., Gornyi Khutor, sweeping on *Ambrosia*, 7, 28.06.1988, L. Esipenko; 2♂, Primorye, Spassky Distr., Prokhory, sweeping, 7.06.1990, L. Esipenko (all in FCBV).

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

*Dolichopus amurensis* Stackelberg, 1930

**Material examined.** 1♂, Primorye, Ussuriisky Distr., Kamenushka, Barsukovka River, 13.06.1979, R. G. Soboleva (FCBV).

**Distribution.** Type locality: Russia: “Amur-lande: Banjbo, Port-Ajan” (= Khabarovsk Territory, Ayan, 56°45'N, 138°16'E). Palae-arctic: Mongolia, Russia (Khabarovsk, Primorye).

*Dolichopus aubertini* Parent, 1934

**Material examined.** 1♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: China, “Tientsin” (= Tianjin). Palae-arctic: China (Beijing, Hebei, Tianjin), Russia (Primorye).

*Dolichopus bigeniculatus* Parent, 1926

**Material examined.** 1♂, Primorye, Vladivostok, 12th km, 19.07.1985, V. N. Makarkin; 1♂, Primorye, Arsenyev, agrolandscape, 28.06.1986, V. N. Makarkin; 5♂, Primorye, Arsenyev, 10, 12.08.1990, V. N. Makarkin; 5♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin (all in FCBV); 9♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

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

*Dolichopus calceatus* Parent, 1927

**Material examined.** 1♂, Primorye, Lesozavodsky Distr., Innokentyevka, 10.07.1976, A. Berezantsev; 2♂, Primorye, Chernigovskiy Distr., Gorniy Khutor, sweeping on *Ambrosia*, 4.07.1988, L. Esipenko; 2♂, Primorye, Chernigovskiy Distr., Evseevka, sweeping, 20.06.1988, L. Esipenko (all in FCBV).

**Distribution.** Type locality: Russia, Zabaikalye: “Transbaikale; Pjetschanka (= Peschanka), b. Tschita.” Palae-arctic: China, Kazakhstan, Russia (Altai Rep., Amur Region, Buryatia, Irkutsk, Kamchatka, Khabarovsk, Primorye, Tomsk, Yakutia, Zabaikalye).

*Dolichopus cuneipennis* Parent, 1926

**Material examined.** 1♂, Primorye, Chernigovskiy Distr., Gorniy Khutor, sweeping on *Ambrosia*, 15.07.1988, L. Esipenko (FCBV).

**Distribution.** Type locality: China: “Tchen-Kiang, Zi-Ka-Wei” (= Xujiahui, near Shanghai). Palae-arctic: China (Heilongjiang, Jilin, Shaanxi), Russia (Kuriles, Primorye); Oriental: China (Shanghai).

*Dolichopus discifer* Stannius, 1831

**Material examined.** 1♂, Primorye, Partizansky Mt. Range, Olkhovaya Mt., 1660 m, 8.08.1986, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Germany. Holarctic species.

*Dolichopus disharmonicus* Smirnov, 1948

**Material examined.** 1♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, Okeanskaya, near Vladivostok. Palae-arctic: Russia (Primorye).

*Dolichopus eurypterus* Gerstäcker, 1864

**Material examined.** 1♂, Primorye, Ussuriiskiy Distr., Kamenushka, light trap, 13.07.1979, R. G. Soboleva; 1♂, Primorye, [Ussuriisk, Gorno-Tayozhnoe vil.], Gornotayozhnaya station, arboretum, 27.06.1980, M. Mikhailovskaya; 2♂, Primorye, Spassky Distr., Novoselskoe, 29.06., 29.07.1985, V. N. Makarkin; 1♂, Primorye, Khorol, 31.08.1986, V. N. Makarkin; 1♂, Primorye, Khasansky Distr., Ryazanovka, light trap, 12.08.1987, V. N. Makarkin; 16♂, Primorye, Chernigovskiy Distr., Dmitrievka, sweeping on *Ambrosia*, 15, 19.07., 20.08.1988, L. Esipenko; 9♂, Primorye, Chernigovskiy Distr., Gorniy Khutor, sweeping on *Ambrosia*, 26.07.1987, 11, 15.07.1988, L. Esipenko; 14♂, Primorye, Chernigovskiy Distr., Evseevka, sweeping on *Ambrosia*, 7, 11.06., 4, 6, 15.07.1988, L. Esipenko (all in FCBV).

**Distribution.** Type locality: Germany, Berlin. Palae-arctic: Belgium, Czechia, Germany, Hungary, Kazakhstan, Latvia, Poland, Russia (Khabarovsk, Primorye).

*Dolichopus griseifacies* Becker, 1917

**Material examined.** 14♂, Primorye, Oblachnaya Mt., 1700 m, 17, 18.07.1993, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, “Irkutsk, Sibirien.” Palae-arctic: Russia (Amur Region, Buryatia, Irkutsk, Khabarovsk, Primorye). First reliable record from Primorye.

***Dolichopus henanus*** Yang, 1999

**Material examined.** 2♂, Primorye, Arsenyev, 27.07.1985, V. N. Makarkin (ZIN ex coll. FCBV).

**Distribution.** Type locality: China: Henan, Xixia. Palaeartic: China (Henan).

**Notes.** The species is reported from Russia for the first time.

***Dolichopus hilaris*** Loew, 1862

**Material examined.** 1♂, Primorye, Spassky Distr., Novoselskoe, 29.06.1985, V. N. Makarkin (FCBV); 12♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN); 1♂, Primorye, Chernigovsky Distr., Dmitrievka, sweeping, 1.08.1983, Arfin, Ivliev (ZIN ex coll. FCBV).

**Distribution.** Type locality: Poland, Międzyrzecz. Trans-Palaeartic species.

***Dolichopus kumazawai*** Maslova, Negrobov et Fursov, 2014

**Material examined.** 6♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Japan, Honshu, Aichi Pref., Nagoya, Nagakutecho Park. Palaeartic: Japan.

**Notes.** The species is reported from Russia for the first time.

***Dolichopus linearis*** Meigen, 1824

**Material examined.** 2♂, Primorye, Arsenyev, agrolandscape, 28.06.1986, V. N. Makarkin; 3♂, Chernigovsky Distr., Gornyi Khutor, sweeping on *Ambrosia*, 4.07.1988, L. Esipenko; 1♂, Primorye, Chernigovsky Distr., Dmitrievka, sweeping on *Ambrosia*, 4.07.1988, L. Esipenko; 1♂, Primorye, Chernigovsky Distr., Evseevka, sweeping on *Ambrosia*, 6.07.1988, L. Esipenko; 1♂, Primorye, Spassky Distr., Prokhory, sweeping on *Ambrosia*, 6.07.1990, L. Esipenko; 1♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin (all in FCBV).

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

***Dolichopus leucopus*** Smirnov, 1948

**Material examined.** 28♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk,

45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, Lake shore, Kosheleva (ZIN).

**Distribution.** Type localities: Russia: "Okeanskaya, near Vladivostok; Suchan (= Partizansk); Kamen-Rybolov, Krivoi Klyuch, Gornotayozhnaya station." Palaeartic: Russia (Khabarovsk, Primorye).

***Dolichopus longicornis*** Stannius, 1831

**Material examined.** 2♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin; 1♂, Primorye, Krasnoarmeisky Distr., Dersu, Bol'shaya Ussurka (= Iman) River, 13.06.1990, V. N. Makarkin (all in FCBV).

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

***Dolichopus martynovi*** Stackelberg, 1930

**Material examined.** 1♂, Primorye, [Ussuriisk, Gorno-Tayozhnoe vil.], Gornotayozhnaya station, arboretum, 3.07.1980, M. Mikhailovskaya; 3♂, Primorye, Chernigovsky Distr., Evseevka, sweeping, 26.07.1987, L. Esipenko; 18♂, Primorye, Chernigovsky Distr., Dmitrievka, sweeping on *Ambrosia*, 1, 7.06., 4, 6, 11, 15.07., 19.08.1988, 6.07.1990, L. Esipenko; 2♂, Primorye, Chernigovsky Distr., Evseevka, sweeping, 6.07.1990, L. Esipenko; 14♂, Primorye, Spassky Distr., Prokhory, sweeping, 6.07.1990, L. Esipenko (all in FCBV).

**Distribution.** Type locality: Russia, Primorye, Ryabokon Peninsula. Palaeartic: China (Hebei, Heilongjiang, Inner Mongolia, Jilin, Ningxia, Shaanxi, Xinjiang), Russia (Primorye), Kazakhstan, Mongolia.

***Dolichopus microstigma*** Stackelberg, 1930

**Material examined.** 1♂, Primorye, Ussuriisky Distr., Kamenushka env., forest, 10.07.1979, R. G. Soboleva (FCBV).

**Distribution.** Type locality: Russia, Primorye, Sedanka. Palaeartic: Mongolia, Russia (Primorye, Sakhalin).

***Dolichopus migrans*** Zetterstedt, 1843

**Material examined.** 28♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Sweden: Gottlandia, Nahr, Hoburg et Furillen. Trans-Palaeartic species.

*Dolichopus nataliae* Stackelberg, 1930

**Material examined.** 1♂, Primorye, [Ussuriisk, Gorno-Tayozhnoe vil.], Gornotayozhnaya station, arboretum, 19.06.1980, M. Mikhailovskaya (FCBV).

**Distribution.** Type localities: Russia, Primorye, “Spassk–Yakovlevka road at Ugodinza (= Pyatigorka) River; Tigrovaya.” Palaeartic: Russia (Khabarovsk, Magadan, Primorye, Yakutia).

*Dolichopus nitidus* Fallén, 1823

**Material examined.** 5♂, Primorye, Spassky Distr., Novoselskoe, 28, 29, 30.06.1985, V. N. Makarkin; 1♂, Primorye, Vladivostok, 12th km, 26.08.1986, V. N. Makarkin; 1♂, Primorye, Khorol, 29.08.1986, V. N. Makarkin; 1♂, Primorye, Chernigovsky Distr., Gornyi Khutor, sweeping, 26.07.1987, L. Esipenko; 1♂, Primorye, Arsenyev, 12.08.1990, V. N. Makarkin (all in FCBV).

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

*Dolichopus plumipes* (Scopoli, 1763)

**Material examined.** 2♂, Primorye, Spassky Distr., Novoselskoe, 28, 29.06.1985, V. N. Makarkin; 1♂, Primorye, Arsenyev, 28.06.1986, V. N. Makarkin; 3♂, Primorye, Vladivostok, 12th km, 19.07.1985, V. N. Makarkin; 8♂, Primorye, Arsenyev, agrolandscape, 28, 30.06.1986, V. N. Makarkin; 1♂, Primorye, Chernigovsky Distr., Dmitrievka, sweeping, 1.08.1983, Arefin, Ivliev; 1♂, Primorye, Khasansky Distr., Ryazanovka, 24.06.1987, V. N. Makarkin; 4♂, Primorye, Chernigovsky Distr., Evseevka, sweeping on *Ambrosia*, 11.06., 4.07.1988, L. Esipenko; 2♂, Primorye, Chernigovsky Distr., Gornyi Khutor, sweeping on *Ambrosia*, 28.06., 15.07.1988, L. Esipenko (all in FCBV); 6♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09′31.8″N, 131°59′58.2″E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

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

*Dolichopus plumitarsis* Fallén, 1823

**Material examined.** 1♂, Primorye, Pogranichnyi Distr., Barabash-Levada env., 24.06.1980, Krivolutskaya, Moroz; 1♂, Primorye, Khorol env., oak forest, 16.06.1981, V. A. Mutin; 1♂, Primorye, Chernigovsky Distr., Gornyi Khutor, sweeping on *Ambrosia*, 15.07.1988, L. Esipenko (all in FCBV).

**Distribution.** Type locality: “Sweden.” Trans-Palaeartic species; Nearctic: Canada (Ontario), USA (Alaska).

*Dolichopus punctum* Meigen, 1824

**Material examined.** 8♂, Primorye, Spassky Distr., Novoselskoe, 30.06.1985, V. N. Makarkin; 1♂, Primorye, Spassky Distr., [Gorno-Tayozhnoe vil.], Gornotayozhnaya station, 19.07.1990, V. N. Makarkin (all in FCBV).

**Distribution.** Type locality: Germany, “Gegend von Berlin.” Palaeartic: Austria, Finland, Germany, Poland, Russia (Khabarovsk, Leningrad, Moscow, Primorye, Yakutia), Sweden.

*Dolichopus rezvorum* Stackelberg, 1930

**Material examined.** 1♂, Primorye, Kedrovaya Pad, 21.07.1976, R. G. Soboleva; 1♂, Primorye, Ussuriisky Distr., Kamenushka, Komarovka River, 27.06.1979, R. G. Soboleva; 1♂, Primorye, Ussuriisky Distr., Kamenushka, Barsukovka River, 3.07.1979, R. G. Soboleva; 1♂, Primorye, [Ussuriisk, Gorno-Tayozhnoe vil.], Gornotayozhnaya station, arboretum, 3.07.1980, M. Mikhailovskaya (all in FCBV).

**Distribution.** Type localities: Russia, Primorye, Tigrovaya; Sedanka; road Spassk–Yakovlevka at River Ugodinza (= Pyatigorka). Palaeartic: Mongolia, Russia (Khabarovsk, Krasnoyarsk, Primorye).

*Dolichopus ringdahli* Stackelberg, 1930

**Material examined.** 4♂, Primorye, Arsenyev, 27.07.1985, V. N. Makarkin (FCBV).

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

*Dolichopus robustus* Stackelberg, 1928

**Material examined.** 1♂, Primorye, Kedrovaya Pad, Kedrovaya River, 11.06.1982, R. G. Soboleva; 1♂, Primorye, 5 km NW Barabash, valley forest, clearing, 1.06.1982, G. Lafer; 2♂, Primorye, middle flow of Nezhinka River, Kabanii spring, 8.06.1986, V. N. Makarkin; 2♂,

Primorye, right tributary of Razdolnaya River, upper reaches of M. Ananyevka, 10.06.1986, V. N. Makarkin; 1♂, Primorye, Khasansky Distr., Ryazanovka, 14.06.1987, V. N. Makarkin (all in FCBV).

**Distribution.** Type localities: Russia, Primorye, “Süd-Ussuri-Gebiet, Sutshan (= Partizansky) Distr., Tigrovaja und Sitza (now unpopulated Narechnoe village, ~43°08′00″N 133°08′00″E); Spassk Distr., Jakovlevka und Ugodinza (= Pyatigorka) River, 20 km nach W von Jakovlevka.” Palaeartic: China (Shandong), Russia (Altai Rep., Amur Region, Buryatia, Irkutsk, Kamchatka, Khabarovsk, Krasnoyarsk, Moscow, Primorye, Yakutia).

*Dolichopus shamshevi* Negrobov, Selivanova et Maslova, 2014

**Material examined.** 1♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09′31.8″N, 131°59′58.2″E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Russia, Kamchatka, Petropavlovsk-Kamchatsky env., Nagornyi. Palaeartic: Russia (Amur Region, Kamchatka, Khabarovsk, Krasnoyarsk, Magadan, Primorye, Sakhalin, Zabaikalye).

*Dolichopus simius* Parent, 1927

**Material examined.** 4♂, Primorye, [Ussuriisk, Gorno-Tayozhnoe vil.], Gornotayozhnaya station, arboretum, 27, 30.06., 3.07.1980, M. Mikhailovskaya; 1♂, Primorye, Vladivostok, 12th km, 19.07.1985, V. N. Makarkin; 1♂, Primorye, Arsenyev, agrolandscape, 28.06.1986, V. N. Makarkin; 1♂, Primorye, Arsenyev, 28.06.1986, V. N. Makarkin; 1♂, Primorye, Anisimovka, Smolnyi spring, 8.07.1986, V. N. Makarkin (all in FCBV).

**Distribution.** Type locality: Russia, Irkutsk Region: “Siberia: environs d'Irkutsk.” Palaeartic: 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).

*Dolichopus stackelbergi* Smirnov, 1948

**Material examined.** 2♂, Primorye, Spassky Distr., Novoselskoe, 29, 30.06.1985, V. N. Ma-

karkin; 2♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin (all in FCBV); 2♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09′31.8″N, 131°59′58.2″E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Russia, Primorye, Nerpa (Bay), near Slavyanka. Palaeartic: Russia (Kuriles, Primorye).

*Dolichopus uniseta* Stackelberg, 1929

**Material examined.** 1♂, Primorye, Ussuriisky Distr., Kamenushka, Komarovka River, 27.06.1979, R.G. Soboleva; 1♂, Primorye, Ussuriisky Distr., Kamenushka, 13.07.1979, R. G. Soboleva; 2♂, Primorye, Spassky Distr., Novoselskoe, 29, 30.06.1985, V. N. Makarkin; 4♂, Primorye, Chernigovskiy Distr., Evseevka, sweeping on *Ambrosia*, 7, 20.06., 4, 6.07.1988, L. Esipenko; 1♂, Primorye, Chernigovskiy Distr., Gornyi Khutor, sweeping on *Ambrosia*, 4.07.1988, L. Esipenko; 2♂, Primorye, Spassky Distr., Prokhory, sweeping on *Ambrosia*, 6, 11.07.1990, L. Esipenko; 1♂, Primorye, Arsenyev, 12.08.1990, V. N. Makarkin (all in FCBV); 2♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09′31.8″N, 131°59′58.2″E, 1–4.09.2019, lake shore, Kosheleva; 1♂, Primorye, Partizansky Distr., Lozovyi env., station, 24.08.2019, mountain springs, Kosheleva; 1♂, Primorye, Partizansk env., sweeping, 25.08.2019, mountain springs, Kosheleva (all in ZIN).

**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; Süd-Ussuri-Gebiet: Jakovlevka, Kreis Spassk.” Palaeartic: China (Heilongjiang, Hebei, Beijing, Shaanxi), Russia (Khabarovsk, Primorye, Yakutia).

*Dolichopus vadimiani* Negrobov et Barkalov, 1978

**Material examined.** 1♂, Primorye, Partizansky Mt. Range, Olkhovaya Mt., 1660 m, 8.08.1986, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, Primorye, Sikhote-Alinsky Nature Reserve, Mayse cordon. Palaeartic: Russia (Primorye).



***Dolichopus xanthopyga*** Stackelberg, 1930

**Material examined.** 1♂, Primorye, Chernigovsky Distr., Dmitrievka, soya, 3.08.1984, Arefin, Ivliev; 12♂, Primorye, Chernigovsky Distr., Gornyi Khutor, sweeping on *Ambrosia*, 7, 28.06., 4, 11, 17.07.1988, L. Esipenko; 3♂, Primorye, Chernigovsky Distr., Evseevka env., 26.07.1977, G. O. Krivolutskaya; 4♂, Primorye, Chernigovsky Distr., Dmitrievka, sweeping on *Ambrosia*, 4, 11, 15.07.1988, L. Esipenko; 3♂, Primorye, Chernigovsky Distr., Evseevka, sweeping on *Ambrosia*, 4.07.1988, 6.07.1990, L. Esipenko (all in FCBV); 12♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type localities: Russia, Primorye: "Yakovlevka env., Staraya Devitsa, Ryabokon Peninsula, Lefu (= Ilistaya) River mouth." Palaeartic: China (Heilongjiang), Russia (Khabarovsk, Primorye).

Genus *Gymnopternus* Loew, 1857

***Gymnopternus daubichensis*** (Stackelberg, 1933)

**Material examined.** 1♂, Primorye, Kedrovaya Pad, central station, 3.08.1976, R. G. Soboleva; 1♂, Primorye, Ussuriisky Distr., Kamenushka, Barsukovka River, 3.07.1979, R. G. Soboleva; 1♂, Primorye, [Ussuriisk, Gorno-Tayozhnoe vil.], Gornotayozhnaya station, Krivoi spring, 9.06.1980, M. Mikhailovskaya; 1♂, Primorye, Ussuriisky Distr., Kamenushka, 7.08.1981, Belova; 2♂, Primorye, Spassky Distr., Novoselskoe, 29.06.1985, V. N. Makarkin; 1♂, Primorye, Arsenyev, 28.06.1986, V. N. Makarkin; 6♂, Primorye, Khasansky Distr., Ryazanovka, 18, 24, 25.06., 14.08.1987, V. N. Makarkin (all in coll. FCBV); 1♂, Primorye, Partizansky Mt. Range, Olkhovaya Mt., 1660 m, 8.08.1986, V. N. Makarkin (ZIN ex coll. FCBV).

**Distribution.** Type locality: Russia, Primorye: "Ussuri-Gebiet, Dorf Jakoblevka, Distrikt Spassk." Palaeartic: Russia (Kuriles, Primorye).

***Gymnopternus nemorum*** (Smirnov et Negrobov, 1977)

**Material examined.** 1♂, Primorye, Partizansky Mt. Range, Olkhovaya Mt., 1660 m, 8.08.1986, V. N. Makarkin; 1♂, Primorye,

Iman River, Melnichnoe vic., fir, 14.07.1991, Sidorenko; 2♂, Primorye, Khasansky Distr., Ryazanovka, 23.07.1987, 25.07.1993, V. N. Makarkin (all in coll. FCBV); 1♂, Primorye, Khanka Lake, 45.825°N, 131.02°E, 15–19.07.2018, N. Vikhrev; 2♂, Primorye, Volchanets env., 42.908°N, 132.726°E, 1–4.08.2019, E. Erofeeva (all in ZMMU).

**Distribution.** Type locality: Russia, Primorye, Partizansk. Palaeartic: Russia (Kuriles, Primorye).

***Gymnopternus pseudoceler*** (Stackelberg, 1933)

**Material examined.** 5♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin (FCBV).

**Distribution.** Type locality: Russia, "Primorye, Ussuri." Palaeartic: Russia (Kuriles, Primorye).

***Gymnopternus rohdendorfi*** (Stackelberg, 1933), **comb. nov.**

**Material examined.** 1♂, Primorye, Anisimovka, 450 m, 43.13°N, 132.80°E, 21–24.07.2018, N. Vikhrev (ZMMU).

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

**Notes.** *Hercostomus rohdendorfi* characters correspond to the genus *Gymnopternus* (as defined by Brooks 2005), including nearly straight wing vein M, R<sub>4+5</sub> and M subparallel, pleuron with a cluster of fine setulae in front of the posterior spiracle (not mentioned by Stackelberg 1934), fore tibia with an anterodorsal comb-like row of strong setae, hypopygium morphology etc.

***Gymnopternus ussurianus*** (Stackelberg, 1933)

**Material examined.** 1♂, Primorye, Kedrovaya Pad, central station, 23.07.1976, R. G. Soboleva; 1♂, Primorye, Shkotovsky Distr., Tikhookeansky [= Fokino], 30.07.1979, Yu. D. Bodrova; 2♂, Primorye, Ussuriisky Distr., Kamenushka, 7.08.1981, Belova; 5♂, Primorye, Khasansky Distr., Ryazanovka, 23.07.1987, 25.07.1993, V. N. Makarkin; 5♂, Primorye, Chernigovsky Distr., Gornyi Khutor, sweeping on *Ambrosia*, 7.06., 11.07.1988, L. Esipenko; 4♂, Primo-

rye, Chernigovsky Distr., Evseevka, sweeping, 15.07.1988, L. Esipenko; 8♂, Primorye, Arsenyev, 25, 26, 27.07.1985, 10.08.1990, V. N. Makarkin; 1♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin; 2♂, Primorye, Iman River, Melnichnoe vic., BLP, 14.07.1991, Sidorenko (all in coll. FCBV); 1♂, Primorye, Khanka Lake, 45.825°N, 131.02°E, 15–19.07.2018, N. Vikhrev; 1♂, Andreevka, 42.7°N, 131.1°E, 26–31.07.2018, N. Vikhrev; 1♂, Andreevka, 42.7°N, 131.1°E, 1–3.08.2018, N. Vikhrev; 3♂, Ryazanovka, 42.827°N, 131.23°E, 1.08.2018, N. Vikhrev; 1♂, Primorye, 10 km NE Vladivostok, 43.21°N, 132.07°E, 21–29.07.2019, E. Erofeeva (all in ZMMU).

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

Genus *Hercostomus* Loew, 1857

*Hercostomus beijingensis* Yang, 1996

**Material examined.** 1♂, Primorye, [Ussuriisk, Gorno-Tayozhnoe vil.], Gornotayozhnaya station, 12.07.1990, Makarkin; 1♂, Primorye, 10 km NE Vladivostok, 43.21°N, 132.07°E, 21–29.07.2019, E. Erofeeva (all in ZIN ex coll. FCBV and ZMMU).

**Distribution.** Type locality: China: Beijing, Yingtaogou. Palaeartic: China (Beijing, Henan, Shaanxi); Oriental: China (Hubei)

**Notes.** The males from Primorye are very similar to *H. beijingensis* as described by Yang (1996), but smaller, 4.5 mm vs. 6 mm, and may belong to a new species.

*Hercostomus kedrovicus* Negrobov et Logvinovskii, 1977

**Material examined.** 8♂, Primorye, Kedrovaya Pad, central station, 21.07., 1, 3, 6.08.1976, R. G. Soboleva (FCBV).

**Distribution.** Type locality: Russia, Primorye, Kedrovaya Pad Nature Reserve. Palaeartic: Russia (Primorye).

*Hercostomus udeorum* Stackelberg, 1933

**Material examined.** 2♂, Primorye, Vladivostok, 12th km, [Akademicheskaya],

26.08.1986, V. N. Makarkin; 1♂, Primorye, Khorol, 4.09.1986, V. N. Makarkin; 2♂, 1♀, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08. 1991, V. N. Makarkin (all in coll. FCBV).

**Distribution.** Type locality: Russia, Primorye: “Ussuri-Gebiet bei der Station Tigrovaya, Distr. Sutshan (= Partizansky).” Palaeartic: Russia (Altai Rep., Amur Region, Khabarovsk, Primorye).

Genus *Hydrophorus* Fallén, 1823

*Hydrophorus albiceps* Frey, 1915

**Material examined.** 2♀, Primorye, Vladivostok, Malaya Sedanka mouth, 43.21°N, 131.98°W, 26.09.2021, Grichanov (ZIN).

**Distribution.** Type locality: “Eriksberg, Hifors, Viborg, Ylane, Uleaborg, Muonio, Kuusamo” [Finland, Russia]. Palaeartic: Austria, Belgium, Denmark, Finland, France, Ireland, Mongolia, Netherlands, Norway, Russia (Kamchatka, Krasnoyarsk, Leningrad, Murmansk, NW Siberia), Sweden, UK. First record from Primorye.

Genus *Medetera* Fischer von Waldheim, 1819

*Medetera penicillata* Negrobov, 1970

**Material examined.** 1♂, Primorye, Shkotovsky Distr., Peishula (= Suvorovka River), 1.06.1972, Arefin; 3♂, Primorye, Shkotovsky Distr., imago on cedar trunk, infested by *Y. sexdentatus*, 1.06.1972, Arefin; 2♂, Primorye, Shkotovsky Distr., from pupa in *Y. sexdentatus* holes, 1.06.1972, Arefin (all in coll. FCBV).

**Distribution.** Type locality: Russia, Primorye, Suputinsky (= Ussuriisky) Nature Reserve. Palaeartic: Japan, Russia (Altai Rep., Krasnoyarsk, Novosibirsk, Primorye, Tomsk).

*Medetera victoris* Negrobov, 1972

**Material examined.** 1♂, 2♀, Primorye, Vladivostok, Makovskogo Str. 11A, 43.20°N, 131.94°W, 22, 24.09.2021, Grichanov; 1♀, Primorye, Vladivostok, 100 Let Vladivostoku Str. 159, 43.19°N, 131.92°W, 24.09.2021, Grichanov; 1♀, Primorye, Vladivostok, Vereshchagina Str. 15, near Sedanka River, 43.21°N, 131.98°W, 26.09.2021, Grichanov (all in ZIN).

**Distribution.** Type locality: Russia: Ussuri, Sutshan Distr., Tigrovaja. Palaeartic: Russia (Primorye).

Genus *Neurigona* Rondani, 1856

*Neurigona flavella* Negrobov, 1987

**Material examined.** 2♂, 21♀, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Russia, Primorye, Kedrovaya Pad Nature Reserve. Palaeartic: Russia (Kuriles, Primorye).

*Neurigona niniae* Negrobov, 1987

**Material examined.** 1♂, Primorye, Ussuriisky Nature Reserve, Komarovka River valley, 5.06.1989, Sidorenko (FCBV).

**Distribution.** Type locality: Russia, Primorye, Komarovo-Zapovednoe. Palaeartic: Russia (Primorye).

Genus *Paraclius* Loew, 1864

*Paraclius argenteus* Negrobov, 1984

**Material examined.** 3♂, 3♀, Primorye, Kedrovaya Pad, 21.07.1976, R. G. Soboleva (FCBV).

**Distribution.** Type locality: Russia, Primorye, Kedrovaya Pad Nature Reserve. Palaeartic: Japan, Russia (Primorye).

Genus *Poecilobothrus* Mik, 1878

*Poecilobothrus flaveolus* (Negrobov et Chalya, 1987)

**Material examined.** 2♂, Primorye, Krasnoarmeisky Distr., Dersu, soya, 19–26.08.1991, V. N. Makarkin (FCBV); 1♂, Primorye, Partizansky Distr., Lozovyi env., station, 24.08.2019, mountain springs, Kosheleva (ZIN).

**Distribution.** Type locality: Russia, Primorye, Spassky Distr., Nakhimovka. Palaeartic: China (Beijing, Heilongjiang, Shaanxi), Japan, Russia (Amur Region, Khabarovsk, Primorye); Oriental: China (Hunan).

*Poecilobothrus pterostichoides* (Stackelberg, 1934)

**Material examined.** 3♂, Primorye, Kedrovaya Pad, central station, 6.7.08.1976, R. G. Soboleva; 2♂, Primorye, Shkotovsky Distr., Tikhookeansky [= Fokino], 30.07.1979, Yu. D. Bodrova (all

in coll. FCBV); 1♀, Primorye, Vladivostok, Malaya Sedanka mouth, 43.21°N, 131.98°W, 26.09.2021, Grichanov (ZIN).

**Distribution.** Type locality: Russia, Primorye: "Ussuri-Gebiet, bei der Station Tigrovaja, Sutshan" (= Ussuriiskaya oblast, near Tigrovaya station, Suchan; now Primorsky Kray, Tigrovoy village, Partizansky Distr.). Palaeartic: China (Beijing, Shaanxi), Russia (Primorye).

Genus *Rhaphium* Meigen, 1803

*Rhaphium albifrons* Zetterstedt, 1843

**Material examined.** 4♂, Primorye, Khasansky Distr., Ryazanovka, 19, 20.06.1987, V. N. Makarkin (ZIN ex coll. FCBV).

**Distribution.** Type locality: Norway: "Scandinavia boreali–Norvegia Gamaes Vaerdalialae." Trans-Palaeartic species.

*Rhaphium dispar* Coquillett, 1898

**Material examined.** 1♂, Primorye, Arsenyev, 27.07.1985, V. N. Makarkin (ZIN ex coll. FCBV).

**Distribution.** Type locality: Japan. Palaeartic: Japan, Russia (Kamchatka, Magadan, Primorye, Sakhalin); Oriental: China (Guizhou, Sichuan, Taiwan, Zhejiang).

*Rhaphium dorsiseta* Tang, Wang et Yang, 2016

**Material examined.** 1♂, Primorye, Khasansky Distr., Ryazanovka, 16.06.1987, V. N. Makarkin (ZIN ex coll. FCBV).

**Distribution.** Type locality: China: Inner Mongolia, Daqinggou, Primeval forest. Palaeartic: China (Inner Mongolia).

**Notes.** The species is reported from Russia for the first time.

*Rhaphium fascipes* (Meigen, 1824)

**Material examined.** 1♂, Primorye, Ussuriisky Reserve, W border, 130 m, 22.05.1992, V. N. Makarkin (ZIN ex coll. FCBV).

**Distribution.** Type locality: Germany: Hamburg. Holarctic species. First record from Primorye.

*Rhaphium flavilabre* Negrobov, 1979

**Material examined.** 1♂, Primorye, Khasansky Distr., Ryazanovka, 15.06.1987, V. N. Makarkin; 1♂, Primorye, Vladivostok, Sedanka station, 7.06.1991, V. N. Makarkin (all in ZIN ex coll. FCBV).

**Distribution.** Type locality: Primorye, Komarovo-Zapovednoe, Ussuriisky Nature Reserve. Palaearctic: Russia (Khabarovsk, Primorye, Sakhalin).

*Rhaphium mediocre* (Becker, 1922)

**Material examined.** 1♂, Primorye, Andreevka, 42.7°N, 131.1°E, 26–31.07.2018, N. Vikhrev (ZMMU); 1♂, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: China: Taiwan: Taihoku [= Taipei] [and Kankau]. Palaearctic: China (Hubei, Shanghai); Oriental: China (Guizhou, Hong Kong, Taiwan, Yunnan).

**Notes.** The species is reported from Russia for the first time.

*Rhaphium micans* (Meigen, 1824)

**Material examined.** 2♂, Primorye, Khasansky Distr., Ryazanovka, 12.06., 18.07.1987, V. N. Makarkin; 1♂, Primorye, Chernigovsky Distr., Dmitrievka, soya, 4.09.1984, Arefin, Ivliev; 1♂, Primorye, Spassky Distr., Prokhory, sweeping on *Ambrosia*, 6.07.1990, L. Esipenko (all in coll. FCBV); 22♂, 19♀, Primorye, Khankaisky Distr., 6 km N Novokachalinsk, 45°09'31.8"N, 131°59'58.2"E, 1–4.09.2019, lake shore, Kosheleva (ZIN).

**Distribution.** Type locality: Germany: "Hamburg." Trans-Palaearctic species.

Genus *Syntormon* Loew, 1857

*Syntormon violovitshi* Negrobov, 1975

**Material examined.** 1♂, Primorye, Krasnoarmeisky Distr., 19–26.08.1991 (ZIN ex coll. FCBV).

**Distribution.** Type locality: Russia, Petropavlovsk-Kamchatsky env., Nagornyi vil. Palaearctic: Japan, Korea, Russia (Kamchatka, Kuriles, Sakhalin). First record from Primorye.

## Conclusion

Grichanov, Selivanova (2021) suggested that the dolichopodid fauna of Primorye should increase by 10%. As a result of the study of a new material from the FCBV and some other collections, new records are given for 73 species of long-legged flies. *Hercostomus rohdendorfi* is transferred to the genus *Gymnopternus*. *Mesorhaga janata* Negrobov is placed in synonymy with *Amblypsilopus pilosus* (Negrobov). *Dolichophorus immaculatus*, *Dolichopus henanus*, *D. kumazawai*, *Hercostomus beijingensis*, *Rhaphium dorsisetata*, and *R. mediocre* are found for the first time in Russia. *Chrysotus caerulescens*, *Hydrophorus albiceps*, *Rhaphium fascipes* and *Syntormon violovitshi* are reported from Primorye for the first time. In total, 215 species from 31 genera of Dolichopodidae are known in the regional fauna. The number has increased by 5% during the present research.

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## References

- Bickel, D. J. (1994) Insects of Micronesia. Volume 13, no. 8. Diptera: Dolichopodidae. Part I. Sciapodinae, Medeterinae and Sympycninae (part). *Micronesica*, vol. 27, no. 1/2, pp. 73–118. (In English)
- Brooks, S. E. (2005) Systematics and phylogeny of the Dolichopodinae (Diptera: Dolichopodidae). *Zootaxa*, vol. 857, pp. 1–158. <https://doi.org/10.5281/zenodo.170753> (In English)
- Grichanov, I. Ya. (2020) New records of Dolichopodidae (Diptera) from Russian Primorye and notes on some Chinese species. *Russian Entomological Journal*, vol. 29, no. 4, pp. 432–438. <https://doi.org/10.15298/rusentj.29.4.12> (In English)

- Grichanov, I. Ya. (2021) *Alphabetic list of generic and specific names of predatory flies of the epifamily Dolichopodoidae (Diptera)*. Saint Petersburg: All-Russian Research Institute of Plant Protection Publ. [Online] Available at: <http://grichanov.aiq.ru/genera3.htm/> (accessed 01.12.2021). (In English)
- Grichanov, I. Ya., Chursina, M. A., Wang, M. (2021) Detection of biodiversity local centers and gradients of change of Dolichopodidae (Diptera) in East Asia. *Journal of Insect Biodiversity*, vol. 28, no. 1, pp. 13–34. <https://doi.org/10.12976/jib/2021.28.1.2> (In English)
- Grichanov, I. Ya., Selivanova, O. O. (2021) An annotated checklist of Dolichopodidae (Diptera) species from Primorsky Territory, Russia, with new records. *Amurskij zoologicheskij zhurnal — Amurian Zoological Journal*, vol. 13, no. 2, pp. 202–227. <https://www.doi.org/10.33910/2686-9519-2021-13-2-202-227> (In English)
- Negrobov, O. P. (1979) Novyj vid roda Mesorhaga Schiner (Diptera, Dolichopodidae) Primor'ya i Yaponii [New species of Mesorhaga Schiner (Diptera, Dolichopodidae) from Primorye and Japan]. In: *Trudy Vsesoyuznogo entomologicheskogo obshchestva AN SSSR. T. 61. Novye vidy nasekomykh [Proceedings of the All-Union Entomological Society. Vol. 61. New species of insects]*. Leningrad: Nauka Publ., pp. 188–190. (In Russian)
- Negrobov, O. P. (1984) Novye dlya faun Palearktiki i SSSR rody semejstva Dolichopodidae (Diptera) [The genera of the family Dolichopodidae (Diptera), new for the faunas of Palaearctic and USSR]. *Zoologicheskij zhurnal*, vol. 63, no. 7, pp. 1111–1115. (In Russian)
- Negrobov, O. P. (1991) Family Dolichopodidae. In: A. Soos, L. Papp (eds.). *Catalogue of Palaearctic Diptera. Vol. 7: Dolichopodidae — Platypezidae*. Budapest: Akademiai Kiado Publ., pp. 11–139. <https://doi.org/10.1016/B978-0-444-98731-0.50008-9> (In English)
- Negrobov, O. P., Tsurikov, M. N., Maslova, O. O. (2000) Reviziya palearkticheskikh vidov roda *Chrysotus* Mg. (Diptera, Dolichopodidae), III [Revision of the Palaearctic species of the genus *Chrysotus* Mg. (Diptera, Dolichopodidae), III]. *Entomologicheskoye obozreniye*, vol. 79, no. 1, pp. 227–238. (In Russian)
- Selivanova, O. V., Negrobov, O. P., Maslova, O. O. (2009) Novye dannye o vidakh roda *Argyra* Macquart, 1834 (Dolichopodidae, Diptera) v faune Rossii [New data on species of the genus *Argyra* Macquart, 1834 (Dolichopodidae, Diptera) in the fauna of Russia]. *Vestnik zoologii*, vol. 43, no. 4, p. 304. (In Russian)
- Yang, D. (1996) New species of Dolichopodinae from China (Diptera, Dolichopodidae). *Entomofauna*, vol. 17, no. 18, pp. 317–324. (In English)
- Yang, D., Zhang, L., Wang, M., Zhu, Y. (2011) *Fauna Sinica, Insecta. Vol. 53, Dolichopodidae*. Beijing: Science Press, 1912 p. (In Chinese)
- Yang, D., Zhang, L. L., Zhang, K. Y. (2018) *Species catalogue of China. Vol. 2. Animals, Insecta (VI), Diptera (2), Orthorrhaphous Brachycera*. Beijing: Science Press, 387 p. (In English)

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