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# New records of Dolichopodidae (Diptera) from Khabarovsk Krai, Russia

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***Abstract.*** A new material of Dolichopodidae has been recently collected from the central part of the Khabarovsk Krai and includes 38 species. Sixteen species are recorded from this territory for the first time, including *Gymnopternus klowdeni* (Olejníček, 2002), which is new for Russia. Twelve species are known at present only from the easternmost Palaearctic Region: *Argyra flavida* Negrobov, 1973, *A. shamshevi* Selivanova et Negrobov 2007, *Dolichopus soldatovi* Negrobov, Selivanova et Maslova, 2013, *D. xanthopyga* Stackelberg, 1930, *Gymnopternus daubichensis* (Stackelberg, 1933), *Gymnopternus nemorum* (Smirnov et Negrobov, 1977), *G. rohdendorfi* (Stackelberg, 1933), *G. ussurianus* (Stackelberg, 1933), *Rhaphium curvitarsus* Negrobov, Maslova et Selivanova, 2020, *R. firsovi* Stackelberg et Negrobov, 1976, *R. flavilabre* Negrobov, 1979, and *Syntormon violovitshi* Negrobov, 1975. This paper also provides distribution patterns for each collected species. In total, 104 species are reported from this Region that apparently makes up 50–60% of actual Dolichopodidae regional fauna.

***Keywords:*** Dolichopodidae, long-legged fly, Russian Far East, Khabarovsk Krai, new records

# Новые указания Dolichopodidae (Diptera) из Хабаровского края, Россия

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***Аннотация.*** Новый материал по семейству Dolichopodidae собран в центральной части Хабаровского края; новые указания включают 38 видов. Впервые в крае отмечено 16 видов, в том числе новый для России *Gymnopternus klowdeni* (Olejnicek, 2002). В настоящее время 12 видов известны только из дальневосточной части Палеарктики: *Argyra flavida* Negrobov, 1973, *A. shamshevi* Selivanova et Negrobov 2007, *Dolichopus soldatovi* Negrobov, Selivanova et Maslova, 2013, *D. xanthopyga* Stackelberg, 1930, *Gymnopternus daubichensis* (Stackelberg, 1933), *Gymnopternus nemorum* (Smirnov et Negrobov, 1977), *G. rohdendorfi* (Stackelberg, 1933), *G. ussurianus* (Stackelberg, 1933), *Rhaphium curvitarsus* Negrobov, Maslova et Selivanova, 2020, *R. firsovi* Stackelberg et Negrobov, 1976, *R. flavilabre* Negrobov, 1979 и *Syntormon violovitshi* Negrobov, 1975. В статье приведено также общее распространение для каждого отловленного вида. Всего в крае отмечено 104 вида, что, по-видимому, составляет 50–60% региональной фауны Dolichopodidae.

***Ключевые слова:*** Dolichopodidae, мухи-зеленушки, Дальний Восток России, Хабаровский край, новые указания

## Introduction

Khabarovsk Krai is located in the Russian Far East, bordering with the Sakha Republic and Amur Oblast in the west; with the Jewish Autonomous Oblast, China (Heilongjiang), and Primorsky Krai in the south; and is limited by the Sea of Okhotsk in the east. It is located in the Amur meadow steppe ecoregion and Ussuri broadleaf and mixed forests ecoregion in the south, Okhotsk-Manchurian taiga ecoregion in the central and eastern parts, in the East Siberian taiga and Northeast Siberian taiga ecoregions in the north with several plots of mountain tundra (Ecoregions 2017). It has insufficiently studied fauna of long-legged flies, specifically, in specially protected areas. The first list of 75 dolichopodid species from the Khabarovsk Krai and Jewish Autonomous Oblast was published by Grichanov (Grichanov 2006) who provided materials for 21 species new for the two regions. The Jewish Autonomous Oblast withdrew from the Khabarovsk Krai in 1993 and became an equal subject of the Russian Federation. Only twelve species of Dolichopodidae were found in the Jewish Oblast, including one species (*Chrysotus degener* Frey, 1917) yet undiscovered from the Khabarovsk Krai.

Later, several more dolichopodid species were reported from the Khabarovsk Krai (Maslova et al. 2012: 153; Negrobov et al. 2013; 2014; 2018; Grichanov, Selivanova 2022). As a result of recent research, the Khabarovsk Krai numbers 88 species of long-legged flies in its fauna.

The material for this study was recently collected by Drs Nikita Vikhrev (Moscow) and Oleg Kosterin (Novosibirsk), dried and mounted on pins; it will be deposited at the Zoological Institute of the Russian Academy of Sciences, Saint Petersburg (ZIN) and Zoological Museum of Moscow State University (ZMMU). Females of some genera are not sorted as they could hardly be distinguished from females of closely related species inhabiting the Far East. New records for 38 species, collected in the central part of the Krai, are listed below. The information on the global distribution for each species follows Grichanov (Grichanov 2024). The type localities are provided and the country lists are arranged alphabetically. The words 'Region' (Oblast) and 'Territory' (Krai) are omitted from the list of Russian regions. Remarks are provided where deemed necessary. An asterisk (*) designates species collected from the Khabarovsk Krai for the first time.

## New Records

### Genus ***Argyra*** Macquart, 1834

***1. *Argyra flavida*** Negrobov, 1973

**Material examined**. 1♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev; 1♂, Khabarovsk env., airport, 48.53°N, 135.13°E, 5–7.06.2022, N. Vikhrev.

**Distribution**. Type locality: Russia, Primorye, Spassk-Dal'ny–Yakovlevka road, Pyatigorka River. Palaearctic: Russia (Primorye).

***2. *Argyra shamshevi*** Selivanova et Negrobov 2007

**Material examined**. 2♂, Khabarovsk, 48.6°N, 135.1°E, 13.06.2014, N. Vikhrev; 2♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev.

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

### Genus ***Campsicnemus*** Haliday, 1851

***3. Campsicnemus picticornis*** (Zetterstedt, 1843)

**Material examined**. 1♂, Khabarovsk, 48.6° N, 135.1°E, 2–6.06.2014, N. Vikhrev.

**Distribution**. Type locality: Sweden: 'Sueciameridionali et media, in Scania ad Raften; Ostrogothia ad Larketorp; Haradshammar; Holmiam'. Trans-Palaearctic temperate species.

***4. Campsicnemus scambus*** (Fallén, 1823)

**Material examined**. 1♂, Vanino, 49.11° N, 140.31°E, 9.06.2014, N. Vikhrev.

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

### Genus ***Dolichopus*** Latreille, 1796

***5. Dolichopus bigeniculatus*** Parent, 1926

**Material examined**. 1♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev; 1♂, Khabarovsk env., airport, 48.53°N, 135.13°E, 5–7.06.2022, N. Vikhrev; 1♂, Khabarovsk, N Manoma, 49.33°N, 136.61° E, 22.06.2022, N. Vikhrev; 1♂, Khabarovsk, Solnechnyi env., 50.72°N, 136.67° E, 17–19.06.2022, N. Vikhrev; 1♂, Amur River at vill. Bychikha, 30–36 m,

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48.307–313°N, 134.810–829°E, 9.08.2020, O. Kosterin; 1♂, Kirovskii 3distr., SE vill. Gornye Klyuchi, 74–76 m, 45.2208–2336°N, 134.5141–5221°E, 29–30.07.2020, O. Kosterin.

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

***6. Dolichopus caligatus*** Wahlberg, 1850

**Material examined**. 1♂, Amur River at vill. Bychikha, 30–36 m, 48.307–313°N, 134.810–829°E, 9.08.2020, O. Kosterin.

**Distribution**. Type locality: Sweden: Koonprope Marstrand, Gusum Ostrogothiae. Palaearctic: Austria, Denmark, Finland, Germany, Lithuania, Netherlands, Norway, Russia (Karelia, Khabarovsk, Leningrad), Sweden, UK.

***7. Dolichopus gubernator*** Mik, 1878

**Material examined**. 1♂, 4 km S Khabarovsk, Gur River, 50.01°N, 137.08°E, 21.06.2022, N. Vikhrev.

**Distribution**. Type locality: Austria: 'bei Hammern in Mühlviertel in Oberösterreich'. Palaearctic: Europe (Austria, Estonia, Finland, Latvia, Poland); Russia (from Karelia to Kamchatka, Sakhalin, and Kuriles), Japan.

**8. **Dolichopus lepidus*** Staeger, 1842

**Material examined**. 1♂, 20 km NE Lidoga, 49.62°N, 137.10°E, 15.06.2022, N. Vikhrev; 1♂, Khabarovsk, Solnechnyi env., 50.72°N, 136.67°E, 17–19.06.2022, N. Vikhrev.

**Distribution**. Type locality: Denmark: 'Leersoen i Slutningen' [Lersoen nearby Copenhagen]. Trans-Palaearctic and Oriental (China) species. Some old records from the Far East may belong to *Dolichopus microstigma* Stackelberg, 1930.

***9. Dolichopus linearis*** Meigen, 1824

**Material examined**. 2♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev.

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

**10. **Dolichopus longicornis*** Stannius, 1831

**Material examined**. 1♂, Amur River at vill. Bychikha, 3036 m, 48.307–313°N, 134.810–829°E, 9.08.2020, O. Kosterin.

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

***11. Dolichopus nitidus*** Fallén, 1823

**Material examined**. 5♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev; 5♂, Khabarovsk, Mayak env., 48.90°N, 136.19°E, 8, 24.06.2022, N. Vikhrev; 2♂, 20 km NE Lidoga, 49.62°N, 137.10°E, 15.06.2022, N. Vikhrev; 1♂, Amur River at vill. Bychikha, 30–36 m, 48.307–313°N, 134.810–829°E, 9.08.2020, O. Kosterin.

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

***12. Dolichopus plumipes*** (Scopoli, 1763)

**Material examined**. 3♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev.

**Distribution**. Type locality: Slovenia, 'Carnioliae indigena'. Mainly Holarctic species also occurring in Neotropical (Mexico) and Oriental (China, India) regions.

***13. Dolichopus plumitarsis*** Fallén, 1823

**Material examined**. 3♂, Khabarovsk, N Manoma, 49.33°N, 136.61°E, 22.06.2022, N. Vikhrev.

**Distribution**. Type locality: 'Sweden'. Trans-Palaearctic species; Nearctic: Canada (Ontario), USA (Alaska).

**14. **Dolichopus pospelovi*** Smirnov, 1948

**Material examined**. 1♂, Khabarovsk, Mayak env., 48.90°N, 136.19°E, 8, 24.06.2022, N. Vikhrev.

**Distribution**. Type localities: Russia, Primorye, Sudzukhinsky (=Lazovsky) Nature Reserve, Ta-Chingauz (=Kievka) Bay, and Sudzukhe (=Kievka) River. Palaearctic: Russia (Primorye, Yakutia).

***15. *Dolichopus punctum*** Meigen, 1824

**Material examined**. 3♂, 4 km S Khabarovsk, Gur River, 50.01°N, 137.08°E, 21.06.2022, N. Vikhrev.

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

***16. Dolichopus robustus*** Stackelberg, 1928

**Material examined**. 1♂, Khabarovsk, N Manoma, 49.33°N, 136.61°E, 8–9.06.2022, N. Vikhrev; 1♂, Khabarovsk, Solnechnyi env., 50.72°N, 136.67°E, 17–19.06.2022, N. Vikhrev.

**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'. Palaearctic: China (Shandong), Russia (Altai Rep., Amur Oblast, Buryatia, Irkutsk, Kamchatka, Khabarovsk, Krasnoyarsk, Moscow, Primorye, Yakutia).

***17. Dolichopus simius*** Parent, 1927

**Material examined**. 2♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev; 1♂, Khabarovsk, N Manoma, 49.33°N, 136.61°E, 22.06.2022, N. Vikhrev.

**Distribution**. Type locality: Russia, Irkutsk Region: 'Siberia: environs d'Irkutsk'. Palaearctic: China (Heilongjiang, Inner Mongolia), Mongolia, Russia (Altai Rep., Bashkortostan, Amur Oblast, Buryatia, Commander Is., Irkutsk, Kamchatka, Khabarovsk, Khakassia, Krasnoyarsk, Kuriles, Magadan, Moscow, Novosibirsk, Primorye, Sakhalin, Sverdlovsk, Tomsk, Yakutia, Zabaikalye).

***18. Dolichopus soldatovi*** Negrobov, Selivanova et Maslova, 2013

**Material examined**. 1♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev; 1♂, 4 km S Khabarovsk, Gur River, 50.01°N, 137.08°E, 21.06.2022, N. Vikhrev.

**Distribution**. Type locality: Khabarovskii krai, lower reach of Amur River, Nizhnevyatskoe. Palaearctic: Russia (Amur Oblast, Khabarovsk).

***19. Dolichopus taigensis*** Smirnov, 1948

**Material examined**. 1♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev.

**Distribution**. Type locality: Russia, Primorye, Kluch Podnebesnyi, Sikhote-Alin Nature Reserve. Palaearctic: Russia (Kamchatka, Karelia, Khabarovsk, Magadan, Primorye, Yakutia), Uzbekistan.

***20. Dolichopus xanthopyga*** Stackelberg, 1930

**Material examined**. 2♂, Bol'shoi Ussuriiskii Island, 48.33–42°N, 134.80-90°E, 26.07.2020, O. Kosterin.

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

Genus ***Gymnopternus*** Loew, 1857

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

**Material examined**. 3♂, Khabarovsk, Mayak env., 48.90°N, 136.19°E, 8, 24.06.2022, N. Vikhrev.

**Distribution**. Type locality: Russia, Primorye: 'Ussuri-Gebiet, Dorf Jakovlevka, Distrikt Spassk'. Palaearctic: Russia (Kuriles, Primorye).

***22. *Gymnopternus klowdeni*** (Olejníček, 2002)

**Material examined**. 1♂, Khabarovsk distr., Bol'shekhekhtsirskii Nat. Res., 2–2.6 km NE vill. Kazakevichevo, 48.2800–2848°N, 134.7571–7642°E, 23–26.07.2020, O. Kosterin; 1♂, Khabarovsk, Slavyanka env., 49.45°N, 136.79°E, 15.06.2022, N. Vikhrev.

**Distribution**. Type locality: Korea: Kumgangsan Mts, Okiyu Valley. Palaearctic: Korea. First record from Russia.

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

**Material examined**. 1♂, Khabarovsk distr., Bol'shekhekhtsirskii Nat. Res., 2–2.6 km NE vill. Kazakevichevo, 48.2800–2848°N, 134.7571–7642°E, 23–26.07.2020, O. Kosterin; 1♂, Amur River at vill. Bychikha, 30–36 m, 48.307–313°N, 134.810–829°E, 9.08.2020, O. Kosterin; 1♂, Khabarovsk, N Manoma, 49.33°N, 136.61°E, 22.06.2022, N. Vikhrev.

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

***24. Gymnopternus rohdendorfi*** (Stackelberg, 1933)

**Material examined**. 1♂, Khabarovsk, 48.6°N, 135.1°E, 13.06.2014, N. Vikhrev; 1♂, Khabarovsk, Slavyanka env., 49.45°N, 136.79°E, 15.06.2022, N. Vikhrev; 4♂, Khabarovsk, N Manoma, 49.33°N, 136.61°E, 22.06.2022, N. Vikhrev.

**Distribution**. Type locality: Russia: 'Ussuri Gebiet, beim Dorf Jakovlevka, Distr. Spassk'.

Palaearctic: Russia (Khabarovsk, Primorye, Yakutia).

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

**Material examined**. 4♂, Khabarovsk, 48.6°N, 135.1°E, 25.07.2014, N. Vikhrev; 1♂, Bychikha, 48.30°N, 134.82°E, 13.06.2014, N. Vikhrev; 1♂, Amur River at vill. Bychikha, 30–36 m, 48.307–313°N, 134.810–829°E, 9.08.2020, O. Kosterin; 2♂, Khabarovsk distr., vill. Bychikha, 81–84 m, 48.2917–2947°N, 134.8268–8290°E, 25.07.2020, O. Kosterin;

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3♂, Khabarovsk distr., Bol'shekhekhtsirskii Nat. Res., 2–2.6 km NE vill. Kazakevichevo, 48.2800–2848°N, 134.7571-7642°E, 23–26.07.2020, O. Kosterin.

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

Genus ***Hydrophorus*** Fallén, 1823

***26. Hydrophorus cinipunctus*** Negrobov, 1975

**Material examined**. 1♂, Taunga River, 600 m, 49.289°N, 138.594°E, 12.06.2014, N. Vikhrev.

**Distribution**. Type locality: Russia: 'Umgebung von Petropawlowsk-Kamtschatskij Nogomy'. Palaearctic: Mongolia, Russia (Amur Oblast, Buryatia, Kamchatka, Khabarovsk, Yakutia).

**27. *Hydrophorus viridis** (Meigen, 1824)

**Material examined**. 1♂, Khabarovsk, 48.6°N, 135.1°E, 25.07.2014, N. Vikhrev.

**Distribution**. Type locality: Austria. Trans-Palaearctic species.

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

**28. *Medetera infumata** Loew, 1857

**Material examined**. 5♂, Gobilly River, 49.22°N, 138.25°E, 8.06.2014, N. Vikhrev.

**Distribution**. Type locality: not given. Trans-Palaearctic species.

Genus ***Rhaphium*** Meigen, 1803

**29. *Rhaphium curvitarsus** Negrobov, Maslova et Selivanova, 2020

**Material examined**. 1♂, Taunga River, 600 m, 49.289°N, 138.594°E, 12.06.2014, N. Vikhrev.

**Distribution**. Type locality: Russia: Sakhalin, 41 km N Yuzhno-Sakhalinsk, village Pokrovka. Palaearctic: Russia (Sakhalin)

**30. *Rhaphium firsovi** Stackelberg et Negrobov, 1976

**Material examined**. 1♂, Khabarovsk env., airport, 48.53°N, 135.13°E, 5–7.06.2022, N. Vikhrev.

**Distribution**. Type locality: Russia: Primorye, Suchansky (=Partizansky) District, Tigrovaya. Nearctic: USA: Alaska; Palaearctic: Russia (Primorye).

***31. Rhaphium flavilabre*** Negrobov, 1979

**Material examined**. 1♂, Khabarovsk, 48.6°N, 135.1°E, 2–6.06.2014, N. Vikhrev; 2♂, Khabarovsk, N suburb, 48.6°N, 135.1°E, 27–30.06.2022, N. Vikhrev.

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

**32. *Rhaphium lanceolatum** Loew, 1850

**Material examined**. 1♂, Chistovodnyi River, 460 m, 49.10°N, 139.83°E, 10.06.2014, N. Vikhrev.

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

***33. Rhaphium latimanum*** Kahanpää, 2007

**Material examined**. 1♂, Taunga River, 600 m, 49.289°N, 138.594°E, 12.06.2014, N. Vikhrev.

**Distribution**. Type locality: Finland: Kilpisjarvi. Trans-Palaearctic boreal species.

***34. Rhaphium micans*** (Meigen, 1824)

**Material examined**. 1♂, Amur River at vill. Bychikha, 30-36 m, 48.307–313°N, 134.810–829°E, 9.08.2020, O. Kosterin.

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

***35. Rhaphium nigribarbatum*** (Becker, 1900)

**Material examined**. 1♂, Khabarovsk, 48.6°N, 135.1°E, 2–6.06.2014, N. Vikhrev; 1♂, Manoma River, 49.44°N, 137.41°E, 8.06.2014, N. Vikhrev; 2♂, Khabarovsk, Solnechnyi env., 50.72°N, 136.67°E, 17–19.06.2022, N. Vikhrev.

**Distribution**. Type locality: Russia: Khantaika. Holarctic boreal species.

Genus ***Syntormon*** Loew, 1857

**36. *Syntormon flexibilis** Becker, 1922

**Material examined**. 3♂, 1♀, Lososina, 49.01°N, 140.33°E, 11–13.06.2022, N. Vikhrev.

**Distribution**. Type localities: China, Taiwan, Taihorka; Anping; Tainan. Palaearctic: China (Hebei, Jiangsu), Japan, Russia (Blagoveshchensk, Primorye); Afrotropical, Australasian, Nearctic and Oriental regions.

***37. Syntormon monochaetus*** Negrobov, 1975

**Material examined**. 5♂, 4 km S Khabarovsk, Gur River, 50.01°N, 137.08°E,

21.06.2022, N. Vikhrev; 1♂, Khabarovsk, N Manoma, 49.33°N, 136.61°E, 22.06.2022, N. Vikhrev.

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

***38. *Syntormon violovitshi*** Negrobov, 1975

**Material examined**. 1♂, Vanino, 49.11°N, 140.31°E, 9.06.2014, N. Vikhrev.

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

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