

Additional data on the short-tongued bee fauna (Hymenoptera: Apoidea: Andrenidae, Halictidae, Melittidae) of Russia

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Дополнительные данные о короткоязычковых пчелах (Hymenoptera: Apoidea: Andrenidae, Halictidae, Melittidae) России

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Abstract. New data on distribution of 22 species of Russian short-tongued bees are given. Of them, the follow species are record for the first time: *Halictus sajo* Blüthgen, 1923 from Ural; *H. gavarnicus* Pérez, 1903 from Siberia; *Nomiapis fugax* (Morawitz, 1877) from European part of Russia; *Lasioglossum clypeare* (Schenck, 1853) from Crimea; *Lasioglossum corvinum* (Morawitz, 1877), *L. glabriusculum* (Morawitz, 1872), *L. griseolum* (Morawitz, 1872), *L. limbellum* (Morawitz, 1876), *L. lineare* (Schenck, 1869), and *Pseudapis elegantissima* (Popov, 1949) from North Caucasus. Four Halictidae species are excluded from the fauna of Russia.

Key words. Biodiversity, Apiformes, Palaearctic region.

Резюме. Приводятся новые данные по распространению 22 видов короткохоботковых пчел в России. Из них, *Halictus sajo* Blüthgen, 1923 впервые указывается для Урала, *H. gavarnicus* Pérez, 1903 – для Сибири, *Nomiapis fugax* (Morawitz, 1877) – для европейской части России, *Lasioglossum clypeare* (Schenck, 1853) – для Крыма, *Lasioglossum corvinum* (Morawitz, 1877), *L. glabriusculum* (Morawitz, 1872), *L. griseolum* (Morawitz, 1872), *L. limbellum* (Morawitz, 1876), *L. lineare* (Schenck, 1869) и *Pseudapis elegantissima* (Попов, 1949) – для Северного Кавказа. Четыре вида семейства Halictidae исключены из фауны России.

Ключевые слова. Биоразнообразие, Anthophila, Палеарктика.

Introduction

About 1200 species of bees (Hymenoptera: Apoidea: Apiformes) are recorded for the Russian fauna, and more than one half of them belongs to the short-tongued bees: Colletidae – 100 species, Andrenidae – 245, Halictidae – 263, Melittidae – 25 (Proshchalykin, Astafurova, 2017a). Here we continue our study of the taxonomic diversity and distribution patterns of the bees of Russia (Astafurova, Proshchalykin, 2015, 2016, 2017a;

Proshchalykin, Astafurova, 2016; Proshchalykin et al., 2017a, 2017b; Astafurova et al., 2017) that started in 2015 in the preparation of the “Annotated catalogue of Hymenoptera of Russia”. This paper is based on a material collected by authors in the North Caucasus and the European part of Russia and on the collection of the Zoological Institute, St Petersburg (ZISP). Distribution of species generally follow Astafurova, Proshchalykin (2017b) and Proshchalykin, Astafurova (2017b). New distribution records are marked with an asterisk (*).

List of species

Family Andrenidae

***Panurginus romani* Aurivillius, 1914**

Material examined. Russia: *Altai Terr., Taymenye Lake, 20–23.VII.2003 (M. Proshchalykin, V. Loktionov), 5 ♂; *Tyva Rep., Shuurmak, Shuurmak River, 11–12.VII.2003 (M. Proshchalykin, V. Loktionov), 5 ♀.

Distribution. Russia (European part, Siberia, Far East). – Europe.

Family Halictidae

***Halictus (Monilapis) sajoii* Blüthgen, 1923**

Material examined. Russia: *Orenburg Prov., Orenburg, 12.VII.1926 (Vorontsovskiy), 1 ♀.

Distribution. Russia (European part, Crimea, *Ural). – Europe, Azerbaijan, Armenia, Turkey, Iran, Turkmenistan, Kyrgyzstan, Kazakhstan.

***Halictus (Seladonia) gavarnicus* Pérez, 1903**

Material examined. Russia: *Altai Rep., Yailyu, 12–13.IX.1988 (E. Korneeva), 2 ♂, 3 ♀ [Yu. Pesenko determination, 1999].

Distribution. Russia (European part, North Caucasus, Crimea, Ural, *Western Siberia, Far East). – Europe, Caucasus, Turkey, Mongolia, China.

***Halictus (Seladonia) semitectus* Morawitz, 1874**

Material examined. Russia: *Altai Terr., Lebyazhye, 6.VIII.1948 (M. Nikolskaya), 2 ♀.

Distribution. Russia (European part, Ural, Siberia, Far East). – Europe, Armenia, Afghanistan, Mongolia, China.

***Lasioglossum (Evyllaesus) albipes albipes* (Fabricius, 1781)**

Material examined. Russia: *Leningradskaya Prov., Luga, 1 & 29.VII.2005 (Yu. Astafurova), 2 ♀.

Distribution. Russia (European part, North Caucasus, Ural, Siberia, Far East). – Europe, North Africa, Georgia, Turkey, Iran, Central Asia, Mongolia, China, Korea, Japan.

***Lasioglossum (Evyllaesus) aeratum* (Kirby, 1802)**

Material examined. Russia: *Leningradskaya Prov., Luga, 21.VI.2005 (Yu. Astafurova), 1 ♀.

Distribution. Russia (European part, North Caucasus). – Europe, Turkey, Syria, Iran, Central Asia, Kazakhstan.

***Lasioglossum (Evyllaesus) clypeare* (Schenck, 1853)**

Material examined. Russia: *Crimea Rep., Rybachye, 17.VI.1963 (A. Osychnjuk), 1 ♀; Kazantip, 13.VI.1963 (A. Osychnjuk), 1 ♀.

Distribution. Russia (European part, North Caucasus, *Crimea, Ural). – Europe, Turkey, Iran, Kyrgyzstan, Kazakhstan.

***Lasioglossum (Evyllaesus) convexiusculum* (Schenck, 1853)**

Material examined. Russia: *Belgorod Prov., Borisovka, 23.VI.1958 (Y. Wu), 1 ♀.

Distribution. Russia (European part, Ural). – Europe, Turkey, Iran.

***Lasioglossum (Evylaeus) corvinum* (Morawitz, 1877)**

Material examined. Russia: *Krasnodar Terr., Sochi, 30.VIII.1926 (A. Shestakov), 1 ♀, 1 ♂.

Distribution. Russia (European part, *North Caucasus, Crimea). – Europe, North Africa, Caucasus, Turkey, Iran.

***Lasioglossum (Evylaeus) glabriusculum glabriusculum* (Morawitz, 1872)**

Material examined. Russia: *Krasnodar Terr., Sochi, Okhun, 27.IX.1926 (A. Shestakov), 2 ♂, 1 ♀ [P. Bluthgen determined as *Halictus glabriusculus*]; *Stavropol Terr., Petrovskoye, 17.IV.1927 (V. Belizin), 1 ♂.

Distribution. Russia (European part, *North Caucasus). – Europe, Georgia, Turkey, Syria, Jordan, Israel, Iran.

***Lasioglossum (Evylaeus) griseolum griseolum* (Morawitz, 1872)**

Material examined. Russia: *Krasnodar Terr., Sochi, Razdolnoe, 15.IX.1926 (A. Shestakov), 1 ♂ [P. Bluthgen determined as *Halictus griseolus*].

Distribution. Russia (European part, *North Caucasus). – Europe, Turkey, Israel, Iran, Afghanistan.

***Lasioglossum (Evylaeus) limbellum* (Morawitz, 1876)**

Material examined. Russia: *Dagestan Rep., Derbent, 6.V. (coll. F. Morawitz), 1 ♀.

Distribution. Russia (European part, *North Caucasus). – Europe, North Africa, Caucasus, Turkey, Israel, Iran, Afghanistan, Uzbekistan, Tajikistan, China.

***Lasioglossum (Evylaeus) lineare* (Schenck, 1869)**

Material examined. Russia: *Krasnodar Terr., Varenkovskaya, 26.VI.1924 (Gittermann), 1 ♂.

Distribution. Russia (European part, *North Caucasus, Crimea). – Europe, Caucasus, Turkey, Syria, Israel, Iran, Turkmenistan.

***Lasioglossum (Evylaeus) parvulum* (Schenck, 1853)**

Material examined. Russia: *Komi Rep., Leika, 10.VII.1969 (L. Kupchikova), 1 ♀.

Distribution. Russia (European part, North Caucasus, Ural). – Europe, Armenia, Turkey, Iran.

***Lasioglossum (Evylaeus) quadrinotatum* (Schenck, 1861)**

Material examined. Russia: *Volgograd Prov., Sarepta [=Volgograd], 16.V.1909 (D. Glasunov), 1 ♀.

Distribution. Russia (European part, Ural, Eastern Siberia). – Europe, Turkey.

***Lasioglossum (Evylaeus) quadrisignatum* (Schenck, 1853)**

Material examined. Russia: *Saratov Prov., Elushanka, 30.VII.1933 (L. Zimina), 1 ♀ [V. Gussakovskij det.].

Distribution. Russia (European part, Crimea). – Europe, Caucasus, Turkey, Iran.

***Lasioglossum (Evylaeus) tarsatum* (Schenck, 1869)**

Material examined. Russia: *Volgograd Prov., Sarepta [=Volgograd], 21.V.1909 (D. Glasunov), 4 ♀.

Distribution. Russia (European part). – Europe, Afghanistan.

***Lasioglossum (Lasioglossum) leucozonium* (Schrank, 1781)**

Material examined. Russia: *Leningradskaya Prov., Luga, 21.VI–1.VII.2005 (Yu. Astafurova), 3 ♀.

Distribution. Russia (European part, Crimea, Ural, Eastern Siberia, Far East). – Europe, North Africa, Caucasus, Turkey, Near East, Afghanistan, Pakistan, Central Asia, Kazakhstan, Mongolia, China, India, North America.

***Nomiapis fugax* (Morawitz, 1877)**

Material examined. Russia: *Astrakhan Prov., 13 km S Liman, 24–26.VII.2015 (M. Proshchalykin); 30 ♀, 10 ♂; *Kalmykia Rep.: 17 km SWW Artezian, 18–21.VII.2015 (M. Proshchalykin), 14 ♀, 11 ♂; 4 km NE Yashkul', 16.VII.2015 (M. Proshchalykin), 1 ♂; 3 km SSE Tsagan-Nur, 13.VII.2015 (M. Proshchalykin), 1 ♀.

Distribution. Russia (*European part, North Caucasus, Eastern Siberia). – North Africa, Armenia, Azerbaijan, Turkey, Iran, Pakistan, Central Asia, Kazakhstan, China (NW).

***Pseudapis elegantissima* (Popov, 1949)**

Material examined. Russia: *Dagestan Rep., 9 km SSE Kochubey, 21–22.VII.2015 (M. Proshchalykin), 2 ♀, 4 ♂; Astrakhan Prov.: 13 km S Liman, 24–26.VII.2015 (M. Proshchalykin), 2 ♀.

Distribution. Russia (European part, *North Caucasus). – Azerbaijan, Iran, Turkmenistan, Uzbekistan, Tajikistan, Kazakhstan.

Family Melittidae

***Dasypoda hirtipes* (Fabricius, 1793)**

Material examined. Russia: *Novosibirsk Prov., Novosibirsk, Akademgorodok, 1–6.VIII.2017 (Yu. Astafurova), 5 ♀.

Distribution. Russia (European part, North Caucasus, Crimea, Ural, Siberia, Far East). – Europe, North Africa, Caucasus, Turkey, Iran, Kazakhstan, Mongolia, China.

***Melitta tricincta* Kirby, 1802**

Material examined. Russia: *Irkutsk Prov., “Irkuzk” [=Irkutsk] (collection by E. Eversmann), 1 ♂ (lectotype of *Andrena microstigma* Eversmann, 1852).

Distribution. Russia (European part, North Caucasus, Crimea, Ural, Siberia, Far East). – Europe, Kazakhstan, China.

Species excluded from the fauna of Russia

***Halictus (Hexataenites) fulvipes* (Klug, 1817)**

Records of the species from Crimea (Strand, 1909; Proshchalykin, Astafurova, 2012) and Rostov Prov. (Pesenko, 1972) were based on misidentifications and actually refers to *H. cochlearitarsis* (Dours, 1872).

***Lasioglossum (Lasioglossum) majus* (Nylander, 1852)**

According to Ebmer (2011) the records of the species from Central Asia and Ural were based on misidentifications and actually refers to *Lasioglossum discum* (Smith, 1853); the same way its record from Moscow Prov. by Mosolov (1905) is possible misidentification (Levchenko, 2015).

***Lasioglossum (Lasioglossum) sexmaculatum* (Schenck, 1853)**

The records of this species by Pesenko (1986) from Russia and Sitdikov (1986) from Udmurtia were based on misidentifications and actually refers to *Lasioglossum tungusicum* Ebmer, 1978 (Pesenko, 2006). The same way, the record of *L. sexmaculatum* from Moscow Prov. by Levchenko (2015) is wrong.

***Lasioglossum (Lasioglossum) subfasciatum* (Imhoff, 1832)**

This species were recorded by Pesenko (1986) from south of the European part of USSR without accurate locations. We have not found specimens of this species from Russia in the collection of ZISP.

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