

New records of bees of the genus *Hylaeus* Fabricius (Hymenoptera: Colletidae) in the European part of Russia and North Caucasus

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Новые находки пчел рода *Hylaeus* Fabricius (Hymenoptera: Colletidae) из европейской части России и с Северного Кавказа

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Abstract. As a supplement to a previously published study on Russian *Hylaeus* species, here we report further records of twenty one species from the European part of Russia and North Caucasus. Of which four species newly recorded from North Caucasus, *Hylaeus cornutus* Curtis, 1831 (Krasnodar Territory, Dagestan and Adygea Republics), *H. difformis* (Eversmann, 1852) (Krasnodar Territory), *H. leptcephalus* (Morawitz, 1871) (Krasnodar Territory), and *H. punctulatissimus* Smith, 1842 (Krasnodar Territory), and two species newly recorded from the south of the European part of Russia (Volgograd Province), *Hylaeus incongruus* Förster, 1871 and *H. lineolatus* (Schenck, 1861).

Key words. Fauna, Apiformes, Western Palaearctic region.

Резюме. В дополнение к предыдущим исследованиям рода *Hylaeus* в России приводится список 21 вида из европейской части и Северного Кавказа. Из них 4 вида впервые указываются для фауны Северного Кавказа: *Hylaeus cornutus* Curtis, 1831 (Краснодарский край, Республика Дагестан, Республика Адыгея), *H. difformis* (Eversmann, 1852) (Краснодарский край), *H. leptcephalus* (Morawitz, 1871) (Краснодарский край), *H. punctulatissimus* Smith, 1842 (Краснодарский край) и 2 вида для юга европейской части (Волгоградская область): *Hylaeus incongruus* Förster, 1871 и *H. lineolatus* (Schenck, 1861).

Ключевые слова. Фауна, Apiformes, Западная Палеарктика.

Introduction

The genus *Hylaeus* Fabricius, 1793 is a worldwide lineage of bees constituting a rather small percentage of the total bee fauna (Michener, 2007). The genus comprises presently 52 subgenera and about 600 species (Michener, 2007; Dathe, 2015). More than 200 species are known from the Palaearctic region with centres of its diversity in the Mediterranean Basin and Central Asia. The fauna of Russia has recently been

studied quite well and includes 57 species (Eversmann, 1852; Osytshnjuk, 1970; Osytshnjuk et al., 1978; Proshchalykin, Dathe, 2012, 2016a, 2016b; Proshchalykin, Astafurova, 2016; Proshchalykin et al., 2017).

This paper is based on a vast material collected in 2015 in the North Caucasus and southeast of the European part of Russia and on the collection of the Zoological Institute, St Petersburg (ZISP).

The following abbreviations for collectors are used: AS – A. Shestakov, LW – L. Wollmann, MM – M. Mokrousov, MP – M. Proshchalykin, SB – S. Belokobylskij, VL – V. Loktionov, VR – V. Rudolf. Distribution of *Hylaeus* species generally follow Proshchalykin (2017). New records are marked with an asterisk (*).

List of species

Hylaeus (Abrupta) cornutus Curtis, 1831

Material examined. Russia: Volgograd Prov., Sarepta [=Volgograd], 15.VIII.1929, Shestakov's collection, 1 ♀. Krasnodar Terr., Sochi, 24.IX.1926 (AS), 2 ♂. *Adygea, Shuntuk, Maykop, 12.VII.1938 (Andreeva), 1 ♀. *Dagestan Rep., 9 km SSE Kochubey, 21 & 22.VII.2015 (MP, VL, MM, SB), 1 ♂.

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

Hylaeus (Dentigera) breviceps Morawitz, 1876

Material examined. Russia: Dagestan Rep., 12 km SSW Kizlyar, 22 & 23.VII.2015 (MP, VL, MM, SB), 1 ♀, 3 ♂.

Distribution. Russia (North Caucasus, Crimea). – Europe, Tajikistan.

Hylaeus (Dentigera) brevicornis Nylander, 1852

Material examined. Russia: Dagestan Rep., 9 km SSE Kochubey, 21 & 22.VII.2015 (MP, VL, MM, SB), 3 ♂; 12 km SSW Kizlyar, 22 & 23.VII.2015 (MP, VL, MM, SB), 5 ♀, 4 ♂.

Distribution. Russia (European part, North Caucasus, Crimea, Siberia). – Europe, North Africa, Azerbaijan, Turkey, Israel, Iran, Central Asia.

Hylaeus (Dentigera) gredleri Förster, 1871

Material examined. Russia: Astrakhan Prov., 13 km S Liman, 24–26.VII.2015 (MP, VL, MM, SB), 4 ♀. Dagestan Rep., 9 km SSE Kochubey, 21 & 22.VII.2015 (MP, VL, MM, SB), 8 ♀; 12 km SSW Kizlyar, 22 & 23.VII.2015 (MP, VL, MM, SB), 4 ♂.

Distribution. Russia (European part, North Caucasus, Ural, Western Siberia). – Europe, North Africa, Azerbaijan, Turkey, Lebanon.

Hylaeus (Hylaeus) angustatus (Schenck, 1861)

Material examined. Russia: Volgograd Prov., Sarepta [=Volgograd], 23–26.VII.1926 (AS), 4 ♂. Dagestan Rep., 9 km SSE Kochubey, 21 & 22.VII.2015 (MP, VL, MM, SB), 4 ♀; 12 km SSW Kizlyar, 22 & 23.VII.2015 (MP, VL, MM, SB), 2 ♀, 3 ♂.

Distribution. Russia (European part, North Caucasus, Crimea, Siberia). – Europe, North Africa, Azerbaijan, Turkey, Lebanon, Iran, Mongolia.

Hylaeus (Hylaeus) annulatus (Linnaeus, 1758)

Material examined. Russia: Leningrad Prov., Peterburg [=St. Petersburg], Popovka, 26.VII.1901 & 7.VII.1926 (LW), 3 ♂. Yaroslavl Prov., Yaroslavl, 2–26.VII.1928 (AS), 1 ♀, 3 ♂. Kostroma Prov., Kostroma, 10.VII.1924, Gussakovskij's collection, 1 ♀.

Distribution. Russia (European part, Crimea, Ural, Siberia, Far East). – Europe, Armenia, Azerbaijan, Mongolia, North America.

Hylaeus (Hylaeus) communis Nylander, 1852

Material examined. Russia: Yaroslavl Prov., Yaroslavl, 13–17.VII.1927 (AS), 13 ♀. Dagestan Rep., 9 km SSE Kochubey, 21 & 22.VII.2015 (MP, VL, MM, SB), 4 ♂; 12 km SSW Kizlyar, 22 & 23.VII.2015 (MP, VL, MM, SB), 1 ♀.

Distribution. Russia (European part, North Caucasus, Crimea, Ural, Siberia, Far East). – Europe, North Africa, Azerbaijan, Turkey, Lebanon, Iran, Central Asia, Kazakhstan.

Hylaeus (Hylaeus) leptcephalus (Morawitz, 1871)

Material examined. Russia: Belgorod Prov., Borisovka, 20.VII.1957 (Wu), 1 ♀. Volgograd Prov., Sarepta [=Volgograd], Chepurinskaya balka, 23.VII.1926 & 16.VIII.1929 (AS), 2 ♂; 6 km SW Kamyshin, 10 & 25.VII.2015 (MP, VL, MM, SB), 4 ♂. *Krasnodar Terr., Sochi, 31.IX.1926 (AS), 1 ♂.

Distribution. Russia (European part, *North Caucasus, Siberia, Far East). – Europe, Armenia, Azerbaijan, Iran.

Hylaeus (Hylaeus) moricei (Friese, 1898)

Material examined. Russia: Kalmykia Rep., 22 km E Yashkul', 16–18.VII.2015 (MP, VL, MM, SB), 1 ♀; 17 km SWW Artezian, Kuma River, 18–21.VII.2015 (MP, VL, MM, SB), 5 ♀, 5 ♂. Krasnodar Terr., 3 km S Lazorevskoe, 20.VIII.1952 (VR), 5 ♂.

Distribution. Russia (European part, North Caucasus, Eastern Siberia). – Europe, North Africa, Armenia, Azerbaijan, Turkey, Iran.

Hylaeus (Hylaeus) scutellaris Morawitz, 1874

Material examined. Russia: Krasnodar Terr., 3 km S Lazorevskoe, 20.VIII.1952 (VR), 2 ♀, 6 ♂.

Distribution. Russia (European part, North Caucasus). – Azerbaijan, Afghanistan, Turkmenistan, Uzbekistan.

Hylaeus (Koptogaster) punctulatissimus Smith, 1842

Material examined. Russia: *Krasnodar Terr., 3 km S Lazorevskoe, 20.VIII.1952 (VR), 1 ♀.

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

Hylaeus (Lambdopsis) dilatatus (Kirby, 1802)

Material examined. Russia: Yaroslavl Prov., Yaroslavl, 22.VI.1925 (AS), 1 ♂. Volgograd Prov., Sarepta [=Volgograd], 16.VIII.1929, Shestakov's collection, 3 ♀. Krasnodar Terr., Sochi, 27.IX.1926 (AS), 1 ♀. Dagestan Rep., 9 km SSE Kochubey, 21 & 22.VII.2015 (MP, VL, MM, SB), 1 ♀, 5 ♂; 12 km SSW Kizlyar, 22 & 23.VII.2015 (MP, VL, MM, SB), 8 ♀, 4 ♂.

Distribution. Russia (European part, North Caucasus, Crimea, Ural, Siberia). – Europe, North Africa, Azerbaijan, Turkey, Kazakhstan.

Hylaeus (Paraprosopis) lineolatus (Schenck, 1861)

Material examined. Russia: *Volgograd Prov., 6 km SW Kamyshin, 10 & 28.VII.2015 (MP, VL, MM, SB), 3 ♀, 5 ♂; 18 km NNE Kalach-on-Don, 10–13.VII.2015 (MP, VL, MM, SB), 1 ♂. Krasnodar Terr., Sochi, 27.IX.1926 (AS), 1 ♂.

Distribution. Russia (European part, North Caucasus, Crimea). – Europe, North Africa, Azerbaijan, Turkey, Jordan, Lebanon, Israel.

Hylaeus (Paraprosopis) sinuatus (Schenck, 1853)

Material examined. Russia: Krasnodar Terr., 3 km S Lazorevskoe, 20.VIII.1952 (VR), 2 ♂.

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

Hylaeus (Paraprosopis) styriacus Förster, 1871

Material examined. Russia: Krasnodar Terr., 3 km S Lazorevskoe, 8 & 20.VIII.1952 (VR), 3 ♀.

Distribution. Russia (European part, North Caucasus, Crimea, Western Siberia). – Europe, Armenia, Azerbaijan, Turkey, Lebanon, Iran.

Hylaeus (Patagiata) difformis (Eversmann, 1852)

Material examined. Russia: Yaroslavl Prov., Yaroslavl, 3–14.VII.1928 (AS), 5 ♂. *Krasnodar Terr., Krasnaya polyana, 30.VI.1909 (A. Yakovlev), 1 ♂.

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

***Hylaeus (Prosopis) confusus* Nylander, 1852**

Material examined. Russia: Leningradskaya Prov., Petersburg [=St Petersburg], Popovka, 7.VII.1926 (LW), 3 ♀. Belgorod Prov., Borisovka, 27.VI.1959 (Wu), 1 ♂.

Distribution. Russia (European part, North Caucasus, Crimea, Siberia, Far East). – Europe, Armenia, Azerbaijan, Turkey, Central Asia, Mongolia, China, Japan.

***Hylaeus (Prosopis) gibbus* Saunders, 1850**

Material examined. Russia: Yaroslavl Prov., Berditsino, 3.VII.1927 (A. Yakovlev), 2 ♀, 2 ♂. Krasnodar Terr., Sochi, Razdol'noe, 9–31.VIII.1926 (AS), 6 ♂.

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

***Hylaeus (Prosopis) incongruus* Förster, 1871**

Material examined. Russia: *Volgograd Prov., 6 km SW Kamyshin, 10 & 28.VII.2015 (MP, VL, MM, SB), 5 ♀, 5 ♂.

Distribution. Russia (European part, North Caucasus, Eastern Siberia). – Europe.

***Hylaeus (Prosopis) meridionalis* Förster, 1871**

Material examined. Russia: Volgograd Prov., Sarepta [=Volgograd], Chepurinskaya balka 12.VIII.1928 (AS), 4 ♂; 6 km SW Kamyshin, 28.VII.2015 (MP, VL, MM, SB), 2 ♂.

Distribution. Russia (European part, North Caucasus). – Europe, North Africa, Azerbaijan, Turkey, Jordan, Israel.

***Hylaeus (Prosopis) variegatus* (Fabricius, 1798)**

Material examined. Russia: Krasnodar Terr., 3 km S Lazorevskoe, 8 & 20.VIII.1952 (VR), 5 ♂.

Distribution. Russia (European part, North Caucasus, Crimea, Ural, Siberia, Far East). – Europe, North Africa, Armenia, Azerbaijan, Turkey, Syria, Lebanon, Iran, Central Asia, Mongolia, China.

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