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NEW RECORDS OF VESPIDAE AND MEGACHILIDAE (HYMENOPTERA) IN RUSSIA

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New data on distribution of three species of Vespidae and 12 species of Megachilidae are given. *Stenodynerus aequisculptus* (Kostylev, 1940) is new for Russia.

Key words: vespid wasps, megachilid bees, distribution, North Caucasus, Siberia.

INTRODUCTION

The present contribution was made within the framework of the preparing “Catalogue of Hymenoptera of Russia” in which the first author takes part in the chapters on Vespidae and Megachilidae. This is the fourth and the last paper prepared during this work (Fateryga, 2017a, b; Fateryga et al., 2017). The paper deals with the material collected mainly by the second author in the North Caucasus and Western Siberia. These regions are poor studied faunistically in reference to wasp- and bee fauna. Especially, this is applied to Megachilidae as well as most other groups of the bees (Proshchalykin, Astafurova, 2017). The present contribution adds one species of Vespidae new for Russia, and enlarges known distribution of two other species. At the same time it adds new localities for 12 species of Megachilidae in the North Caucasus and Western Siberia. The 13th species of Megachilidae remains unidentified. Complete lists of species in these families in the fauna of Russia will be published in the “Catalogue of Hymenoptera of Russia”.

MATERIAL AND METHODS

The material for the present study is deposited in the collections of the Taurida Academy of the V. I. Vernadsky Crimean Federal University, Simferopol, Russia (formerly V. I. Vernadsky Taurida National University) (CFUS) and private collection of I. B. Popov, Krasnodar, Russia (CIPK). The distribution of Vespidae is given according mainly to Kurzenko (1978) and Gusenleitner (2013a, b). The distribution of Megachilidae is given according mainly to Banaszak and Romasenko (2001), Proshchalykin (2012), Kuhlmann et al. (2015), Ascher and Pickering (2017), and Müller (2017). The abbreviations of the regions of Russia (in distribution sections) are as follows: EP, European part (without the North Caucasus and Crimea); NC, North Caucasus; CR, Crimea; UR, Ural; WS, Western Siberia; ES, Eastern Siberia; FE, Far East. New records are asterisked (*). The limits of the North Caucasus include Krasnodar Territory, Stavropol Territory, and the republics of Adygea, Karachay-Cherkessia, Kabardino-Balkaria, North Ossetia-Alania, Ingushetia, Chechnya, and Dagestan.

RESULTS

Family Vespidae

Stenodynerus aequisculptus (Kostylev, 1940)

Material examined. Russia: Krasnodar Terr., Abrau Peninsula, Utrish State Nature Reserve, Lobanov Ravine, on mud, 16.VII.2012, 1 ♂, leg. I. Popov (CIPK); Krasnodar Terr., Goryachiy Kluch, stanitsa Imeretinskaya, forest edge, 15–27.VII.2013, 1 ♂, leg. E. Khomitsky (CFUS); *ibid.*, 12.V.2015, 1 ♂, leg. I. Popov (CIPK).

Distribution. *Russia (NC), W, E and S Europe, N Africa, Caucasus, Turkey, Cyprus, Syria, Lebanon, Israel, Pakistan, Central Asia, Kazakhstan.

***Stenodynerus clypeopictus* (Kostylev, 1940)**

Material examined. Russia: Krasnodar Terr., Temryuk distr., Verbyanaya Spit, 17.VI.2017, 1 ♀, leg. I. Popov (CFUS).

Distribution. Russia (*NC, FE), W, E and S Europe, Caucasus, Turkey, Kyrgyzstan, Kazakhstan, Mongolia, China, Korea, Japan.

***Stenodynerus sapidus* Giordani Soika, 1970**

Material examined. Russia: Kalmykia, 17 km SWW Artezian, riv. Kuma, 44.9343°N 46.455083°E, 20.VII.2015, 2 ♀, leg. S. Belokobylskij, V. Loktionov, M. Mokrousov, M. Proshchalykin (CFUS).

Distribution. Russia (*EP, NC), Iran.

Family Megachilidae

***Coelioxys (Allocoelioxys) emarginatus* Förster, 1853**

Material examined. Russia: Novosibirsk Prov., Karasuk distr., 6–8.VIII.2017, 1 ♀, leg. I. Popov (CIPK).

Distribution. Russia (EP, CR, UR, WS, ES, FE), W, E and S Europe, N Africa, Armenia, Turkey, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, China, India.

Remarks. The species is already known from Western Siberia but this is its first documented record for Novosibirsk Province.

***Heriades (Heriades) crenulata* Nylander, 1856**

Material examined. Russia: Krasnodar Terr., Temryuk distr., stanitsa Veselovka, 11.VII.2017, 1 ♀, 1 ♂, leg. I. Popov; Krasnodar Terr., Gelendzhik, Krinitsa, 16.VIII.2017, 2 ♀, leg. I. Popov (CIPK).

Distribution. Russia (EP, *NC, CR), W, E and S Europe, N Africa, Georgia, Azerbaijan, Turkey, Kazakhstan.

***Heriades (Heriades) rubicola* Pérez, 1890**

Material examined. Russia: Krasnodar Terr., Temryuk distr., Verbyanaya Spit, 17.VI.2017, 1 ♀, 1 ♂, leg. K. Antonets; *ibid.*, 17.VI.2017, 1 ♂, leg. I. Popov (CIPK).

Distribution. Russia (*NC, CR), W, E and S Europe, N Africa, Turkey, Cyprus, Syria, Jordan, Israel, Turkmenistan, Kyrgyzstan, Kazakhstan.

***Hoplitis (Alcidamea) tridentata* (Dufour et Perris, 1840)**

Material examined. Russia: Krasnodar Terr., Temryuk distr., Verbyanaya Spit, 17.VI.2017, 1 ♀, leg. I. Popov (CIPK).

Distribution. Russia (EP, *NC, CR, UR, WS), W, E, N and S Europe, N Africa, Georgia, Armenia, Turkey, Syria, Israel, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan.

***Megachile (Creightonella) albisecta* (Klug, 1817)**

Material examined. Russia: Krasnodar Terr., Krasnodar, stanitsa Starokorsunskaya, coast of water reservoir, 20.VII.2017, 1 ♂, leg. I. Popov (CIPK).

Distribution. Russia (*NC, CR), W, E and S Europe, N Africa, Azerbaijan, Turkey, Cyprus, Syria, Israel, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan.

***Megachile (Megachile) alpicola* Alfken, 1924**

Material examined. Russia: Novosibirsk Prov., Novosibirsk, vicinity of Akademgorodok, coast of water reservoir, meadow among shrubs, 5.VIII.2017, 1 ♀, leg. A. Fateryga (CFUS).

Distribution. Russia (EP, WS, ES, FE), W, E, N and S Europe, Caucasus, Turkey, Kazakhstan, Korea.

Remarks. The species is already known from Western Siberia but this is its first documented record for Novosibirsk Province.

***Megachile (Megachile) lapponica* Thomson, 1872**

Material examined. Russia: Novosibirsk Prov., Karasuk distr., 6–8.VIII.2017, 2 ♀, leg. I. Popov (CIPK).

Distribution. Russia (EP, UR, WS, ES, FE), W, E, N and S Europe, Kazakhstan, Korea, Japan, N America.

Remarks. The species is already known from Western Siberia but this is its first documented record for Novosibirsk Province.

***Megachile (Megachile) pilicrus* Morawitz, 1877**

Material examined. Russia: Krasnodar Terr., Temryuk distr., stanitsa Veselovka, 11.VII.2017, 1 ♂, leg. I. Popov (CIPK).

Distribution. Russia (*NC, CR), W, E and S Europe, Georgia, Turkey, Iran, Kyrgyzstan, China.

***Megachile (Pseudomegachile) ericetorum* Lepeletier de Saint-Fargeau, 1841**

Material examined. Russia: Krasnodar Terr., Krasnodar, bank of riv. Kuban, 20.VII.2017, 1 ♂, leg. I. Popov; Krasnodar Terr., Krasnodar, Kosenko Botanical Garden, 22.VII.2017, 2 ♂, leg. I. Popov (CIPK).

Distribution. Russia (EP, *NC, CR, UR), W, E, N and S Europe, N Africa, Armenia, Turkey, Syria, China, N America (introduced).

***Megachile (Xanthosarus) lagopoda* (Linnaeus, 1761)**

Material examined. Russia: Novosibirsk Prov., Novosibirsk, vicinity of Akademgorodok, coast of water reservoir, on *Vicia cracca*, 5.VIII.2017, 2 ♂, leg. A. Fateryga (CFUS); Novosibirsk Prov., Karasuk distr., 6–8.VIII.2017, 1 ♀, leg. I. Popov (CIPK).

Distribution. Russia (EP, NC, CR, UR, WS, ES, FE), W, E, N and S Europe, N Africa, Azerbaijan, Turkey, Israel, Iran, Tajikistan, Kyrgyzstan, Kazakhstan, China, Korea, Japan.

Remarks. The species is already known from Western Siberia but this is its first documented record for Novosibirsk Province.

***Megachile (Xanthosarus) maritima* (Kirby, 1802)**

Material examined. Russia: Novosibirsk Prov., Karasuk distr., 6–8.VIII.2017, 1 ♂, leg. I. Popov (CIPK).

Distribution. Russia (EP, NC, CR, *WS, ES, FE), W, E, N and S Europe, N Africa, Azerbaijan, Turkey, Iran, Kyrgyzstan, Kazakhstan, China, Korea.

***Pseudoanthidium (Pseudoanthidium) nanum* (Mocsáry, 1881)**

Material examined. Russia: Krasnodar Terr., Gelendzhik, Betta, 16.VIII.2017, 1 ♀, leg. I. Popov; Krasnodar Terr., Gelendzhik, Krinitsa, 17.VIII.2017, 2 ♀, leg. I. Popov (CIPK).

Distribution. Russia (EP, *NC, CR, UR), W, E and S Europe, Caucasus, Turkey, Israel, Iran, Pakistan, N America (introduced).

Remarks. *Pseudoanthidium "lituratum"* is an unclear complex of different species. The valid name for *P. "lituratum"* s. str. is *P. nanum* while the status of seven species rank names which were synonymized under *P. lituratum* by Warncke (1980) is uncertain and needs further exploration (Aguib et al., 2010; Kuhlmann et al., 2015). The next unidentified species (below) may belong to one of them.

Pseudoanthidium (Pseudoanthidium) sp.

Material examined. Russia: Novosibirsk Prov., Karasuk distr., 6–8.VIII.2017, 1 ♀, leg. I. Popov (CIPK).

Remarks. This species can be one of three species described from Ural which are not revised properly: *Pseudoanthidium floripetum* (Eversmann, 1852), *P. reptans* (Eversmann, 1852), and *P. evermanni* (Radoszkowski, 1886) (see Proshchalykin et al., 2017).

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Фатерыга А. В., Попов И. Б. Новые находки Vespidae и Megachilidae (Hymenoptera) в России // Экоисстемы. 2017. Вып. 9 (39). С. 86–89.

Приводятся новые данные о распространении трех видов Vespidae и 12 видов Megachilidae. *Stenodynerus aequisculptus* (Kostylev, 1940) впервые отмечен для фауны России.

Ключевые слова: складчатокрылые осы, пчелы-мегахилиды, распространение, Северный Кавказ, Сибирь.

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