

Additions to the fauna and distribution of digger wasps (Hymenoptera: Crabronidae) of Western Siberia, Russia

Дополнения к фауне и распространению роющих ос (Hymenoptera: Crabronidae) Западной Сибири

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Ключевые слова: роющие осы, фауна, распространение, Россия, Сибирь.

Abstract. New data to the knowledge of digger wasps in Siberia are provided. *Bembix integra* Panzer, *B. megerlei* Dahlbom and *Diploplectron pulawskii* Kazenas are newly recorded from Western Siberia, *Bembix diversipes* F. Morawitz — from Novosibirsk Province, and *Ectemnius lapidarius* (Panzer), *E. rubicola* (Dufour et Perris), *E. fossorius* (Linnaeus), *Gorytes laticinctus* (Lepeletier de Saint Fargeau), *G. quadrifasciatus* (Fabricius), *Larra anathema* (Rossi), *Stizus perrisi* Dufour — from Omsk Province.

Резюме. Приведены новые данные о фауне роющих ос Сибири. *Bembix integra* Panzer, *B. megerlei* Dahlbom и *Diploplectron pulawskii* Kazenas впервые приводятся для фауны Западной Сибири, *Bembix diversipes* F. Morawitz — для фауны Новосибирской области, а *Ectemnius lapidarius* (Panzer), *E. rubicola* (Dufour et Perris), *E. fossorius* (Linnaeus), *Gorytes laticinctus* (Lepeletier de Saint Fargeau), *G. quadrifasciatus* (Fabricius), *Larra anathema* (Rossi) и *Stizus perrisi* Dufour — для фауны Омской области.

Introduction

The publication of the “Annotated Catalogue of the Hymenoptera of Russia” with 685 species in 87 genera and three families (Ampulicidae, Sphecidae, Crabronidae) of digger wasps [Antropov et al., 2017], spurred active faunistic research on this group of insects in certain regions of the country. Naturally, Siberia was not overlooked in this regard. New data on the distribution of digger wasps in Eastern and Western Siberia have already been published [Jacobs, Liebig, 2018; Mokrousov et al., 2020a, b; Akulov et al., 2020; Danilov et al., 2021; Mokrousov, Proshchalykin, 2021, 2023, 2025; Antropov et al., 2024a, 2024b]. However, some regions, particularly much of Western Siberia, remain underresearched.

This publication aims to fill some gaps in our knowledge of the digger wasps fauna of Western Siberia.

Material and methods

This paper is based on the material deposited in Institute of Systematics and Ecology of Animals, Siberian Branch of Russian Academy of Sciences (Novosibirsk, Russia). The distribution of species follows Antropov et al. [2017]. For abbreviations of the regions see fig. 1 in Antropov et al., 2017. New records are asterisked (*). The taxa in the annotated list are given in alphabetical order.

The present work is registered in ZooBank (www.zoobank.org) under urn:lsid:zoobank.org:pub:A3653A22-6257-4D16-B264-708A96BE2AE1

Additions to annotated list of digger wasps of Western Siberia

Bembix diversipes F. Morawitz, 1889

Material. RUSSIA. *Novosibirsk Province:* Novosibirsk [54°59'N, 83°03'E], 03.VII.2010, Yu. Danilov, A. Byvaltsev (2♂♂); Karasuksky District, near Troitskoe [53°42'N, 77°48'E], 28.VI.2002, V. Zintchenko (1♂).

Distribution. Russia: WS (*NS, AL), ES (KR, IR, BR), FE (PR). — Turkey, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NC, NW).

Bembix integra Panzer, 1801

As *Bembix megerlei* Dahlbom: Danilov, Tshernyshev, 2008 — misdetermination.

Material. RUSSIA. *Altai Territory:* Klyuchevsky District, near Severka [52°06'N, 79°19'E], 21.VII.2018, Yu. Danilov (2♀♀); Novosibirsk Province: Karasuksky District, near Troitskoe [53°42'N, 77°48'E], 31.VIII.2007, Yu. Danilov (1♀).

Distribution. Russia: EP (NC, CR), *WS (NS, AL). — Europe (WE, SE, EE), Iran, Turkmenistan, Kazakhstan.

Bembix megerlei Dahlbom, 1845

Material. RUSSIA. *Altai Territory:* Volchikhinsky District, near Volchikha [51°58'N, 80°19'E], 10.VII.2008, Yu. Danilov (2♂♂); 29.VII.2011, Yu. Danilov, A. Byvaltsev (2♀♀).

Distribution. Russia: EP (C, S, NC, CR), *WS (AL). — Europe (C, EE), Turkey, Uzbekistan, Kazakhstan.

Diploplectron pulawskii Kazenas, 1975

Material. RUSSIA. *Altai Territory:* Volchikhinsky District, near Volchikha [51°58'N, 80°19'E], 20.VII.2015, A. Byvaltsev, E. Danilov (1♀).

Distribution. Russia: EP (S), *WS (AL). — Kazakhstan.

Ectemnius (Clytochrysus) lapidarius (Panzer, 1804)

Material. RUSSIA. *Omsk Province:* Gorkovsky District, near Spasskoye [55°15'N, 74°06'E], 24.VII.2021, Yu. Danilov (1♂).

Distribution. Russia: EP (N, NW, C, E, S, NC, CR), UR, WS (*OM, NS, KM, AL), ES (IR, BR, ZB), FE (AM, KH, PR, SA, KU). — Europe (WE, NE, SE, EE), N Africa, Georgia, Turkey, Iran, Kyrgyzstan, Kazakhstan, Mongolia, China (NE), Korean Peninsula, Japan (Hok, Hon), Africa, N America.

Ectemnius (Hypocrabro) rubicola
(Dufour et Perris, 1840)

Material. RUSSIA. *Omsk Province:* Nizhneomsky District, near Ozernoye [55°41'N, 74°51'E], 20.VII.2021, Yu. Danilov (1♀).

Distribution. Russia: EP (N, NW, C, E, S, NC, CR), UR, WS (*OM, AL), ES (KM, IR), FE (AM, PR, SA, KU). — Europe (WE, NE, SE, EE), Turkey, Iran, Kazakhstan, Japan (Hok, Hon, Shi, Kyu).

Ectemnius (Metacrabro) fossorius (Linnaeus, 1758)

Material. RUSSIA. *Omsk Province:* Gorkovsky District, near Spasskoye [55°15'N, 74°06'E], 24.VII.2021, Yu. Danilov (1♀, 1♂).

Distribution. Russia: EP (N, NW, C, E, S, NC, CR), UR, WS (*OM, NS, KM, AL), ES (TU, KR, IR, BR, YA, ZB), FE (AM, KH, PR, SA, KU). — Europe (WE, NE, SE, EE), N Africa, Turkey, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, China (NE), Korean Peninsula, Japan (Hok, Hon).

Gorytes laticinctus

(Lepeletier de Saint Fargeau, 1832)

Material. RUSSIA. *Omsk Province:* Nizhneomsky District, near Ozernoye [55°41'N, 74°51'E], 20.VII.2021, Yu. Danilov (1♀).

Distribution. Russia: EP (N, NW, C, E, CR), WS (*OM, AL). — Europe (WE, NE, SE, EE), N Africa, Turkey, Uzbekistan, Kazakhstan.

Gorytes quadrifasciatus (Fabricius, 1804)

Material. RUSSIA. *Omsk Province:* Nizhneomsky District, near Ozernoye [55°41'N, 74°51'E], 20.VII.2021, Yu. Danilov (1♂); Gorkovsky District, near Spasskoye [55°15'N, 74°06'E], 24.VII.2021, Yu. Danilov (1♂).

Distribution. Russia: EP (N, C, E, S, NC, CR), UR, WS (TM, *OM, NS, KM, AL), ES (KR, IR, BR, YA, ZB), FE (AM, KH, PR, SA, MG). — Europe (WE, NE, SE, EE), N Africa, Turkey, Kyrgyzstan, Kazakhstan, Mongolia, Korean Peninsula.

Larra anathema (Rossi, 1790)

Material. RUSSIA. *Omsk Province:* Cherkassky District, near Nikolaevskoye, Uljay Lake [54°14'N, 75°04'E], 14.VII.2021, Yu. Danilov (5♀♀, 18♂♂).

Distribution. Russia: EP (C, E, S, NC, CR), WS (*OM, NS). — Europe (WE, SE, EE), N Africa, Georgia, Turkey, Syria, Iraq, Iran, Saudi Arabia, Bahrain, Israel, Turkmenistan, Tajikistan, Uzbekistan, Kazakhstan, China (NE).

Stizus perrisi Dufour, 1838

Material. RUSSIA. *Omsk Province:* Cherkassky District, near Nikolaevskoye, Uljay Lake [54°14'N, 75°04'E], 14.VII.2021, Yu. Danilov (1♀); Nizhneomsky District, near Ozernoye [55°41'N, 74°51'E], 20.VII.2021, Yu. Danilov (1♂).

Distribution. EP (C, E, S, CR), UR, WS (*OM, AL), ES (TU, ZB), FE (PR). — Europe (WE, NE, SE, EE), Armenia, Turkey, Uzbekistan, Kyrgyzstan, Kazakhstan, China (NE, NC, NW), Korean Peninsula, Japan (Hon).

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