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NEW DATA ON DIGGER WASPS OF THE FAMILY CRABRONIDAE (HYMENOPTERA: APOIDEA) FROM OMSK PROVINCE, RUSSIA

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Summary. A new data on 16 species of the digger wasps family Crabronidae from Omsk Province of Russia are presented. *Dryudella picticornis* (Gussakovskij, 1927) is newly recorded from the Asian part of Russia. The tabular checklist of the 27 species of Crabronidae from Omsk Province is provided.
Key words: digger wasps, fauna, list of species, new records, Western Siberia.

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Резюме. Приведены новые данные о 16 видах роющих ос семейства Crabronidae, собранных в Омской области. *Dryudella picticornis* (Gussakovskij, 1927) впервые отмечен для азиатской части России. В табличной форме приведен список 27 видов ос-крабронид Омской области.

INTRODUCTION

While the fauna of digger wasps of the family Sphecidae of Omsk Province of Russia is well studied (Danilov, 2011; 2014; Antropov *et al*., 2017), those of the family Crabronidae is poorly understood. Until now only 11 species of Crabronidae (Table 1) were recorded from Omsk Province (Antropov *et al*., 2017), it is extremely small number of species for this family.

MATERIAL AND METHODS

This paper is based on a study of 70 specimens of Crabronidae deposited in the collection of Siberian Zoological Museum of Institute of Systematics and Ecology of Animals, Russian Academy of Sciences, Siberian Branch, Novosibirsk [SZMN], which were collected in Omsk Province. All material was identified by the first author. The classification of crabronid wasps follows Pulawski (2020). The distribution of species in Russia follows Antropov *et al*. (2017). In the list of species, the distribution is given only for the regions of Western Siberia; for the general distribution see Antropov *et al*. (2017). For abbreviations of the regions see Fig. 1.

Table 1. List of the species previously known from Omsk Province.

N	Name of species	References
1	*Crabro peltarius* (Schreber, 1784)	Marshakov, 1977: 868; Nemkov, 2009: 113; Antropov *et al*., 2017: 226
2	*Crabro scutellatus* (von Scheven, 1781)	Antropov *et al*., 2017: 226
3	*Crabro sibiricus* A. Morawitz, 1866	Marshakov, 1977: 869; Nemkov, 2009:114; Antropov *et al*., 2017: 226
4	*Cerceris arenaria* (Linnaeus, 1758)	Antropov *et al*., 2017: 253
5	*Cerceris bicincta* Klug *in* Waltl, 1835	Antropov *et al*., 2017: 253
6	*Cerceris bracteata* Eversmann, 1849	Antropov *et al*., 2017: 253
7	*Cerceris flavilabris* (Fabricius, 1793)	Nemkov, 2009: 147; Antropov *et al*., 2017: 253
8	*Cerceris quinquefasciata* (Rossi, 1792)	Antropov *et al*., 2017: 254
9	*Cerceris rybyensis* (Linnaeus, 1771)	Antropov *et al*., 2017: 254
10	*Cerceris sabulosa* (Panzer, 1799)	Antropov *et al*., 2017: 254
11	*Cerceris tuberculata* (de Villers, 1789)	Antropov *et al*., 2017: 255

LIST OF THE SPECIES NEWLY RECORDED FROM OMSK PROVINCE

***Astata boops* (Schrank, 1781)**

MATERIAL EXAMINED. Cherlaksky District, near Solyanoe, 54°22'N, 74°38'E, 22–24.VI 1989, 4 ♂ (S. Vasilenko).

DISTRIBUTION. Western Siberia: OM, TK, NS, AL.

***Astata kashmirensis* Nurse, 1909**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 27.VI 2011, 1 ♂ (unknown collector).

DISTRIBUTION. Western Siberia: OM, AL.

***Dryudella picticornis* (Gussakovskij, 1927)**

MATERIAL EXAMINED. Cherlaksky District, near Solyanoe, 54°22'N, 74°38'E, 22–24.VI 1989, 2 ♂, 1 ♀ (S. Vasilenko).

DISTRIBUTION. Western Siberia: OM. This species is newly recorded from Asian part of Russia.

***Tachytes obsoletus* (Rossi, 1792)**

MATERIAL EXAMINED. Cherlaksky District: near Bol'shoy Atmas, 54°06'N, 74°53'E, 26.VI 2011, 1 ♂ (unknown collector); near Tatarka, 53°58'N, 75°02'E, 30.VI 2011, 1 ♂ (A. Proskuryakova).

DISTRIBUTION. Western Siberia: OM, NS, AL.

***Tachytes panzeri* (Dufour, 1841)**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 26–30.VI 2011, 7 ♂ (unknown collector); same place, 31.VII 2015, 1 ♂, 1 ♀ (A. Byvaltsev, E. Danilov).

DISTRIBUTION. Western Siberia: OM, NS, AL.

***Tachysphex fulvitarsis* (A. Costa, 1867)**

MATERIAL EXAMINED. Cherlaksky District: near Bol'shoy Atmas, 54°06'N, 74°53'E, 30.VI 2011, 1 ♀ (unknown collector); near Tatarka, 53°58'N, 75°02'E, 30.VI 2011, 1 ♀ (A. Byvaltsev).

DISTRIBUTION. Western Siberia: OM, NS, AL.

***Palarus variegatus* (Fabricius, 1781)**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 26.VI 2011, 1 ♀ (D. Novikova, N. Bazarova).

DISTRIBUTION. Western Siberia: OM, AL.

***Rhopalum coarctatum* (Scopoli, 1763)**

MATERIAL EXAMINED. Tavrichesky District, near Priirtyshe, 54°31'N, 74°07'E, 24.VIII 2018, 1 ♀ (O. Odintsev).

DISTRIBUTION. Western Siberia: OM, TK, NS, AL.

***Crossocerus quadrimaculatus* (Fabricius, 1793)**

MATERIAL EXAMINED. Tavrichesky District, near Priirtyshe, 54°31'N, 74°07'E, 24.VIII 2018, 1 ♀ (O. Odintsev).

DISTRIBUTION. Western Siberia: TM, OM, AL.

***Lestica alata* (Panzer, 1797)**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 31.VII 2015, 1 ♀ (A. Byvaltsev, E. Danilov).

DISTRIBUTION. Western Siberia: OM, NS, AL.

***Mellinus arvensis* (Linnaeus, 1758)**

MATERIAL EXAMINED. Tavrichesky District, near Priirtyshe, [54°31'N, 74°07'E], 24.VIII 2018, 11 ♀ (O. Odintsev).

DISTRIBUTION. Western Siberia: OM, AL.

***Nysson dimidiatus* Jurine, 1807**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 26–30.VI 2011, 3 ♂, 3 ♀ (unknown collector).

DISTRIBUTION. Western Siberia: OM, AL.

***Nysson niger* Chevrier, 1868**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 26–30.VI 2011, 1 ♂, 2 ♀ (unknown collector); Kolosovsky District, near Kolosovka, 56°28'N, 73°38'E, 12.VII 2018, 1♀ (Yu. Danilov, O. Odintsev).

DISTRIBUTION. Western Siberia: TM, OM.

***Gorytes quinquefasciatus* (Panzer, 1798)**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 14–17.VI 2012, 1 ♂ (Yu. Danilov).

DISTRIBUTION. Western Siberia: OM, AL.

***Bembix rostrata* (Linnaeus, 1758)**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 27–29.VI 2011, 10 ♂ (N. Holodina).

DISTRIBUTION. Western Siberia: OM, TK, NS, AL.

***Cerceris somotorensis* Balthasar, 1956**

MATERIAL EXAMINED. Cherlaksky District, near Bol'shoy Atmas, 54°06'N, 74°53'E, 27.VI 2011, 1 ♂, 2 ♀ (K. Belova); same place, 15.VI 2012, 1 ♂, 1 ♀ (K. Belova).

DISTRIBUTION. Western Siberia: OM.

DISCUSSION

In total, 27 species of Crabronidae are recorded from Omsk Province. This is much less than in Novosibirsk Province (58 species) or Ural (208) and Altai (240) but comparable with faunas of Tyumen (25), Tomsk (24), and Kemerovo (28) Provinces (Fig. 1). Sixteen species are newly recorded from Omsk Province, of them *Dryudella picticornis* (Gussakovskij) is newly recorded from the Asian part of Russia. There is a noticeable gap in the knowledge of the fauna of Crabronidae in Western Siberia, with the exception of Altai (Altai Republic and Altai Territory) (Fig. 1). To fill this gap, a focused collection of material from each of Siberian regions is required.

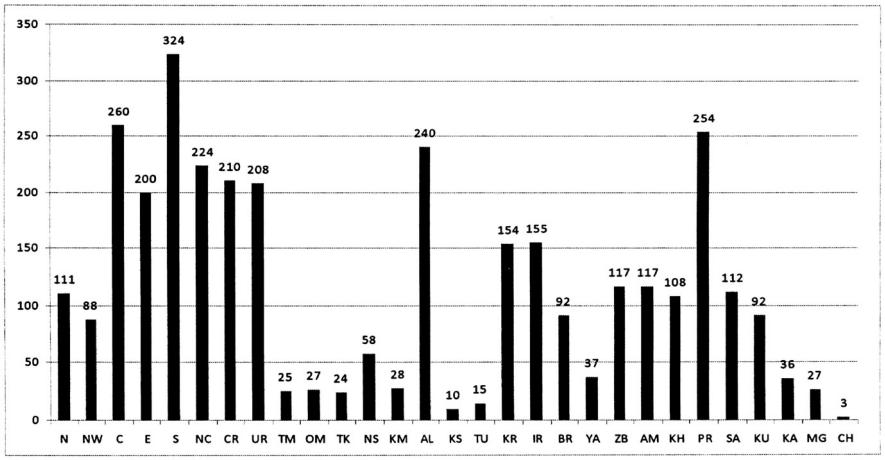

Fig. 1. The number of species of Crabronidae recorded from regions of Russia (according to Antropov et al., 2017, Jacobs, Liebig, 2018, Mokrousov et al., 2019, 2020a, 2020b, Akulov *et al*., 2020.). The administrative regions are abbreviated as in Antropov *et al*. (2017): EUROPEAN PART: North (N), North-West (NW), Centre (C), East (E), South (S), North Caucasus (NC), Crimea (CR); URAL (UR); WESTERN SIBERIA: Tyumen Prov. (TM), Omsk Prov. (OM), Tomsk Prov. (TK), Novosibirsk Prov. (NS), Kemerovo Prov. (KM), Altai (AL) (including Altai Rep. and Altai Terr.); EASTERN SIBERIA: Khakass Rep. (KS), Tuva Rep. (TU), Krasnoyarsk Terr. (KR), Irkutsk Prov. (IR), Buryat Rep. (BR), Yakutsk Rep. (YA), Zabaikalskii Terr. (ZB); FAR EAST: Amur Prov. (AM), Khabarovsk Terr. (KH) (including Jewish Autonomous Region), Primorskii Terr. (PR), Sakhalin (SA), Kuril Islands (KU), Kamchatka Terr. (KA), Magadan Prov. (MG), Chukot Autonomous Area (CH).

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