

Corrections and additions to the catalogue of the digger wasps (Hymenoptera: Ampulicidae, Sphecidae, Crabronidae) of Russia

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Abstract

The present study is an update to the first catalogue of Russian digger wasps published in 2017. Six species are new: *Lindenius marsianus*, *Miscophus globiceps*, *M. lyubae*, *M. mesocontinentalis*, *M. schmideggeri*, and *M. volgensis*. *Miscophus rasilis* Kazenas, 1993 is newly synonymized with *M. eximius* Gussakovskij, 1934. New records are provided for eleven species previously unknown from Russia. Five recently described species are reported, as well as thirteen species newly recorded since the 2017 Catalogue, five species and three published synonymies overlooked in that Catalogue. Additionally, four species are excluded from the Catalogue and numerous taxonomic changes and clarifications are included. The present work updates the total number of digger wasps genera for Russia to 88 and the total number of species to 729 (Ampulicidae 2/4, Sphecidae 11/72, Crabronidae 75/653).

Key words: biodiversity, continental checklist, new record, new species, new synonymy, taxonomy

Introduction

The ‘Annotated Catalogue of Russian Digger wasps’ (Antropov 2017—Crabroninae; Danilov 2017a—Ampulicidae; 2017b—Sphecidae; Nemkov 2017a—Astatinae; 2017b—Bembicinae; 2017c—Dinetinae; 2017d—Mellininae; Mokrousov 2017a—Eremiaspheciinae; 2017b—Pemphredoninae; Danilov & Mokrousov 2017—Philanthinae), is a major milestone in the study of this diverse group of hymenopterous insects in a vast territory such as Russia. Due to the intensive work of the team of authors, it was possible to include in the Catalogue all the published data on digger wasps from Russia known at that time. In total, the Catalogue contained 694 species from 87 genera (Ampulicidae 4/2, Sphecidae 68/11, Crabronidae 622/74).

For such works, it has become common practice to publish corrections and additions approximately once every few years. Similar updates have already been released three times for the European Bee Checklist (Rasmont *et al.* 2017; Ghisbain *et al.* 2023, 2025), first published in 2014 (Nieto *et al.* 2014), for the Russian Bee Checklist (Proshchalykin *et al.* 2023), and for the European digger wasps (Bitsch *et al.* 1997, 2001, 2020, 2021, 2022).

This first update of the Catalogue allows for the correction of previous errors, introduction of the latest nomenclatural and taxonomic changes, as well as the inclusion of taxa recorded for the first time and species newly described for science from this territory.

An updated total of 729 species belonging to 88 genera and three families are now recorded within Russia (Table 1). After the revision of the first checklist, we report five species recently described, 13 species newly recorded since the first Catalogue, five species overlooked in the previous Russian checklist, and three published synonymies. We provide original records for eleven species previously unknown to Russia and, as original taxonomic act, we described six new species for science, synonymise one species and exclude four species from the previous checklist. Some other taxonomic changes and clarifications are also included. The final count of species per family, subfamily, tribe and genus is available in Table 1. An updated list of Russian digger wasps is also available (see below).

photographs, D.N. Kochetkov (State Nature Reserve Daurisky, Zabaikalsky Territory, Russia) for loan of material, W.J. Pulawski (California Academy of Sciences, San Francisco, USA) and A.S. Lelej (FSCV) for comments and suggestions to streamline and improve the earlier drafts of the manuscript.

The research was carried out within the state assignment of Ministry of Science and Higher Education of the Russian Federation (theme No. 124012400285-7).

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