



New records of the solitary Vespidae (Hymenoptera: Vespidae: Masarinae and Eumeninae s. l.) from Central Asia, with new synonyms and description of a new species of *Eumenes* Latreille

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Abstract

A new species, *Eumenes selisi* Fateryga, **sp. nov.** is described from Uzbekistan. Three new synonymies are proposed: *Masaris carli* von Schulthess, 1922 = *M. elegans* Gusenleitner, 2002, **syn. nov.**; *Parodontodynerus ephippium* (Klug, 1817) = *P. ephippium dalanicus* Kurzenko, 1976, **syn. nov.**; *Psiliglossa odyneroides* (S.S. Saunders, 1850) = *P. odyneroides kozhantshikovi* Kostylev, 1940, **syn. nov.** Twenty-nine new country records are presented: two from Turkmenistan, four from Tajikistan, seven from Uzbekistan, seven from Kyrgyzstan, and nine from Kazakhstan. *Masaris carli* is excluded from the fauna of Iran and *Psiliglossa odyneroides* is excluded from the fauna of Russia. Observations on flower-visiting behavior of *Chlorodynerus arenicola* and *Euodynerus setosus* are reported.

Key words: pollen wasps, eumenine wasps, fauna, taxonomy, new synonymy, trophic relationships, Palaearctic region

Introduction

Solitary wasps of the family Vespidae are represented in the Palaearctic region by the predatory wasps (subfamily Eumeninae s. l.) and the pollen wasps (subfamily Masarinae). Eumenine wasps are the most diverse group of vespid wasps with more than 3900 described species worldwide (Luo *et al.* 2022). According to the modern taxonomic treatments, they should be subdivided into three subfamilies: Eumeninae s. str., Raphiglossinae, and Zethinae (Bank *et al.* 2017; Piekarski *et al.* 2018; Mauss *et al.* 2019). Subfamily Masarinae is much less diverse, there are 374 species described so far (Rahmani *et al.* 2020). The knowledge of the solitary Vespidae of Central Asia is still poor. Fateryga *et al.* (2023c) published a list of 105 species known from Uzbekistan, while the number of species known from other countries was not reported.

In this paper, we gathered new data that could not be inserted in larger studies due to the lack of other material, but were not enough to be published as separate papers. One species is described as new to science and 26 species are reported as new from Turkmenistan, Tajikistan, Uzbekistan, Kyrgyzstan, and Kazakhstan. Three new synonymies are proposed. Observations on two species in the field are also reported.

Material and methods

The acronyms for the institutions where the studied specimens are deposited are as follows:

CAFK—Research collection of A.V. Fateryga, Feodosiya, Russia;

CSZT—Private collection of S.L. Zonstein, Tel Aviv, Israel;

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