

A new species and new records of *Colletes* Latreille (Hymenoptera, Colletidae) from Dagestan Republic, Russia

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Abstract

New data on twelve species of the genus *Colletes* Latreille, 1802 collected in Dagestan Republic (Russia) in 2022 and 2023 are provided. Among them, *Colletes storozhenkoi* Kuhlmann & Proshchalykin, **sp. nov.** is described as new to science, *C. glaber* Warneke, 1978 is newly recorded from Russia and *C. brevigena* Noskiewicz, 1936 is newly recorded from Dagestan Republic. Now 55 species of *Colletes* are known from Russia.

Key words: Anthophila, Apiformes, Caucasus, Palaearctic region, taxonomy

Introduction

According to the latest catalogue (Proshchalykin *et al.* 2023), there are 1,268 species of bees in Russia. However, new records continue to be published, including descriptions of new species (Astafurova & Proshchalykin 2024, 2025; Fateryga & Proshchalykin 2024; Fateryga *et al.* 2024; Sidorov *et al.* 2025). Most of the new data relates to Dagestan Republic, the southernmost territory of Russia.

The genus *Colletes* Latreille, 1802 currently includes roughly 520 described species with an estimated total of about 700 species (Proshchalykin & Kuhlmann 2023) from all continents except Antarctica and Oceania (Michener 2007; Kuhlmann 2014). In recent years significant progress has been made towards a better knowledge of species of *Colletes* in Dagestan (Kuhlmann & Proshchalykin 2014, 2016; Proshchalykin & Kuhlmann 2019). Currently 22 species are known from this territory (Proshchalykin & Kuhlmann 2019).

The purpose of the present contribution is to report new data on the genus *Colletes* from Russia. One species is described as new to science and one species is reported from Russia for the first time; a new distributional record of an additional species is also reported.

Materials and methods

The studied material included 80 specimens of *Colletes* collected in 2022 and 2023 by M.Yu. Proshchalykin and A.V. Fateryga from ten localities in Dagestan Republic.

Terminology as well as measurements used in the descriptions follows those of Michener (2007). Puncture density is expressed as the relationship between puncture diameter (d) and the space between them (i), such as $i = 1.5d$ or $i < d$. The letter “T” is used as abbreviation of metasomal tergum and the letter “F” for antennal flagellar segment. Body length is measured from the vertex to the apex of the metasoma. The definition of species groups in *Colletes* follows Noskiewicz (1936) and Kuhlmann *et al.* (2009). Species are listed in alphabetical order.

Conclusion

Including published records, a total of 25 *Colletes* species are now known from Dagestan Republic. The *Colletes* fauna of Dagestan is rich. Almost half of all species known from Russia (55 according to Proshchalykin *et al.* 2023 and present data) occur in Dagestan, while the area of Dagestan is only about 0.3% of the Russian territory.

Colletes of Dagestan Republic is less diverse but comparable to that of neighbouring Azerbaijan, which has 38 species of *Colletes* (Kuhlmann & Proshchalykin 2016). A comparison of the list of *Colletes* of Azerbaijan with that of Dagestan Republic reveals that 20 species occur in both territories.

Considering our latest data, the genus *Colletes* is one of the best studied genera among the bees of Russia, including Dagestan Republic.

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