

A review of the Mutillidae (Hymenoptera) of Yemen

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Forty species in 19 genera are recorded from Yemen. Three new genera are described: *Paglianotilla* gen. nov. (type species *P. hogenesi* sp. nov.), *Rasnitsynitilla* gen. nov. (type species *R. brachyptera* sp. nov.), and *Vanhartenidia* gen. nov. (type species *V. felix* sp. nov.). Ten new species are described: *Arnoldtilla achterbergi* sp. nov. (Yemen), *Dentilla ehrenbergi* sp. nov. (Yemen, Saudi Arabia), *P. hogenesi* sp. nov. (Yemen), *R. brachyptera* sp. nov. (Yemen), *R. invreai* sp. nov. (Yemen), *R. schmidegeri* sp. nov. (Yemen), *V. arabica* sp. nov. (Yemen), *V. felix* sp. nov. (Yemen), *V. tihama* sp. nov. (Yemen), and *Spinulomutilla yemenita* sp. nov. (Yemen). Hitherto unknown females are recognized for *Arnoldtilla* Nonveiller, *Omotilla* Invrea, and *Tropidotilla milmili* (Magretti). New synonymy is proposed for *Omotilla* Invrea 1943 = *Conjunctotilla* Nonveiller 1996, syn. nov.; *Pseudophotopsis aurea* (Klug 1829) = *Mutilla kassalina* Magretti 1898, syn. nov., *P. continua arabica* Hammer 1962, syn. nov. New status is proposed for *Arnoldtilla* Nonveiller, *Myrmilla rubida* Magretti, *M. parvula* Magretti, *Glossotilla djiboutiensis* Bischoff, *V. kassalana* (Bischoff), *V. pyrrhospilota* (Bischoff). New combination is proposed for: *A. bischoffi* (Arnold), *A. silvestris* (Arnold), *O. conjuncta* (Klug), *O. conjunctoides* (Magretti), *O. grazianii* (Invrea), *Dentilla arabica* (Hammer), *V. dives* (Smith), *V. kassalana* (Bischoff), *V. pyrrhospilota* (Bischoff), *V. tricolor* (Klug), and *V. unguiculata* (Magretti). Eleven genera are recorded for the first time from Yemen: *Arnoldtilla* Nonveiller, *Omotilla* Invrea, *Macromyrme* Lelej, *Ronisia* Costa, *Strangulotilla* Nonveiller, *Tropidotilla* Bischoff, *Dentilla* Lelej, *Glossotilla* Bischoff, *Dentotilla* Nonveiller, *Spinulomutilla* Nonveiller, and *Dasylabris* Radoszkowski. Seventeen species are recorded for the first time from Yemen: *Pseudophotopsis maura* Bischoff, *P. mascatiana* Invrea, *Myrmilla parvula* Magretti, *M. rubida* Magretti, *T. bellii* (Magretti), *T. carinulifera* Bischoff, *T. frontalis* (Klug), *T. milmili* (Magretti), *Strangulotilla samharica* (Magretti), *Ronisia idonea* (André), *Dentilla testacea* (Klug), *Glossotilla djiboutiensis* Bischoff, *Dentotilla auricoma* (Bischoff), *Dasylabris biblica* Invrea, *Tricholabiodes niloticus* Suárez, *T. pedunculatoides* Bischoff, and *T. sudanensis* Suárez. *Dentilla testacea* (Klug) and *Tricholabiodes chloroticus* (Gribodo) are recorded for the first time from Saudi Arabia. *Tricholabiodes sudanensis* Suárez is recorded for the first time from Oman. *Glossotilla djiboutiensis* Bischoff is recorded for the first time from Eritrea. Keys to eight species of *Vanhartenidia* and three species of *Rasnitsynitilla* are given.

Key words: Mutillidae, solitary wasps, velvet ants, Arabia, Yemen, Saudi Arabia

Introduction

Yemen is located in the southwestern part of the Arabian Peninsula south of the Tropic of Cancer between the Red Sea and the Gulf of Aden. The fauna of this country is mainly Afrotropical. The Afrotropical fauna comprises more than 1200 species of Mutillidae (Nonveiller 1980, Lelej 2005). The first mutillids were collected in Yemen by the German naturalist C.G. Ehrenberg during an expedition from 1819 to 1826. Based on this material, Klug (1829) described from "Arabia felici" ("Arabia Felix" — Happy Arabia, currently Yemen) three species: *Mutilla fimbriata* Klug 1829, *M. conjuncta* Klug 1829, and *M. chrysophthalma* Klug 1829. Gribodo (1884) added two species: *M. pedunculata* Klug 1829 (currently *Tricholabiodes arabicus* Suárez 1967), and *M. chlorotica* Gribodo 1884