



## Review of the *Evagetes crassicornis* species-group (Hymenoptera: Pompilidae), with description of new species

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### Abstract

The three species and two subspecies of the *Evagetes crassicornis* species-group are reviewed. A new species, *Evagetes orientalis*, **sp. nov.**, is described and illustrated from the Russian Far East. A lectotype of *Pompilus sahlbergi* F. Morawitz 1893 is redescribed. *Evagetes crassicornis crassicornis* (Shuckard) is recorded for the first time from Ukraine, Georgia, Kazakhstan, and Alaska. A key is presented for both sexes of this species-group.

**Key words:** spider wasps, new species, Russian Far East, Holarctic region

### Introduction

The genus *Evagetes* Lepeletier (1845) numbers 72 species, of which 58 occur in the Palaearctic region, 11 occur in the Nearctic region, with a few penetrating to the Afrotropical, Oriental and Neotropic regions. As far as is known, all of the species are the cleptoparasites of other spider wasps.

The *Evagetes crassicornis* species-group is a small group of spider wasps formerly placed in the genera *Psammocharoides* (Móczár 1946) and *Streptosella* (Dreisbach 1950, Evans 1951), and in the subgenus *Carinevagetes* (Wolf 1970). This species-group currently contains three species (including new one described here) and two subspecies (Wahis 1986, Krombein 1979, v.d. Smissen 2003): *crassicornis crassicornis* (Shuckard), *crassicornis consimilis* (Banks), *sahlbergi* (F. Morawitz) and undescribed species. *Evagetes crassicornis crassicornis* widely distributed in the Palaearctic and Nearctic regions, while *E. crassicornis consimilis* is limited by the Nearctic region only. The remaining species are known from the Palaearctic region.

The males of this species-group are unusual when compared with to the other species-groups of *Evagetes*. They are easily diagnosed by morphology of the sternum 8 (hypopygium), which has two basal carinae that are more or less parallel (Figs. 4, 6, 8). This is contrary to other species of *Evagetes*, which lacking such carinae. The females have characters which are similar to other species-groups.

While examining specimens of the *Evagetes crassicornis* species-group from Russian Far East (Loktionov 2009), a male and female of an undescribed species were discovered. This species is described here. Also, a key is presented for both sexes of this species-group.

### Materials and methods

Acronyms for collections from which specimens were borrowed or are deposited are as follows: IBSS—Institute of Biology and Soil Science, Vladivostok, Russia; ZIN—Zoological Institute, St. Petersburg, Russia. This paper is based on material collected in the last decades by many entomologists in the Russia and other