Review of the genus *Tachytes* Panzer (Hymenoptera: Crabronidae: Crabroninae) of South Korea, with description of one new species

YEONG-BIN BACK¹ & JEONG-KYU KIM²,³

¹Biodiversity Institute, Hanseo University, Seosan-si, Chungcheongnam-do, 356-706 Korea
²Korean Bio-resources Research Center, Seosuwon-ro 607-303, Gweonseon-gu, Sawon-si, Gyeonggi-do, 441-746 Korea
³Corresponding author. E-mail: hymjkk@naver.com

Abstract

Korean species of the genus *Tachytes* Panzer are reviewed. Four previously known species are confirmed, and one new species, *Tachytes gyusanus* is described. The new species is very similar to *T. modestus*, but it differs critically in the form of male genitalic capsule. A revised key to South Korean species, a description of the new species, and digital images and line drawings of diagnostic characteristics are provided.

Key words: *Tachytes*, Crabronidae, sphecid wasps, new species, South Korea

Introduction

The genus *Tachytes* Panzer is one of fifteen genera in the cosmopolitan tribe Larrini (Hymenoptera: Crabronidae: Crabroninae) and comprises about 296 species (Pulawski, 2014). The members of the genus are medium to large size wasps easily recognized by very elongated ocellar scars, comma-like in shape (Bohart & Menke, 1976). They are solitary, ground-nesting predators mainly provisioning orthopterans for young (Iwata, 1971; O’Neil, 2001). Six Far Eastern species of *Tachytes* including four from Korea are known (Tsuneki, 1964a, 1964b; Kim, 1970, 1980; Tsuneki, 1974; Bohart & Menke, 1976; Nemkov et al., 1995; Li et al., 2008; Terayama, 2008; Nemkov, 2009; Pulawski, 2014). In the course of our recent examination of South Korean material of this genus, we discovered an unusual taxon which was very similar to *Tachytes modestus*, but clearly different by several external features and the male genitalia. We consider it to be an undescribed species.

In the present study, we provide a revised key to South Korean *Tachytes* species, a description of the new species, diagnoses for previously known species, and digital images and line drawings of diagnostic characters.

Material and methods

Morphological terminology follows Bohart & Menke (1976), Pulawski & Prentice (2008) and Tsuneki (1964a). All measurements were taken as the maximal length of the part being considered.

For previously described species, reference to the original publication of the valid name is provided, together with type information. The rest of the synonymic list includes only the references indicating justifiable Korean occurrence.

Holotype and two paratypes will be deposited at the Insect collection in National Institute of Biological Resources (NIBR), Incheon Metropolitan City, Korea. The remaining paratypes and examined material are housed at Insect collection of Korean Bio-resources Research Center (KBRC), Suwon, Korea.

Acronyms for type depositories are as follows: [BMNH] The Natural History Museum, formerly British Museum of Natural History, London, Great Britain; [ZIN] Zoological Institute, Russian Academy of Science, St. Petersburg, Russia; [MNHAH] The Museum of Nature and Human Activities, Hyogo, Japan. Acronyms for
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References


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