Four new and three redescribed species of the cockroach genus *Margattea* Shelford, 1911 (Blattodea, Ectobiidae, Pseudophyllodromiinae) from China

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Abstract

Four new species of *Margattea* Shelford from China are described: *M. angusta* sp. n., *M. flexa* sp. n., *M. spinosa* sp. n. and *M. pseudolimbata* sp. n. Male genitalia are illustrated. *M. limbata* and *M. hemiptera* are redescribed and illustrated based on types. *M. bisignata* is described in detail for the first time. A key to *Margattea* spp. from China and photographs of *M. mckittrickae* and *M. spinifera* in nature are provided.

Key words: Insecta, Blattellidae, *Margattina*, type specimens, cockroaches, new species, key

Introduction

Wang *et al.* (2009) briefly recorded the taxonomic history of *Margattea* Shelford, reporting 4 species, *M. producta*, *M. multipunctata*, *M. mckittrickae* and *M. concava* from China and providing systematics remarks. Liu and Zhou (2011) synonymized *Margattina* Bey-Bienko, 1958 with *Margattea* and described 3 species, *M. speciosa*, *M. furcata* and *M. immaculata*. Up to now, 54 species are included in this genus worldwide, of which 15 are from China. In the present paper, after checking the specimens deposited in the Insect Collection of Southwest University (SWU), 4 species new to science are described and illustrated.

Material and methods

Terminology used in this paper is mainly according to Roth (2003); the nomenclature of wing-venation is according to Rehn (1951). Measurements are based on specimens examined. The genital segments of the examined specimens were macerated in 10% NaOH and observed in glycerin jelly using a Motic K400 stereomicroscope. All drawings were made with the aid of a Motic K400 stereomicroscope. Photographs of the specimens were made using a Canon 50D plus a Canon EF 100mm f/2.8L IS USM Macro lens combined with Helicon Focus software. The material examined is deposited in the collections of Southwest University (SWU) and the Zoological Institute, Russian Academy of Sciences (ZIN) as indicated. Type specimens of new species are deposited in the Insect Collection of Southwest University, Beibei, China.

Taxonomy

Key to species of *Margattea* from China

1. Tegmina barely reaching middle of abdomen (Figs. 12, 13) ................................................................. 2. *M. hemiptera*
   - Tegmina reaching or extending beyond the end of abdomen (Figs. 1-11) .................................................. 2

2. Hind wings obviously reduced, not reaching the end of abdomen ................................................................. 2. *M. perspicillaris*
   - Hind wings fully developed, reaching or extending beyond end of abdomen (Figs. 1-11) ............................. 3

http://dx.doi.org/10.11646/zootaxa.3827.1.3
strong light and they remained motionless. But if the collectors and cockroaches were in close proximity, the male managed to drag the female and kept themselves hidden beneath the leaves (Wu KL, pers. obs). *Margattea spinifera* Bey-Bienko (Fig. 65) did not flee when exposed to light or sound (Wu KL, pers. obs).

**FIGURES 64–65.** 64 *Margattea mckittrickae* Wang, Che and Wang 65 *Margattea spinifera* Bey-Bienko, in Mountain Diaoluo, Lingshui, Hainan Province, 3 May 2013 (Originals by Wu Keliang).

**Acknowledgements**

We are sincerely grateful to Prof. J. R. Schrock (Department of Biological Sciences, Emporia State University, USA) for revising the manuscript, and to Dr. George Beccaloni for his help in borrowing specimens from Dr. Leonid Anisyutkin (Russia, ZIN) and also thank to Dr. Leonid Anisyutkin for his kind loan of the type specimens. This study is supported by the National Natural Sciences Foundation of China (Nos. 30900146, 31093430) and also partly by the Disciplinary Team Project of Southwest University (Nos. 23622014XK08).

**References**


