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New species and records of the genus *Trachypeplus* Horváth (Hemiptera: Tingidae) from China

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Abstract

This paper deals with the genus *Trachypeplus* from China. Nine species of *Trachypeplus* are treated in this paper, of which three species, namely *Trachypeplus depressus* **sp. nov.**, *Trachypeplus jingae* **sp. nov.**, and *Trachypeplus parafulgoris* **sp. nov.**, are described as new. These nine species are photographed and keyed.

Key words: Hemiptera, Tingidae, *Trachypeplus*, new species, new record, lace bug, China

Introduction

The genus *Trachypeplus* was erected by Horváth in 1926 with the type species *Trachypeplus jacobsoni* Horváth. Later, Drake and his collaborators added six new species to the genus: *T. bakeri* Drake, 1927 from The Philippines; *T. chinensis* Drake and Poor, 1936a from China and Viet Nam; *T. malloiti* Drake and Poor, 1936b from India; *T. guinaicus* Drake, 1960; *T. apistus* Drake and Ruhoff, 1965b from New Guinea; and *T. idoneus* Drake and Ruhoff 1962 from Greater Sunda Islands. These species (except *T. apistus*) were included in the catalog prepared by Drake and Ruhoff (1965a). Subsequently, Jing added two new species (*T. yunnanus* Jing 1980 and *T. magnus* Jing 1981) from China to the genus. Péricart (1984) reviewed and placed *Physatocheila fulgoris* Drake 1937 (China, India, Bhutan) in the genus *Trachypeplus*. In 1986, Péricart described one more new species *T. borneensis*, to the genus from Malaysia, but subsequently moved it into the genus *Pseudurentius* Péricart in 1992. Recently, Guilbert (2007) added two new species (*T. elongatus* and *T. wapi*) from Laos to the genus.

The genus *Trachypeplus* of China was surveyed by Jing (1981), and five Chinese species were described as new to science, or redescribed, and figured. These species, together with *T. fulgoris* (Drake), were cataloged by Péricart and Golub (1996). Up to date, *Trachypeplus* includes twelve species mainly distributed in Oriental region and New Guinea, of which six species occur in China.

In this paper, we studied the species of *Trachypeplus* from China; three species, *Trachypeplus depressus* **sp. nov.**, *T. jingae* **sp. nov.**, and *T. parafulgoris* **sp. nov.**, are new to science. Updated distributional information for *T. chinensis*, *T. fulgoris*, *T. jacobsoni*, *T. magnus*, and *T. yunnanus* are also reported here. Photographs and drawings of body and main characters of the involved species are provided, together with a key to species of *Trachypeplus* occurring in China.

Material and methods

The most types and materials are deposited at the Institute of Entomology, College of Life Sciences, Nankai University (NKUM), Tianjin, China. The type specimens of *T. jingae* **sp. nov.** are deposited at the Zoological Museum, Institute of Zoology, the Chinese Academy of Sciences (IZAS), Beijing, China.