



Key to species of the subgenus *Chlaenioctenus* (Coleoptera: Carabidae: Chlaeniini: *Chlaenius*), with description of two new species

YE LIU¹, HONGBIN LIANG^{2,4}, DAVID H. KAVANAUGH³ & MAOFA YANG¹

¹Key Laboratory for Plant Pests Management of Mountainous Region, Institute of Entomology, Guizhou, University, Guiyang 550025, China. E-mail: liuye198282@126.com

²Key Laboratory of Zoological Systematics and Evolution, Institute of Zoology, Chinese Academy of Sciences, Beijing 100101, China. E-mail: lianghb@ioz.ac.cn

³Department of Entomology, California Academy of Science, San Francisco, California 94118, U.S.A. E-mail: dkavanaugh@calacademy.org

⁴Corresponding author

Abstract

Eight species of the subgenus *Chlaenioctenus* of genus *Chlaenius* are recognized from Asia, with two new species described from China: *Chlaenius (Chlaenioctenus) piligenys* Liu and Liang, new species (type locality: Taiwan), and *C. (C.) rotundithorax* Liu and Kavanaugh, new species (type locality: Yunnan). Two species, *C. (C.) freyi* Jedlička, 1960 and *C. (C.) pectinipes* Bates, 1892 are redescribed based on type specimens. Photographs of *C. (C.) schillhammeri* Kirschenhofer, 2003 and a key to all known species of subgenus *Chlaenioctenus* are provided.

Key words: Coleoptera, Carabidae, *Chlaenius*, *Chlaenioctenus*, new species, key

Introduction

Chlaenioctenus Bates, 1892 is one of the subgenera included in genus *Chlaenius* of the carabid tribe *Chlaeniini*. This subgenus was erected for adults with pectinate claws, a feature unique within the genus. Members of this subgenus are similar to those of subgenera *Lissauchenius* and *Ocybatus* in having a round yellow spot on each elytron, but different from them in having rounded shoulders (hind wings reduced) in addition to pectinate claws.

To date, six species of the subgenus have been described, all from Southeast Asia, namely, *Chlaenius eneides* Bates, 1892 (type locality: Assam, India), *C. pectinipes* Bates, 1892 (Kachin, Myanmar), *C. freyi* Jedlička, 1960 (Jiangxi, China), *C. schillhammeri* Kirschenhofer, 2003 (Kachin, Myanmar), *C. sehnali* Kirschenhofer, 2008 (Guangxi, China) and *C. bilyi* Kirschenhofer, 2009 (Chiang Mai, Thailand). Recently, we received five *Chlaenius* specimens from Taiwan province presented by Mr. Changchin Chen. After careful comparisons with types and/or original descriptions, we concluded that they represent a new species belonging to *Chlaenioctenus*. Subsequently, we reviewed material in the collection of the Institute of Zoology, Chinese Academy of Sciences, in Beijing and discovered specimens representing one more new species, collected from the Gaoligong Mountains of Yunnan province. Descriptions of these two new species are provided below.

To date, no key to the species of *Chlaenioctenus* has been published. Based on our study of type specimens and/or original descriptions, we have compiled a key to aid identifications for all known species, including the two new ones described in this paper.