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Four new *Chlaenius* species (Coleoptera: Carabidae: Chlaeniini) from Asia and a key to the species of subgenus *Chlaenioctenus*

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Abstract

Four new *Chlaenius* species are described from Asian region: *C. cheni* Liu & Liang **sp. n.**, *C. bodhidharma* Liu & Liang **sp. n.**, *C. li* Liu & Liang **sp. n.**, and *C. aodai* Liu & Liang **sp. n.** *Chlaenius langsonensis* Kirschenhofer, 2008 is assigned from subgenus *Ocybatus* to *Chlaenioctenus*. *Chlaenius (Chlaenioctenus) eneides* Bates, 1892 is redescribed and lectotype is designated. A key to all species of the subgenus *Chlaenioctenus* is provided.

Key words: *Chlaenius*, *Chlaenioctenus*, new species, key, India, China, Vietnam

Introduction

Genus *Chlaenius* Bonelli of the carabid tribe *Chlaeniini* is a cosmopolitan group distributed in all zoogeographical regions. It is represented by 61 subgenera with 957 species and subspecies, and 22 subgenera were reported from Asian (Lorenz 2005). Among Asian subgenera, taxonomy of *Chlaenioctenus* Bates is quite up-to-date and the subgenus is represented by 8 species (Liu *et al.* 2010). The study of carabid collections in various museums leads to a discovery of four more new species from the Oriental Region, and to the inclusion of *Chlaenius langsonensis* Kirschenhofer into the subgenus. In this paper we describe these new species and provide a key to all known species of the subgenus.

Materials and methods

The number of studied individuals is indicated within each species description. Body length (BL) was measured as the linear distance along the midline from the apex of the longer mandible to the apex of the longer elytron. Other measurements and abbreviations are as follows: HW = maximum head width including the eyes; EYL = eye length measured along the longitudinal diameter (dorsal-lateral view); PL = length of pronotum measured along median line; PW = pronotum width at its widest point; EL = elytron length from base to apex; EW = width across both elytra at widest point (equal to body width). Photographs were captured and processed as in Liu *et al.* (2010). Collecting data of specimens in the present paper are exactly cited as those on their original labels, but Chinese on labels is translated to English. Individual labels are separated by a slash and information on each label is quoted in a pair of quotation marks.

The specimens examined are deposited in the following collections:

IZCAS	National Zoological Museum of China, Institute of Zoology, Beijing, China
MNHN	Muséum National d'Histoire Naturelle, Paris, France
MNHU	Museum für Naturkunde der Humboldt-Universität zu Berlin, Berlin, Germany
NHMB	Naturhistorisches Museum, Basel, Switzerland