



New data on the subgenus *Gnathopaederus* of the genus *Paederus* (Coleoptera: Staphylinidae: Paederinae) of mainland China

ZHONG PENG¹, QI-LI LI¹, LI-ZHEN LI² & FU-KANG GU^{1,3}

¹School of Life Science, East China Normal University, 3663 North Zhongshan Road, Changning District, Shanghai, 200241, P. R. China. E-mail: lathrobium@163.com

²Department of Biology, College of Life and Environmental Sciences, Shanghai Normal University, Shanghai, 200234, P. R. China. E-mails: lizhenli@shnu.edu.cn

³Corresponding author

Abstract

Paederus (*Gnathopaederus*) *xuei* Peng & Li sp. n. (Yunnan: Dawei Shan) and *P. (G.) cheni* Peng & Li sp. n. (Hunan: Badagong Shan) are described and illustrated. Additional records of *P. (G.) bursavacua* Willers, 2001, *P. (G.) szechuanus* (Chapin, 1927) and *P. (G.) yunnanensis* Willers, 2001 are reported.

Key words: Coleoptera, Staphylinidae, *Paederus*, *Gnathopaederus*, new species, new records, mainland China

Introduction

According to Li & Zhou (2009), the subgenus *Gnathopaederus* Chapin, 1927 of the speciose genus *Paederus* Fabricius, 1775 was previously represented in mainland China by six described species: *P. daozenensis* Li & Zhou, 2009 (Guizhou), *P. jilongensis* Li & Zhou, 2009 (Xizang), *P. szechuanus* (Chapin, 1927) (Sichuan), *P. bursavacua* Willers, 2001 (Chongqing), *P. yunnanensis* Willers, 2001 (Yunnan) and *P. solodovnikovi* Willers, 2002 (Yunnan; Thailand: Chiang Mai).

In recent years we obtained numerous *Gnathopaederus* specimens collected during several field trips. Five species were identified, two of which are described for the first time.

Material and methods

The following abbreviations are used in the text, with all measurements in millimeters: Body length (BL) from the anterior margin of the labrum to the abdominal apex; forebody length (FL) from the anterior margin of the labrum to the posterior margin of the elytra; head length (HL) from the anterior clypeal margin to the occipital constriction; head width (HW): maximum width of head; length of antenna (AnL); length of pronotum (PL) along midline; maximum width of pronotum (PW); elytral length (EL) at the suture from the apex of the scutellum to the posterior margin of the elytra (at the sutural angles); maximum width of the elytra (EW); maximum width of abdomen (AW); length of aedeagus (AL) from the apices of the parameres to the base of the aedeagal capsule.

The type material is deposited in the Insect Collection of Shanghai Normal University, Shanghai, China (SNUC).

Paederus (*Gnathopaederus*) *bursavacua* Willers, 2001

(Figs 1A, 1G, 2)

Material studied. China: Guizhou: 40 ♂♂, 30 ♀♀, Suiyang Hsien, Kuankuoshui Natural Reserve, 28°14'07"N,