

Article



Notes on *Prosopocoilus* Hope (Coleoptera: Scarabaeoidea: Lucanidae) from China, with the description of two new species

HAO HUANG1 & CHANG-CHIN CHEN2

¹503, East, No.1 Dong-ting-hu Road, Qingdao, P.R.China. E-mail: cmdhhxx@hotmail.com

Abstract

Prosopocoilus yangi Fukinuki has been rediscovered from central China and is redescribed with male and female genitalia illustrated. A similar species, P. simianshanus new species, is described from Chongqing, central China. Prosopocoilus reni new species is described from Hainan, China. Taxonomic notes are given for Kirchnerius guangxii Schenk, Prosopocoilus astacoides (Hope) and Prosopocoilus duplodentatus Benesh. Three new synonyms are presented: Prosopocoilus Hope = Kirchnerius Schenk new synonym; Prosopocoilus cyclommatoides Lacroix = Kirchnerius guangxii Schenk new synonym; Prosopocoilus oweni melli Kriesche = Prosopocoilus duplodentatus Benesh new synonym.

Key words: Lucanidae, Prosopocoilus, Kirchnerius, new species, new synonym, redescription, China

Introduction

Prosopocoilus yangi Fukinuki, 2004 was described based on a single male from Jiangxi, China. Since then, no information about this species has been published. In 2009, colleagues collected a few lucanid larvae from Chongqing in central China and reared some adults of *Prosopocoilus yangi*. We redescribe this species and illustrate the male and female genitalia in this paper.

In the same area where *P. yangi* was rediscovered, a similar species was collected and identified as a new species. A comparative study in male and female genitalia shows that the new species, *P. simianshanus*, is most similar to *P. yangi* and *P. cyclommatoides* (Lacroix, 1978).

In addition, another new species, *P. reni*, is described from Hainan, China, which is similar to *P. astacoides* (Hope, 1840). The male and female genitalia of all the known Chinese subspecies of *P. astacoides* are illustrated and compared.

Some classification changes are made to other Chinese *Prosopocoilus* species. *Prosopocoilus duplodentatus* Benesh, 1943 from Sichuan is considered as a new junior synonym of *P. oweni melli* Kriesche, 1922 from Guangdong, with the holotypes of both taxa illustrated for the first time. *Kirchnerius guangxii* Schenk is considered as a new junior synonym of *Prosopocoilus cyclommatoides* Lacroix.

The delimitation of the genus *Prosopocoilus* Hope, 1845 is problematic and phylogenetic analysis is needed in the future. In this paper the delimitation of *Prosopocoilus* tentatively follows Benesh (1960) and Krajcik (2001, 2008). Therefore, *Kirchnerius* Schenk is considered as a new junior synonym of *Prosopocoilus* Hope.

Prosopocoilus yangi Fukinuki, 2004

(Figs. 1, 9, 13, 17, 21, 25, 29, 34)

Prosopocoilus yangi Fukinuki, 2004: 31, Fig. 7 (male holotype), "Junbon shan, Leanshin county, Jangxi (sic) prov"

Material examined. CHINA: Chongqing: 42 ♂♂, 34 ♀♀, Nanchuan County, Mt. Jinfoshan, 1000-1400 m, several larvae collected by He-Li Deng, Xiao-Dong Yang and Li-Jiang Wang from field in VI.2008, reared by J. Hao,

²Technical Center, Tianjin New Wei San Industrial Company, Limited, P.R.China. E-mail: natures@nws.cn