



Description of two new species of *Lucanus* Scopoli (Coleoptera: Scarabaeoidea: Lucanidae) from southeastern Tibet, China

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Abstract

Two new species of stag beetles, *Lucanus cheni* **new species** and *Lucanus langi* **new species**, are described from southeastern Tibet, China. Male and female genitalia of the new species are illustrated and compared to those of the similar species. A new status and a new synonym are presented: *Lucanus tibetanus furcifer* Arrow **new status** = *Lucanus pseudosingularis* Didier & Séguy **new synonymy**.

Key words: Lucanidae, *Lucanus*, new species, new status, new synonym, Tibet, China

Introduction

The Chinese species of *Lucanus* Scopoli, 1763 were recently reviewed by Huang & Chen (2010). Since that publication, two new species have been discovered. The purpose of this paper is to describe the two new species and to correct and update some other nomenclatural matters.

Huang & Chen (2010) overlooked a lectotype designation of *Lucanus furcifer* Arrow, 1950 by Bacchus (1978). The lectotype of *Lucanus furcifer* from Yunnan has now been examined and we have determined that it is synonymous with a previously recognized subspecies of *Lucanus tibetanus* Planet, 1898. Therefore the specimens from Motuo, southeastern Tibet identified as *Lucanus furcifer* by Huang & Chen (2010) belong to a new species. In the same publication (Huang & Chen 2010), a male specimen from Motuo was tentatively identified as *Lucanus smithii* Parry, 1862 due to some similarities in external features. The second and third authors collected more specimens of this species from Motuo. After a careful study of these specimens we concluded that they belong to a new species, which is described below.

Lucanus cheni Huang new species

Lucanus furcifer Arrow, 1950: 46, partim [specimens from Sikkim (Lachen Lachung)], plate 3, Fig. 4; male from Sikkim; Didier & Séguy 1953: 30, Fig. 2 for male head, Fig. 6 for male “androtype”; Bacchus 1978: 109, part of paralectotypes, 1 male from “Sikkim, Lachen Lochung, viii (MNHN, Paris)”; Huang 2006: 14, 18, Hanmi, Motuo, southeastern Tibet; Huang & Chen 2010: 156, figures for habitus, maxilla, labium and clypeolabrum of both sexes, male and female genitalia. (Taxonomic change according to the lectotype designation of Bacchus [1978]).

Lucanus singularis: Lacroix, 1971: 566, partim [“paratype: 1 male, forme mineure, region tibetaine, Lacheng-Lachung”], Fig. 8 for male; Schenk, 2009: 7, Fig.1 [male from Sikkim], Fig. 2 [male from Bhutan] (misidentification).

Type material. Holotype (Figs. 1, 10): CHINA: Xizang (Tibet): ♂, Linzhi Prefecture, Motuo County, Hanmi, 2150m, 17.VIII.2005, H. Huang leg.; deposited in the entomological collection of Shanghai Entomological Museum, Chinese Academy of Science, Shanghai, China. **Paratypes: CHINA: Xizang:** 23 ♂♂, 20 ♀♀, Linzhi