[研究文章 Research Article]

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New Records of *Bolcocius granulosus* (Sharp, 1885) (Coleoptera: Zopheridae) from Taiwan, with a Key to Taiwanese Species of *Bolcocius*

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Abstract. *Bolcocius granulosus* (Sharp, 1885) is newly recorded from Taiwan. A key to Taiwaese species of the genus is provided.

Key words: Zopheridae, Colydiinae, Bolcocius, new faunistic record, Taiwan

Introdution

The genus *Bolcocius* Dajoz, 1975 is widely distributed in Japan, Taiwan, China, India, Indonesia, Pacific Islands, New Guinea and Australia (Dajoz, 1975; Ślipiński et al., 1999). However, only one species (*B. formosanus* Sasaji, 1984) of the genus has been recorded from Taiwan. The genus is morphologically similar to *Colobicus* Latreille, 1807, but it can be distinguished by the combination of following characters: narrower and convex body; pronotal and elytral margins at most narrowly explanate; interfacetal setae in the form of long stout bristles; antennomere III much shorter than the combined length of I and II. (Ślipiński et al., 1999; Aoki, 2012). The genus *Bolcocius* in East Asia has been studied by some Japanese entomologists such as Hiroyuki Sasaji and Junichi Aoki.

I've visited the Taiwan agricultural Research Institute, Wufeng, Taichung, Taiwan recently in order to examine specimens of zopherid beetles and found specimens of *Bolcocius granulosus* (Sharp, 1885) collected in Taiwan. Hence, I herein report this new faunistic record from Taiwan, and provide notes on morphological characters, which are needed for the identification. In addition, some important literature for studying on this genus occurred in East Asia are catalogued below.

Material and methods

All materials examined in this paper are deposited at the Taiwan Agricultural Research Institute, Wufeng, Taichung, Taiwan (TARI, Dr. Chi-Feng Lee). Abbreviation used in the text: ex – unidentified sex specimen(s).

Results

Bolcocius granulosus (Sharp, 1885)

(Figs. 1-3)

Colobicus granulosus Sharp, 1885: 65.

Bolcocius granulosus: Sasaji, 1984: 38; Sasaji, 1985: 293; Ślipiński & Schuh, 2008: 81; Aoki, 2009: 41 & 144; Aoki, 2012: 57.

Material examined. TAIWAN: 1 ex., Shitou, Nantou Country, 1. II. 2005, C.-F. Lee leg. (TARI); 2 ex., Shitou, Nantou Country, 18. III. 2004, C.-F. Lee leg. (TARI).

Differential Diagnosis. It can be easily distinguished from any other *Bolcocius* species occurred in East Asia by the combination of following characters: larger body; apex of elytral setae sharped; posterior margin of pronotum arcuate.

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Comment. This species has been recorded from Japan (Honshu, Shikoku, Kyushu and Tsushima) and China (Southwestern Territory), excluded Taiwan. The present study firstly confirmed and proposed its first record from Taiwan.



Figure 1. Dorsal view of Bolcocius granulosus (Sharp, 1885). Scale: 0.5 mm.

Key to Taiwanese species of the genus Bolcocius Dajoz, 1975

| Larger body; setae on elytra rounded apically | B. formosanus Sasaji, 1984 (Fig. 2) |
|--|--------------------------------------|
| Smaller body; setae on elytra sharped apically | B. granulosus (Sharp, 1885) (Fig. 3) |



Figure 2. Elytral setae of B. granulosus (Sharp, 1885), showing elytral setae sharped apically. Scale: 0.1 mm.

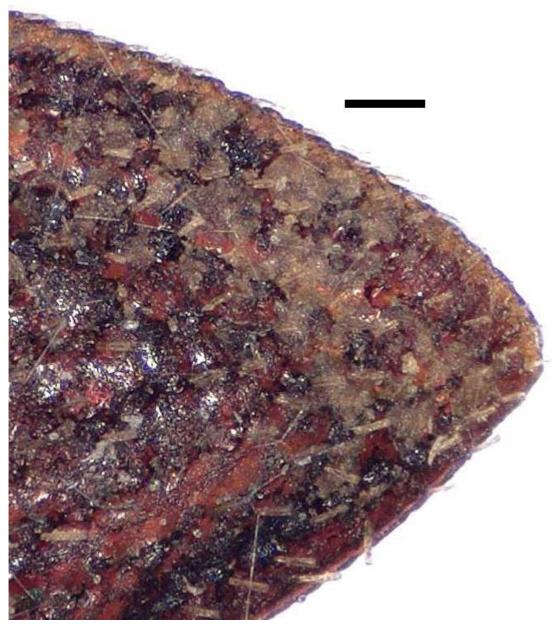


Figure 3. Elytral setae of *B. formosanus* Sasaji, 1984, showing elytral setae rounded apically. Scale: 0.1 mm.

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Reference

- Aoki, J. 2009. Colydiids: A Small Charming Group of Beetles, with Catalogue of the Japanese Species. Tokai University Press, Japan. 194 pp. (in Japanese)
- Aoki, J. 2012. Cylindrical Bark Beetles of Japan. Families Bothrideridae and Zopheridae. Roppon-Ashi Entomological Books, Tokyo. 92 pp. (in Japanese.)
- Dajoz, R. 1975. Ergebnisse der Bhutan-Expedition 1972 des Naturhistorischen Museums in Basel. Coleoptera: Fam. Colydiidae & Cerylonidae. Entomologica Basiliensia 1: 293-311.
- Sasaji, H. 1984. Contribution to the taxonomy of the superfamily Cucujoidea (Coleoptera) of Japan and her adjacent districts, II. Memoirs of Faculty of Education, Fukui University Series II (Natural Science) 34: 21-63.

- Sasaji, H. 1985. Family Colydiidae. pp 290-294. In: Kurosawa Y, Hisamatsu S, Sasaji H (eds). The Coleoptera of Japan in Color Vol. III. Hoikusha, Tokyo. (in Japanese)
- Sharp, D. 1885. On some Colydiidae collected by Mr. G. Lewis in Japan. Zoological Journal of the Linnean Society 19: 58-84, pl. 3.
- Ślipiński, S.A. & Lawrence, J.F. 1999. Phylogeny and classification of Zopheridae Sensu Novo (Coleoptera: Tenebrionoidea) with a review of the genera of Zopherinae (excluding Monommatini). Annales Zoologici 49 (1/2): 1-53.
- Ślipiński, S.A. & Schuh, R. 2008. Family Zopheridae Solier, 1834. pp. 78-87. In: Löbl I, Smetana A (eds). Catalogue of Palaearctic Coleoptera, Volume 5. Apollo Books, Stenstrup, Denmark.

臺灣新紀錄種粒面丸形細堅蟲之記述及臺灣產丸形細堅蟲屬檢索表 (鞘翅目:瘤擬步行蟲科)

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摘要: 粒面丸形細堅蟲 Bolcocius granulosus (Sharp, 1885) 新紀錄於臺灣,本文同時提供臺灣產丸形細堅蟲屬檢索表。

關鍵詞: 瘤擬步行蟲科、細堅蟲亞科、丸形細堅蟲屬、物種相新紀錄、臺灣