

New data on *Sphaerites perforatus* and *S. nitidus* (Coleoptera: Sphaeritidae): additional diagnostic characters and records from China

Новые данные о *Sphaerites perforatus* и *S. nitidus* (Coleoptera: Sphaeritidae): дополнительные диагностические признаки и указания из Китая

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The article deals with diagnostic characters, distribution including additional faunal records, and ecology of *Sphaerites perforatus* Gusakov, 2017 and *S. nitidus* Löbl, 1996. A redescription of *S. perforatus* with indication of additional morphological characters is given. Wings venation of *S. perforatus*, *S. nitidus*, and *S. glabratus* (Fabricius, 1792) is analysed. A key to all species of *Sphaerites* Duftschmid, 1805 is given.

В статье рассмотрены диагностические признаки, распространение, включая дополнительные фаунистические находки, и экология *Sphaerites perforatus* Gusakov, 2017 и *S. nitidus* Löbl, 1996. Приводится переописание *S. perforatus* с указанием дополнительных морфологических признаков. Проанализировано жилкование крыльев *S. perforatus*, *S. nitidus* и *S. glabratus* (Fabricius, 1792). Дана определительная таблица всех видов рода *Sphaerites* Duftschmid, 1805.

Key words: false clown beetles, taxonomy, China, Coleoptera, Sphaeritidae, *Sphaerites*, new records

Ключевые слова: жуки-таежники, таксономия, Китай, Coleoptera, Sphaeritidae, *Sphaerites*, новые фаунистические указания

INTRODUCTION

Sphaeritidae, commonly called false clown beetles, include a single genus, *Sphaerites* Duftschmid, 1805, with seven currently known species. The majority (viz. six) of species occur in the Palaearctic Region: *S. dimidiatus* Jureček, 1934, *S. glabratus* (Fabricius, 1792), *S. involatilis* Gusakov, 2004, *S. nitidus* Löbl, 1996, *S. opacus* Löbl et Háva, 2002, and *S. perforatus* Gusakov, 2017. These species are known only from China (Jureček, 1934; Löbl, 1996; Löbl et Háva, 2002; Gusakov, 2004, 2017) except for *S. glabratus* widely distributed over the forest zones. A single species, *S. politus* Man-

nerheim, 1846, is distributed in the Nearctic Region (Mannerheim, 1846; Kryzhanovskij & Reichardt, 1976). The taxonomic review of the family was published by Gusakov (2004), and more recently the distribution of *Sphaerites* in the Palaearctic Region was considered by Löbl (2015).

The present study is based on the recently collected material of the two rare species, *S. perforatus* and *S. nitidus*, from Yunnan and Sichuan (China). The former species was described recently on the basis of seven specimens from five localities in Yunnan; the latter one was known only by the holotype and paratype collected in one locality in Sichuan.