

First records of *Psammodyus asperoides* Pittino, 2007 and *Rhyssemus annaedicatus* Pierotti, 1980 (Coleoptera: Scarabaeidae: Aphodiinae) in Bulgaria

ŁUKASZ MINKINA¹, CEZARY NOWAK², MAREK BIDAS³

¹Poland, os. Polana Szaflarska 4/39, 34-400 Nowy Targ, klekel@interia.eu

²Poland, ul. Południowa 14, 29-100 Włoszczowa, cjn@o2.pl

³Poland, ul. Prosta 290D/2, 25-385 Kielce, zuk55@o2.pl

Abstract. *Psammodyus asperoides* Pittino, 2007 and *Rhyssemus annaedicatus* Pierotti, 1980 are reported from Bulgaria for the first time. New locality for *Rhyssemus annaedicatus* Pierotti, 1980 is given.

Key words: *Psammodyus*, *Rhyssemus*, faunistics, Bulgaria.

Introduction

Knowledge of Bulgarian Psammodiini Mulsant, 1842 is still very poor. Nowadays genus *Psammodyus* Fallén, 1807 in Bulgaria is represented by 4 species: *P. asper* (Fabricius, 1775), *P. basalis* Mulsant & Rey, 1871, *P. bulgaricus* Mencl, 1982, and *P. laevipennis* Costa, 1844 (Löbl & Smetana 2006, Král & Malý 1993). From genus *Rhyssemus* Mulsant, 1842 from Bulgaria was reported only 2 species: *R. berytensis* Marseul, 1878 and *R. germanus* (Linnaeus, 1767) (Löbl & Smetana 2006, Bunalski, 2000, 2001). Pittino (2007) reviewed Western Palearctic genus *Psammodyus* and described *P. asperoides* Pittino, 2007 from Greece, nearby of Bulgaria. *Rhyssemus annaedicatus* Pierotti, 1980 was reported from Greece by Baraud (1992). Informations about Psammodiini of Western Rhodopes provided Guéorguiev *et al.* (2011).

In 2013 authors collected in Bulgaria 5 specimens of *Psammodyus asperoides*, and 91 specimens of *Rhyssemus annaedicatus* at the same locality.

Material and Methods

The specimens were collected riverside of Struma River by sifting sand among grass roots, and by flotation (Fig. 3). They were preserved in private collections of authors. For identification the keys of Ballerio *et al.* (2014), Balthasar (1964) and Baraud (1962) were used.

Results

Psammodius asperoides Pittino, 2007

(Fig. 1)

New data: Bulgaria, UTM FM80, Sandanski, N41°33'47" E23°14'09", 01.05.2013, bank of the river Struma, 2 specimens, leg. L. Minkina; all same data, 2 specimens, leg. C. Nowak; all same data, 1 specimen, leg. M. Bidas.



Fig. 1. *Psammodius asperoides*: Bulgaria, UTM FM80, Sandanski.
Photo: Rafał Celadyn.



Fig.2. *Rhyssemus annaedicatus*: Bulgaria, UTM FM80, Sandanski.
Photo: Rafał Celadyn.



Fig. 3. Habitat of *Psammodyus asperoides* and *Rhyssemus annaedicatus* on the bank of Struma River in Sandanski.

Rhyssemus annaedicatus Pierotti, 1980

(Fig. 2)

New locality: Bulgaria, UTM FM80, Sandanski, N41°33'47" E23°14'09", 01.05.2013, bank of the river Struma, 24 specimens, leg. Ł. Minkina; all same data, 41 specimens, leg. C. Nowak; all same data, 26 specimens, leg. M. Bidas.

Specimens were collected together with 1 specimen of *Rhyssemus germanus* (Linnaeus, 1767), leg. Ł. Minkina; 2 specimen of *R. berytensis* Marseul, 1878, leg. C. Nowak; 12 specimens of *Psammodyus laevipennis* Costa, 1844: 3 specimen leg. M. Bidas, 2 specimens leg. C. Nowak, 7 specimens leg. Ł. Minkina; and 7 specimens of *Leiopsammodyus strumae* (Chromy, 1983): 2 specimens leg. C. Nowak, 2 specimens leg M. Bidas, 3 specimens leg. Ł. Minkina.

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