

Distribution of *Amorphacephala coronata* (Germar, 1817) (Coleoptera: Brentidae) in Bulgaria

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Abstract. All the available data about distribution of the rare myrmecophilous species *Amorphacephala coronata* in Bulgaria have been summarized, and new localities of the species have been added.

Key words: myrmecophily, *Camponotus*, Balkans.

Introduction

The first record of *Amorphacephala coronata* (Germar, 1817) for the fauna of Bulgaria was published by Ioakimov (1904). Despite this relatively early record, the species was rarely found at long time intervals and only nine localities have been known until now. A few new localities of the species have been established during the last years as a result of more intense use of light traps and due to focused search for myrmecophilous and soil insects.

These new localities are presented in this study.

The materials are deposited at the National Museum of Natural History-Sofia (NMNHS) and at the Faculty of Biology at the University of Sofia (BFUS) collections. The map was produced with SimpleMappr (Shorthouse, 2010).

Results

Amorphacephala coronata (Germar, 1817)
(Fig. 1, 2)

Literature data: vicinity of Haskovo Town, 12.05.1900, 1 ex. (Ioakimov, 1904); Slavyanka (Alibotush) Mts., 1000 m, 31.07.1936 (Csiki, 1943); Sozopol, 2.08.1959, 1 ex. (Popov, 1960); Belovo Town, Podkova Village, Plovdiv Town, Petrich Town (Angelov, 1981); Ahtopol, 23.06.2000, 1 ex.; Tsarevo, 07.1977 (Simandl, 2002); Maleshevska Mts. (Guéorguiev & Ljubomirov, 2009); Strandzha Mts., vicinity of Kalovo Village (Lapeva-Gjonova, 2013).

New localities: Dalgopol Village, 19.07.1958, 1 ♀; Burgas, Rosenets (Otmanli) Beach, 10.07.1967, 1 ♂, 1 ♀; Strandzha Mts., 20.06.1973, 1 ♀; Kresna Gorge, Kresnensko Hanche, 7.08.1991, 1 ♀, leg. M. Josifov; Ograzhden Mts., vicinity of Gega Village, N41.46080 E23.00670, 664 m, 06.05.2010, 1 ♀, under stone, with *Camponotus aethiops* (Latreille, 1798), leg. R. Bekchiev; Kresna Gorge, above Sheitan Dere, N41.755833 E23.156395, 308 m, 13.06.2014, 1 ♂, at light, leg. S. Beshkov; East Rhodopes, Kodzhakaya (Likana), between

Odrintsi and Byalo Pole Villages, Ivaylovgrad District, N41.445555 E26.137511, 276 m, 15.07.2015, 3 ♂♂, 1 ♀, at light, leg. S. Beshkov, B. Zlatkov, C. Plant (NMNHS); Strandzha Mts., Kalovo Village, N42.13639 E27.536389, 330 m, 06.05.2009, 1 ex., under stone, with *Camponotus aethiops*, leg. A. Lapeva-Gjonova; East from Novo Hodzhovo Village at Pirinska Bistritsa River, N41.407377 E23.406988, 115 m, 14.06.2010, 1 ♀, at light, leg. O. Sivilov, B. Zlatkov; Tisata Reserve in Kresna Gorge, N41.745853 E23.153900, 220 m, 21.06.2013, 1 ♀, at light, leg. O. Sivilov, B. Zlatkov (BFUS).



Fig. 1. *A. coronata* with *C. aethiops* (Gega Village, Ograzhden Mt.).

Discussion

All available data about the distribution of this interesting myrmecophilous beetle in the country, totally 19 localities, have been summarized (Fig. 2). Almost all specimens were found in South Bulgaria at low to average altitudes (5-1000 m) corresponding to the species preferences for its usual area of distribution (Mediterranean, including North Africa). The only exception is the single finding at Dalgopol Village in North Bulgaria and so far this has been the most northern established locality of *A. coronata*. The species is new for the region of Kresna Gorge, Ograzhden Mts. and the region of Dobrudzha. The records from East Rhodopes and the region of the town of Petrich are confirmed. The data from Strandzha Mts. are being published now for the first time in their entirety.

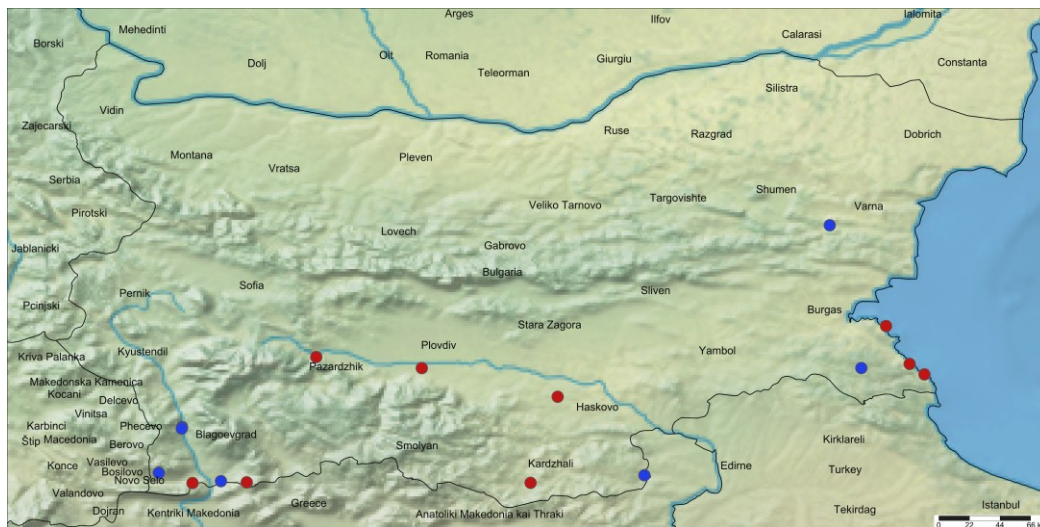


Fig. 2. Distribution of *A. coronata* in Bulgaria (red dots – literature data; blue dots – new data).

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