Mycterodus arpadi Dlabola, 1977 (Hemiptera Issidae): a new record from Europe

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ABSTRACT

Mycterodus arpadi Dlabola, 1977 (Hemiptera Issidae) is reported only from Asia Minor (Beikoz, Istanbul Province). In 2012, in the Bulgarian part of the Strandzha Mountain a few specimens of the species were collected and photographed. This is the first record of M. arpadi in Europe.

KEY WORDS

Bulgaria; fauna; Issidae; Mycterodus arpadi; new record.

INTRODUCTION

The Issidae family described by Spinola in 1839, belongs to the order Hemiptera and includes numerous species. In the Western Palaearctic there is only one tribe, Issini Spinola, 1839 comprising 51 genera and more than 455 species (Gnezdilov, 2013).

The genus Mycterodus Spinola, 1839 is one of the richest within the family. It is present in the Western Palaearctic with 40 species distributed in Central and Southeastern Europe, Eastern Mediterranean Basin, Anatolia, Caucasus, Middle Asia, and Iran (Gnezdilov et al., 2014).

Mycterodus arpadi Dlabola, 1977 was described on the base of only one male specimen from Beikoz (the Anatolian part of Turkey). The specimen is deposited in the Hungarian Natural History Museum (Budapest) (Dlabola, 1977). There are no other published records except the holotype. Nevertheless, four specimens are included in the collection of the National Museum of Natural History in Paris (Mike Wilson, pers. comm.). In the Turkish literature the species is treated as endemic (Lodos & Kalkandelen, 1981; Önder et al., 2011). The species is assigned to the subgenus Mycterodus s. str. (Dlabola, 1995; Gnezdilov et al., 2014).

Two other species of Mycterodus are reported from Bulgaria - M. cuniceps Melichar, 1906 and M. immaculatus Fabricius, 1794. According to Gnezdilov et al. (2014) the records concerning M. immaculatus need a revision. Gruev (1970) described another species - M. longivertex - but 3 years later the author referred to the species as a junior synonym of M. cuniceps (Gruev, 1973).

Mycterodus usually live on bushes and small trees. M. cuniceps is frequently collected on oaks.

This is the first record of M. arpadi for Europe.

MATERIAL AND METHODS

Examined material. Bulgaria, Strandzha Mt., Popovi skali, N 42.1630 E 27.7373, 52 m a.s.l., 1 male 2 females, 10.V.2012, m = 20/12, leg. I. Gjonov (Figs. 1, 2).
The material was collected by entomological sweeping net in May 2012 in the Bulgarian part of the Strandzha Mountain. The location is not far from the Black sea coast in a limestone area with bushy slopes, close to a small river. The specimens were collected on oaks. Photographs of the living specimens were taken by Olympus E-500 DSLR camera with Sigma 150mm F2.8 EX DG OS HSM APO Macro lens with Raynox DCR-250 macro lens and ring flash. After photographing the samples were stored. The specimens were preserved dry; they were identified by examining external morphology and by carrying out a detailed examination of genitalia following the original description (Dlabola, 1977).

RESULTS

Photos of the genital structures made under microscope were sent to András Orosz in HNHM, Budapest, and he compared them with the genital of the holotype and confirmed the species identification.

DISCUSSION AND CONCLUSIONS

Till now *M. arpadi* was known as an Anatolian endemic species. Considering the lack of previous data, *M. arpadi* could be regarded as a rare species. With this record the knowledge on the distribution of *M. arpadi* is expanded and new data about the composition of the family Issidae in Bulgaria are added.

ACKNOWLEDGMENTS

I am grateful to András Orosz, HNHM, Budapest, for confirming species identification and to Mike Wilson, National Museum Cardiff who kindly provided essential information.

REFERENCES


