First record of the jewel beetle *Anthaxia midas midas* (Coleoptera, Buprestidae) in Anatolia (Turkey, Asia)

Primer registro de escarabajos joya *Anthaxia midas midas* (Coleoptera, Buprestidae) para Anatolia (Turquía, Asia)

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Abstract: The jewel beetle, *Anthaxia midas midas*, is reported here for the first time on *Acer undulatum*. There is no previous evidence of its occurrence in Asia. The present study now adds this subspecies to both the entomofauna of Anatolia region of Turkey and Asia.

Key words: Anthaxini, Babadag, distribution, biodiversity.

Results

Genus *Anthaxia* Eschscholtz, 1829

*Anthaxia midas midas* Kiesenwetter, 1857 is a nominal subspecies of polytypic species, that *A. midas* has three subspecies, *A. m. midas* Kiesenwetter, 1857, *A. m. oberthuri* Schaefer, 1937 and *A. m. spathuligera* Obenberger, 1924, and distributes in Mediterranean and sub-Mediterranean countries occurring on hardwood trees including *Acer* spp., *Platanus* spp. and *Ranunculus* spp. (Bily 2006; Sakalian 2003). This subspecies is particularly favorable the hot and humid atmospheric holes under the sunny Mediterranean sky (Herve 1957). Also, San Martin et al. (2000) noted that it is abundant on shrubs such as *Prunus espinosa* L. and *P. mahaleb* L.

This subspecies distributes in Albania, Bosnia Herzegovina, Bulgaria, Croatia, France, Greece, Italy, Macedonia, Romania, Serbia and Thrace region of Turkey (Bily 2006). There is no previous evidence of *Anthaxia midas midas* occurring in Asia; and this study now adds this species to the entomofauna of Anatolia and Asian.

Materials and methods

A survey was carried out to find the causes of disintegration of wood in Fethiye district of Mugla province of Turkey (36°31'53"N 29°10'48"E) between March and September in 2009. Samples infested with this subspecies were picked up and taken to the laboratory in cages for rearing under natural conditions (20-24 °C, 60-70 % RH) and six larvae were taken cultures, thus immature insects in the wood tissue could reach the adult stage. They emerged as two females and four males from the samples. All of specimens are found in Lodos Entomological Museum, Turkey (LEMT).


It was observed larvae engraving in sapwood and adults on weakened or injured trees due to the negativity in the environment. Adults feed on flowering plants next to *A. undulatum*. Also, the larvae in samples brought to laboratory-sustained growth and developed on creating gallery in sapwood. Later, adults formed a D-shaped exit holes on logs (Fig. 1). All adult specimens were identified as *Anthaxia midas midas*. They are uniformly chestnut-brown in color.
and cylindrical and have a typical broad-nosed appearance with a straight short rostrum and compact clubbed antennae. The rostrum is slightly longer than wide and is longer than the head. The scrobes reach the lower edge of the eyes and originate a little before the middle of the rostrum. The eyes are flat, legs and antennae reddish brown in color and antennae relatively short and glabrous. The funicle has six antennomeres, the first being equal in length to the second and third together but wider than all the others; the second to sixth antennomeres are clearly wider than long and very compact. The pronotum is tumid, longer than the rostrum and longer than wide, rounded at sides and covered in flat-bottomed pits (Fig. 2). These pits are contiguous at the lateral margins and the pleuron but not on the pronotal disc. The parallel elytral striae are composed of rows of regular more or less equidistant symmetrical pits. The interstriae, of similar width to the striae, are finely punctate and occasionally strigulate.

The locality collected of the species is characterized by very rocky ambient, snowcapped till may, with sparse arboreal covering, predominantly formed by *Cedrus* sp. and *Pinus* sp.

**Discussion**

The Babadag mountain is in the list of 100 mountains to be preserved by World Heritage Foundation for endemic plants. Babadag and its coves have rich biodiversity of flora and fauna. Butterfly Valley, like Ölüdeniz, Kidrak and Kabak is one of the coves located at the skirts of Babadag. Therefore, Babadag and the coves are under legal conservation by Cultural and Natural Heritage Preservation Board.

This species has very sporadic distribution in Babadag which are high-elevation in isolated maple forests of Turkey thus it is subservient to *A. undulatum* maples. Herve (1957) advised naturalists to be taken protective measures for biocenotic sustainability of species that is endangered in France.

The aim of this report is to share the first impressions, observations and remarks for those interested in nature conservation and biodiversity. Both species and maples should be preserved as certain ecological communities.

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**Literature cited**


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