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A new species of the genus *Anthaxia* Eschscholtz, 1829 from Spain (Coleoptera: Buprestidae: Buprestinae: Anthaxiini)

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Abstract

Anthaxia (*Anthaxia*) *madridensis*, **sp. nov.** from central Spain is described, illustrated and compared with the most similar species. The bionomy and the history of the discovery of the new species is briefly discussed.

Key words: taxonomy, bionomy, Coleoptera, Buprestidae, Anthaxiini, new species, Iberian Peninsula

Introduction

About 10 years ago, the senior author obtained for the determination a strange specimen of *Anthaxia* Eschscholtz, 1829 from Spain which was collected by Teresa Jover (CIBIO) near Madrid. The specimen was found in a flight interception trap placed in an ash forest (*Fraxinus angustifolia* Vahl (Oleaceae)). After having compared this specimen with the type specimens of the recently described *A. (A.) chaerodrys* Szallies, 2001 from southern Turkey and according to the characters given in the description (Szallies, 2001) it seemed that the specimen was identical with the Turkish species, although slightly differing from it in colouration. Based on this determination, the species was published as a new species for Europe (Arnáiz & Bercedo, 2007a, 2007b) and its bionomy was described in detail in the same year by de la Rosa (2007).

In the course of the last 6 years much material of this species was reared by various collectors from the host plant. As a result of studying this material (circa 200 specimens from 3 provinces in Central Spain) and after having studied the holotype and many paratypes of *A. (A.) chaerodrys* the authors independently changed their opinion and evaluated this species as a new one, closely related and very similar to *A. (A.) chaerodrys*.

Material and methods

A Canon D-550 digital camera with the Canon MP-E65 mm f/2.8 1-5× macro lens was used to capture the colour images of adult beetles.

Data from locality labels are cited "verbatim" with our comments in [square brackets], individual labels are indicated by a double slash ("/").

The pronotal length was measured at the middle, the width across the widest part (usually the anterior fifth); the elytral length was measured along the elytral suture (incl. scutellum) to the tips of elytra, elytral width was measured across humeri (incl. humeral swellings which in some cases project beyond the elytral outline).

The following codens are used throughout the text:

AVCC	Antonio Verdugo collection, Cádiz, Spain
CIBIO	Instituto Universitario de Investigación Univ. de Alicante, Spain
DBRC	Daniele Baiocchi collection, Rome, Italy

madridensis **sp. nov.** are two extremely similar species forming the pair of the vicariant species. Both species differ from each other by the character states given in the Table 1.

Distribution. Central Spain (Madrid, Ciudad Real, Caceres provinces).

TABLE 1. Diagnostic character states differentiating *A. (A.) madridensis* **sp. nov.** and *A. (A.) chaerodrys*.

	<i>A. (A.) madridensis</i> sp. nov.	<i>A. (A.) chaerodrys</i>
body	lustrous	matt
frontoclypeus	emarginate	straight
pronotal sculpture	fine	distinctly rougher
scutellum	more or less pentagonal	subcordiform
elytra	uneven, 1.85–1.90 times as long as wide	smooth, 1.75–1.80 times as long as wide
base of elytra	transverse rugae	rough punctures
elytral apex	finely serrate	smooth
5 th antennomere	partly yellow	dark brown
male metatibiae	inner margins with a few, fine preapical teeth	distal third of inner margins finely serrate
parameres	narrowed, terminal part much longer than wide, basal part (Fig. 4)	narrowed, terminal part as long as wide, basal part (Fig. 2b in Szallies, 2001)
median lobe	tapering posteriorly (Fig. 5)	subparallel sides (Fig. 2a in Szallies, 2001)
colouration	pronotum with prescutellar golden green stripe, anterior margin often with golden green, triangular spot; elytra with postscutellar, sutural, golden green or golden purple stripe (Fig. 1)	entire pronotum dark bronze; elytra dark bronze, postscutellar part sometimes with slight violet lustre (Fig. 2)

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