



Four new species of *Astenus* (*Eurysunius*) Dejean, 1833 from Western Anatolia, Turkey (Coleoptera: Staphylinidae, Paederinae)

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Abstract

Four new species of *Astenus* (*Eurysunius*) Dejean (Staphylinidae: Paederinae) are described from Western Anatolia, Turkey, and illustrated: *Astenus gusarovi* sp. n. (Çökelez Mountain, Denizli province), *A. orgeli* sp. n. (İmambaba Tepesi, Aydın province and Bozdağlar, İzmir province), *A. kumlutasi* sp. n. (Akdağlar, Kütahya province and Murat Mountain, Uşak province) and *A. honazicus* sp. n. (Honaz Mountain, Denizli province). Additional records and updated distributions are provided for *A. occiduus* Assing, *A. sultanicus* Assing, and *A. sandiklicus* Anlaş. Distributions of *Eurysunius* species in Western Turkey are mapped.

Key words: Coleoptera, Staphylinidae, Paederinae, *Astenus*, *Eurysunius*, Turkey, new species

Introduction

The subgenus *Eurysunius* Reitter, 1909 of the genus *Astenus* Dejean, 1833 includes 49 valid nominal species distributed in the Palaearctic region, with most species found in the Mediterranean region (Assing 2002, 2003a, b, 2007, 2010, 2011; Smetana 2004; Anlaş 2014). The subgenus has two centers of diversity: one in the western part of the Mediterranean Basin from Italy to the Iberian Peninsula and northwestern Africa and the other in the eastern part of the Mediterranean Basin, especially Anatolia (Coiffait 1984; Smetana 2004). Seven species have been recorded from Turkey so far (Assing 2002, 2007, 2010, 2011; Anlaş 2014). All of these species are endemic to Turkey. Considering that none of them had been known prior to 2002, it seems likely that the diversity of species of the genus *Eurysunius* in Turkey is far greater than currently known.

According to Assing (2002, 2003, 2007) all *Eurysunius* species are brachypterous, most appear to have narrow distribution range, and at least some may be associated with ants of the genus *Tetramorium* Mayr (Hymenoptera: Formicidae: Myrmicinae). Many species of the subgenus *Eurysunius* are known only from a few specimens or the type series, and their biology and ecology are almost unknown.

The Staphylinidae of Turkey, in particular the Paederinae of the Aegean Region, are still poorly investigated. To address this information deficiency, a research project on the diversity and biogeography of the Paederinae was established in the Aegean Region of Turkey. These research activities yielded new data on Turkish species of the subgenus *Eurysunius*, the second installment of which is published in the article at hand (for the first installment see Anlaş 2014).

In this study, four new species are described from Turkey, so that a total of 11 species are now known from this country.

Material, methods, and depositories

The present paper is based on material collected during recent field studies in western Anatolia. All specimens listed in this study are deposited in the collection of the Alaşehir Zoological Museum, Manisa (AZMM) of the Celal Bayar University.