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**Inanç Özgen**

Fırat University, Engineering

Faculty, Bioengineering

Department, Elazığ, Türkiye

## Some new and additional records of the family Staphylinidae (coleoptera) from Türkiye

**Inanç Özgen**

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### Abstract

In the study, 12 species of the family Staphylinidae are reported from different parts of Anatolia, Türkiye. Amongst them, *Acidota cruentata* Mannerheim, 1830 from Eastern Anatolia and Aegean Regions, *Omalius rugatum* Mulsant & Rey, 1880, *Proteinus ovalis* Stephens, 1834, *Tachinus corticinus* Gravenhorst, 1802, *Bledius cribricollis* Heer, 1839 and *Platystethus capito* Heer, 1839 from Eastern Anatolia Region and *Bledius furcatus* (Olivier, 1811) from Black Sea Region are recorded for the first time.

**Keywords:** Coleoptera, Staphylinidae, new record, biodiversity, fauna

### Introduction

The family Staphylinidae is the group with the highest number of species within the order Coleoptera, with more than 63,000 species belonging to 33 subfamilies in the world. In Türkiye, more than 2.000 staphylinid species is known. Although there are many species are known from Türkiye, the Staphylinidae fauna has not been revealed yet.

Staphylinidae species can be found almost everywhere. Although they are not an aquatic group, they live mostly dependent on water. They can generally be found in abundance near water edges, in grassy areas, and in humus soils in forests. Some species live in mammal, ant and termite nests.

The paper is based on a result of field studies in the Aegean, Black Sea, Central and Eastern Anatolia Regions of Türkiye. During these field trips to these regions, many new records for the regions and provinces in Türkiye were discovered.

### Material and Methods

The present paper is based on material collected during recent field studies in the the Aegean, Black Sea, Central and Eastern Anatolia Regions of Türkiye conducted by S. Anlaş, S. Örgel, S. Yaman, A. Gök, İ. Can and the author. The specimens were collected using aspirator and sifter methods.

The material was examined under a Stemi 508 microscope (ZeissGermany). The species are kept in Alaşehir Zoological Museum (AZMM).

### Results

**Family Staphylinidae Latreille, 1802**

**Subfamily Omaliinae MacLeay, 1825**

***Acidota cruentata* Mannerheim, 1830**

**Material examined: Tunceli:** 3 exs., 1♀, 10.IV.2024, Pertek, 38°57'08"N, 39°24'42"E, 1665 m, leg. Anlaş, Örgel & Gök.

**Denizli:** 2 exs., 06.V.2015, Çivril, Işıklı, leg. Özgen.

**Distribution in Türkiye:** Antalya and Kastamonu (Assing, 2011e, 2013).

**Remarks:** This species is recorded for the first time from Eastern Anatolia and Aegean Regions of Türkiye.

**Corresponding Author:**

**Inanç Özgen**

Fırat University, Engineering

Faculty, Bioengineering

Department, Elazığ, Türkiye

***Omalius rugatum* Mulsant & Rey, 1880**

**Material examined:** Malatya: 1 ex., 08.IV.2024, Merkez, Kömür Yaylası, 38°09'41"N, 38°08'14"E, 1930 m, leg. Anlaş, Örgel & Gök.

**Tunceli:** 2 exs., 08.V.2018, Tunceli, Karşılar village, Geyiksuyu, leg. Özgen.

**Distribution in Türkiye:** Afyonkarahisar, Adana, Amasya, Antalya, Artvin, Isparta, Kastamonu, Manisa, Mersin, Osmaniye, Sivas (Anlaş, 2009; Assing, 2013; Shavrin & Khachikov, 2023)<sup>[1, 7, 14]</sup>.

**Remarks:** This species is recorded for the first time from Eastern Anatolia Region of Türkiye.

**Subfamily Proteininae Erichson, 1839*****Proteinus ovalis* Stephens, 1834**

**Material examined:** Malatya: 2 exs., 06.IV.2024, Darende, 38°14'02"N, 37°38'50"E, 1790 m, leg. Anlaş, Örgel & Gök.

**Distribution in Türkiye:** Adana, Adıyaman, Afyonkarahisar, Amasya, Antalya, Gaziantep, Hatay, Isparta, Izmir, Kahramanmaraş, Karaman, Konya, Manisa, Osmaniye, Samsun, Zonguldak (Anlaş & Tezcan, 2008; Assing, 2010c, 2013, 2014b)<sup>[2, 7]</sup>.

**Remarks:** This species is recorded for the first time from Eastern Anatolia Region of Türkiye

**Subfamily Tachyporinae MacLeay, 1825*****Lordithon trinotatus* (Erichson, 1839)**

**Material examined:** Elazığ: 1 ex., 15.X.2016, Elazığ, Sivrice, near the populus, leg. Özgen.

**Distribution in Türkiye:** Ankara, Antalya, Aydın, Bolu, Isparta, Izmir, Kastamonu, Manisa, Muğla, Uşak, Zonguldak (Tezcan *et al.*, 2019)<sup>[15]</sup>.

**Remarks:** The record from Elazığ province is reported for the first time.

***Tachinus corticinus* Gravenhorst, 1802**

**Material examined:** TURKEY: Elazığ: 1 ex., 07.V.2021, Haroğlu mountain, bottom *Salix* leaf, leg. Özgen.

**Konya:** 1 ex, 20.V.2016, Konya, Beyşehir, Erenler Mountain, 37°34'12" N, 32°02'53" E, 1768 m, leg. Orgel & Yaman.

**Distribution in Türkiye:** Afyonkarahisar, Antalya, Bolu, Bursa, Gaziantep, Isparta, Izmir, Kocaeli, Konya (Özgen & Anlaş, 2011; Assing, 2013)<sup>[11, 7]</sup>.

**Remarks:** This species is recorded for the first time from Eastern Anatolia Region of Türkiye.

**Subfamily Aleocharinae Fleming, 1821*****Aleochara laevigata* Gyllenhal, 1810**

**Material examined:** Denizli: 1 ex., 06.V.2015, 3 exs., Denizli, Çivril, leg. Özgen.

**Manisa:** 2 exs., 30.XI.2014, Spil Mountain, 38°33'44" N, 27°23'10" E, 1100 m, leg. Örgel.

**Distribution in Türkiye:** Balıkesir, Bitlis, Çankırı, Erzurum, Isparta, Istanbul, Izmir, Kastamonu, Kırşehir, Nevşehir, Sivas, Şanlıurfa, Van. (Japoshvili & Anlaş, 2011; Sert *et al.*, 2015; Varlı *et al.*, 2018)<sup>[9, 12, 16]</sup>.

**Remarks:** The records from Denizli and Manisa provinces are reported for the first time.

***Nehemitropia lividipennis* (Mannerheim, 1830)**

**Material examined:** Elazığ: 1 ex., 13.V.2016, Elazığ, Işıkyolu village, leg. Özgen.

**Manisa:** 4 exs., 30.XI.2014, Spil Mountain, 38°33'44" N, 27°23'10" E, 1100 m, leg. Örgel.

**Distribution in Türkiye:** Adana, Ankara, Çankırı, Erzurum, Eskişehir, Gümüşhane, Istanbul, Izmir, Kırşehir, Manisa, Mersin, Nevşehir, Niğde, Tunceli (Sert *et al.*, 2021)<sup>[13]</sup>.

**Remarks:** This species is recorded for the first time from Elazığ province.

**Subfamily Oxytelinae Fleming, 1821*****Bledius cribricollis* Heer, 1839**

**Material examined:** 2 exs.,

**Elazığ:** 07.V. 2021, Haroğlu mountain, bottom *Salix* leaf, leg. Özgen.

**Erzurum:** 1 ex., 05.V.2024, Palandöken, Dereboğazı 5 km W, 39°48'31"N, 40°58'15"E, 1970 m, leg. Anlaş, Can & Gök.

**Distribution in Türkiye:** Amasya, Balıkesir, Giresun, Ordu (Kacar *et al.*, 2022)<sup>[10]</sup>.

**Remarks:** This species is reported for the first time from Eastern Anatolia Region of Türkiye.

***Bledius furcatus* (Olivier, 1811)**

**Material examined:** Giresun: 2 exs., 29.V.2024, Bulancak, Aydındere 8 km SE, 40°35'50"N, 38°07'01"E, 1745 m, leg. Örgel, Can & Gök.

**Distribution in Türkiye:** Ankara, Aydın, Afyonkarahisar, Balıkesir, Diyarbakır, Izmir, Konya, Manisa (Kacar *et al.*, 2022)<sup>[10]</sup>.

**Remarks:** This species is recorded for the first time from Black Sea Region of Türkiye

***Platystethus capito* Heer, 1839**

**Material examined:** Tunceli: 2 exs., 10.IV.2024, Pertek, 38°57'08"N, 39°24'42"E, 1665 m, leg. Anlaş, Örgel & Gök.

**Distribution in Türkiye:** Amasya, Ankara, Antalya, Çankırı, Istanbul, Kastamonu, Samsun (Anlaş, 2009; Anlaş & Rose, 2009)<sup>[1, 3]</sup>.

**Remarks:** This species is recorded for the first time from Eastern Anatolia Region of Türkiye

**Subfamily Steninae MacLeay, 1825*****Stenus asiaticus* Bernhauer, 1940**

**Material examined: Elazığ:** 3 exs., 07.V. 2021, Haroğlu Mountain, bottom *Salix* leaf, leg. Özgen. 3 exs., 17.X.2016, Sütlüce village, decayed melon, leg. Özgen.

**Tunceli:** 2 exs., 08.V.2018, environs Munzur river, leg. Özgen.

**Distribution in Türkiye:** Adana, Ankara, Antalya, Aydın, Bursa, Düzce, Eskişehir, Giresun, Gümüşhane, Hatay, İstanbul İzmir, Kilis, Manisa, Mersin, Ordu, Rize, Sakarya, Sivas, Trabzon, Tunceli, Zonguldak (Anlaş & Puthz, 2019)<sup>[4]</sup>.

**Remarks:** This species is recorded for the first time from Elazığ province.

#### ***Stenus doderoi* Bondroit, 1912**

**Material examined: Malatya:** 2 exs., 07.IV.2024, Doğanşehir, Örencik 1 km W, 37°56'10"N, 37°41'54"E, 975 m, leg. Anlaş, Örgel & Gök.

**Distribution in Türkiye:** Amasya, Artvin, Bursa, Denizli, Ankara, Düzce, Eskişehir, Giresun, Gümüşhane, İstanbul, Kastamonu, Kırklareli, Konya, Mersin, Ordu, Rize, Samsun, Sinop, Sivas, Şanlıurfa, Trabzon, Tunceli (Anlaş & Puthz, 2019)<sup>[4]</sup>.

**Remarks:** This species is recorded for the first time from Malatya province.

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#### **Conclusion**

The study of the Staphylinidae family in Türkiye has revealed numerous new regional records, significantly enriching our understanding of this highly diverse group of beetles. With more than 63,000 species globally, Staphylinidae are prevalent across various habitats, often near water sources. Field studies in the Aegean, Black Sea, Central, and Eastern Anatolia Regions have highlighted the extensive, yet underexplored, Staphylinidae fauna in Türkiye. These findings underscore the importance of continued research and documentation to fully comprehend the biodiversity and distribution of Staphylinidae species within the country, contributing valuable data to the global entomological community.

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