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İnanç ÖzgenDepartment of Bioengineering,
Firat University, Elazığ, Turkey**Semih Örgel**Manisa Celal Bayar University,
Demirei Vocational School,
Manisa, Turkey

Some additional notes on the family Staphylinidae (Insecta: Coleoptera) in Turkey

İnanç Özgen and Semih Örgel

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Abstract

In the study, 13 species of the subfamilies Paederinae Fleming and Staphylininae Latreille belonging to the family Staphylinidae recorded from Elazığ, Tunceli, Diyarbakır, Mardin and Gümüşhane provinces in Turkey. Of the recorded species; *Rugilus rufipes* Germar, 1836; *Bisnius fimetarius* (Gravenhorst, 1802); *Gabrius astutooides* A. Strand, 1946 and *Ocypus mus* (Brullé, 1832) from eastern Anatolian region of Turkey; *Philonthus cruentatus* (Gmelin, 1790) from southeastern Anatolian region of Turkey and *Ontholestus murinus* (Linnaeus, 1758) from Black Sea region of Turkey were first record for the area. In addition, some species is newly reported to the study provinces.

Keywords: Coleoptera, staphylinidae, new records, fauna, distribution, eastern Anatolia, Turkey

Introduction

According to recent contributions, the family Staphylinidae Latreille, 1802 is represented by more than 63.500 species in 33 subfamilies in the world (Newton, 2007; Bethz et al., 2018) ^[21, 12]. The fauna of Staphylinidae of Turkey currently contains more than 1900 valid species (Anlaş, 2009; Schülke & Smetana, 2015) ^[20, 30].

The present paper provided list of new faunistic records for 12 species of the subfamilies Paederinae Fleming, 1821 and Staphylininae Latreille, 1802 from Turkey, mainly from its eastern and southeastern part.

Material and Methods

This study is based on previously collected material by using pitfall and under stones in Elazığ, Tunceli, Diyarbakır, Mardin and Gümüşhane provinces of Eastern Anatolia, Turkey. The material referred to in this study is stored in the following collections: AZMM – Alaşehir Zoological Museum, Manisa, Turkey (S. Anlaş); first author's private collection (cOzg). Classification and nomenclature of the family Staphylinidae suggested by Schülke & Smetana (2015) ^[30] is followed in this study.

Results

Family Staphylinidae Latreille, 1802

Subfamily Paederinae Fleming, 1821

***Astenus melanurus* (Küster, 1853)**

Material examined: Diyarbakır: 1♂, 13.IV.2010, Eğil road 5 km E, 780 m, 38°08'34''N, 40°03'27''E, leg. Özgen & Yağmur (AZMM).

Distribution in Turkey: Adana, Afyonkarahisar, Ankara, Antalya, Aydın, Batman, Denizli, Eskişehir, Gaziantep, Hatay, İzmir, Karaman, Kayseri, Kırşehir, Konya, Kütahya, Malatya, Manisa, Mersin, Muğla, Niğde, Siirt and Zonguldak (Anlaş & Çevik, 2008; Anlaş, 2009, 2017a, 2020; Anlaş & Rose, 2009b; Özgen *et al.*, 2010) ^[7, 20, 4, 11, 25, 10]. This species is recorded for the first time from Diyarbakır province.

Distribution in the world: *A. melanurus* occurs in southern Europe, North Africa, Cyprus, Iran, Syria, Turkey in Palearctic Region, also in Oriental and Afrotropical Region (Schulke & Smetana, 2015; Anlaş, 2017a) ^[30, 4].

Corresponding Author:**İnanç Özgen**Department of Bioengineering,
Firat University, Elazığ, Turkey

***Leptobium gracile* (Gravenhorst, 1802)**

Material examined: Mardin: 1♂, 3♀, 23.VI.2010, central province, Sürgücü, leg. Özgen (cÖzg).

Distribution in Turkey: This species is widespread in Turkey (Assing, 2015; Anlaş, 2009, 2017b, Sert *et al.*, 2013; Örgel & Anlaş, 2016; Özgen, 2019) ^[10, 22, 5, 29] but it has not been recorded from Mardin province up to this study.

Distribution in the world: *L. gracile* is distributed from Spain to Middle Asia (Assing, 2005; Schülke & Smetana, 2015) ^[13, 30].

***Achenium humile* (Nicolai, 1822)**

Material examined: Elazığ: 1♂, 21.VII.2012, Keban Barajı, 38°48'10"N, 38°43'52"E, 696 m, leg. Özgen (cÖzg).

Distribution in Turkey: Ankara, Erzincan, Eskişehir, Gümüşhane, Isparta, Kars, Kastamonu, Muş, Niğde, Tunceli, Van (Assing, 2010; Ayan & Anlaş, 2020) ^[13, 25]. This species is here reported for the first time from Elazığ province.

Distribution in the world: *A. humile* is known from Europe, Middle Asia and Turkey Assing, 2010; Schülke & Smetana, 2015) ^[12, 30].

***Medon fuscus* (Mannerheim, 1830)**

Material examined: Tunceli: 2♂♂, 2♀♀, 14.IV.2018, Hozat, Sarısaltuk, leg. Özgen (AZMM).

Distribution in Turkey: This species is widespread in Turkey, except in northeastern Anatolia (Anlaş, 2015; Örgel *et al.*, 2021) ^[3, 24].

Distribution in the world: Middle East, Turkey, the Balkans, the Black Sea region, Central Europe (Schülke and Smetana, 2015; Örgel *et al.*, 2021) ^[30, 24].

***Paederidus rubrothoracicus* (Goeze, 1777)**

Material examined: Elazığ: 2♂♂, 23.IV.2017, Sivrice, Hazarbaba, Aşağıyaka village, leg. Özgen (cÖzg).

Distribution in Turkey: Afyonkarahisar, Ankara, Antalya, Artvin, Aydın, Bolu, Denizli, Erzurum, Eskişehir, İzmir, Konya, Manisa, Muğla, Sivas, Trabzon, Tunceli, Uşak, Van (Anlaş, 2009, 2018, Sert *et al.*, 2013) ^[10, 29]. This species is recorded for the first time from Elazığ province.

Distribution in the world: The known distribution of *P. rubrothoracicus* confined to Europe, Cyprus and Turkey (Schülke & Smetana, 2015) ^[30].

***Paederus fuscipes* Curtis, 1826**

Material examined: Diyarbakır: 1♂, 1♀, 25.V.2010, near Çüngüş, Çayiçi, 1750 m, 38°16'11"N, 39°19'32"E, leg. Özgen (cÖzg).

Mardin: 1♂, 2♀♀, 31.V.2010, Mardin, Mazıdağı, Gürgöze, 950 m, 37°29'08"N, 40°31'38"E, leg. Özgen (cÖzg).

Distribution in Turkey: This species is widespread in Turkey (Anlaş, 2009, 2018, Sert *et al.*, 2013; Örgel & Tezcan, 2020) ^[10, 29]. ²³ but it has not been recorded from Mardin province up to this study.

Distribution in the world: According to Schülke & Smetana (2015) ^[30], *P. fuscipes* is known from all zoogeographical regions except for the Nearctic and Neotropical Region

***Rugilus rufipes* Germar, 1836**

Material examined: Elazığ: 1♂, 1♀, 12.04.2018, Karakoçan, leg. Özgen (cÖzg).

Distribution in Turkey: Adana, Balıkesir, Bolu, Eskişehir, İstanbul, Kırklareli, Kocaeli, Manisa, Sakarya (Rougemont, 1988; Anlaş, 2009, 2017c, Sert *et al.*, 2013) ^[20, 29]. This species is recorded for the first time from Eastern Anatolian region of Turkey.

Distribution in the world: *R. rufipes* distributed in Europe, western Siberia, Iran, Syria, Turkey in Palearctic Region, and also Nearctic Region (Schulke & Smetana, 2015) ^[30]

Subfamily Staphylininae Latreille, 1802***Bisnius fimetarius* (Gravenhorst, 1802)**

Material examined: Elazığ: 1♂, 21.III.2018, Baskil, Kayabeyli, leg. Özgen (cÖzg).

Distribution in Turkey: Bolu, Düzce, Ordu, Sakarya, Siirt (Özgen *et al.*, 2010; Assing, 2013) ^[25]. This species is reported for the first time from Eastern Anatolian region of Turkey.

Distribution in the world: This species is known from Europe, North Africa, Siberia, Cyprus, Turkey, Northern India in Palearctic Region, and also Nearctic Region (Schulke & Smetana, 2015) ^[30].

***Gabrius astutoides* A. Strand, 1946**

Material examined: Elazığ: 1♂, 12.VI.2010, Gümüşkavak 970 m, 38°38'24"N, 39°15'25"E leg. Özgen (cÖzg).

Distribution in Turkey: Antalya, Çankırı, Eskişehir, Muğla (Anlaş 2007, 2009; Anlaş & Rose, 2009a; Çiftçi & Hasbenli, 2016; Fırat & Sert, 2016) ^[10, 20, 18]. This species is reported for the first time from Eastern Anatolian region of Turkey.

Distribution in the world: The species is known from Europe and Turkey in Palearctic Region, and also Nearctic Region (Schulke & Smetana, 2015) ^[30].

***Philonthus cruentatus* (Gmelin, 1790)**

Material examined: Diyarbakır: 1♂, 1♀, 01.III.2018, Çermik, leg. Özgen (cÖzg). **Gümüşhane:** 4♂♂, 1♀, 15.V.2011, Gümüşhane 15 km N, Cehennem Valley, Manastır road, leg. Anlaş & Özgen (AZMM).

Distribution in Turkey: Antalya, Balıkesir, Denizli, Eskişehir, Gümüşhane, İstanbul, Konya, Manisa, Nevşehir (Anlaş, 2009; Anlaş & Rose, 2009a; Çiftçi & Hasbenli, 2016; Fırat & Sert, 2016) ^[10, 20, 18, 17]. This species is recorded for the first time from southeastern Anatolian region of Turkey.

Distribution in the world: The species is known from Palearctic and Nearctic Regions (Schulke & Smetana, 2015) ^[30].

***Ocypus mus* (Brullé 1832)**

Material examined: Elazığ: 2♂♂, 2♀♀, 20.V.2011, Keban 7

km SE, Ulupınar, Birvan creek, 1160 m, 38°44'34''N, 38°51'03''E, leg. Anlaş, Özgen & Khachikov (AZMM).

Distribution in Turkey: Adana, Aksaray, Ankara, Balıkesir, Bursa, Denizli, Diyarbakır, Eskişehir, Gaziantep, Isparta, Hatay, İzmir, Kahramanmaraş, Kırklareli, Konya, Kütahya, Manisa, Mardin, Mersin, Muğla, Sivas, Şanlıurfa, Trabzon (Anlaş, 2009; Anlaş & Rose, 2009a; Japoshvili & Anlaş, 2011; Çiftçi & Hasbenli, 2016; Fırat & Sert, 2016; Örgel & Tezcan, 2020) [10, 20, 18, 23, 19, 17]. This species is reported for the first time from Eastern Anatolian region of Turkey.

Distribution in the world: This species is known Europe, Central Asia, Middle East, Iran and Turkey (Schülke & Smetana, 2015) [30].

Ontholestus murinus (Linnaeus, 1758)

Material examined: Gümüşhane: 1♂, 2♀♀, 15.V.2011, Gümüşhane, Karacasu cave environs, a small creek banks, leg. Anlaş, Özgen & Khachikov (AZMM).

Distribution in Turkey: Aksaray, Ankara, Bingöl, Erzurum, Eskişehir, Gaziantep, Isparta, İzmir, Kayseri, Kırıkkale, Konya, Kütahya, Manisa, Nevşehir (Anlaş, 2009; Anlaş & Rose, 2009a; Kesdek et al. 2009; Japoshvili & Anlaş, 2011; Sert et al., 2013; Çiftçi & Hasbenli, 2016; Fırat & Sert, 2016) [20, 10, 18, 29, 19, 17]. This species is reported for the first time from Black Sea region of Turkey.

Distribution in the world: The species is known from Palearctic and Nearctic Regions (Schülke & Smetana, 2015) [30].

Staphylinus caesareus Cederhjelms, 1798

Material examined: Diyarbakır: 1♀, 07.V.2011, Silvan road, Silvan 20 km SW, Köprübaşı, leg. Özgen (cÖzg); 1♂, 22.V.2010, Dicle river bank, environs of Dicle University, leg. Özgen (cÖzg).

Distribution in Turkey: Adıyaman, Ankara, Antalya, Ardahan, Artvin, Bayburt, Bolu, Denizli, Elazığ, Erzincan, Erzurum, Eskişehir, Giresun, Isparta, İzmir, Kastamonu, Kars, Kayseri, Kırıkkale, Kilis, Konya, Malatya, Mersin, Niğde, Trabzon, Tunceli, (Anlaş, 2009; Anlaş & Rose, 2009a; Kesdek et al. 2009; Japoshvili & Anlaş, 2011; Sert et al., 2013; Çiftçi & Hasbenli, 2016; Fırat & Sert, 2016; Özgen, 2017, 2019) [20, 10, 29, 18, 19, 17]. This species is reported for the first time from Diyarbakır province.

Distribution in the world: This species is known Europe, Algeria in North Africa, Middle East, Iran and Turkey (Schülke & Smetana, 2015) [30].

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