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New locality records on Falagriini, Lomechusini and Oxypodini (Staphylinidae: Aleocharinae) fauna of Türkiye

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Abstract

This study was conducted on the fauna of the subfamily Aleocharinae Fleming 1821 (Coleoptera: Staphylinidae) in Türkiye. The field trips were made in Aydın, Denizli, Gaziantep, Kars, Konya, Kütahya and Uşak Provinces of Türkiye between 2013-2017. Forty specimens collected by hand and pitfall traps were examined. Totally, eleven species were recorded belonging to Oxypodini, Lomechusini and Falagriini tribes. Among them, *Oxypoda bimaculata* Baudi di Selve, 1870 from Konya Province, *Drusilla canaliculata* (Fabricius, 1787) from Kütahya Province, *Myrmoecia libanensis* (Pic, 1901) from Gaziantep Province, *M. plicata* (Erichson, 1837) from Denizli Province, *Pella ruficollis* (Grimm, 1845) from Uşak Province, *Cordalia fortepunctata* Assing, 2006 from Konya Province, *Falagria caesa* Erichson, 1837 from the Eastern Anatolia Region, *F. sulcatula* (Gravenhorst, 1806) from the Aegean Region, *Myrmecopora convexula* Assing, 1997 from Aydın Province are recorded for the first time.

Keywords: Aleocharinae, fauna, oxypodini, lomechusini, falagriini, Türkiye

Introduction

According to Newton (2022) ^[1], the subfamily Aleocharinae Fleming 1821 comprises about 17.000 species and subspecies in the world, placed in 62 tribes. Falagriini Mulsant & Rey, 1873, Lomechusini Fleming, 1821 and Oxypodini Thomson, 1859 tribes, which include the species recorded in present paper, respectively contain 479, 2.526 and 1.882 species and subspecies. In Türkiye, the Aleocharinae subfamily contains over 620 species (Anlaş, 2009; updated; Örgel, 2022) ^[2, 3].

Genera belonging to the tribe Falagriini can be occurs in wet biotopes, along riverbank, decaying organic debris in various habitats, animal carcasses, under animal dung, fungi, debris on a beach, nests or nest lining of various rodents. Lomechusini species especially associated with ants. Oxypodini species are morphologically quite heterogeneous and difficult to characterize uniformly. Also, habitat preferences are very diverse. The Oxypodini species can be found in riparian habitats, forest leaf litter, dung, carrion, rotting mushrooms, rotting tree trunks with ants, bird nests, decaying organic matter, agriculture farms and coastal barrens.

This paper was prepared in order to give new locality records on Aleocharinae fauna of Türkiye.

Materials and Methods

Specimens were collected by hand and pitfall traps from Aydın, Denizli, Gaziantep, Kars, Konya, Kütahya and Uşak Provinces of Türkiye between the years of 2013-2017. The material referred to in this study is stored in the Alaşehir Zoological Museum, Manisa, Turkey (AZMM). Classification and nomenclature were made according to Newton (2022) ^[1] and Schülke & Smetana (2015) ^[4].

Results

Family Staphylinidae Latreille, 1802
Subfamily Aleocharinae Fleming, 1821
Tribe Falagriini Mulsant & Rey, 1873
Anaulacaspis nigra (Gravenhorst, 1802)

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Material examined: Konya: 6 exs., 25.X.2017, Beyşehir, 13 km W Akçabelen, 1615 m, 37°29'51"N, 31°20'45"E, leg. Anlaş, Örgel, Köksal.

Distribution in Türkiye: Amasya, Antalya, Artvin, Bolu, Çankırı, Denizli, Eskişehir, Gümüşhane, İstanbul, Karaman, Kastamonu, Kırşehir, Konya, Muğla, Nevşehir, Niğde, Sinop, Sivas (Anlaş, 2009; Assing 2016; Örgel & Yağmur, 2021; Sert *et al.*, 2015, 2021) [2, 5, 6, 7, 8].

Distribution in the world: *Anaulacaspis nigra* is known from Europe, East and West Siberia, Türkiye, Uzbekistan (Schülke & Smetana, 2015) [4].

***Cordalia fortepunctata* Assing, 2006**

Material examined: Konya: 3 exs., 21.V.2016, Seydişehir, 4 km SW Taraşçı, 2006 m, 37°25'36"N, 31°43'00"E, leg. Örgel & Yaman.

Distribution in Türkiye: Adıyaman, Ankara, Kahramanmaraş, Kayseri, Malatya, Mersin, Ordu (Assing 2006, 2007; Sert *et al.*, 2015, 2021) [9, 10, 7, 8]. This species is recorded for the first time from Konya Province.

Distribution in the world: The known distribution of *C. fortepunctata* confined to İran and Türkiye (Schülke & Smetana, 2015) [4].

***Falagria caesa* Erichson, 1837**

Material examined: Kars: 2 exs., 06.V.2017, Sarıkamış, Kızılcıbuk, 2200 m, 40°22'43"N, 42°33'50"E, leg. Altın.

Distribution in Türkiye: Amasya, Ankara, Gaziantep, Kırşehir, Konya, Nevşehir, Ordu (Anlaş, 2009; Örgel & Yağmur, 2021; Sert *et al.*, 2014, 2015, 2021) [2, 6, 11, 7, 8]. This species is reported for the first time from Eastern Anatolian Region of Türkiye.

Distribution in the world: This species is widely distributed in Europe and Asia and known from Algeria, Egypt, Morocco and Tunisia. It has also been recorded from the Nearctic and Oriental Regions (Schülke & Smetana, 2015) [4].

***Falagria sulcatula* (Gravenhorst, 1806)**

Material examined: Denizli: 3 exs., 12.VI.2013, Acıpayam, 7 km SE Mevlütler, 1486 m, 37°25'07"N, 29°13'32"E, leg. Yağmur & Örgel.

Distribution in Türkiye: Adıyaman, Aksaray, Ankara, Çankırı, Eskişehir, Gümüşhane, İstanbul, Kayseri, Kırşehir, Konya, Niğde, Sivas (Anlaş, 2009; Örgel & Yağmur, 2021; Sert *et al.*, 2014, 2015, 2021) [2, 6, 11, 7]. This species is reported for the first time from Aegean Region of Türkiye.

Distribution in the world: *Falagria sulcatula* is widely distributed in Europe and known from Afghanistan, China, East and West Siberia and Türkiye (Schülke & Smetana, 2015) [4].

***Myrmecopora convexula* Assing, 1997**

Material examined: Aydın: 2 exs., 05.IV.2015, Kuşadası, National Park, 866 m, 37°39'54"N, 27°13'04"E, leg. Yağmur & Örgel.

Distribution in Türkiye: İzmir, Manisa (Anlaş, 2009) [2]. This species is recorded for the first time from Aydın Province.

Distribution in the world: According to Schülke and Smetana (2015) [4], The known distribution of *M. convexula* is confined to Bulgaria, Greece and Türkiye.

Tribe Lomechusini Fleming, 1821

***Drusilla canaliculata* (Fabricius, 1787)**

Material examined: Konya: 5 exs., 20.V.2016, Seydişehir, 5 km SE Mesudiye, 1785 m, 37°34'29"N, 32°02'56"E, leg. Örgel & Yaman.

Kütahya: 3 exs., 17.V.2013, Beşdeğirmen, 961 m, 39°31'18"N, 30°53'28"E, leg. Yağmur & Örgel.

Distribution in Türkiye: Aksaray, Amasya, Ankara, Antalya, Ardahan, Artvin, Balıkesir, Bitlis, Bolu, Bursa, Çankırı, Erzincan, Erzurum, Eskişehir, Gümüşhane, Isparta, İstanbul, Kahramanmaraş, Karabük, Kars, Kastamonu, Kayseri, Kırıkkale, Kırşehir, Konya, Nevşehir, Niğde, Osmaniye, Sinop, Sivas, Yozgat (Anlaş, 2009; Assing 2009, 2010, 2015; Japoshvili & Anlaş, 2011; Örgel, 2020; Örgel & Yağmur, 2021; Sert *et al.*, 2014, 2015, 2021; Varlı *et al.*, 2018) [2, 12, 13, 14, 15, 16, 6, 11, 7, 8, 17]. This species is recorded for the first time from Kütahya Province.

Distribution in the world: *Drusilla canaliculata* is widely distributed in Europe and Asia and known from Nearctic Region (Schülke & Smetana, 2015) [4].

***Myrmoecia libanensis* (Pic, 1901)**

Material examined: Gaziantep: 3 exs., 08.IV-23.VIII.2017, İslahiye, Kabaklar, 860 m, 37°01'57"N, 36°33'46"E, pitfall trap, leg. Yağmur.

Distribution in Türkiye: Kahramanmaraş (Assing, 2006) [9]. This species is recorded for the first time from Gaziantep Province.

Distribution in the world: The known distribution of *M. libanensis* is confined to Israel, Lebanon and Türkiye (Schülke & Smetana, 2015) [4].

***Myrmoecia plicata* (Erichson, 1837)**

Material examined: Denizli: 4 exs., 11.IV.2015, Tavas, 2 km W Yahşiler, 1135 m, 37°38'44"N, 28°53'56"E, leg. Örgel & Altın.

Distribution in Türkiye: Adana, Adıyaman, Kastamonu, Manisa, Muğla (Assing, 2006, 2007, 2009, 2013) [9, 10, 12, 18]. This species is recorded for the first time from Denizli Province.

Distribution in the world: *Myrmoecia plicata* is widely distributed in Europe and known from Türkiye and Uzbekistan (Schülke & Smetana, 2015) [4].

***Pella discolor* Assing, 2008**

Material examined: Konya: 5 exs., 21.V.2016, Derebucağ, 4 km NE Uğurlu, 2006 m, 37°25'36"N, 31°43'00"E, leg. Örgel & Yaman.

Distribution in Türkiye: Ankara, Denizli, Kahramanmaraş,

Konya, Yozgat (Assing, 2008, 2019; Sert *et al.*, 2015) ^[19, 20, 7].

Distribution in the world: This species is endemic to Türkiye (Schülke & Smetana, 2015) ^[4].

Pella ruficollis (Grimm, 1845)

Material examined: Uşak: 2 exs., 27.III.2015, Banaz, Kavacık, 1309 m, 38°36'31"N, 29°51'11"E, leg. Yağmur & Örgel.

Distribution in Türkiye: Isparta, İzmir (Anlaş, 2009) ^[2]. This species is recorded for the first time from Uşak Province.

Distribution in the world: Austria, Bulgaria, Croatia, France, Greece, Hungary, Italy, Macedonia, Romania, Slovakia and Türkiye (Schülke & Smetana, 2015) ^[4].

Tribe Oxypodini Thomson, 1859

Oxypoda bimaculata Baudi di Selve, 1870

Material examined: Konya: 2 exs., 14.IV.2016, Beyşehir, 14 km W Akçabelen, 1760 m, 37°28'24"N, 31°19'46"E, leg. Örgel & Yaman.

Distribution in Türkiye: Adana, Ankara, Isparta, Kahramanmaraş, Kastamonu, Sinop (Anlaş, 2009; Assing 2004, 2006, 2007a, 2011) ^[2, 21, 9, 22, 23]. This species is recorded for the first time from Konya Province.

Distribution in the world: Azerbaijan, Bulgaria, Greece, Cyprus, Israel and Türkiye (Schülke & Smetana, 2015) ^[4].

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