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## Contributions to the knowledge fauna of staphylininae (Coleoptera: Staphylinidae) in Turkey

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### Abstract

Twelve (12) species of the subfamily Staphylininae are recorded from Anatolia, Turkey. Among them, many first region records had been reported from Turkey: *Business sordidus* (Gravenhorst) in Marmara Region; *Erichsonius subopacus* (Hochhuth) from eastern Anatolia *Erichsonius dux* Smetana from southeastern Anatolia; *Rabigus pullus* (Nordmann) from western and eastern Anatolia and *Tasgius falcifer* (Nordmann) from eastern Anatolia were recorded for the first time.

**Keywords:** Staphylinidae, staphylininae, fauna, regional new records, Turkey

### Introduction

The subfamily Staphylininae is a widespread and one of the biggest subfamilies of the family Staphylinidae, comprising more than 6.500 species in the world [1]. The Staphylininae fauna of Turkey very little studied. 346 species and subspecies of 39 genera belonging to the subfamily have been reported for Turkey [2, 3]. But the Staphylininae fauna of Turkey has received substantial attention in recent years. According to recent contributions, 376 species and subspecies of Staphylininae are known from Turkey now [4-16].

The aim of this work is to enhance scientific knowledge on the distribution of Turkish Staphylininae.

The samples were collected from the different location of Turkey. Nomenclature of the subfamily Staphylininae as suggested by Herman (2001) and Schülke and Smetana (2015) was followed in this study. The recorded species was listed alphabetically.

The reference specimens of this study were deposited in the collection of the Alaşehir Zoological Museum, Manisa (AZMM) of the Celal Bayar University and in the private collection of the author (cOzg).

### Results

#### *Business sordidus* (Gravenhorst, 1802)

**Material: Bursa:** 2 exs., 29.VII.2008, Uludağ, Kovukdere Lake (Saklıgöl), 2206 m, 40°05'12''N, 29°12'22''E, leg. Anlaş (AZMM).

**Distribution in the world:** Cosmopolitan [12].

**Distribution in Turkey:** Afyonkarahisar, Aksaray, Ankara, Hatay, Kırşehir, Konya, Manisa, Nevşehir, Yozgat [3, 4, 14].

#### *Erichsonius subopacus* (Hochhuth, 1851)

**Material: Muş:** 1 ex., 31. V. 2011, Varto, leg. Khachikov & Kasatkin (cOzg).

**Distribution in the world:** Europe, Cyprus and Turkey [12].

**Distribution in Turkey:** Ankara, Eskişehir, Mersin [3, 13].

#### *Erichsonius dux* (Smetana, 1967)

**Material: Diyarbakır:** 2 exs., 29.IX.2010, Diyarbakır, Çakmak, Çamaltı, leg. Özgen (cOzg).

**Distribution in the world:** Azerbaijan, Armenia, Turkey [12].

**Distribution in Turkey:** Adana [3].

#### *Gabronthus maritimus* (Motschulsky, 1858)

**Material: Izmir:** 4exs., 21.V.2006, Bozdağ, Subatan Yaylası, on mushrooms, leg. Anlaş (AZMM).

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**Şırnak:** 10 exs. 26.06.2015, leg. Ayaz.

**Distribution in Turkey:** Adana, Antalya, Aydın, Kayseri, Kilis, Manisa, [3, 4, 14]

**Distribution in the world:** Bulgaria, France, Italy, North Africa, Cyprus, Israel, Japan, Kuwait, Lebanon, Saudi Arabia, Syria, Turkey, Tianjin (China) [12].

***Neobisnius prolixus* (Erichson, 1840)**

**Material:** İzmir: 21.V.2006, Bozdağ, Subatan Yaylası, on mushrooms, leg. Anlaş (AZMM).

**Kütahya:** 3 exs., 24.IV.2010, Simav 10 km NW, near Simav Gölü, 720 m, 39°10'32"N, 28°55'21"E, leg. Anlaş (AZMM).

**Manisa:** 08.IV.2007, Soma, Yağcılı, 256 m, 39°20'07"N, 27°40'34"E, leg. Anlaş (AZMM); 3 exs, 29.VII.2007, Selendi, Eskin, leg. Anlaş (AZMM).

**Muş:** 1 ex., 31.V.2011, Varto, leg. Khachikov & Kasatkin (cOzg).

**Uşak:** 2 exs., 29.V.2010, Eşme, Kısık 2 km NE, Gediz river bank, 470 m, 38°38'06"N, 28°57'19"E, leg. Anlaş (AZMM).

**Distribution in the world:** Europe, Cyprus, Afghanistan, Iran, Mongolia, Tajikistan, Uzbekistan [12].

**Distribution in Turkey:** Ankara, Aydın, Bayburt, Eskişehir, İzmir, Kırşehir, Konya, Malatya, Manisa, Sivas, Trabzon, Tunceli [3, 13, 14].

***Othius punctulatus* (Goeze, 1777)**

**Material:** Kastamonu: 3 exs., 06.IX.2010, Ilgaz Dağı, 1858 m, 41°04'41"N, 33°43'56"E, leg. Kunt (AZMM).

**Muş:** 1 ex., 30.V.2011, Buğlan, leg. Khachikov & Kasatkin (cOzg).

**Distribution in the world:** Europe, Algeria, Canary Islands, Morocco, Tunisia, Turkey and West Siberia [12].

**Distribution in Turkey:** Afyonkarahisar/Isparta, Artvin, Aydın, Bitlis, Bolu, Bursa, Çankırı, Düzce, İzmir, Gümüşhane, Karabük, Kastamonu, Manisa, Nevşehir, Ordu, Sinop, Sivas, Yozgat [3, 4, 6, 7, 14].

***Platyprosopus hierichonticus* (Reiche & Saulcy, 1856)**

**Material:** Diyarbakır: 2 exs., 13.IV.2008, Eğil, Kalkan 1 km SW, 38°08'37"N, 40°03'37"E, leg. Yağmur (AZMM).

**Distribution in the world:** Greece, Cyprus, Israel, Syria, Turkey [12].

**Distribution in Turkey:** Diyarbakır, Gaziantep, Hatay, İzmir, Manisa, Mersin [3, 4].

***Philonthus concinnus* (Gravenhorst, 1802)**

**Material:** Balıkesir: 1 ex., 13.IV.2014, Balıkesir, Sındırgı, Ulus Dağı, Kıranköy, leg. Özgen & Örgel (AZMM).

**Denizli:** 2 exs., 12.VI.2013, Acıpayam, Alaattin, Bozdağ, 37°24'55"N, 29°13'11"E, 1470 m, leg. Yağmur & Örgel (AZMM); 1 ex., 11.IV.2015, Kale 5 km E, 37°25'37"N, 28°53'30"E, 1335 m, leg. Anlaş, Yağmur & Örgel (AZMM).

**İzmir:** 3 exs., 06.IV.2015, Bergama, Kozak, Güneşli, 39°21'54"N, 27°06'30"E, 950 m, leg. Anlaş & Örgel (AZMM).

**Kütahya:** 2 exs., 23.VI.2013, Simav, Kabaarmut, 39°10'24"N, 29°01'02"E, 1244 m, leg. Yağmur & Örgel (AZMM).

**Konya:** 1 ex., 20.V.2016, Seydişehir, Erenler Mts., 37°34'12"N, 32°01'56"E, 1763 m, leg. Örgel & Yaman (AZMM).

**Niğde:** 1 ex., 03.VI.2016, Çamardı, Demirkazık, 2259 m, leg. Örgel & Yaman (AZMM).

**Distribution in the world:** This species widespread in the Palearctic Region and also occur in Nearctic Region [12].

**Distribution in Turkey:** Afyonkarahisar, Adana, Aksaray, Ankara, Antalya, Ardahan, Balıkesir, Bingöl, Bolu, Bursa, Çankırı, Diyarbakır, Elazığ, Erzincan, Erzurum, Eskişehir, Gaziantep, Gümüşhane, Isparta, Iğdır, İzmir, Kayseri, Kırıkkale, Kırşehir, Konya, Malatya, Manisa, Mardin, Mersin, Muş, Nevşehir, Niğde, Siirt, Sivas, Tunceli, Uşak, Yozgat [3, 15, 17, 18].

***Rabigus ocaleoides* (J. Sahlberg, 1908)**

**Material:** İzmir: 3 exs., 21.V.2006, Bozdağ, Subatan Yaylası, on mushrooms, leg. Anlaş (AZMM).

**Distribution in the world:** Albania, Macedonia "Yugoslavia" and Turkey [12].

**Distribution in Turkey:** Amasya, Antalya, Elazığ, İzmir, Kahramanmaraş, Karaman, Konya, Manisa, Mersin [3, 14, 16, 21].

***Rabigus pullus* (Nordmann, 1837)**

**Material:** Afyonkarahisar: 2 exs., 11. VIII. 2010, Şuhut, Dadak 2 km N, 1320 m, 38°36'18"N, 30°26'59"E, leg. Anlaş (AZMM). **Muş:** 1 ex., 30.V.2011, Buğlan, leg. Khachikov & Kasatkin (cOzg).

**Distribution in the world:** Europe, Middle Asia, Turkey, China, East and West Siberia [12].

**Distribution in Turkey:** Eskişehir and Kayseri [13, 14].

***Staphylinus caesareus* (Cederhjelm, 1798)**

**Material:** Adıyaman: 1 ex., 20.IV.2008, Gerger, Koşarköy 2 km N, 38°02'25"N, 39°05'26"E, leg. Yağmur (AZMM).

**Kilis:** 2 exs., 16.09.2007, Central province, Ömeroğlu village 1 km N, 36°52'18"N 37°12'03"E, leg. Yağmur (AZMM).

**Distribution in the world:** Europe, Algeria, Cyprus, Turkey, Middle East [12].

**Distribution in Turkey:** This species widespread in Turkey [3, 4, 13, 14, 19, 20].

***Tasgius falcifer* (Nordmann, 1837)**

**Material:** Muş: 2 exs., 31. V. 2011, Varto, leg. Khachikov and Kasatkin (cOzg).

**Distribution in the world:** Austria, Bulgaria, France, Georgia, Hungary, Italy, Spain, South European territory of Russia, Ukraine and Turkey [12].

**Distribution in Turkey:** Afyonkarahisar, Amasya, Bolu, Istanbul, Trabzon-Gümüşhane (Zigana Geçidi) [3, 6].

**Discussion**

As the result of this study 12 species of the subfamily Staphylininae were recorded from Anatolia, Turkey. *T. falcifer* (Nordmann, 1837), *R. pullus* (Nordmann, 1837) *P. hierichonticus* Reiche and Saulcy, 1856, *G. maritimus* (Motschulsky, 1858), *E. subopacus* (Hochhuth, 1851) were recorded for the first time from eastern Anatolia. *E. dux* Smetana, 1967 was recorded for the first time from Southeastern Anatolia. In this study; *E. dux* was recorded for the second time in Turkey. This study is very important as a base to Staphylinidae family funistical studies which will be made in the future.

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