



Faunistic Contributions on the Subfamily Staphylininae (Coleoptera: Staphylinidae) in Türkiye

Semih ÖRGEL*

Manisa Celal Bayar University, Demirci Vocational School, Manisa, Türkiye

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*ID: <https://orcid.org/0000-0002-6362-3091>

*Corresponding author:

Semih ÖRGEL
Manisa Celal Bayar University, Demirci
Vocational School, Manisa, Türkiye
✉: orgelsemih@gmail.com

Abstract: The purpose of this study is to give additional records on the fauna of Staphylininae in Türkiye. Examined material was composed of specimens collected from different provinces of Türkiye between 2007-2018. In the study, 69 specimens collected using aspirators and sifter were examined. In conclusion of the material examining, twelve species of the subfamily Staphylininae were reported from different regions of Türkiye. Among them, *Atrecus affinis* (Paykull, 1789) from Central Anatolian Region, *Dinothenarus flavocephalus* (Goeze, 1777) and *Neobisnius orbis orbis* (Kiesenwetter, 1850) from Eastern Anatolian Region and *Philonthus atratus* (Gravenhorst, 1802) from Aegean Region are recorded for the first time. In addition, new locality records of the recorded species were presented.

Keywords: Anatolia, fauna, new records, staphylininae, Türkiye.

Türkiye'deki Staphylininae (Coleoptera: Staphylinidae) Altfamilyası Üzerine Faunistik Çalışmalar

*Sorumlu yazar:

Semih ÖRGEL
Manisa Celal Bayar Üniversitesi, Demirci
Meslek Yüksekokulu, Manisa, Türkiye
✉: orgelsemih@gmail.com

Öz: Bu çalışmanın amacı, Türkiye'deki Staphylininae faunası hakkında ek kayıtlar vermektir. İncelenen materyal 2007-2018 yılları arasında Türkiye'nin farklı illerinden toplanan örneklerden oluşmaktadır. Bu çalışmada, Aspiratör ve elek kullanılarak toplanan 69 örnek incelenmiştir. Materyalin incelenmesi sonucunda Türkiye'nin farklı bölgelerinden Staphylininae alt familyasına ait on iki tür rapor edilmiştir. Bunlardan *Atrecus affinis* (Paykull, 1789) İç Anadolu Bölgesi'nden, *Dinothenarus flavocephalus* (Goeze, 1777) ve *Neobisnius orbis orbis* (Kiesenwetter, 1850) Doğu Anadolu Bölgesi'nden ve *Philonthus atratus* (Gravenhorst, 1802) Ege Bölgesi'nden ilk kez kaydedilmiştir. Ayrıca kayıt altına alınan türler için yeni lokalite kayıtları sunulmuştur.

Anahtar kelimeler: Anadolu, fauna, yeni kayıtlar, Staphylininae, Türkiye.

INTRODUCTION

With over 9,000 known species and subspecies all over the world, Staphylininae Latreille, 1802 is the third largest subfamily of the family Staphylinidae Latreille, 1802, after Aleocharinae Fleming, 1821 (with over 17,000 species and subspecies) and Pselaphinae Latreille, 1802 (with over 10,000 species and subspecies) (Newton, 2019). In Türkiye, the subfamily contains 370 species and subspecies belonging to 41 genera (Anlaş, 2009: updated). The most notable among these genera are *Philonthus* Stephens, 1829 (66 species), *Quedius* Fairmaire, 1882 (71 species), *Ocypus* Leach, 1819 (36 species), *Xantholinus*

Dejean, 1821 (38 species), which include 211 of these species. *Xantholinus* is also the genus with the highest rate of endemism (%58).

The main purpose of the present paper is to supplement the knowledge of the Staphylininae fauna of Türkiye.

MATERIAL AND METHOD

Examined material was composed of collected from different provinces of Türkiye between 2007-2018. The specimens in the study were collected under the stone and by using sifter. The material referred to in this study

[¹] This study was produced from the master thesis.

was deposited in the Alaşehir Zoological Museum Manisa (AZMM). Classification and nomenclature were made according to Newton (2019) and Schülke & Smetana (2015).

RESULTS

Family Staphylinidae Latreille, 1802

Subfamily Staphylininae Latreille, 1802

Atrecus affinis (Paykull, 1789)

Material examined: *Sivas:* 3 exs., 15.IV.2018, Hafik, Toraç Mountain, 40°12'48"N, 37°18'28"E, 2000 m, leg. Anlaş, Örgel & Yaman.

Distribution in Türkiye: Artvin, Bolu, Bursa, Karabük, Kastamonu, Rize, Sakarya, Zonguldak (Anlaş, 2009; Assing, 2013, 2014; Özdemir, 2021).

Remarks: This species is recorded from Central Anatolian Region for the first time.

Distribution in the world: This species is widely distributed in Europe and known from Türkiye (Schülke & Smetana, 2015).

Dinothenarus flavocephalus (Goeze, 1777)

Material examined: *Tunceli:* 2 exs., 13.IX.2007, Central province 5 km N, Anafatma, Munzur river bank, 39°07'N, 39°30'E, 920 m, leg. Anlaş & Yağmur.

Distribution in Türkiye: Bilecik, Eskişehir, Manisa, Mersin (Anlaş, 2009; Anlaş et al., 2014; Çiftçi & Hasbenli, 2016; Fırat & Sert, 2016).

Remarks: This species is recorded from Eastern Anatolian Region for the first time.

Distribution in the world: This species is distributed in Iran, Iraq, Israel, Lebanon, Syria and Türkiye (Schülke & Smetana, 2015).

Gabrius nigrutilus (Gravenhorst, 1802)

Material examined: *Afyonkarahisar:* 2 exs., 16.IX.2011, Sandıklı Mountains, 38°27'45"N, 30°21'30"E, 1548 m, leg. Yağmur. *Denizli:* 4 exs., 30.V.2014, Babadağ, 37°47'43"N, 28°48'47"E, 903 m, leg. Örgel. *Uşak:* 2 exs., 15.IV.2013, Banaz, Gürlek 2 km N, 38°51'33"N, 29°41'11"E, 939 m, leg. Anlaş, Yağmur & Örgel.

Distribution in Türkiye: Adana, Afyonkarahisar, Aksaray, Amasya, Ankara, Antalya, Bursa, Çankırı, Elazığ, Eskişehir, Giresun, Gümüşhane, İzmir, Karabük, Konya, Manisa, Mardin, Mersin, Niğde, Rize, Tunceli (Anlaş, 2009; Anlaş & Rose, 2009; Assing, 2014; Özdemir, 2021; Fırat & Sert, 2016; Özgen et al., 2010; Tezcan & Anlaş, 2009;).

Remarks: This species is recorded from Denizli and Uşak provinces of Türkiye for the first time.

Distribution in the world: *G. nigrutilus* is a cosmopolitan species (Schülke & Smetana, 2015).

Neobisnius orbus orbus (Kiesenwetter, 1850)

Material examined: *Malatya:* 2 exs., 02.V.2008, Doğanşehir, Boruk Mountain, 37°53'08"N, 37°43'04"E, 1100 m, leg. Anlaş.

Distribution in Türkiye: Antalya, Balıkesir, Gümüşhane, Kilis, Mersin (Anlaş, 2009; Anlaş & Rose, 2009; Özdemir, 2021).

Remarks: This species is recorded from Eastern Anatolian Region for the first time.

Distribution in the world: According to Schülke & Smetana (2015), *N. orbus orbus* was known from Asia, Europe, North Africa and Afrotropical Region.

Philonthus atratus (Gravenhorst, 1802)

Material examined: *Manisa:* 2 exs., 29.III.2010 Spil National Park, 1200 m, 38°33'20"N, 27°23'17"E, leg. Anlaş.

Distribution in Türkiye: Ankara, Batman, Bayburt, Çankırı, Diyarbakır, Erzurum, Gümüşhane, Konya, Malatya, Mersin, Muş, Niğde (Anlaş, 2009; Anlaş & Rose, 2009; Kesdek et al., 2009; Özdemir, 2021; Fırat & Sert, 2016; Özgen et al., 2010).

Remarks: This species is recorded from Western Anatolian Region for the first time.

Distribution in the world: This species is widely distributed in Asia and Europe and known from Morocco (Schülke & Smetana, 2015).

Philonthus carbonarius (Gravenhorst, 1802)

Material examined: *Afyonkarahisar:* 6 exs., 02.V.2015, Ahır Mountains, Büyükkavşak Hill, 38°43'08"N, 30°03'48"E, 1810 m, leg. Yağmur & Örgel. *Kütahya:* 1 ex., 20.IV.2013, Hisarcık, 39°11'56"N, 29°07'21"E, 1107 m, leg. Anlaş, Yağmur & Örgel.

Distribution in Türkiye: Afyonkarahisar, Aksaray, Antalya, Ardahan, Bingöl, Bursa, Elazığ, Erzurum, Kahramanmaraş, Kars, Manisa (Anlaş, 2009; Anlaş & Rose, 2009; Assing, 2013; Daşdemir & Tozlu, 2022; Fırat & Sert, 2016; Özgen & Anlaş, 2010).

Remarks: This species is recorded from Kütahya province of Türkiye for the first time.

Distribution in the world: *P. carbonarius* is widely distributed in Asia and Europe and known from Algeria and Nearctic Region (Schülke & Smetana, 2015).

Philonthus nitidicollis (Lacordaire, 1835)

Material examined: *Konya:* 9 exs., 15.IV.2016, Seydişehir, Geyik Mountains, Rezebeli Pass, 37°27'18"N, 31°42'06"E, 1825 m, leg. Örgel & Yaman. *Karaman:* 5 exs., 25.V.2016, Sarıveliler, Göktepe, 36°37'11"N, 32°35'54"E, 1702 m, leg. Örgel & Yaman.

Distribution in Türkiye: Adana, Aksaray, Ankara, Antalya, Balıkesir, Bingöl, Bursa, Denizli, Diyarbakır, Erzurum, Eskişehir, Gaziantep, Isparta, İzmir, Karaman, Kayseri, Kırşehir, Konya, Manisa, Mardin, Mersin, Muğla, Nevşehir, Siirt, Şırnak (Anlaş, 2009; Anlaş & Rose, 2009; Çiftçi & Hasbenli, 2016; Daşdemir & Tozlu,

2022; Japoshvili & Anlaş, 2011; Fırat & Sert, 2016; Tezcan et al., 2019).

Distribution in the world: This species is widely distributed in Asia and Europe and North Africa (Schülke & Smetana, 2015).

***Philonthus quisquiliariformis* Scheerpeltz, 1958**

Material examined: Konya: 1 ex., 27.X.2017, Bozkır, Tanrıdağı Hill, 36°58'39"N, 32°16'15"E, 1892 m, leg. Örgel & Yaman; 2 exs., 02.III.2018, Ilgın, Bulcuk, 38°08'40"N, 31°57'48"E, 1430 m, leg. Örgel & Yaman.

Distribution in Türkiye: Ankara, Aydın, Manisa, Van (Anlaş, 2009; Scheerpeltz, 1958). Endemic.

Remarks: This species is recorded from Konya province of Türkiye for the first time.

Distribution in the world: Türkiye (Schülke & Smetana, 2015).

***Philonthus rufimanus rufimanus* Erichson, 1840**

Material examined: Çankırı: 10 exs., 30.III.2013, Kurşunlu 15 km N, Bayramören 3 km E, 1648 m, 40°55'42"N, 33°15'50"E, leg. Anlaş, Yağmur & Örgel. **Manisa:** 1 ex., 30.XI.2014, Spil Mountain, 38°33'44"N, 27°23'10"E, 1100 m, leg. Yağmur & Örgel.

Distribution in Türkiye: Aksaray, Ankara, Aydın, Artvin, Balıkesir, Bayburt, Bursa, Çankırı, Elazığ, Eskişehir, Erzurum, Gümüşhane, İzmir, Kahramanmaraş, Kayseri, Kilis, Konya, Kütahya, Malatya, Manisa, Mardin, Mersin, Muş, Siirt, Sivas, Tunceli, Uşak, Yozgat (Abacıgil et al., 2013; Anlaş, 2009; Anlaş & Rose 2009; Özdemir, 2021; Fırat & Sert, 2016; Özgen et al., 2015).

Distribution in the world: This species is widely distributed in Asia and Europe (Schülke & Smetana, 2015).

***Platyprosopus hierichonticus* Reiche & Sauley, 1856**

Material examined: Gaziantep: 3 exs., 18.XI.2010, Islahiye, Kabaklar, 37°02'08"N, 36°34'03"E, 775 m, leg. Anlaş & Yağmur.

Distribution in Türkiye: Antalya, Diyarbakır, Gaziantep, Hatay, İzmir, Manisa, Mersin (Anlaş, 2009; Anlaş & Rose, 2009; Özgen et al., 2018).

Distribution in the world: *P. hierichonticus* was known from Cyprus, Greece, Israel, Syria and Türkiye (Schülke & Smetana, 2015).

***Xantholinus graecus* Kraatz, 1858**

Material examined: Ankara: 9 exs., 11.VII.2014, Elmadağ, Lalahan 10 km S, 39°54'46"N, 33°06'07"E, 1370 m, leg. Anlaş, Yağmur & Örgel **Manisa:** 1 ex., 20.III.2013, Turgutlu, Baktırlı 2 km W, 38°25'38"N, 27°52'44"E, 780 m, leg. Anlaş, Yağmur & Örgel.

Distribution in Türkiye: Adana, Afyonkarahisar, Antalya, Bursa, Denizli, Diyarbakır, Elazığ, Gaziantep, Hatay, Isparta, İzmir, Kahramanmaraş, Kastamonu, Kırklareli, Kütahya, Manisa, Mersin, Muğla, Osmaniye,

Sinop, Uşak (Anlaş, 2014, 2017, 2019; Assing, 2006, 2007).

Remarks: This species is recorded from Ankara province of Türkiye for the first time.

Distribution in the world: This species was known from Albania, Cyprus, Greece, Israel, Italy, Lebanon, Malta, Russia (South European Territory) and Türkiye (Schülke & Smetana, 2015).

***Xantholinus ibex* Assing, 2007**

Material examined: Muğla: 1 ex., 18.VI.2013, Fethiye-Çameli road 40. km., 36°52'21"N, 29°10'29"E, 1678 m, leg. Yağmur & Örgel; 3 exs., 04.IV.2013, Datça, Emecik 2 km SW, 36°46'01"N, 27°48' 9"E, 107 m, leg. Yağmur & Örgel.

Distribution in Türkiye: Antalya, Denizli, Muğla (Anlaş, 2017; Assing, 2007). Endemic.

Distribution in the world: Türkiye (Schülke & Smetana, 2015).

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