

## ADDITIONAL RECORDS ON THE STAPHYLINIDAE (INSECTA: COLEOPTERA) FAUNA OF TURKEY

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**ABSTRACT:** The present paper is based on the collection of Lodos Entomological Museum, Turkey (LEMT) of Ege University, İzmir and presented new and additional records about Staphylinidae (Insecta: Coleoptera) species from different regions of Turkey. In conclusion of the examined material, 16 staphylinid species were reported. Among them, *Holobus flavicornis* (Lacordaire, 1835) and *Platystethus cornutus* (Gravenhorst, 1802) are recorded for the first time from Eastern Anatolian region and *Xantholinus penicillatus* Assing, 2007 is an Anatolian endemic species.

**KEY WORDS:** Coleoptera, Staphylinidae, LEMT, fauna, new records, Turkey

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Rove beetles (Staphylinidae) is the biggest family of the order Coleoptera, with 63.657 valid species in 33 subfamilies (Newton, 2007; Irmiler et al., 2018). Staphylinids can be found in a wide variety ecosystems of the world, from the Arctic to the tropics, and from marine habitats to alpine zones. They occur in the edges of streams, lakes, dams and swamps, in forests and surrounding habitats, alpine meadows, agricultural areas, caves, nests of mammalia, bird and ant.

The Turkish fauna includes Mediterranean, Middle Asian and southwest Asian species as well as many endemic species (Anlaş, 2007). According to Anlaş (2009: updated), some about 1900 species of the family Staphylinidae have been known from Turkey. Despite this, many Turkish regions and provinces are not intensively studied regarding their Staphylinidae fauna.

The purpose of the present paper is to add new faunistic records on the distribution of Turkish Staphylinidae.

### MATERIAL AND METHODS

The study is based on previously collected material collected by using pitfall and light traps, sweep net and under stones in different parts of Turkey which were deposited in the collection of Lodos Entomological Museum, Turkey (LEMT) of Ege University, İzmir. Classification and nomenclature of Staphylinidae suggested by Schülke & Smetana (2015) has been followed in the study.

### RESULTS

In this study, a total of 63 specimens are examined and 16 species of 12 genera belonging to 6 subfamilies of Staphylinidae are reported from different regions of Turkey.

### Subfamily Omaliinae Macleay, 1825

#### *Omalius cinnamomeum* Kraatz, 1857

**Material: Konya:** 1 ex., 24.IV.1979, Bozkır, on *Trifolium* sp. **Distribution in Turkey:** Ankara, Antalya, Isparta, İzmir, Manisa, Mersin (Anlaş, 2009; Japoshvili & Anlaş, 2011). This species is reported for the first time from Konya province. **Distribution in the world:** The species is widespread in the South-Eastern Europe and known from Cyprus, Israel and Turkey (Schülke & Smetana, 2015).

### Subfamily Tachyporinae Macleay, 1825

#### *Tachyporus hypnorum* (Fabricius, 1775)

**Material: Muğla:** 1 ex., 24.V.2008, Bodrum, Aspat, pitfall trap. **Distribution in Turkey:** Widespread in Turkey (Anlaş, 2009; Özgen & Anlaş, 2011). **Distribution in the world:** According to Schülke & Smetana (2015), *T. hypnorum* is known from Europe, North Africa, Central and Southern Asia, Middle East and West Siberia.

#### *Tachyporus nitidulus* (Fabricius, 1781)

**Material: Kahramanmaraş:** 1 ex., 09.VI.1985, Andırın. **Distribution in Turkey:** This species is widely distributed in Turkey (Anlaş, 2009; Japoshvili & Anlaş, 2011; Özgen & Anlaş, 2011). **Distribution in the world:** The species is known from all zoogeographical regions except for the Neotropical Region (Schülke & Smetana, 2015).

### Subfamily Aleocharinae Fleming, 1821

#### *Holobus flavicornis* (Lacordaire, 1835)

**Material: Erzincan:** 9 exs., 03.VII.1983, on *Phaseolus vulgaris* L., det. Coiffait, 1983. **Distribution in Turkey:** Bolu, Bursa and Sivas (Assing, 2013). This species is reported for the first time from Eastern Anatolian region of Turkey. **Distribution in the world:** This species is widespread in Europe, in addition the species is known from Madeira Archipelago in North Africa, Saudi Arabia and Turkey in Asia (Schülke & Smetana, 2015).

### Subfamily Oxytelinae Fleming, 1821

#### *Anotylus tetracarınatus* (Block, 1799)

**Material: İzmir:** 1 ex., 23.III.1977, Bornova. **Konya:** 1 ex., 21.IV.1979, Akşehir, aerial collector. **Muğla:** 1 ex., 21.III.2009, Bodrum, Aspat; 1 ex., 21.III.2009, under stone; 2 exs., 11.IV.2009, pitfall trap; 1 ex., 13.XI.2009, sweep net. **Distribution in Turkey:** Ankara, Antalya, Diyarbakır, Gaziantep, Hatay, Isparta, Kastamonu, Manisa, Muğla (Anlaş, 2009; Anlaş et al., 2014; Tezcan et al., 2019). This species is reported for the first time from İzmir and Konya provinces. **Distribution in the world:** This species is distributed in the Europe, North Africa, Cyprus, India and Turkey also known from Nearctic Region (Schülke & Smetana, 2015).

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

**Material: İzmir:** 1 ex., 02.VIII.1977, Narlıdere, light trap. **Konya:** 1 ex., 28.IV.1979, Ulukışla road, aerial collector. **Distribution in Turkey:** Ankara, Aydın, Diyarbakır, İzmir, Manisa (Anlaş, 2009; Anlaş & Rose, 2009a). This species is reported for the first time from Konya province. **Distribution in the world:** The known distribution of *B. furcatus* is confined to West Palaearctic including Central and Southern Asia, Middle East, North Africa and Afrotropical Region (Schülke & Smetana, 2015).

#### *Platystethus cornutus* (Gravenhorst, 1802)

**Material: Diyarbakır:** 1 ex., 10.VII.1977, light trap; 1 ex., 13.VII.1977, light trap; 1 ex., 28.VII.1977, light trap. **Manisa:** 1 ex., 19.II.1977, Salihli, Demirköprü, under stone. **Van:** 1 ex., 03.VI.1976, Başkale. **Distribution in Turkey:** Ankara, Aydın, Edirne, Eskişehir, İzmir, Kütahya, Manisa, Mardin, Mersin (Anlaş, 2009; Anlaş & Rose, 2009a). This species is reported for the first time from Eastern Anatolian region of Turkey. **Distribution in the world:** The species is known from all zoogeographical regions except for the Australian and Neotropical Region (Schülke & Smetana, 2015).

### Subfamily Paederinae Fleming, 1821

#### *Paederus fuscipes* Curtis, 1826

**Material:** **Antalya:** 2 exs., 03.VIII.1985, Kaş. **Artvin:** 1 ex., 05.VI.1981, Borçka, Murgul, on *Medicago sativa*. **Muğla:** 1 ex., 23.II.2009, Bodrum, Aspat. **Van:** 1 ex., 18.V.1986, Erciş. **Distribution in Turkey:** This species is widespread and common in Turkey (Anlaş, 2009, 2018; Anlaş et al., 2017). **Distribution in the world:** The species is known from all zoogeographical regions except for the Nearctic and Neotropical Region (Schülke & Smetana, 2015).

#### *Domene stiličina* (Erichson, 1840)

**Material:** **Muğla:** 1 ex., 29.XI.2008, Bodrum, Aspat, under stone. **Distribution in Turkey:** Adıyaman, Ankara, Antalya, Hatay, İzmir, Kahramanmaraş, Kilis, Manisa, Mersin, Şırnak (Anlaş & Çevik, 2008; Anlaş, 2009; Anlaş & Rose, 2009b; Tezcan & Anlaş, 2009). This species is reported for the first time from Muğla province.

### Subfamily Staphylininae Latreille, 1802

#### *Megalinus scutellaris* (Fauvel, 1900)

**Material:** **Muğla:** 1 ex., 29.XI.2008, Bodrum, Aspat, pitfall trap. **Distribution in Turkey:** Adana, Ankara, Antalya, Balıkesir, Çanakkale, Denizli, Hatay, İzmir, Manisa, Mersin, Muğla (Anlaş, 2009; Anlaş et al., 2014; Tanyeri et al., 2017). **Distribution in the world:** The known distribution of *M. scutellaris* confined to Bulgaria, Greece and Turkey (Schülke & Smetana, 2015).

#### *Ocypus curtippennis* Motschulsky, 1849

**Material:** **Muğla:** 3 exs., 27.XII.2008, Bodrum, Aspat, pitfall trap. **Distribution in Turkey:** Adana, Aksaray, Ankara, Antalya, Balıkesir, Bursa, Çanakkale, Diyarbakır, Elazığ, Eskişehir, Gaziantep, Hatay, İstanbul, İzmir, Kahramanmaraş, Kırklareli, Kırşehir, Kilis, Manisa, Mersin, Muğla, Nevşehir (Anlaş, 2009; Özgen et al., 2015, 2017; Tanyeri et al., 2017). **Distribution in the world:** This species is distributed from South-Eastern and Eastern Europe over South Russia and Georgia to Azerbaijan (Schülke & Smetana, 2015).

#### *Ocypus mus* (Brullé, 1832)

**Material:** **Muğla:** 3 exs., 29.XI.2008, Bodrum, Aspat, pitfall trap; 1 ex., 29.XI.2008, under stone; 2 exs., 27.XII.2008, pitfall trap; 1 ex., 13.I.2009, pitfall trap; 1 ex., 31.I.2009, pitfall trap; 2 exs., 28.II.2009, pitfall trap; 1 ex., 21.III.2009, pitfall trap; 1 ex., 23.V.2009, pitfall trap; 2 exs., 29.VI.2009, pitfall trap; 1 ex., 13.XI.2009, under stone; 2 exs., 25.XII.2009, pitfall trap. **Distribution in Turkey:** Widespread in Turkey (Anlaş, 2009; Özgen et al., 2017). **Distribution in the world:** The known distribution of *O. mus* is confined to West Palaearctic including Central Asia and Middle East (Schülke & Smetana, 2015).

#### *Ocypus olens* (O. Müller, 1764)

**Material:** **İzmir:** 1 ex., 17.V.2007, Bornova. **Manisa:** 1 ex., 12.VIII.2009. **Muğla:** 2 exs., 16.X.2009, Bodrum, Aspat, light trap. **Distribution in Turkey:** Gaziantep, İzmir, Manisa, Mersin (Anlaş, 2009; Özgen et al., 2017). This species is reported for the first time from Muğla province. **Distribution in the world:** This species is widely distributed in the Europe and known from North Africa and Nearctic Region (Schülke & Smetana, 2015).

#### *Ocypus sericeicollis* (Ménétriér, 1832)

**Material:** **İzmir:** 1 ex., 10.IX.2009, Bornova. **Distribution in Turkey:** Adıyaman, Ankara, Antalya, Balıkesir, Diyarbakır, Elazığ, Erzurum, Eskişehir, Gaziantep, Hatay, Isparta, İzmir, Kahramanmaraş, Manisa, Şanlıurfa, Şırnak, Yozgat (Anlaş, 2009; Özgen et al., 2015, 2017). **Distribution in the world:** This species is distributed throughout the Western Europe from Turkey and Cyprus to Syria and Iran (Schülke & Smetana, 2015).

#### *Xantholinus penicillatus* Assing, 2007

**Material:** **Muğla:** 1 ex., 13.XI.2009, Bodrum, Aspat, sweep net. **Distribution in Turkey:** Antalya, Konya and Muğla (Assing, 2007; Anlaş, 2014). **Distribution in the world:** This is an Anatolian endemic species (Schülke & Smetana, 2015).

#### *Xantholinus rufipennis* Erichson, 1839

**Material:** **Manisa:** 1 ex., 19.VI.1973, Salihli, Demirköprü, under stone. **Muğla:** 1 ex., 29.XI.2008, Bodrum, Aspat, sweep net. **Distribution in Turkey:** Widespread in Turkey (Anlaş, 2009, 2014, 2017). **Distribution in the world:** According to Schülke & Smetana

(2015), *X. rufipennis* was known from Southern and South-Eastern Europe, Anatolia, Cyprus, Middle East and Iran.

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