

SOME ADDITIONAL NOTES ABOUT STAPHYLININAE (COLEOPTERA: STAPHYLINIDAE) FAUNA OF TURKEY

Sinan Anlaş* and Armin Rose **

* Department of Biology, Faculty of Science, University of Ege, 35100 Bornova, İzmir / TURKEY. E-mail: sinan.anlas@gmail.com

** DZMB, German Centre for Marine Biodiversity Research, Senckenberg Research Institute, Südstrand 44, D-26382 Wilhelmshaven / GERMANY. E-mail: arose@senckenberg.de

[Anlaş, S. & Rose, A. 2009. Some additional notes about Staphylininae (Coleoptera: Staphylinidae) fauna of Turkey. *Munis Entomology & Zoology*, 4 (2): 346-352]

ABSTRACT: In this study, additional notes on 41 species of Staphylininae new to certain Turkish provinces are given. Amongst those *Quedius cyprusensis* Last 1955 is the first record for the Turkish fauna. *Xantholinus marasicus* Assing, 2007 represents the first record since the description of the species.

KEYWORDS: Staphylinidae, Staphylininae, new record, fauna, Turkey.

The Staphylininae is a widespread and rather big subfamily of Staphylinidae, comprising more than 6.500 species worldwide out of 282 genera (Herman, 2001). According to Anlaş (2009), 346 species and subspecies of 39 genera belonging to Staphylininae have been reported for Turkey. Despite many new records there are still some parts of the country where the species inventory of Staphylininae is still rather poorly investigated.

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

MATERIAL AND METHOD

The present paper is primarily based on material collected during three field trips to the province Antalya carried out by Armin Rose in March 2000, 2001, and 2002, as well as recent collections by Sinan Anlaş and Ersen Aydın Yağmur.

Classification and nomenclature of the Staphylinidae suggested by Herman (2001) and Löbl & Smetana (2004) have been followed in this study.

The material referred to in this study is deposited in the following collections:

cAnl first author's private collection
 cAss private collection Volker Assing, Hannover
 cRos second author's private collection
 cSch private collection Michael Schülke, Berlin
 cSol collection Alexey Solodovnikov, NHM Copenhagen
 cYag private collection Ersen Aydın Yağmur, İzmir

RESULTS

In this study, 41 species of 18 genera belonging to four tribes of Staphylininae are newly reported for certain Turkish provinces. If not stated otherwise the formerly known distribution of these species for Turkey is given by Anlaş (2009).

Subfamily Staphylininae Latreille, 1802

Tribe Othiini Thomson, 1859

Othius punctulatus (Goeze, 1777)

Material examined: Aydın: Dilek Yarımadası, pine and oak litter, 950 m, 37°39'23"N, 27°08'14"E, 1 ex., 25.XII.2005, leg. Anlaş (cAnl).

Distribution in Turkey: Artvin, Bitlis, Bolu, İzmir, Gümüşhane, Kastamonu, Manisa.

Tribe Platyprosopini Lynch Arribálzaga, 1884

Platyprosopus hierichonticus Reiche & Saulcy, 1856

Material examined: İzmir: Bayındır, Osmanlar 2 km SE, 420 m, 38°18'07"N, 27°33'58"E, 2 exs., 12.XII.2008, leg. Anlaş (cAnl).

Distribution in Turkey: Diyarbakır, Gaziantep, Hatay, Manisa, Mersin?

Tribe Staphylinini Latreille, 1802

Subtribe Philonthina Kirby, 1837

Bisnius sordidus (Gravenhorst, 1802)

Material examined: Manisa: Central province, Otoman, 38°44'47"N, 27°10'34"E, 1 ex., 04.X.2008, leg. Anlaş.

Distribution in Turkey: Not locality cited (Smetana, 2004).

Cafius xantholoma (Gravenhorst, 1806)

Material examined: İzmir: Karaburun 25 km SE, 10 m, 38°21'02"N, 26°38'20"E, 2 exs., 19.XII.2008, leg. Anlaş (cAnl).

Distribution in Turkey: Istanbul, Mersin?

Gabrius astutoides A. Strand, 1946

Material examined: Antalya: Kemer 5 km NW, rocky riverbank in canyon, from gravel with leaves and roots, 197 m, 36°36'03"N, 30°29'03"E, 1 ex., 30.III.2001, leg. Rose (cRos).

Distribution in Turkey: Muğla (Anlaş, 2007).

Gabrius bishopi Sharp, 1910

Material examined: Antalya: Sakklikent, slope (SE) with snow fields, grassy litter at snow edges, sifted, 1905 m, 36°50'24"N, 30°19'53"E, 2 exs., 18.III.2002, leg. Rose (cRos).

Distribution in Turkey: Not locality cited (Smetana, 2004).

Gabrius latro Joy, 1913

Material examined: Antalya: near Yarbaşı, pure mountain creek, under stones, 1084 m, 36°44'33"N, 30°20'24"E, 2 exs., 29.III.2001, leg. Rose (cRos).

Distribution in Turkey: Adıyaman, Thrace-The European part of Turkey.

Gabrius nigrutilus (Gravenhorst, 1802)

Material examined: Antalya: Kemer 5 km NW, rocky riverbank in canyon, on rotting meat, 197 m, 36°36'03"N, 30°29'03"E, 1 ex., 30.III.2001, leg. Rose (cRos).

Distribution in Turkey: Adana, Ankara, İzmir, Konya, Manisa, Mersin.

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

Material examined: **Antalya:** Alanya, Taşkesiği, east bank of Karpuz river, compost and oak tree leaves, sifted, 50 m, 36°45'N, 31°37'E, 1 ex., 17.III.2000; Antalya, N Sağırı, Köprülü-Kanyon, semi-moist and moist foliage and conifer litter, sifted, 30 m, 37°04'33"N, 31°13'55"E, 1 ex., 22.III.2002, leg. Rose (cRos).

Distribution in Turkey: Adana, Aydın, Kilis, Manisa.

***Neobisnius orbis* (Kiesenwetter, 1850)**

Material examined: **Antalya:** Alanya, Taşkesiği, east bank of Karpuz river, in gravel with hollows under fresh flotsam, 50 m, 36°45'N, 31°37'E, 2 exs., 17.III.2000; Söğütçumavi 4 km N, roadside, hillside creek, under gravel and leaves, 1006 m, 36°44'37"N, 30°23'44"E, 8 exs., 27.III.2001; near Yarbaşı, pure mountain creek, under stones, 1084 m, 36°44'33"N, 30°20'24"E, 4 exs., 29.III.2001, leg. Rose (cRos).

Distribution in Turkey: Balıkesir, Kilis.

***Neobisnius procerulus* (Gravenhorst, 1806)**

Material examined: **Antalya:** Arif 2 km NW, dripping water under bridge, in gravel, 795 m, 36°31'23"N, 30°00'42"E, 4 exs., 26.III.2001, leg. Rose (cRos).

Distribution in Turkey: Adana (Smetana, 1967).

***Philonthus atratus* (Gravenhorst, 1802)**

Material examined: **Malatya:** Arapgir 3 km NE, 912 m, 39°04'13"N, 38°30'34"E, 2 exs., 14.IX.2007, leg. Anlaş (cAnl).

Distribution in Turkey: Ankara, Konya Mersin, Niğde.

***Philonthus carbonarius* (Gravenhorst, 1802)**

Material examined: **Antalya:** Alanya, Taşkesiği, east bank of Karpuz river, compost and oak tree leaves, sifted, 50 m, 36°45'N, 31°37'E, 1 ex., 17.III.2000; near Ovacık, semi-moist dip with clay soil, in old cow dropping, 1051 m, 36°38'37"N, 30°26'14"E, 1 ex., 31.III.2001, leg. Rose (cRos). **Manisa:** Soma, Hamidiye, 827 m, 39°16'39"N, 27°45'50"E, 2 exs., 08.IV.2007, leg. Anlaş (cAnl).

Distribution in Turkey: No locality cited (Herman, 2001; Smetana, 2004).

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

Material examined: **Antalya:** Alanya, Kuzyaka, hillside meadow with creek, in nearly dry cow dropping, 180 m, 36°32'N, 32°08'E, 1 ex., 17.III.2000; Kemer 5 km NW, rocky riverbank in canyon, on rotting meat, 197 m, 36°36'03"N, 30°29'03"E, 2 exs., 30.III.2001; Central province 5 km S, from quite fresh mule dung, 273 m, 36°49'22"N, 30°32'16"E, 2 exs., 31.III.2001, leg. Rose (cRos).

Distribution in Turkey: Adana, Ankara, Bolu, Kayseri, Konya, Manisa, Mersin, Tunceli.

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

Material examined: **Antalya:** Alanya, mountain road near Ilca, slope (SE), in old dry cow dung, 340 m, 1 ex., 15.III.2000; Central province 5 km S, from quite fresh mule dung, 273 m, 36°49'22"N, 30°32'16"E, 1 ex., 31.III.2001, leg. Rose (cRos).

Distribution in Turkey: Denizli, İstanbul.

***Philonthus ebeninus* (Gravenhorst, 1802)**

Material examined: **Antalya:** Alanya, Kuzyaka, hillside meadow with creek, gravel and flotsam sifted, 180 m, 36°32'N, 32°08'E, 1 ex., 12.III.2000, leg. Rose (cRos).

Distribution in Turkey: Adana, Bursa, İzmir, Mersin?

***Philonthus intermedius* (Lacordaire, 1835)**

Material examined: **Antalya:** Akseki, near Güçlüköy, dry hillside with terraces, 600 m, 36°48'N, 31°44'E, 1 ex., 14.III.2000, leg. Rose (cRos).

Distribution in Turkey: Ankara, Denizli, İzmir, Kahramanmaraş, Mersin?

***Philonthus juvenilis* Peyron, 1858**

Material examined: Antalya: Central province, Büyükalın 5 km E, roadside, floated from mosses at hillside creek, 1352 m, 36°43'39"N, 30°21'12"E, 2 exs., 27.III.2001, leg. Rose (cRos, cSch).

Distribution in Turkey: Mersin, Niğde.

***Philonthus nitidicollis* (Lacordaire, 1835)**

Material examined: Antalya: Akseki 10 km NW, stony grassland, 1283 m, 37°07'16"N, 31°49'05"E, 1 ex., 19.III.2002; Manavgat 3 km N, moist dip, from fresh cow dung, 15 m, 36°50'09"N, 31°28'48"E, 1 ex., 20.III.2002, leg. Rose (cRos).

Distribution in Turkey: Adana, Ankara, Gaziantep, İzmir, Konya.

***Philonthus rufimanus* Heer, 1839**

Material examined: Tunceli: Pertek, Singeç creek, 38°54'44"N, 39°15'01"E, 1200 m, 2 exs., 14.IX.2007; Çemişgezek 1,5 km NW, Ormanyolu creek, 948 m, 39°04'06"N, 38°54'18"E, 2 exs., 14.IX.2007, leg. Anlaş & Yağmur (cAnl).

Distribution in Turkey: Aydın, Bayburt, İzmir, Kilis, Mersin?, Manisa.

Subtribe Quediina Kraatz, 1857

***Quedius acuminatus* Hochhuth, 1849**

Material examined: Antalya: Alanya, Kuzyaka, hillside meadow with creek, pitfall trap, 180 m, 36°32'N, 32°08'E, 1 ex., 12.III.2000; Central province, Büyükalın 5 km E, roadside, under stones and leaves in runlet, 1352 m, 36°43'39"N, 30°21'12"E, 2 exs., 27.III.2001, leg. Rose (cRos).

Distribution in Turkey: Ağrı, Giresun.

***Quedius cinctus* (Paykull, 1790)**

Material examined: Antalya: Akseki 4 km NW, northern slope, oak litter and mosses, sifted, 1250 m, 37°07'N, 31°49'E, 1 ex., 16.III.2000; Central province 5 km S, from quite fresh mule dung, 273 m, 36°49'22"N, 30°32'16"E, 1 ex., 31.III.2001, leg. Rose (cRos).

Distribution in Turkey: Bolu, İstanbul İzmir, Karaman, Mersin?

***Quedius cyprusensis* Last, 1955**

Material examined: Antalya: Central province, Kuzyaka, hillside meadow with creek, gravel and flotsam sifted, 180 m, 36°32'N, 32°08'E, 3 exs., 12.III.2000, leg. Rose (cRos, cSol).

Remarks: The species was previously known from Cyprus and Lebanon (Smetana, 2004). It is reported from Turkey for the first time.

***Quedius levicollis* (Brullé, 1832)**

Material examined: İzmir: Bayındır, Osmanlar 2 km SE, 420 m, 38°18'07"N, 27°33'58"E, 2 exs., 12.XII.2008; Yamanlar Dağı, ca. 680 m, 38°33'N, 27°10'E, 1 ex., 28.XII.2005, leg. Anlaş (cAnl).

Distribution in Turkey: Adana, Ankara, Manisa.

***Quedius scintillans* (Gravenhorst, 1806)**

Material examined: Antalya: Çıralı 1 km W, riverbank (slightly brackish), flotsam, sifted, 5 m, 36°24'35"N, 30°28'04"E, 1 ex., 28.III.2001; Central province, 5 km S, from quite fresh mule dung, 273 m, 36°49'22"N, 30°32'16"E, 4 exs., 31.III.2001; near Armutlu, hillside creek, from leaves on gravel and clay, 1227 m, 36°42'49"N, 30°26'27"E, 1 ex., 31.III.2001; near Ovacık, semi-moist dip with clay soil, in old cow dropping, 1051 m, 36°38'37"N, 30°26'14"E, 2 exs., 31.III.2001; Sağırı, Köprülü-Kanyon, dry grassland near riverbank, under stones, 30 m, 37°04'33"N, 31°13'55"E, 1 ex., 17.III.2002, leg. Rose (cRos, cSol).

Distribution in Turkey: Denizli, İzmir (Sahlberg, 1913).

Subtribe Staphylinina Latreille, 1802

***Creophilus maxillosus* (Linnaeus, 1758)**

Material examined: **Antalya:** Kemer 5 km NW, rocky riverbank in canyon, on rotting meat, 197 m, 36°36'03"N, 30°29'03"E, 1 ex., 30.III.2001; Manavgat 3 km N, moist dip, from fresh cow dung, 15 m, 36°50'09"N, 31°28'48"E, 1 ex., 20.III.2002, leg. Rose (cRos).

Distribution in Turkey: Adana, Gaziantep, Hatay, İzmir, Kayseri, Manisa, Mersin?

***Ocypus curtipennis* Motschulsky, 1849**

Material examined: **Antalya:** Akseki, near Çiçekoluk, close to pine wood, under stones on crest, 1020 m, 1 ex., 14.III.2000, leg. Bellmann (cRos).

Distribution in Turkey: Bursa, İstanbul, İzmir.

***Ocypus mus* (Brullé, 1832)**

Material examined: **Kütahya:** Simav, Samat 2 km SW, 3 exs., 16.IV.2006, leg. Anlaş (cAnl).

Distribution in Turkey: Ankara, İzmir, Manisa, Mersin, Muğla, Şanlıurfa, Trabzon.

***Ocypus orientis* Smetana & Davies, 2000**

Material examined: **İzmir:** Aliağa, Karakuzu, 38°44'N, 27°10'E, 1 ex., 04.X.2008, leg. Anlaş (cAnl).

Distribution in Turkey: Manisa.

***Ocypus picipennis picipennis* (Fabricius, 1793)**

Material examined: **Antalya:** Akseki 10 km N, moist grassland with snowfields and stones, under stones, 1350 m, 2 exs., 16.III.2000, leg. Rose (cRos).

Distribution in Turkey: Afyonkarahisar, Ankara, Bolu, Isparta, İzmir, Kayseri, Manisa, Tunceli.

***Ocypus sericeicollis* (Ménétriés, 1832)**

Material examined: **Antalya:** Akseki 4 km NW, northern slope, oak litter and mosses, sifted, 1250 m, 1 ex., 16.III.2000; Akseki 10 km N, moist grassland with snowfields and stones, under stones, 1350 m, 4 exs., 16.III.2000; Central province, near Armutlu, hillside meadow, moist patches, under stones, 1227 m, 36°42'49"N, 30°26'27"E, 5 exs., 31.III.2001, leg. Rose (cRos).

Distribution in Turkey: Ankara, İzmir, Manisa, Şanlıurfa.

***Ontholestus murinus* (Linnaeus, 1758)**

Material examined: **Gaziantep:** Islahiye 1 km E, 37°01'06"N, 36°38'44"E, 1 ex., 15.XII.2007, leg. Yağmur (cYag). **Manisa:** Central province, Otoman, 38°44'47"N, 27°10'34"E, 1 ex., 04.X.2008, leg. Anlaş (cAnl).

Distribution in Turkey: İzmir, Kütahya.

***Staphylinus caesareus* Cederhjelms, 1798**

Material examined: **Antalya:** Alanya, Kuzyaka, hillside meadow with creek, pitfall trap, 180 m, 36°32'N, 32°08'E, 2 exs., 12.III.2000; Alanya, near Konaklı, dry meadow near coastal road W Alanya, under stones, 10 m, 1 ex., 13.III.2000, leg. Rose (cRos).

Distribution in Turkey: Adıyaman, Ankara, Erzurum, Giresun, Kayseri, Malatya, Mersin, Niğde, Trabzon, Tunceli.

Tribe Xantholinini Erichson, 1839***Gauropterus sanguinipes* (Reitter, 1889)**

Material examined: **Antalya:** Alanya, Taşkesiği, east bank of Karpuz river, under stones, 50 m, 36°45'N, 31°37'E, 1 ex., 17.III.2000; Central province, near Yarbaşı, pure mountain creek, under stones, 1084 m, 36°44'33"N, 30°20'24"E, 1 ex., 29.III.2001, leg. Rose (cRos).

Distribution in Turkey: Ankara, Bilecik, Bolu, Diyarbakır, Isparta, İstanbul, Kilis, Kastamonu, Konya, Mersin, Sakarya.

***Gyrohypnus fracticornis* (O. Müller, 1776)**

Material examined: **Gaziantep:** Şehitkamil, Köksalan, Yıldız Mezrası, 37°16'50"N, 37°12'36"E, 1 ex., 07.III.2008, leg. Yağmur (cAnl). **Kahramanmaraş:** Pazarcık, Çınar, 37°29'47"N, 37°20'25"E, 2 exs., 08.III.2008, leg. Yağmur (cYag).

Distribution in Turkey: Ankara, Giresun, İzmir, Manisa, Muğla, Ordu.

***Leptacinus batychrus* (Gyllenhal, 1827)**

Material examined: **Antalya:** Central province, Arif 2 km NW, dripping water under bridge, in gravel, 795 m, 36°31'23"N, 30°00'42"E, 1 ex., 26.III.2001, leg. Rose (cRos).

Distribution in Turkey: Artvin, Bolu, Bursa, Hakkari, Van (Assing, 2007).

***Leptacinus sulcifrons* (Stephens, 1833)**

Material examined: **Antalya:** near Manavgat, dry bushland, under and in old horse dung, 30 m, 1 ex., 13.III.2000, leg. Rose (cRos).

Distribution in Turkey: İzmir, Manisa, Muğla.

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

Material examined: **Hatay:** Dörtiyol, Çömük Yaylası 2 km S, 36°49'45"N, 36°15'12"E, 1 ex., 11.V.2008, leg. Yağmur (cAnl).

Distribution in Turkey: Adana, Ankara, Antalya, Çanakkale, Denizli, İzmir, Manisa, Mersin.

***Xantholinus audrasi* Coiffait, 1956**

Material examined: **Tunceli:** Pertek, Akdemir 3 km E, 1233 m, 38°57'24"N, 39°12'15"E, 14.IX.2007, 2 exs., leg. Anlaş (cAnl).

Distribution in Turkey: Ankara, Antalya, Ardahan, Artvin, Bolu, Burdur, Çankırı, Erzincan, Erzurum, Giresun, İzmir, Manisa, Mersin, Muğla.

***Xantholinus graecus* Kraatz, 1858**

Material examined: **Kütahya:** Simav, Samat 2 km SW, 1 ex., 16.IV.2006, leg. Anlaş (cAnl).

Distribution in Turkey: Adana, Antalya, Bursa, Gaziantep, İzmir, Kahramanmaraş, Kırklareli, Mersin, Muğla.

***Xantholinus marasicus* Assing, 2007**

Material examined: **Gaziantep:** İslahiye, Huzurlu Yaylası, 1582 m, 36°58'46"N, 36°28'37"E, 1 ex., 26.IV.2008, leg. Yağmur. **Hatay:** Dörtiyol, 1304 m, 38°30'27"N, 35°08'04"E, 1 ex., 08.VII.2007, leg. Gramov & Koç (cAnl).

Remarks: This recently described species was previously known from only one locality from Kahramanmaraş (Assing, 2007).

ACKNOWLEDGEMENTS

We are most grateful to our colleagues for their assistance in collecting some of the material and Dr. V. Assing (Hannover, Germany), M. Schülke (Berlin, Germany), Prof. Dr. H. Korge (Berlin, Germany) and Dr. A. Solodovnikov (Copenhagen, Denmark) for identifications/confirmations of parts of the

material. We are indebted to Axel Bellmann (Bremen, Germany) who contributed further material.

LITERATURE CITED

- Anlaş, S.** 2007. The present situation of the Staphylinidae fauna of Turkey (Coleoptera). *Linzer Biol. Beitr.* 39: 5-9.
- Anlaş, S.** 2009. Distributional checklist of the Staphylinidae (Coleoptera) of Turkey, with new and additional records. *Linzer Biol. Beitr.* 41 (in press).
- Assing, V.** 2007. On the Xantholinini of Turkey and adjacent regions (Coleoptera: Staphylinidae, Staphylininae). *Zootaxa* 1474: 1-54.
- Herman, L. H.** 2001. Catalog of the Staphylinidae (Insecta: Coleoptera). 1758 to the end of the second millennium. Volumes I-VII. *Bulletin of the American Museum of Natural History* 265: 1-4218.
- Sahlberg, J.** 1913. Coleoptera mediterranea orientalia, quae in Aegypto, Palaestina, Syria, Caramanis atque in Anatolia occidentali anno 1904 collegerunt John Sahlberg et Unio Saalas. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar (A)* 55 [1912-1913] (19): 1-281.
- Smetana, A.** 1967. Wissenschaftliches Ergebnis der zoologischen Expedition des Nationalmuseum in Prag nach der Türkei. Coleoptera-Staphylinidae, Subfam. Staphylininae. *Acta Entomologica Musei Nationalis Pragae* 37: 551-564.
- Löbl, I. & Smetana, A.** 2004. Subfamily Staphylininae — Catalogue of Palaearctic Coleoptera. Volume 2. Hydrophiloidea, Histeroidea, Staphyloidea. Apollo Books, Stenstrup: 624-698.