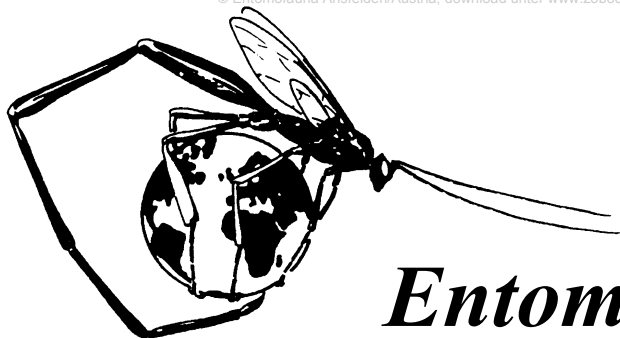




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Faunistic Studies on Steninae, Paederinae and Staphylinae (Coleoptera: Staphylinidae) from Sündiken Mountains (Turkey).

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Abstract

Totally 1732 specimens that belong to subfamilies of Steninae, Paederinae and Staphylinae were collected and evaluated from Sündiken Mountains. Research area "Sündiken Mountains" are located at the north of Eskişehir from Turkey. At the result of the specimens examination, 12 species from Steninae, 23 species from Paederinae and 49 species from Staphylinae and also Turkey distribution of these species were given. With this study, fauna of Steninae, Paederinae and Staphylinae of Sündiken Mountains were determined.

Zusammenfassung

Insgesamt 1732 Individuen der Unterfamilien Steninae, Paederinae und Staphylinae wurden von den Sündiken Mountains gesammelt und bestimmt. Das Untersuchungsgebiet "Sündiken Mountains" liegt nördlich von Eskişehir in der Türkei. Die Untersuchung resultierte in 12 Arten Steninae, 23 Arten Paederinae und 49 Arten Staphylinae; die Verbeitung dieser Arten in der Türkei wird dargestellt.

Introduction

The family Staphylinidae is recorded everywhere in the world (except Antarctica). The numbers of staphylinids taxa known from worldwide are increasing year after year. Over the described 56.000 taxa, Staphylinidae is the most diverse families of Insecta (ASSING & SCHÜLKE 2011; NEWTON 2007).

The numbers of species known from Turkey are increasing with studies about Turkey's Staphylinidae fauna working by domestic and foreign researchers and still continue to rise. According to checklist of staphylinid of Turkey made by Anlaş, it was known 1520 taxa and this number raised to 1600 taxa with the update in 2009 (except Scydmaenidae) (ANLAŞ 2007, 2009). In past time since the last checklist, numerous new species have described and it has given new records from Turkey. With these studies, more than 1800 taxa have known from Turkey (except Scydmaenidae) (ANLAŞ 2014a ,2014b, 2015; ASSING 2009, 2010, 2011, 2013d and a greater number of publications including the fauna of Turkey after published ANLAŞ 2009).

Sündiken Mountains are located at the north of Eskişehir province. Sündiken Mountains shows a transition zone between Central Anatolia and Black Sea regions (EKİM & AKMAN, 1990). Kızıltepe (1818 m) is peak of the mountains. In the northern part of Sündiken Mountains; there are deep valleys that formed by the Sakarya River and the lowest height of up to 190 m around Mihalgazi County. Varieties of habitats are found in Sündiken Mountains; forests of *Quercus* sp., *Pinus nigra*, *P. sylvestris*, *P. brutia*, mixed deciduous and coniferous forest, Irano-Anatolian steppe and agricultural areas (DEMIRCI, 2006).

With this study, it is aimed to contribute subfamilies Steninae, Paederinae and Staphylinae fauna of Sündiken Mountains.

Materials and methods

A total of 1732 specimens (884 males and 848 females) of the subfamilies Steninae, Paederinae and Staphylinae were collected and examined from different parts of the Sündiken Mountains. Also, close parts of Nallıhan (district of Ankara) and İnhisar (district of Bilecik) to Sündiken Mountains were included into the research area (Map 1.). All of the specimens are preserved at the Zoological Museum of Gazi University (ZMGU). The specimens were collected during field studies conducted for the doctoral thesis of the first author, which was titled "Species Diversity of Staphylinine (Coleoptera: Staphylinidae) Group's from Sündiken Mountains and Their Relationship between EUNIS Habitats". All specimens were collected by first author.

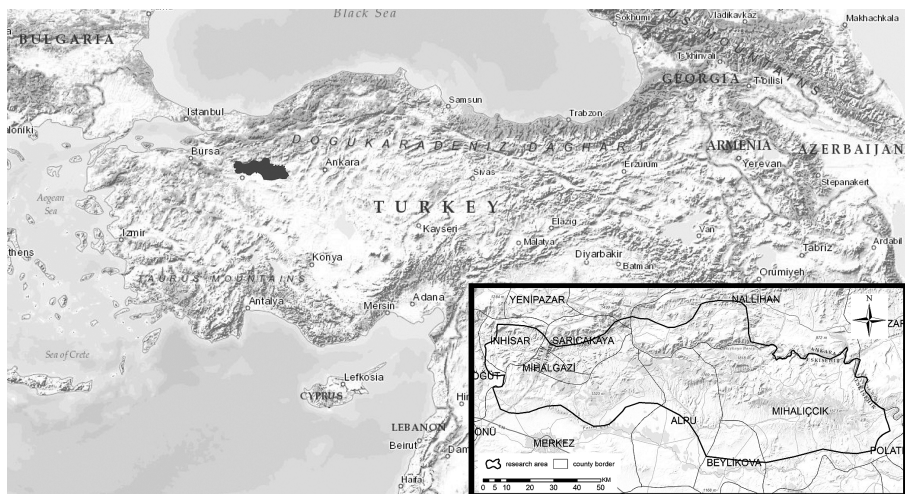


Fig. 1. Sündiken Mountains, study area.

Results

In this study, the specimens belong to subfamilies Steninae, Paederinae and Staphylinae were evaluated. It had been identified 12 species belong to Steninae, 23 species belong to Paederinae and 49 species belong to Staphylinae in result of evaluation. Detailed localities and Turkish distributions of collected specimens are given.

Steninae MACLEAY 1825

Stenus affaber BAUDI DI SELVE 1848

Material examined: Ankara: 1♂, Nallıhan, between Karahisargölcük-Öşürler villages, 40°6'6.95"N/ 31°5'24.47"E, 680 m, 27.06.2012.

Distribution in Turkey: Ankara (TURAN & SERT 2011).

Comments: The exact locality of this species from Turkey was given first time from Ankara, Kalecik province by TURAN & SERT 2011. In this study, the specimen collected from Ankara too. We think that this species is locally distributed in Turkey.

Stenus anatolicus PUTHZ 1970

Material examined: Eskişehir: 1♀, Mihalıçık, between Otluk-Karacaören villages, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 04.09.2012.

Distribution in Turkey: Afyonkarahisar, Adana, Antalya, Isparta, Kahramanmaraş, Mersin, Muğla (ANLAŞ 2009).

Comments: The specimen recorded from Eskişehir is first record for province.

***Stenus asiaticus* BERNHAUER 1940**

Material examined: Eskişehir: 1♂, 1♀, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011; 1♂, 1♀, Mihaliçcik, between Yalınkaya-Yeşilyurt villages, exit of Yalınkaya 10th km, 39°58'12.70"N/ 31°11'20.82"E, 1280 m, 26.06.2012, same locality 2♂♂, 25.05.2013; 2♂♂, 3♀♀, Mihaliçcik, between Otluk-Karacaören villages, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012, same locality 1♂, 1♀, 12.07.2012, 3♂♂, 2♀♀, 11.08.2012 and 1♀, 04.09.2012; 1♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.07.2012, same locality 1♂, 13.08.2012; 6♂♂, 8♀♀, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'16.78"N/ 30°31'8.84"E, 1055 m, 13.08.2012.

Distribution in Turkey: Adana, Ankara, Aydın, İstanbul, Kilis, Manisa, Sakarya (ANLAŞ 2009).

Comments: The localities from Eskişehir written above are new record for the species.

***Stenus bicornis* PUTHZ, 1972**

Material examined: Bilecik: 1♂, İnhisar, Akkum village, 40°5'16.59"N/ 30°24'8.59"E, 325 m, 29.04.2012; Eskişehir: 2♂♂, Mihaliçcik, between Yeşilyurt- Otluk villages, 40°0'55.85"N/ 31°10'53.23"E, 1370 m, 26.06.2012; 1♀, Mihaliçcik, between Yeşilyurt-Çalkaya villages 2th km, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 11.08.2012; 1♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'16.78"N/ 30°31'8.84"E, 1055 m, 13.08.2012; Ankara: 1♂, 2♀♀, Nallıhan, between Tekkeköy-Aşağıkavacık villages, 40°9'51.70"N/ 31°13'15.80"E, 815 m, 27.06.2012; 1♂, Nallıhan, between Aşağıkavacık-Nallıhan villages 4th km, 40°10'14.55"N/ 31°15'6.90"E, 955 m, 12.08.2012.

Distribution in Turkey: Ankara, Antalya, Eskişehir, Isparta, Tunceli, (ANLAŞ 2009; TURAN & SERT 2011).

Comments: The specimen recorded from Bilecik is first record for province.

***Stenus bosnicus* BERNHAUER 1909**

Material examined: Eskişehir: 1♂, Mihaliçcik, between Yalınkaya-Yeşilyurt villages, northwestern Yalınkaya, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 21.08.2011; 1♀, Mihaliçcik, between Otluk-Karacaören villages, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 12.07.2012, same locality 1♂, 25.05.2013; 1♂, 2♀♀, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.07.2012; 2♂♂, Mihaliçcik, between Yeşilyurt-Çalkaya villages 2th km, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 11.08.2012.

Distribution in Turkey: Ankara, Bolu, İzmir, Kastamonu, Ordu, (ANLAŞ 2009; ASSING 2009; TURAN & SERT 2011).

Comments: The specimens recorded from Eskişehir are first record for province.

***Stenus callidus* BAUDI DI SELVE 1848**

Material examined: Eskişehir: 1♂, Beylikova, between Doğanoglu-Bozan villages 3,5th km, 39°49'44.52"N/ 31°10'34.34"E, 863 m, 26.05.2013.

Distribution in Turkey: Adıyaman, Antalya, Amasya, Ankara, Ardahan, Artvin, Bitlis, Bolu, Burdur, Bursa, Çanakkale, Çankırı, Gaziantep, Hatay, Isparta, İstanbul, İzmir, Kahramanmaraş, Kars, Kocaeli, Mardin, Muğla, Sivas, Şanlıurfa, Tunceli (ANLAŞ 2009; TURAN & SERT 2011).

Comments: The localities written above are new record for the species.

***Stenus formicetorum* MANNERHEIM 1843**

Material examined: Eskişehir: 1♀, Tepebaşı, exit of Hekimdağ-Sakarılıca, 39°54'886" N/ 30°34'150" E, 1240 m, 23.09.2011.

Distribution in Turkey: Not locality cited (ANLAŞ 2009).

Comments: This complete locality is recorded for the first time from Turkey with this study.

***Stenus maculiger* WEISE 1875**

Material examined: Eskişehir: 7♂♂, 12♀♀, Mihalıçcık, between Gürleyik-Yalınkaya 12th km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 22.09.2011; 3♂♂, 3♀♀, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011, same locality 2♂♂, 13.07.2012 and 2♂♂, 6♀♀, 13.08.2012; 1♂, Mihalıçcık, between Yalınkaya-Yeşilyurt villages, northwestern part of Yalınkaya, 39°58'33.41"N/ 31°13'50.30"E, 1200 m, 11.08.2012; 1♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'16.78"N/ 30°31'8.84"E, 1055 m, 13.08.2012; 1♂, Mihalıçcık, between Otluk-Karacaören villages, 40°0'17.11"K/ 31°7'40.52"E, 1144 m, 25.05.2013; Ankara: 1♂, Nallıhan, between Aşağıkavacık-Nallıhan villages, 40°10'14.55"N/ 31°15'6.90"E, 955 m, 12.08.2012.

Distribution in Turkey: Adana, Adıyaman, Ankara, Antalya, Bilecik, Bitlis, Bolu, Burdur, Diyarbakır, Gümüşhane, Hakkâri, Isparta, İstanbul, İzmir, Manisa, Mersin, Muğla, Trabzon (ANLAŞ 2009; TURAN & SERT 2011).

Comments: It is widely distributed in Turkey, but species was unknown from the Eskişehir province.

***Stenus morio* GRAVENHORST, 1806**

Material examined: Eskişehir: 1♀, Mihalıçcık, between Sarayköy-Ahurözü villages, 39°48'32.66"N/ 31°45'18.49"E, 990 m, 27.04.2012; 1♀, Mihalıçcık, Dinek village, under of Dinek bridge,

39°58'34.06"N/ 31°22'7.68"E, 755 m, 28.04.2012; 1 ♀, Mihaliçcik, Kavak village, 39°55'9.61"N/ 31°38'42.15"E, 800 m, 25.06.2012; 1 ♀, Mihaliçcik, between Yeşilyurt-Çalkaya village, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 11.08.2012; 1 ♂, Mihaliçcik, Güreş village, 39°55'12.74"N/ 31°34'18.68"E, 1047 m, 24.05.2013.

Distribution in Turkey: Adana, Ankara (ANLAŞ 2009; TURAN & SERT 2011).

Comments: The specimens from Eskişehir represent the third record from Turkey.

***Stenus ochropus* KIESENWETTER 1858**

Material examined: Eskişehir: 1 ♀, Mihaliçcik, between Ahurözü-Sarayköy villages, 39°46'48.75"N/ 31°43'37.42"E, 980 m, 13.06.2012; 1 ♂, 2 ♀ ♀, Mihaliçcik, Hamidiye road, 39°51'982" N/ 31°35'763" E, 1505 m, 03.09.2012; 1 ♀, Mihaliçcik, Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1047 m, 14.11.2012; 1 ♀, Mihaliçcik, Lütfiye, 39°54'3.45"N/ 31°27'45.80"E, 1550 m, 15.11.2012; 1 ♀, Mihaliçcik, Çalcı village, 39°57'30.95"N/ 31°24'8.43"E, 1148 m, 25.05.2013.

Distribution in Turkey: Adana, Isparta, Konya, Niğde, (ASSING, 2013d).

Comments: *S. ochropus* that previously recorded in the southern part of Turkey was recorded for the first time from Eskişehir.

***Stenus turbulentus* BONDROIT 1912**

Material examined: Eskişehir: 1 ♀, Mihaliçcik, Gürleyik village, 39°59'13.92"N/ 31°20'30.24"E, 660 m, 01.12.2011.

Distribution in Turkey: Adana, Ankara, Bursa, Isparta, Mersin, Sakarya (ANLAŞ, 2009; ASSING, 2013d; TURAN & SERT, 2011).

Comments: It is for the first time recorded from Eskişehir.

***Stenus turcicus* BERNHAUER 1912**

Material examined: Eskişehir: 1 ♂, Mihaliçcik, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1 ♂, Mihaliçcik, east of Hamidiye village, 39°50'46.92"N/ 31°42'4.86"E, 1410 m, 21.09.2011; 12 ♂♂, 15 ♀ ♀, Mihaliçcik, between Ahurözü-Sarayköy villages, 39°46'48.75"N/ 31°43'37.42"E, 980 m, 13.06.2012; 1 ♂, Mihaliçcik, between Gürleyik-Yalımkaya villages 12.km, 39°59'40.51"N 31°16'9.25"E, 1220 m, 14.06.2012; 1 ♂, Mihaliçcik, between Narlı-Sekiören villages, 39°55'11.73"N/ 31°42'55.28"E, 1100 m, 11.07.2012; 1 ♂, Mihaliçcik, Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012; 1 ♀, Mihaliçcik, between Yalımkaya-Yeşilyurt villages, northwestern part of Yalımkaya, 39°58'33.41"N/ 31°13'50.30"E, 1205 m, 04.09.2012; 1 ♀, Mihaliçcik, Çalcı village, 39°57'30.95"N/ 31°24'8.43"E, 1148 m, 25.05.2013.

Distribution in Turkey: Adana, Ankara, Antalya, İstanbul, Kahramanmaraş (ANLAŞ 2009; TURAN & SERT 2011).

Comments: The species is recorded for the first time from Eskişehir.

Paederinae FLEMING 1821

***Astenus lyonessius* (JOY 1908)**

Material examined: Eskişehir: 1♂, Mihalıcık, between Gürleyik-Yalınkaya villages 12th km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1♂, 2♀♀, Sarıcakaya, Lâçin-Alapınar road 5th km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 16.06.2012; 1♂, Mihalıcık, between Güreş- Belen villages, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 11.07.2012; 1♂, Mihalıcık, between Gürleyik-Yeşilyurt villages, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012; 1♂, 1♀, Mihalıcık, between Yalınkaya-Yeşilyurt villages, northwestern Yalınkaya, 39°58'33.41"N/ 31°13'50.30"E, 1200 m, 11.08.2012.

Distribution in Turkey: Aydın, Gaziantep, Hatay, Isparta, İzmir, Manisa, Mersin (ANLAŞ 2009; ASSING 2013d).

Comments: The materials from Eskişehir are new record for middle Anatolian region.

***Lathrobium laevipenne* HEER 1839**

Material examined: Eskişehir: 1♂, Mihalıcık, Yalınkaya village, 40°0'0.96"N/ 31°7'55.98"E, 1170 m, 22.09.2011.

Distribution in Turkey: Artvin, Giresun, İstanbul (ANLAŞ 2009; ASSING 2013e).

Comments: *L. laevipenne* was previously known from a few localities in Artvin, Giresun and İstanbul provinces. The specimens recorded from Eskişehir are first record for province.

***Leptobium gracile* (GRAVENHORST 1802)**

Material examined: Eskişehir: 1♂, Tepebaşı, between Uludere-Behçetiye villages, 39°55'58.49"N/ 30°21'18.23"E, 1240 m, 29.04.2012.

Distribution in Turkey: Adana, Adıyaman, Afyonkarahisar, Ankara, Antalya, Ardahan, Artvin, Balıkesir, Bayburt, Bilecik, Burdur, Bursa, Çankırı, Diyarbakır, Erzincan, Erzurum, Eskişehir, Gaziantep, Giresun, Gümüşhane, Hakkâri, Isparta, İstanbul, İzmir, Kastamonu, Kayseri, Kırıkkale, Konya, Kütahya, Malatya, Manisa, Muğla, Samsun, Sinop, Sivas, Şanlıurfa, Tunceli, Van (ANLAŞ 2009; ASSING 2013d; SERT et al. 2013).

***Lithocharis ochracea* (GRAVENHORST 1802)**

Material examined: Eskişehir: 1♂, Sarıcakaya, Lâçin-Alapınar road 5th km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 27.06.2012.

Distribution in Turkey: Hatay, Gaziantep, Siirt (ANLAŞ & DEVECİ 2011; ÖZGEN et al. 2010).

Comments: The species had been reported from three provinces in Turkey. The material from Eskişehir extends the distribution in Turkey further to the middle.

***Lobrathium rugipenne* (HOCHHUTH 1851)**

Material examined: Eskişehir: 2♂♂, Mihaliçcik, Gürleyik village, 39°59'13.92"N/ 31°20'30.24"E, 660 m, 22.09.2011; 1♂, 1♀, Tepebaşı, Taycılar-Alapınar road, 39°58'30.24"N/ 30°54'47.40"E, 1250 m, 21.08.2011; 1♂, Mihaliçcik, Güreş village, 39°55'09.6"N/ 31°35'53.0"E, 1012 m, 31.03.2012; 1♀, Mihaliçcik, Dinek village, 39°58'33.84"N/ 31°22'7.75"E, 763 m, 01.04.2012; 1♂, 1♀, Mihaliçcik, Dinek village, Dinek bridge, 39°58'34.06"N/ 31°22'7.68"E, 755 m, 28.04.2012; 1♀, Mihaliçcik, Gürleyik- Yalınkaya road, 39°59'40.64"N/ 31°16'9.04"E, 1250 m, 28.04.2012; 1♂, Sarıcakaya, Lâçin-Alapınar road 2,5th km, 40°2'31.85"N/ 30°46'56.57"E, 355 m, 15.06.2012; 1♂, Mihaliçcik, exit of Yalınkaya 10th km, 39°58'12.70"N/ 31°11'20.82"E, 1280 m, 26.06.2012; 1♀, Mihaliçcik, between Yeşilyurt- Otluk villahges 40°0'55.85"N/ 31°10'53.23"E, 1370 m, 26.06.2012; 1♂, 1♀, Mihaliçcik, between Gürleyik-Yeşilyurt villages, north of Yalınkaya, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012; 2♂♂, Tepebaşı, Avlamlı-Alpagut road, 39°58'15.30"N/ 30°27'43.59"E, 1005 m, 13.07.2012; 2♂♂, Tepebaşı, between Tekeçiler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.07.2012, same locality 5♂♂, 1♀, 05.09.2012; 3♂♂, 4♀♀, Mihaliçcik, Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012, same locality 4♂♂, 7♀♀, 14.11.2012; 3♂♂, Mihaliçcik, northwestern Yalınkaya, 39°58'33.41"N/ 31°13'50.30"E, 1200 m, 11.08.2012; 1♂, 1♀, Mihaliçcik, between Narlı-Sekiören villages, 39°55'10.63"N/ 31°42'55.25"E, 1100 m, 24.05.2013; Ankara: 1♂, Nallıhan, between Karahisargölcük-Öşürler villages, 40°6'6.95"N/ 31°5'24.47"E, 680 m, 27.06.2012.

Distribution in Turkey: Adana, Afyonkarahisar, Aksaray, Ankara, Antalya, Artvin, Bolu, Burdur, Denizli, Düzce, Erzurum, Eskişehir, Giresun, Gümüşhane, Hatay, Isparta, İstanbul, İzmir, Karaman, Kastamonu, Kayseri, Kırıkkale, Kırşehir, Konya, Manisa, Mersin, Muğla, Niğde, Ordu, Rize, Sakarya, Sinop, Sivas, Zonguldak (ANLAŞ 2009; ASSING 2013b; SERT et al. 2013).

***Luzea graeca* (KRAATZ 1857)**

Material examined: Ankara: 1♂, Nallıhan, between Karahisargölcük-Öşürler villages , 40°6'6.95"N/ 31°5'24.47"E, 680 m, 27.06.2012.

Distribution in Turkey: Adana, Ankara, Antalya, Çanakkale, Gaziantep, Gümüşhane, Hakkâri, Isparta, Kahramanmaraş, Kastamonu, Kayseri, Konya, Mersin, Siirt, Sinop, Sivas, Tokat, Yozgat (ANLAŞ 2009, ASSING 2013d).

***Medon abantensis* BORDONI 1980**

Material examined: Eskişehir: 1♂, 3♀♀, Tepebaşı, between Tekeçiler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011, 2♂♂, same locality 1♀, 13.07.2012; 1♂, Sarıcakaya, Lâçin-Alapınar road 5th km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 16.06.2012; 1♂, Mihalgazi, Sakarılıca, 39°58'42.35"N/ 30°35'39.31"E, 535 m, 12.07.2012.

Distribution in Turkey: Amasya, Artvin, Bolu, Denizli, İzmir, Malatya, Manisa, Mersin, Rize, Samsun, Tokat, Tunceli (ANLAŞ 2009, 2015; ASSING 2013c).

Comments: The specimens collected from Eskişehir are new record for middle Anatolian region.

***Medon ferrugineus* (ERICHSON 1840)**

Material examined: Eskişehir: 1♂, Tepebaşı, Avlamiş-Alpagut road, 39°59'7.69"N/ 30°28'39.28"E, 810 m, 12.08.2012.

Distribution in Turkey: Ankara, Bingöl, Bolu, Gümüşhane, Isparta, Kastamonu, Konya, Muş, Ordu, Sakarya, Samsun, Sinop, Trabzon, Tunceli (ANLAŞ 2009, 2015; ASSING 2013d).

Comments: The species is recorded for the first time from Eskişehir.

***Medon umbilicatus* COIFFAIT 1970**

Material examined: Eskişehir: 1♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.08.2012.

Distribution in Turkey: İzmir, Muğla (ASSING 2004).

Comments: This species was previously known only from western part of country (İzmir and Muğla). The specimen from Eskişehir represents the third record from Turkey.

***Paederidus rubrothoracicus* (GOEZE 1777)**

Material examined: Ankara: 4♂♂, 3♀♀, Nallıhan, between Tekkeköy-Aşağıkavacık villages, 40°9'51.70"N/ 31°13'15.80"E, 815 m, 27.06.2012.

Distribution in Turkey: Ankara, Antalya, Artvin, Aydın, Bolu, Erzurum, Eskişehir, Konya, Manisa, Sivas, Trabzon, Tunceli, Van (ANLAŞ 2009; SERT et al. 2013).

***Paederus littoralis* GRAVENHORST 1802**

Material examined: Eskişehir: 1♀, Sarıcakaya, eastern Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 01.04.2012, same locality 1♀, 27.06.2012; 1♀, Mihaliçcik, between Güreş- Belen villages, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 27.04.2012; 1♂, Tepebaşı, between Sulukarağaç-Tekeciler villages, 39°56'13.74"N/ 30°29'54.35"E, 1135 m, 29.04.2012; 1♀, Tepebaşı, Bozdağ, 39°55'1.82"N/ 30°35'44.01"E, 1308 m, 30.04.2012; 1♀, Mihaliçcik, exit of Güreş village 5. km, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 11.07.2012, same locality 1♂, 3♀♀, 24.05.2013; 1♂, Mihaliçcik, between Güreş-Belen villages, 39°54'5.56"N/ 31°32'10.62"E, 1181 m, 24.05.2013; 1♀, Mihaliçcik, Dinek village, 39°58'35.33"N/ 31°22'8.54"E, 757 m, 25.05.2013; 1♂, Beylikova, between Doğanoglu-Bozan villages 3,5th km, 39°49'44.52"N/ 31°10'34.34"E, 863 m, 26.05.2013; Ankara: 1♂, Nallıhan, between Kavakköy-Osmanköy villages, 40°4'16.68"N/ 30°58'58.96"E, 835 m, 29.04.2012; Bilecik: 1♂, İnhisar, between Samrı-Ortaca villages 6th km, 40°0'47.51"N/ 30°18'28.58"E, 925 m, 29.04.2012.

Distribution in Turkey: Aksaray, Amasya, Antalya, Ardahan, Bilecik, Erzurum, İzmit, Karaman, Kars, Kastamonu, Kırıkkale, Kırşehir, Mardin, Sakarya, Samsun, Sinop,

Şanlıurfa, Trabzon, Yozgat (ANLAŞ 2009; ANLAŞ & ROSE 2009a; KESDEK et al. 2009; SERT et al. 2013).

Comments: The specimens collected from Eskişehir and Ankara are first record for *P. littoralis* that widely distribution in Turkey

***Rugilus angustatus* (GEOFFRAY 1785)**

Material examined: Eskişehir: 1♀, Mihalıçcık, between Gürleyik-Yalımkaaya villages, 12th km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 22.09.2011.

Distribution in Turkey: Aksaray, Ankara, Çankırı, İzmir, Karaman, Kayseri, Manisa, Samsun, Yozgat (ANLAŞ 2009; ANLAŞ & ROSE 2009a, SERT et al. 2013).

Comments: The specimens recorded from Eskişehir are first record for province.

***Rugilus lesbius* ASSING 2005**

Material examined: Eskişehir: 2♂♂, 7♀♀, Mihalıçcık, between Gürleyik-Yalımkaaya villages 12th km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1♀, Mihalıçcık, west of Yalımkaaya, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012; 1♀, Tepebaşı, between Tekeçiler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.07.2012; 1♂, Mihalıçcık, exit of Güreş village 5th km, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012; 5♂♂, 1♀, Mihalıçcık, northwestern Yalımkaaya, 39°58'33.41"N/ 31°13'50.30"E, 1200 m, 11.08.2012; 2♂♂, 2♀♀, same locality 04.09.2012; 1♂, Mihalıçcık, Gürleyik village, 39°59'15.84"N/ 31°20'26.78"E, 662 m, 25.05.2013.

Distribution in Turkey: Aydın, Bolu, Sakarya (ANLAŞ 2009; ASSING 2013d).

Comments: It had been reported from a few localities in west and north western of country. The specimens recorded from Eskişehir extend the distribution in Turkey of the species to middle part of country.

***Rugilus orbiculatus* (PAYKULL 1789)**

Material examined: Eskişehir: 2♀♀, Mihalıçcık, northwestern Yalımkaaya, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 22.09.2011; 1♂, Tepebaşı, exit of Hekimdağ-Sakarılıca, 39°54' 886" N/ 30°34' 150" E, 1240 m, 23.09.2011; 1♂, 1♀, Alpu, between Özdenk-Büğdüz villages, 39°52'5.17"N/ 31°4'14.17"E, 870 m, 30.04.2012; 4♂♂, 1♀, Mihalıçcık, Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012.

Distribution in Turkey: Antalya, Erzurum, Eskişehir, İstanbul, İzmir, Karaman, Kayseri, Manisa, Niğde (ANLAŞ 2009; ANLAŞ & ROSE 2009a; KESDEK et al. 2009; SERT et al. 2013).

***Rugilus similis* (ERICHSON 1839)**

Material examined: Eskişehir: 1♂, Mihalıçcık, Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 11.07.2012.

Distribution in Turkey: Aksaray, Çankırı, Erzurum, Eskişehir, Mersin-Karaman (Sertavul Pass), Muğla, Osmaniye (ANLAŞ 2009; ASSING 2013a; SERT et al. 2013).

***Rugilus subtilis* (ERICHSON, 1840)**

Material examined: Eskişehir: 1♂, Mihaliçcık, between Gürleyik-Yalınkaya 12th km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011.

Distribution in Turkey: Ankara (ANLAŞ 2009).

Comments: The specimen from Eskişehir represents second record from Turkey.

***Scopaeus bicolor* BAUDI DI SELVE, 1848**

Material examined: Eskişehir: 1♂, Mihaliçcık, Gürleyik village, 39°59'13.92"N/ 31°20'30.24"E, 660 m, 21.08.2011; 1♀, Sarıcakaya, eastern Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012; 1♀, Mihaliçcık, between Sekiören-Bahtiyar villages, 39°56'50.40"N/ 31°41'17.02"E, 680 m, 10.08.2012; 1♂, Sarıcakaya, Lâçin-Alapınar road 2,5th km, 40°2'31.85"N/ 30°46'56.57"E, 355 m, 12.08.2012; Ankara: 4♂♂, 3♀♀, Nallıhan, between Aşağıkavacık-Nallıhan 4th km, 40°10'14.55"N/ 31°15'6.90"E, 955 m, 12.08.2012.

Distribution in Turkey: Aksaray, Ankara, Antalya, Erzurum, Giresun, Isparta, İzmir, Kahramanmaraş, Kastamonu, Kayseri, Kocaeli, Kütahya, Manisa, Muğla, Niğde, Sinop, Sivas, Trabzon, Uşak, Yozgat, Zonguldak (ANLAŞ 2009; TEZCAN & ANLAŞ 2009; ANLAŞ & FRISCH 2014; SERT et al. 2013).

Comments: This species is widely distributed and very common in Turkey with recently records (ANLAŞ & FRISCH 2014; SERT et al. 2013). Eskişehir is added to distribution of the species with above specimens.

***Scopaeus cameroni* COIFFAIT 1968**

Material examined: Eskişehir: 1♂, Mihaliçcık, Ahurüzü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1♂, Mihaliçcık, between Gürleyik-Yalınkaya villages 12th km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1♂, Mihaliçcık, between Sarayköy-Ahurüzü villages, 39°48'32.66"N/ 31°45'18.49"E, 990 m, 27.04.2012; 1♂, Sarıcakaya, eastern Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012, same locality 1♂, 12.07.2012.

Distribution in Turkey: Afyonkarahisar, Amasya, Ankara, Antalya, Aydın, Bayburt, Bolu, Burdur, Bursa, Çankırı, Çorum, Denizli, Erzincan, Erzurum, Gümüşhane, Isparta, İstanbul, İzmir, Kastamonu, Kahramanmaraş, Karaman, Kırşehir, Konya, Kütahya, Malatya, Manisa, Muğla, Samsun, Sinop, Sivas, Tokat, Uşak, Zonguldak (ANLAŞ 2009; FRISCH 2010; ANLAŞ & FRISCH 2014; SERT et al. 2013).

Comments: The species very common in Turkey first record for Eskişehir.

***Scopaeus debilis* HOCHHUTH 1851**

Material examined: Eskişehir: 2♂♂, Sarıcakaya, Lâçin-Alapınar yolu 5. km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 16.06.2012, same locality 1♂, 27.06.2012; 1♂, Tepebaşı, Çalkara, 39°59' 160"N/ 30°23' 547"E, 1050 m, 12.08.2012.

Distribution in Turkey: Adana, Adıyaman, Afyon, Ankara, Antalya, Aydın, Bingöl, Denizli, Diyarbakır, Hakkâri, Hatay, Isparta, İstanbul, İzmir, Kahramanmaraş, Kars, Kilis, Kocaeli, Manisa, Mardin, Mersin, Muğla, Van, Yozgat (ANLAŞ 2009; FRISCH 2010; ASSING 2013d; ANLAŞ & FRISCH 2014).

Comments: In Turkey, the species is common and distributed all over the country. The specimens recorded from above localities represent new record from Eskişehir.

***Scopaeus haemusensis* FRISCH 1997**

Material examined: Eskişehir: 1♂, Mihallıçcık, Otluk-Karacaören arası, Karacaören yol ayrımı, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012.

Distribution in Turkey: Bolu, Bursa, Çankırı, Eskişehir, İzmir, Kastamonu, Sinop (ANLAŞ 2009; ANLAŞ & FRISCH 2014; FRISCH 2010; SERT et al. 2013).

***Scopaeus laevigatus* (GYLLENHAL 1827)**

Material examined: Eskişehir: 1♂, Sarıcakaya, east of Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012; 22♂♂, 20♀♀, Sarıcakaya, Lâçin-Alapınar road 5th km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 27.06.2012; 3♂♂, 3♀♀, Mihallıçcık, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 10.08.2012; 1♂, Sarıcakaya, east of Düzköy, enter of Nallıhan road, 40°5'23.12"N/ 30°50'38.91"E, 244 m, 25.05.2013; Ankara: 1♂, Nallıhan, between Aşağıkavacık-Nallıhan villages 4th km, 40°10'14.55"N/ 31°15'6.90"E, 955 m, 12.08.2012.

Distribution in Turkey: Adana, Afyonkarahisar, Ağrı, Amasya, Ankara, Antalya, Artvin, Aydın, Balıkesir, Bingöl, Bitlis, Burdur, Bursa, Çankırı, Denizli, Diyarbakır, Edirne, Erzincan, Erzurum, Eskişehir, Giresun, Gümüşhane, Isparta, İstanbul, İzmir, Kahramanmaraş, Kars, Kastamonu, Kayseri, Kocaeli, Konya, Kütahya, Manisa, Muğla, Muş, Niğde, Rize Samsun, Sinop, Tokat, Trabzon, Uşak, Van, Yozgat (ANLAŞ 2009; FRISCH 2010; SERT et al. 2013; ANLAŞ & FRISCH 2014; ASSING 2014).

***Scopaeus pusillus* KIESENWETTER 1834**

Material examined: Eskişehir: 1♂, 1♀, Mihallıçcık, Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1047 m, 14.11.2012.

Distribution in Turkey: Afyonkarahisar, Ankara, Bolu, Çorum, Giresun, İzmir, Kastamonu, Konya, Kütahya, Manisa, Sinop (ANLAŞ 2009, ANLAŞ & FRISCH 2014).

Comments: The specimens from Eskişehir represent a new province record.

***Sunius melanocephalus* (FABRICIUS 1792)**

Material examined: Eskişehir: 1 ♂, Tepebaşı, between Tandır-Danişment villages, 39°53'30.03"N/30°42'22.15"E, 1200 m, 30.04.2012.

Distribution in Turkey: Adıyaman, Afyonkarahisar, Ankara, Antalya, Balıkesir, Bolu, Burdur, Erzincan, Eskişehir, Isparta, İstanbul, İzmir, Kars, Kastamonu, Kayseri, Kırşehir, Kocaeli, Kütahya, Manisa, Muğla, Rize, Sakarya, Samsun, Sinop, Yalova, Yozgat, Zonguldak (ANLAŞ 2009; TEZCAN & ANLAŞ 2009; SERT et al. 2013; ASSING 2013d; ASSING 2014).

Staphylininae Latreille, 1802***Creophilus maxillosus* (LINNAEUS, 1758)**

Material examined: Eskişehir: 3 ♀♀, Mihaliçcik, Lütüfiye, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 14.06.2012, same locality 6 ♂♂ 6 ♀♀ 26.06.2012, 2 ♂♂ 7 ♀♀ 12.07.2012 and 5 ♂♂ 8 ♀♀ 11.08.2012; 3 ♀♀, Mihaliçcik, between Sorkun- Lütüfiye, parting of the Çalcı way, 39°55'17.50"N/ 31°25'15.52"E, 1413 m, 14.06.2012, same locality 17 ♂♂, 23 ♀♀, 11.08.2012; 2 ♀♀, Mihaliçcik, between Narlı-Sekiören, 39°55'11.73"N/ 31°42'55.28"E, 1100 m, 25.06.2012, same locality 1 ♀ 11.07.2012 and 1 ♂ 1 ♀ 10.08.2012; 1 ♂♂, Mihaliçcik, between Gürleyik-Yalımkaya 6.km, 39°59'50.80"N/ 31°19'7.84"E, 1076 m, 26.06.2012, same locality 2 ♂♂ 1 ♀ 12.07.2012; 3 ♂♂, 1 ♀, Mihaliçcik, between Yeşilyurt-Çalkaya 2.km, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 26.06.2012, same locality 5 ♂♂ 1 ♀ 12.07.2012; 1 ♀, 1 ♂, Mihalgazi, exit of Sakarılıca, 39°58'42.35"N/ 30°35'39.31"E, 535 m, 28.06.2012; 5 ♂♂, Alpu, exit of Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 28.06.2012, same locality 6 ♂♂ 2 ♀♀ 15.11.2012; 5 ♂♂, 8 ♀♀, Mihaliçcik, road of Mihaliçcik-Hamidiye, 39°53'16.63"N/ 31°33'7.91"E, 1360 m, 12.07.2012; 1 ♂, Tepebaşı, road of Avlamış-Alpagut, 39°59'7.69"N/ 30°28'39.28"E, 810 m, 13.07.2012; 1 ♀, Tepebaşı, Bozdağ, 39°55'1.82"N/ 30°35'44.01"E, 1308 m, 13.07.2012, same locality 2 ♂♂ 1 ♀ 05.09.2012 and 3 ♀♀, 16.11.2012; 1 ♀, Mihaliçcik, exit of Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012; 7 ♂♂, 17 ♀♀, Mihaliçcik, between Güreş-Belen, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 10.08.2012; 1 ♀, Tepebaşı, road of Alpagut-Avlamış, 39°58'26.11"N/ 30°28'4.94"E, 1005 m, 12.08.2012; 5 ♂♂, 3 ♀♀, Tepebaşı, between Tekeciler-Atalantekke, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.08.2012; Ankara: 1 ♀, Nallıhan, between Osmanköy-Yenice villages, 40°49'29"N/30°54'49.70"E, 570 m, 27.06.2012.

Distribution in Turkey: Adana, Gaziantep, Hatay, İzmir, Kayseri, Manisa, Mersin, Mardin, Antalya, Erzurum, Iğdır, Siirt, Ankara, Eskişehir (ANLAŞ 2009; ÖZGEN et al. 2010; AKAY et al. 2014).

***Dinothenarus flavocephalus* (GOEZE, 1777)**

Material examined: Eskişehir: 1 ♂, Alpu, exit of Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 22.09.2011, same locality 1 ♂ 15.06.2012; 4 ♂♂, 2 ♀♀, Sarıcakaya, road of Alapınar-Lâçin, 40°02'499" N/ 30°49' 822" E, 1035 m, 22.09.2011; Bilecik: 1 ♂, İnhisar, between Hisarcık- İnhisar, 40°1.211"N/ 30°20.871"E, 795 m, 02.04.2012.

Distribution in Turkey: Eskişehir (AKAY et al. 2014).

Comments: The specimen from Bilecik represents a new province record.

***Emus hirtus* (LINNAEUS, 1758)**

Material examined: Eskişehir: 1 ♂, Sarıcakaya, road of Alapınar-Lâçin, 40°02'499"N/ 30°49'822"E, 1035 m, 21.08.2011; 4 ♂♂, 4 ♀♀, Alpu, between Özdenk-Bügdüz villages, 39°52'5.17"N/ 31°4'14.17"E, 870 m, 30.04.2012; 2 ♂♂, 1 ♀, Mihaliçcik, Güce village, 39°50'9.39"N/ 31°20'31.33"E, 994 m, 30.04.2012.

Distribution in Turkey: Ankara, Manisa, Eskişehir (ANLAŞ 2009; AKAY et al. 2014).

***Erichsonius subopacus* (HOCHHUTH, 1851)**

Material examined: Eskişehir: 1 ♂, Mihaliçcik, between Gürleyik-Yalınkaya villages, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 2 ♂♂, Mihaliçcik, between Yeşilyurt-Otluk villages, 40°0'55.85"N/ 31°10'53.23"E, 1370 m, 26.06.2012; 1 ♂, Sarıcakaya, east of Düzköy village, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012; 1 ♂, Mihaliçcik, between Otluk-Karacaören villages, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 12.07.2012; 1 ♂, Mihaliçcik, between Yalınkaya-Yeşilyurt villages, 39°58'33.41"N/ 31°13'50.30"E, 1200 m, 11.08.2012.

Distribution in Turkey: Ankara, Mersin (ANLAŞ 2009).

Comments: The specimens recorded from above localities represent new record from Eskişehir.

***Gabrius anatolicus* SMETANA, 1953**

Material examined: Eskişehir: 1 ♂, Tepebaşı, between Tekeçiler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011, same locality 8 ♂♂ 9 ♀♀ 13.08.2012 and 4 ♂♂ 9 ♀♀ 05.09.2012; 6 ♂♂, 1 ♀, Mihaliçcik, between Yalınkaya-Yeşilyurt villages, 39°58'33.41"N/ 31°13'50.30"E, 1200 m, 11.08.2012; 1 ♂, Alpu, exit of Başören, 39°57.074"N/ 30°59.285"E, 1044 m, 11.08.2012.

Distribution in Turkey: İzmir, Mersin, Konya, Gaziantep (ANLAŞ 2009; ÖZGEN & KHACHIKOV 2013).

Comments: Eskişehir is added to distribution of the species with above specimens.

***Gabrius astutoides* STRAND, 1946**

Material examined: Eskişehir: 1 ♂, Tepebaşı, between Tekeçiler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011, same locality 1 ♂ 13.08.2012.

Distribution in Turkey: Muğla, Antalya (ANLAŞ 2009; ANLAŞ & ROSE 2009b).

Comments: The specimens from Eskişehir represent a new province record.

***Gabrius nigrifolius* (GRAVENHORST, 1802)**

Material examined: Eskişehir: 1 ♀, Mihallıçık, Ahurözü village, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 2 ♂♂, 1 ♀, Mihallıçık, southwest of Koyunağıllı village, 39°58'49.98"N/ 31°38'36.90"E, 500 m, 21.09.2011; 1 ♂, Tepebaşı, Çalkara village, 39°59'160"N/ 30°23'547" E, 1050 m, 23.09.2011, same locality 2 ♀♀ 12.08.2012; 1 ♂, 3 ♀♀, Mihallıçık, between Gürleyik-Yalınkaya villages, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1 ♂, 1 ♀, Tepebaşı, between Tekeciler-Atalantekke, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011, same locality 1 ♂ 1 ♀ 13.07.2012 and 1 ♀ 13.08.2012; 1 ♂, Tepebaşı, Yukarı Danişment village, 39°52'45.00"N/ 30°41'48.60"E, 1170 m, 22.08.2011; 1 ♀, Alpu, exit of Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 23.08.2011; 1 ♂, 1 ♀, Alpu, Ağaçhisar village, 39°54'939"N, 31°08'941" E, 1196 m, 23.08.2011; 1 ♀, Sarıcakaya, road of Lâçin-Alapınar, 40°2'31.85"N/ 30°46'56.57"E, 355 m, 15.06.2012; 3 ♂♂, Sarıcakaya, road of Lâçin-Alapınar 5. km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 16.06.2012; 1 ♂, 2 ♀♀, Mihallıçık, between Otluk-Karacaören village, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012, same locality 1 ♂ 12.07.2012 and 1 ♂ 04.09.2012; 1 ♂, 1 ♀, Sarıcakaya, east of Düzköy village, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012; 1 ♀, Mihallıçık, between Gürleyik-Yeşilyurt, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012; 2 ♀♀, Tepebaşı, road of Avlamış-Alpagut, 39°58'15.30"N/ 30°27'43.59"E, 1005 m, 13.07.2012; 1 ♂, Mihallıçık, between Sekiören-Bahtiyar villages, 39°56'50.40"N/ 31°41'17.02"E, 680 m, 10.08.2012; 1 ♂, Mihallıçık, exit of Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012, same locality 1 ♀ 03.09.2012 and 1 ♂ 3 ♀♀ 24.05.2013; 1 ♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'16.78"N/ 30°31'8.84"E, 1055 m, 13.08.2012; 1 ♂, Mihallıçık, between Sekiören-Bahtiyar villages, 39°56'50.40"N/ 31°41'17.02"E, 680 m, 03.09.2012; Ankara: 1 ♂, Nallıhan, between Karahisargölcük-Öşürler villages, 40°6'6.95"N/ 31°5'24.47"E, 680 m, 27.06.2012; 1 ♂, Nallıhan, between Osmaniye-Yenice villages, 40°4'9.29"N/30°54'49.70"E, 570 m, 12.07.2012; 3 ♂♂, 3 ♀♀, Nallıhan, between Aşağıkavacık-Nallıhan villages, 40°10'14.55"N/ 31°15'6.90"E, 955 m, 12.08.2012.

Distribution in Turkey: Adana, Ankara, İzmir, Konya, Manisa, Mersin, Antalya, Mardin, Afyonkarahisar, Bursa, Elazığ, Tunceli (ANLAŞ 2009; ÖZGEN & KHACHIKOV 2013).

Comments: The specimens from Eskişehir represent a new province record.

***Gabrius ravaşinii* GRIDELLI, 1920**

Material examined: Eskişehir: 2 ♀♀, Mihallıçık, between Gürleyik-Yalınkaya villages 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1 ♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011; 1 ♀, Mihallıçık, Gürleyik, 39°59'21.78"N/ 31°20'29.34"E, 686 m, 14.06.2012; 1 ♀, Mihallıçık, between Yalınkaya-Yeşilyurt villages, 39°58'33.41"N/ 31°13'50.30"E, 1200 m, 11.08.2012.

Distribution in Turkey: Adana, Ankara, Kayseri, Manisa, Mersin, Niğde, İzmir, Bursa, Muş (ANLAŞ 2009; ÖZGEN & KHACHIKOV 2013).

Comments: The specimens from Eskişehir represent a new province record.

***Neobisnius procerulus* (GRAVENHORST, 1806)**

Material examined: Eskişehir: 1 ♂, Sarıcakaya, road of Lâçin-Alapınar 5. km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 16.06.2012; 2 ♂♂, 2 ♀♀, Sarıcakaya, east of Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012.

Distribution in Turkey: Adana, Antalya (ANLAŞ 2009; ANLAŞ & ROSE 2009b).

Comments: The specimens from Eskişehir represent a new province record.

***Neobisnius prolixus* (ERICHSON, 1840)**

Material examined: Eskişehir: 1 ♂, 1 ♀, Mihalıçcık, between Yalınkaya-Yeşilyurt villages, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 21.08.2011; 2 ♂♂, Sarıcakaya, road of Lâçin-Alapınar, 40°2'31.85"N/ 30°46'56.57"E, 355 m, 15.06.2012; 5 ♂♂, 3 ♀♀, Tepebaşı, between Tekeciler-Atalanteke villages, 39°57'16.78"N/ 30°31'8.84"E, 1055 m, 13.08.2012.

Distribution in Turkey: Ankara, Aydın, Bayburt, İzmir, Malatya, Manisa, Trabzon, Tunceli (ANLAŞ 2009).

Comments: Eskişehir is added to distribution of the species with above specimens.

***Ocypus curtippennis* MOTSCHULSKY, 1849**

Material examined: Eskişehir: 1 ♂, 2 ♀♀, Sarıcakaya, east of Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 01.04.2012; 1 ♂, 1 ♀, Mihalgazi, Demirciler village, 40°0'83.2"N/ 30°32'37.1"E, 220 m, 02.04.2012; 1 ♂, Mihalgazi, between Demirciler-Alpagut villages, 40°0'56.71"N/ 30°31'39.08"E, 198 m, 16.06.2012; 1 ♂, 1 ♀, Mihalgazi, exit of Sakarlıca, 39°58'42.35"N/ 30°35'39.31"E, 535 m, 16.06.2012, same locality 1 ♂, 13.08.2012; Ankara: 1 ♂, Nallıhan, between Osmanköy-Yenice villages, 40°4'9.29"N/ 30°54'49.70"E, 570 m, 12.07.2012, same locality 3 ♂♂ 15.11.2012.

Distribution in Turkey: Bursa, İstanbul, İzmir, Antalya, Hatay, Çanakkale, Adana (ANLAŞ 2009; ASSING 2013d).

Comments: Eskişehir and Ankara are added to distribution of the species with above specimens.

***Ocypus mus* (BRULLÉ, 1832)**

Material examined: Eskişehir: 1 ♀, Mihalıçcık, Gürleyik village, 39°59'13.92"N/ 31°20'30.24"E, 660 m, 22.09.2011; 1 ♀, Mihalıçcık, between Yalınkaya-Yeşilyurt villages, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 22.09.2011; 11 ♂♂, 15 ♀♀, Alpu, exit of Başören villages, 39°57'07.4"N/ 30°59'28.5"E, 1044 m, 22.09.2011, same locality 1 ♀ 01.04.2012; 1 ♂, Mihalıçcık, between Sorgun- Dinek villages, 39°57'63.4"N/ 31°23'77.7"E, 1123 m, 01.04.2012; 1 ♀, Mihalıçcık, Dinek village, 39°58'33.84"N/ 31°22'7.75"E, 763 m, 01.04.2012; 1 ♀, Tepebaşı, between Kavacık- Emirceoğlu villages, 39°52'42.1"N/ 30°27'92.3"E, 906 m, 02.04.2012; 4 ♂♂, 3 ♀♀, Mihalıçcık, between Güreş- Belen villages, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 27.04.2012, same locality 3 ♀♀ 13.06.2012, 1 ♂ 10.08.2012, 1 ♂ 03.09.2012 and 4 ♂♂ 5 ♀♀, 14.11.2012; 1 ♂, Mihalıçcık, east of Sorkun village, 39°55'17.53"N/ 31°25'15.31"E, 1425 m, 28.04.2012; 1 ♀, Mihalıçcık, road of Gürleyik- Yalınkaya,

39°59'40.64"N/ 31°16'9.04"E, 1250 m, 28.04.2012; 1 ♀, Mihalıçcık, Lütüfiye village, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 14.06.2012, same locality 1 ♂, 11.08.2012 and 2 ♂♂ 4 ♀♀ 15.11.2012; 1 ♂, Tepebaşı, road of Avlamış-Alpagut, 39°59'7.69"N/ 30°28'39.28"E, 810 m, 13.07.2012.

Distribution in Turkey: Ankara, İzmir, Manisa, Mersin, Muğla, Şanlıurfa, Trabzon, Kütahya, Isparta, Konya, Adana, Eskişehir (ANLAŞ 2009; ASSING 2013d; AKAY et al. 2014).

Ocybus picipennis FABRICIUS, 1793

Material examined: Eskişehir: 1 ♂, Mihalıçcık, between Sorgun- Dinek villages, 39°57.634"N/ 31°23.777"E, 1123 m, 01.04.2012; 2 ♂♂, Mihalıçcık, between Yeşilyurt-Çalkaya villages, 40°1'42.18"N/ 31°12'53.59"E, 1360 m, 28.04.2012; 1 ♂, Mihalıçcık, Lütüfiye village, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 14.06.2012; 1 ♂, Tepebaşı, Bozdağ village, 39°55'1.82"N/ 30°35'44.01"E, 1308 m, 16.06.2012, 2 ♂♂, 16.11.2012.

Distribution in Turkey: Afyonkarahisar, Ankara, Bolu, Isparta, İzmir, Kayseri, Manisa, Tunceli, Antalya, Konya, Eskişehir (ANLAŞ 2009; ASSING 2013d; FIDAN & ŞİRİN 2014).

Ocybus sericeicollis (MÉNÉTRIÉS, 1832)

Material examined: Eskişehir: 6 ♂♂, 2 ♀♀, Mihalıçcık, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1 ♂, Mihalıçcık, south of Kavak village, 39°54' 367" N, 31°37' 554" E, 930 m, 21.09.2011; 1 ♂, Mihalıçcık, between Gürleyik-Yalımkaya villages 12. km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 22.09.2011; 1 ♀, Tepebaşı, exit of Hekimdağ-Sakarlıca, 39°54' 886" N/ 30°34' 150" E, 1240 m, 23.09.2011; 2 ♂♂, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02' 499"N/30°49' 822"E, 1035 m, 02.12.2011; 1 ♂, Mihalıçcık, Üçbaşı village, 39°46.772"N/ 31°39.451"E, 875 m, 31.03.2012; 1 ♂, 1 ♀, Mihalıçcık, Ahurköy village, 39°45.958"N/ 31°33.760"E, 786 m, 31.03.2012; 2 ♂♂, Mihalıçcık, Dinek village, 39°58'33.84"N/ 31°22'7.75"E, 763 m, 01.04.2012; 1 ♂, Mihalıçcık, between Gürleyik- Akçaören villages, 40°1'45.54"N/ 31°20'4.08"E, 572 m, 01.04.2012; 1 ♀, Mihalıçcık, Çalkaya village, 40°3.067"N/ 31°15.441"E, 675 m, 01.04.2012; 1 ♀, Mihalıçcık, between Yeşilyurt-Çalkaya villages 4. km, 40°1'36.16"N/ 31°12'52.19"E, 1350 m, 01.04.2012; 1 ♂, 2 ♀♀, Mihalıçcık, between Güreş- Belen villages, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 27.04.2012; 1 ♀, Mihalıçcık, road of Gürleyik-Yalımkaya, 39°59'40.64"N/ 31°16'9.04"E, 1250 m, 28.04.2012; 1 ♂, Sarıcakaya, road of Alapınar-Lâçin 7. km, 40°1'25.16"N/ 30°49'9.79"E, 880 m, 16.11.2012.

Distribution in Turkey: Ankara, İzmir, Manisa, Şanlıurfa, Antalya, Erzurum, Isparta, Eskişehir (ANLAŞ 2009; JAPOSHVILI & ANLAŞ 2011; FIDAN & ŞİRİN 2014).

Ontholestes murinus (LINNAEUS, 1758)

Material examined: Eskişehir: 1 ♀, Tepebaşı, exit of Hekimdağ-Sakarlıca road, 39°54' 886" N/ 30°34' 150" E, 1240 m, 23.09.2011, same locality 1 ♀, 22.08.2011; 1 ♀, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02' 499" N/ 30°49' 822" E, 1035 m, 21.08.2011; 4 ♂♂, 6 ♀♀, Alpu, between Özdenk-Bügdüz villages, 39°52'5.17"N/ 31°4'14.17"E, 870 m, 30.04.2012; 3 ♂♂, 1 ♀, Mihalıçcık, Güce village, 39°50'9.39"N/ 31°20'31.33"E, 994 m, 30.04.2012; 1 ♂, Mihalıçcık, between Yeşilyurt-Çalkaya villages 4. km, 40°1'36.16"N/ 31°12'52.19"E, 1350 m, 14.06.2012; 2 ♂♂, Alpu, exit of Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 15.06.2012; 2 ♀♀, Mihalıçcık, between Otlu-Karacaören villages, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012; 1 ♀, Alpu, north of Başören, 39°58'56.79"N/ 30°57'45.35"E, 1093 m, 28.06.2012; 1 ♂, 1 ♀, Tepebaşı, road of Avlamış-Alpagut,

39°59'7.69"N/ 30°28'39.28"E, 810 m, 13.07.2012; 1 ♂, Mihallıçık, Güreş village 5. km, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012; 1 ♂, Mihallıçık, between Gürleyik-Yeşilyurt villages, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 11.08.2012; 1 ♂, Tepebaşı, road of Alpagut-Avlanmış, 39°58'26.11"/ 30°28'4.94"E, 1005 m, 12.08.2012; Ankara: 1 ♀, Nallıhan, between Osmanköy-Yenice villages, 40°4'9.29"N/30°54'49.70"E, 570 m, 27.06.2012.

Distribution in Turkey: İzmir, Kütahya, Bingöl, Erzurum, Gaziantep, Manisa, Erzurum, Isparta, Ankara, Eskişehir (ANLAŞ 2009; JAPOSHVILI & ANLAŞ 2011; AKAY et al. 2014).

***Philonthus caucasicus* NORDMANN, 1837**

Material examined: Eskişehir: 3 ♂♂, 1 ♀, Mihallıçık, Ahurözü, 39°47'10.36"N/31°42'55.21"E, 1035 m, 21.09.2011, 1 ♂, 20.08.2011; 1 ♂, Alpu, Ağaçhisar village, 39°54'939"N, 31°08'941" E, 1196 m, 23.08.2011; 1 ♀, Tepebaşı, road of Alpagut-Alpagut 4. km, 39°57'38.66"N/ 30°27'34.78"E, 1065 m, 12.08.2012.

Distribution in Turkey: Kırşehir, Mersin, Erzurum (ANLAŞ 2009).

Comments: The specimens from Eskişehir represent a new province record.

***Philonthus cochleatus* SCHEERPELTZ, 1937**

Material examined: Eskişehir: 3 ♂♂, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02'499" N/ 30°49'822" E, 1035 m, 22.09.2011, same locality 3 ♂♂, 2 ♀♀ 21.08.2011, 2 ♂♂, 4 ♀♀ 12.08.2012 and 1 ♂ 04.09.2012; 3 ♂♂, 1 ♀ Mihallıçık, Ömerköy village, 39°51'25.62"K/31°31'47.22"E, 1280 m, 20.08.2011; 1 ♂, 3 ♀♀ Alpu, road of Alapınar-Taycılar 3. km, 40°0'55.92"K/ 30°50'42.90"E, 1110 m, 21.08.2011; 1 ♂, 2 ♀♀ Mihallıçık, between Gürleyik-Yalınkaya 7. km, 39°59'29.64"K/ 31°18'48.88"E, 1135 m, 22.09.2011, same locality 2 ♂♂ 04.09.2012, 1 ♂ 12.07.2012; 1 ♂ Mihallıçık, between Gürleyik-Yeşilyurt, 39°59'30.88"K/31°15'29.49"E, 1210 m, 11.08.2012; 1 ♀ Tepebaşı, exit of Hekimdağ-Sakarılıca, 39°54'886" K/30°34'150" E, 1240 m, 13.07.2012.

Distribution in Turkey: Adana (ANLAŞ 2009).

Comments: The specimens from Eskişehir represent the second record from Turkey.

***Philonthus cognatus* STEPHENS, 1832**

Material examined: Eskişehir: 1 ♂, Mihallıçık, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1 ♀, Tepebaşı, Yakakayı village, 39°52'51.43"N/ 30°46'48.89"E, 865 m, 30.04.2012.

Distribution in Turkey: Mersin, Trabzon, Ardahan, Erzurum, Artvin, Kars (ANLAŞ 2009).

Comments: The specimens from Eskişehir represent a new province record.

***Philonthus concinnus* (GRAVENHORST, 1802)**

Material examined: Eskişehir: 5 ♂♂, 6 ♀♀, Mihallıçık, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1 ♂, Mihallıçık, south of Kavak village, 39°54'367"N, 31°37'554"E, 930 m,

21.09.2011; 2 ♂♂, 4 ♀♀, Mihalıçcık, between Gürleyik-Yalınkaya 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 22.09.2011; 1 ♂, 2 ♀♀, Mihalıçcık, between Gürleyik-Yalınkaya arası 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 22.09.2011; 2 ♂♂, Mihalıçcık, northwest of Yalınkaya, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 22.09.2011; 2 ♀♀, Alpu, road of Arıkaya-Belkese, 39°59'15.48"N / 31°3'50.04"E, 1355 m, 22.09.2011; 6 ♂♂, 4 ♀♀, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02'499" N/ 30°49'822"E, 1035 m, 22.09.2011; 1 ♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 23.09.2011; 1 ♂, 6 ♀♀, Tepebaşı, exit of Hekimdağ-Sakarılıca, 39°54'886"N/ 30°34'150"E, 1240 m, 23.09.2011; 1 ♂, 2 ♀♀, Mihalıçcık, Ahurözü village, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 20.08.2011; 2 ♂♂, 2 ♀♀, Mihalıçcık, Ömerköy village, 39°51'25.62"N/ 31°31'47.22"E, 1280 m, 20.08.2011, same locality 1 ♂ 31.03.2012; 1 ♀, Mihalıçcık, south of Çalçı village, 39°56'27.18"N/ 31°26'36.48"E, 1210 m, 21.08.2011; 1 ♂, 1 ♀, Mihalıçcık, Gürleyik village, 39°59'13.92"N/ 31°20'30.24"E, 660 m, 21.08.2011; 2 ♂♂, 4 ♀♀, Mihalıçcık, between Gürleyik-Yalınkaya 12. km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 4 ♂♂, 1 ♀, Alpu, road of Alapınar-Taycılar 3. km, 40°0'55.92"N/ 30°50'42.90"E, 1110 m, 21.08.2011; 1 ♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 22.08.2011; 1 ♀, Tepebaşı, Yukarı Danişment village, 39°52'45.00"N/ 30°41'48.60"E, 1170 m, 22.08.2011; 1 ♂, 3 ♀♀, Alpu, Ağaçhisar village, 39°54'939"N, 31°08'941"E E, 1196 m, 23.08.2011; 2 ♂♂, 3 ♀♀, Mihalıçcık, Ahurköy village, 39°45.958"N/ 31°33.760"E, 786 m, 31.03.2012; 1 ♂, Mihalıçcık, Güreş village, 39°55.096"N/ 31°35.530"E, 1012 m, 31.03.2012; 1 ♂, 2 ♀♀, Mihalıçcık, Çalkaya village, 40°3.067"N/ 31°15.441"E, 675 m, 01.04.2012; 1 ♀, Mihalıçcık, between Yeşilyurt-Çalkaya 4. km, 40°1'36.16"N/ 31°12'52.19"E, 1350 m, 01.04.2012; 1 ♀, Alpu, Özdenk village, 39°52.865"N/ 31°2.958"E, 899 m, 02.04.2012; 1 ♀, Beylikova, Yeniyurt village, 39°43.354"N/ 31°18.785"E, 751 m, 02.04.2012; 2 ♂♂, 2 ♀♀, Mihalıçcık, between Sarayköy-Ahurözü villages, 39°48'32.66"N/ 31°45'18.49"E, 990 m, 27.04.2012; 2 ♀♀, Mihalıçcık, between Narlı-Sekiören villages, 39°55'11.73"N/ 31°42'55.28"E, 1100 m, 27.04.2012; 1 ♀, Mihalıçcık, road of Subaşı waterfall, 39°59'44.34"N/ 31°19'58.53"E, 750 m, 28.04.2012; 2 ♀♀, Mihalıçcık, road of Gürleyik-Yalınkaya, 39°59'40.64"N/ 31°16'9.04"E, 1250 m, 28.04.2012; 1 ♀, Tepebaşı, Bozdağ, 39°55'1.82"N/ 30°35'44.01"E, 1308 m, 30.04.2012; 1 ♀, Tepebaşı, road of Yarımlar-Tandır, 39°55'15.19"N/ 30°40'17.76"E, 1312 m, 30.04.2012; 1 ♂, 4 ♀♀, Tepebaşı, Kozlucel village, 39°54'43.14"N/ 30°53'49.42"E, 900 m, 30.04.2012; 2 ♂♂, 4 ♀♀, Alpu, between Özdenk-Bügdüz, 39°52'5.17"N/ 31°4'14.17"E, 870 m, 30.04.2012; 2 ♀♀, Beylikova, between Doğanoglu-Bozan 3.5.km, 39°49'43.76"N/ 31°10'35.40"E, 862 m, 30.04.2012; 1 ♀, Mihalıçcık, Güce, 39°50'9.39"N/ 31°20'31.33"E, 994 m, 30.04.2012; 6 ♂♂, 15 ♀♀, Mihalıçcık, between Ahurözü-Sarayköy, 39°46'48.75"N/ 31°43'37.42"E, 980 m, 13.06.2012; 1 ♀, 1 ♂, Mihalıçcık, between Narlı-Sekiören 2.5. km, 39°53'42.42"N/ 31°44'9.35"E, 1100 m, 13.06.2012; 1 ♂, Mihalıçcık, road of Mihalıçcık-Hamidiye, 39°52'52.82"N/ 31°33'31.53"E, 1350 m, 13.06.2012; 1 ♂, 1 ♀, Mihalıçcık, Lütüfiye, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 14.06.2012, same locality 2 ♂♂ 2 ♀♀ 26.06.2012; 1 ♂, Mihalıçcık, road of Sorkun- Lütüfiye villages, 39°55'17.50"N/ 31°25'15.52"E, 1413 m, 14.06.2012; 3 ♂♂, 8 ♀♀, Mihalıçcık, between Gürleyik-Yalınkaya 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 14.06.2012; 3 ♂♂, 14 ♀♀, Mihalıçcık, between Yeşilyurt-Çalkaya 4.km, 40°1'36.16"N/ 31°12'52.19"E, 1350 m, 14.06.2012; 1 ♀, Alpu, Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 15.06.2012; 2 ♀♀, Alpu, north of Başören village, 39°58'19.89"N/ 30°58'5.57"E, 1126 m, 15.06.2012; 1 ♀, Mihalıçcık, between Demirciler-Alpagut villages, 40°0'56.71"N/ 30°31'39.08"E, 198 m, 16.06.2012; 2 ♂♂, 4 ♀♀, Tepebaşı, exit of Hekimdağ, 39°54' 886" N/30°34' 150" E, 1240 m, 16.06.2012; 2 ♂♂, Tepebaşı, Bozdağ, 39°55'1.82"N/ 30°35'44.01"E, 1308 m, 16.06.2012; 1 ♀, Mihalıçcık, north of Yalınkaya, 39°59'38.95"N/ 31°16'24.01"E, 1250 m, 26.06.2012; 2 ♂♂, Mihalıçcık, northwest of Yalınkaya, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 26.06.2012; 1 ♀, Mihalıçcık, Küçüksasa, 39°58'32.17"N/ 31°13'28.25"E, 1250 m, 26.06.2012; 3 ♀♀, Mihalıçcık, between Yeşilyurt-Otluk villages, 40°1'25.54"N/ 31°11'5.95"E, 1365 m, 26.06.2012; 1 ♂, Mihalıçcık, between Yeşilyurt-Çalkaya villages 2.km, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 26.06.2012; 1 ♀, Mihalıçcık, exit of Yeşilyurt 3. km, 40°0'55.85"N/ 31°10'53.23"E, 1370 m, 26.06.2012; 2 ♂♂, 2 ♀♀,

Mihalıçcık, between Otluk-Karacaören villages, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012, same locality 5 ♂♂ 9 ♀♀ 12.07.2012; 4 ♀♀, Sarıcakaya, east of Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012; 2 ♀♀, Tepebaşı, road of Avlamlı-Alpagut villages, 39°58'15.30"N/ 30°27'43.59"E, 1005 m, 28.06.2012; 3 ♂♂, 1 ♀, Sarıcakaya, Alapınar, village, 40°02' 499" N/ 30°49' 822" E, 1035 m, 28.06.2012; 1 ♀, Alpu, exit of Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 28.06.2012; 3 ♀♀, Mihalıçcık, north of Yalınkaya, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012; 1 ♀, Mihalıçcık, between Yeşilyurt-Çalkaya villages 2.km, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 12.07.2012; 1 ♂, Tepebaşı, between Çalkara-Behçetiye villages, 39°58'22.93"N/ 30°23'58.26"E, 1065 m, 13.07.2012; 1 ♂, 2 ♀♀, Tepebaşı, Kocaçobanpınarı village, 39°55'58.97"N/ 30°26'18.93"E, 1180 m, 13.07.2012; 1 ♂, 3 ♀♀, Tepebaşı, road of Avlamlı-Alpagut villages, 39°58'15.30"N/ 30°27'43.59"E, 1005 m, 13.07.2012; 1 ♂, 2 ♀♀, Tepebaşı, exit of Sakarlıca, 39°54' 886" N/ 30°34' 150" E, 1240 m, 13.07.2012; 3 ♂♂, Mihalıçcık, Ahurüzü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 10.08.2012; 1 ♀, Sarıcakaya, Alapınar village, 40°02' 499" N/ 30°49' 822" E, 1035 m, 04.09.2012; 1 ♀, Mihalıçcık, between Gürleyik-Yalınkaya villages 10. km, 39°59'29.64"N/ 31°18'48.88"E, 1274 m, 15.11.2012; Ankara: 2 ♂♂, 4 ♀♀, , Nallıhan, between Karahisargölcük-Öşürler villages, 40°6'6.95"N/ 31°5'24.47"E, 680 m, 27.06.2012; 3 ♂♂, 8 ♀♀, Nallıhan, between Osmanköy-Yenice villages, 40°4'9.29"N/30°54'49.70"E, 570 m, 27.06.2012; 1 ♀, Nallıhan, between Kavakköy-Osmanköy villages, 40°4'16.68"N/ 30°58'58.96"E, 835 m, 29.04.2012.

Distribution in Turkey: Adana, Ankara, Bolu, Kayseri, Konya, Manisa, Mersin, Karaman, Tunceli, Bingöl, Mardin, Antalya, Ardahan, Erzincan, Erzurum, Iğdır, Diyarbakır, Afyon, Isparta, Eskişehir (ANLAŞ 2009; ASSING 2013d; AKAY et al. 2014).

***Philonthus corruscus* (GRAVENHORST, 1802)**

Material examined: Eskişehir: 2 ♂♂, Mihalıçcık, Ahurüzü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1 ♀, Alpu, Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 22.09.2011, same locality 8 ♂♂ 8 ♀♀ 15.06.2012 and 1 ♀ 28.06.2012; 2 ♂♂, Tepebaşı, exit of Sakarlıca, 39°54' 886" N/ 30°34' 150" E, 1240 m, 23.09.2011; 1 ♂, 1 ♀, Tepebaşı, road of Yarımcı-Tandır villages, 39°55'15.19"N/ 30°40'17.76"E, 1312 m, 30.04.2012; 1 ♂, Mihalıçcık, Lütüfiye, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 14.06.2012, same locality 1 ♂ 26.06.2012 and 1 ♀ 12.07.2012; 1 ♂, Mihalıçcık, road of Sorkun-Lütüfiye villages, 39°55'17.50"N/ 31°25'15.52"E, 1413 m, 14.06.2012; 2 ♂♂, 4 ♀♀, Mihalıçcık, between Sarayköy-Ahurüzü villages, 39°48'32.66"N/ 31°45'18.49"E, 990 m, 25.06.2012; 1 ♀, Sarıcakaya, Alapınar village, 40°02' 499" N/ 30°49' 822" E, 1035 m, 28.06.2012; 1 ♂, Mihalıçcık, between Gürleyik-Yalınkaya 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 12.07.2012; 3 ♂♂, Tepebaşı, road of Avlamlı-Alpagut, 39°59'7.69"N/ 30°28'39.28"E, 810 m, 13.07.2012; 3 ♂♂, 3 ♀♀, Mihalıçcık, exit of Güreş village 5.km, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012; 1 ♂, Mihalıçcık, road of Mihalıçcık-Hamidiye, 39°52'52.82"N/ 31°33'31.53"E, 1360 m, 14.11.2012; Ankara: 1 ♂, Nallıhan, between Osmanköy-Yenice villages, 40°4'9.29"N/30°54'49.70"E, 570 m, 27.06.2012.

Distribution in Turkey: Adana, Ankara, İzmir, Mersin, Mardin, Eskişehir (ANLAŞ 2009; ÖZGEN et al. 2010; AKAY et al. 2014).

***Philonthus cruentatus* (GMELIN, 1790)**

Material examined: Eskişehir: 1 ♂, Sarıcakaya, road of Alapınar-Lâcin 4. km, 40°02' 499" N/ 30°49' 822" E, 1035 m, 22.09.2011; 1 ♀, Alpu, road of Alapınar-Taycılar 3. km, 40°0'55.92"N/ 30°50'42.90"E, 1110 m, 21.08.2011; 2 ♀♀, Alpu, between Özdenk-Büğdüz villages, 39°52'5.17"N/

31°4'14.17"E, 870 m, 30.04.2012; 2 ♂♂, 2 ♀♀, Beylikova, between Doğanoglu-Bozan villages 3,5.km, 39°49'43.76"N/ 31°10'35.40"E, 862 m, 30.04.2012; 1 ♀, Mihalıçcık, between Ahurözü-Sarayköy villages, 39°46'48.75"N/ 31°43'37.42"E, 980 m, 13.06.2012; 1 ♂, 1 ♀, Mihalıçcık, between Yeşilyurt-Çalkaya 4.km, 40°1'36.16"N/ 31°12'52.19"E, 1350 m, 14.06.2012; 1 ♀, Mihalıçcık, between Gürleyik-Yalımkaya villages 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 12.07.2012; 1 ♂, Mihalıçcık, Karacaören village, 40°0'25.91"N/ 31°7'25.08"E, 1115 m, 11.08.2012.

Distribution in Turkey: Denizli, İstanbul, Antalya (ANLAŞ 2009; ANLAŞ & ROSE 2009b).

Comments: The specimens from Eskişehir represent a new province record.

***Philonthus debilis* (GRAVENHORST, 1802)**

Material examined: Eskişehir: 4 ♂♂, Mihalıçcık, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 20.08.2011; 1 ♂, Mihalıçcık, between Gürleyik-Yalımkaya villages 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1 ♂, Tepebaşı, between Tekeçiler-Atalantekke villages, 39°57'42.19"N/30°30'32.30"E, 970 m, 22.08.2011, same locality 1 ♂ 13.07.2012; 1 ♂, Alpu, Ağaçhisar village, 39°54'939"N, 31°08'941" E, 1196 m, 23.08.2011; 2 ♂♂, Tepebaşı, between Tandır-Danışment villages, 39°53'30.03"N/30°42'22.15"E, 1200 m, 30.04.2012; 1 ♂, Mihalıçcık, Lütüfiye, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 14.06.2012; 5 ♂♂, Sarıcakaya, Alapınar village, 40°02' 499" N/ 30°49' 822" E, 1035 m, 28.06.2012, same locality 1 ♂ 04.09.2012; 1 ♂, Mihalıçcık, between Gürleyik-Yalımkaya villages 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 12.07.2012; 1 ♂, Alpu, Başören village, 39°57.074"N/ 30°59.285"E, 1044 m, 11.08.2012.

Distribution in Turkey: Adana, Ankara, Denizli, Mersin, Konya (ANLAŞ 2009; ASSING 2013d).

Comments: The specimens recorded from above localities represent new record from Eskişehir.

***Philonthus discoideus* (GRAVENHORST, 1802)**

Material examined: Eskişehir: 1 ♂, 1 ♀, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02'499" N/ 30°49'822"E, 1035 m, 22.09.2011.

Distribution in Turkey: Mersin (ANLAŞ 2009).

Comments: The specimen from Eskişehir represents second record from Turkey.

***Philonthus ebeninus* (GRAVENHORST, 1802)**

Material examined: Eskişehir: 1 ♀, Beylikova, between Doğanoglu-Bozan 3,5.km, 39°49'43.76"N/ 31°10'35.40"E, 862 m, 30.04.2012; 1 ♂, Mihalıçcık, Yeşilyurt village, 40°0'55.85"N/ 31°10'53.23"E, 1370 m, 26.06.2012; 1 ♂, 2 ♀♀, Sarıcakaya, Alapınar village, 40°02' 499" N/ 30°49' 822" E, 1035 m, 28.06.2012; 1 ♀, Mihalıçcık, between Yeşilyurt-Çalkaya 2.km, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 12.07.2012.

Distribution in Turkey: Adana, Bursa, İzmir, Mersin, Antalya, Eskişehir (ANLAŞ 2009; ANLAŞ & ROSE 2009b; AKAY et al. 2014).

***Philonthus intermedius* (LACORDAIRE, 1835)**

Material examined: Eskişehir: 1 ♀, Mihalıççık, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1 ♂, Alpu, parting of the Arıkaya-Belkese way, 39°59'15.48"N, 31°3'50.04"E, 1355 m, 22.09.2011; 2 ♀♀, Mihalıççık, Ahurköy village, 39°45.958'N/ 31°33.760'E, 786 m, 31.03.2012; 1 ♂, 1 ♀, Mihalıççık, Ömerköy village, 39°51'25.62"N/31°31'47.22"E, 1280 m, 31.03.2012; 1 ♂, Tepebaşı, road of Çavlum- Kızılcaören 3. km, 39°49.795'N/ 30°43.619'E, 813 m, 02.04.2012; 1 ♂, 3 ♀♀, Alpu, between Özdenk- Büğdüz villages, 39°52.865'N/ 31°2.958'E, 899 m, 02.04.2012; 2 ♀♀, Mihalıççık, road of Gürleyik- Yalınkaya, 39°59'40.64"N/ 31°16'9.04"E, 1250 m, 28.04.2012; 1 ♀, Mihalıççık, between Yalınkaya- Yeşilyurt villages, 40°0'31.20"N/ 31°13'25.93"E, 1300 m, 28.04.2012; 1 ♀, Tepebaşı, road of Yarımca-Tandır villages, 39°55'15.19"N/ 30°40'17.76"E, 1312 m, 30.04.2012; 1 ♂, Tepebaşı, between Tandır-Danışment, 39°53'30.03"N/ 30°42'22.15"E, 1200 m, 30.04.2012; 2 ♂♂, 3 ♀♀, Alpu, between Özdenk-Büğdüz villages, 39°52'5.17"N/ 31°4'14.17"E, 870 m, 30.04.2012; 2 ♂♂, 3 ♀♀, Beylikova, between Doğanoglu-Bozan 3,5.km, 39°49'43.76"N/ 31°10'35.40"E, 862 m, 30.04.2012; 1 ♂, Mihalıççık, between Gürleyik-Yalınkaya villages 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 14.06.2012; 1 ♂, Mihalıççık, Karacaören village, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 12.07.2012; 1 ♂, Sarıcakaya, Alapınar village, 40°02' 499" N/ 30°49' 822" E, 1035 m, 12.08.2012, same locality 1 ♀ 04.09.2012, 1 ♂ 16.11.2012, 1 ♂ 28.06.2012 and 9 ♂♂ 3 ♀♀ 22.09.2011; Bilecik: 1 ♂, 1 ♀, İnhisar, Hisarcık village, 40°1.211'N/ 30°20.871'E, 795 m, 02.04.2012.

Distribution in Turkey: Ankara, Denizli, İzmir, Kahramanmaraş, Mersin, Antalya, Mardin, Kocaeli (ANLAŞ 2009; ANLAŞ & ROSE 2009b; ASSING 2013d).

Comments: Eskişehir and Bilecik are added to distribution of the species with above specimens.

***Philonthus laminatus* (CREUTZER, 1799)**

Material examined: Eskişehir: 1 ♂, Mihalıççık, between Gürleyik-Yalınkaya 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 22.09.2011; 1 ♀, Mihalıççık, northwest of Yalınkaya village, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 22.09.2011; 31 ♂♂, 21 ♀♀, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02' 499" N/ 30°49' 822" E, 1035 m, 22.09.2011, same locality 1 ♂ 02.12.2011 and 1 ♂ 1 ♀ 28.06.2012; 3 ♀♀, Tepebaşı, exit of Sakarlıca, 39°54' 886" N/ 30°34' 150"E, 1240 m, 23.09.2011; 1 ♂, Alpu, between Özdenk- Büğdüz villages, 39°52.865'N/ 31°2.958'E, 899 m, 02.04.2012; 1 ♂, Mihalıççık, road of Subaşı waterfall, 39°59'44.34"N/ 31°19'58.53"E, 750 m, 28.04.2012; 1 ♂, Mihalıççık, between Yalınkaya- Yeşilyurt villages, 40°0'31.20"N/ 31°13'25.93"E, 1300 m, 28.04.2012; 1 ♀, Tepebaşı, between Tandır-Danışment villages, 39°53'30.03"N/ 30°42'22.15"E, 1200 m, 30.04.2012; 1 ♂, 2 ♀♀, Beylikova, between Doğanoglu-Bozan villages 3,5.km, 39°49'43.76"N/ 31°10'35.40"E, 862 m, 30.04.2012; 1 ♀, Mihalıççık, Karacaören village, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012; 1 ♂, 3 ♀♀, Tepebaşı, Bozdağ, 39°55'1.82"N/ 30°35'44.01"E, 1308 m, 16.11.2012; Ankara: 1 ♀, Nallıhan, between Osmanköy-Yenice villages, 40°4'9.29"N/30°54'49.70"E, 570 m, 27.06.2012.

Distribution in Turkey: Ankara, Balıkesir, Muğla, Tunceli, Erzurum, Eskişehir (ANLAŞ 2009; AKAY et al. 2014).

***Philonthus nitidicollis* (LACORDAIRE, 1835)**

Material examined: Eskişehir: 1 ♂, 1 ♀, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02' 499" N/ 30°49' 822" E, 1035 m, 22.09.2011, same locality 1 ♀, 04.09.2012; 1 ♀, Alpu, between Özdenk-

Bügdüz villages, 39°52'5.17"N/ 31°4'14.17"E, 870 m, 30.04.2012; 1 ♂, Mihaliçcik, north of Yalınkaya, 39°59'38.95"N/ 31°16'24.01"E, 1250 m, 26.06.2012; 1 ♂, 1 ♀, Mihaliçcik, Yeşilyurt village, 40°0'55.85"N/ 31°10'53.23"E, 1370 m, 26.06.2012; 1 ♂, Mihaliçcik, between Gürleyik-Yalınkaya villages 10. km, 39°59'29.64"N/ 31°18'48.88"E, 1274 m, 15.11.2012.

Distribution in Turkey: Adana, Ankara, Gaziantep, İzmir, Konya, Antalya, Bingöl, Siirt, Isparta (ANLAŞ 2009; ANLAŞ & ROSE 2009b; JAPOSHVILI & ANLAŞ 2011).

Comments: The specimens collected from Eskişehir represent a new province record.

***Philonthus politus* (LINNAEUS, 1758)**

Material examined: Eskişehir: 1 ♂, 1 ♀, Mihaliçcik, Lütfiye, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 12.07.2012, same locality 1 ♀ 11.08.2012; 1 ♂, 1 ♀, Mihaliçcik, Çalıcı village, 39°55'17.50"N/ 31°25'15.52"E, 1413 m, 11.08.2012; 2 ♀♀, Tebebaşı, Bozdağ village, 39°55'1.82"N/ 30°35'44.01"E, 1308 m, 16.11.2012.

Distribution in Turkey: Mersin, Mardin, Ankara, Eskişehir (ANLAŞ 2009; ÖZGEN et al. 2010; AKAY et al. 2014).

***Philonthus quisquiliarius* (GYLLENHAL, 1810)**

Material examined: Eskişehir: 15 ♂♂, 13 ♀♀, Sarıcakaya, road of Lâçin-Alapınar 5. km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 16.06.2012; 1 ♀, Mihaliçcik, northwest Yalınkaya, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 26.06.2012; 4 ♂♂, 1 ♀, Sarıcakaya, east of Düzköy, 40°5'17.72"N/ 30°50'35.48"E, 250 m, 27.06.2012, 1 ♂, 12.07.2012; 1 ♀, Mihaliçcik, road of Mihaliçcik-Hamidiye, 39°53'24.15"N/ 31°33'19.27"E, 1385 m, 11.07.2012; 4 ♂♂, Mihaliçcik, between Gürleyik-Yalınkaya villages 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 12.07.2012.

Distribution in Turkey: Adana, Ankara, İzmir, Mersin, Siirt, Konya (ANLAŞ 2009; ASSING 2013d).

Comments: The specimens recorded from above localities represent new record from Eskişehir.

***Philonthus rectangulus* SHARP, 1874**

Material examined: Eskişehir: 2 ♂♂, 2 ♀♀, Mihaliçcik, Gürleyik village, 39°59'13.92"N/ 31°20'30.24"E, 660 m, 22.09.2011; 1 ♂, 1 ♀, Mihaliçcik, Ömerköy village, 39°51'25.62"N/31°31'47.22"E, 1280 m, 20.08.2011, 1 ♂, 31.03.2012; 1 ♀, Mihaliçcik, between Güreş-Belen villages, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 20.08.2011; 1 ♀, Alpu, road of Alapınar-Taycılar villages 3. km, 40°0'55.92"N/ 30°50'42.90"E, 1110 m, 21.08.2011; 1 ♀, Tebebaşı, Çalkara village, 39°59' 160"N/ 30°23' 547"E, 1050 m, 22.08.2011; 8 ♂♂, 15 ♀♀, Tebebaşı, exit of Sakarılıca, 39°54'886"N/ 30°34' 150" E, 1240 m, 22.08.2011; 1 ♂, Tebebaşı, Kozlubl village, 39°54'43.14"N/ 30°53'49.42"E, 900 m, 23.08.2011; 1 ♀, Sarıcakaya, road of Lâçin-Alapınar 5. km, 40°1'48.47"N/ 30°48'8.64"E, 580 m, 16.06.2012, same locality 1 ♂ 28.06.2012, 1 ♂, 12.08.2012 and 1 ♀, 21.08.2011; 1 ♀, Mihaliçcik, road of Mihaliçcik-Hamidiye, 39°53'16.63"N/ 31°33'7.91"E, 1360 m, 12.07.2012; 1 ♂, Mihaliçcik, road of Gürleyik-Yalınkaya 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m,

12.07.2012; 1 ♂, Mihalıçcık, Lütfiye village, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 11.08.2012; 1 ♂, Mihalıçcık, Karacaören village, 40°0'25.91"N/ 31°7'25.08"E, 1115 m, 11.08.2012.

Distribution in Turkey: Ankara, Şanlıurfa, Tunceli, Erzurum, Trabzon (ANLAŞ 2009; KESDEK et al. 2009).

Comments: The specimens represent new record from Eskişehir.

***Philonthus rubripennis* STEPHENS, 1832**

Material examined: Eskişehir: 2 ♂♂, 1 ♀, Mihalıçcık, Karacaören village, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012; 1 ♂, 1 ♀, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.07.2012, same locality 1 ♂ 2 ♀♀ 13.08.2012.

Distribution in Turkey: Mersin, Tunceli, Erzurum (ANLAŞ 2009; KESDEK et al. 2009).

Comments: The materials from Eskişehir are new record for middle Anatolian region.

***Philonthus rufimanus* HEER, 1839**

Material examined: Eskişehir: 2 ♂♂, 1 ♀, Mihalıçcık, southwest of Koyunağıl village, 39°58'49.98"N/ 31°38'36.90"E, 500 m, 19.08.2011; 1 ♀, Mihalıçcık, Çukurören village, 39°56'18.60"N/ 31°32'34.44"E, 935 m, 20.08.2011; 1 ♂, Mihalıçcık, northwest of Yalımkaya village, 39°59'2.31"N/ 31°13'45.30"E, 1080 m, 21.08.2011, same locality 1 ♂ 26.06.2012; 3 ♂♂, Sarıcakaya, Beyköy village, 40°5'17.28"N/ 30°45'55.85"E, 250 m, 29.04.2012; 1 ♂, 2 ♀♀, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'16.78"N/ 30°31'8.84"E, 1055 m, 13.08.2012.

Distribution in Turkey: Aydın, Bayburt, İzmir, Kilis, Mersin, Manisa, Tunceli, Eskişehir (ANLAŞ 2009; ANLAŞ & ROSE 2009b; FIDAN & ŞİRİN 2014).

***Philonthus varians* (PAYKULL, 1789)**

Material examined: Eskişehir: 1 ♂, Mihalıçcık, Karacaören village, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012; Ankara: 1 ♂, Nallıhan, between Osmaniye-Yenice villages, 40°4'9.29"N/30°54'49.70"E, 570 m, 12.07.2012.

Distribution in Turkey: Mersin, Sinop, Eskişehir (ANLAŞ 2009; ASSING 2010c; AKAY et al. 2014).

***Platydracus flavopunctatus* (LATREILLE 1804)**

Material examined: Eskişehir: 1 ♂, Mihalıçcık, Ahürüzü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011; 1 ♂, 3 ♀♀, Alpu, road of Alapınar-Taycılar 3. km, 40°0'55.92"N/ 30°50'42.90"E, 1110 m, 21.08.2011, same locality 1 ♂ 1 ♀, 21.08.2011 and 3 ♂♂ 3 ♀♀ 12.08.2012; 1 ♂, 2 ♀♀, Mihalıçcık, north of Yalımkaya village, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012, same locality 1 ♂

11.08.2012; 44 ♂♂, 22 ♀♀, Mihalıçcık, Güreş village, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 10.08.2012, same locality 2 ♂♂ 3 ♀♀ 03.09.2012.

Distribution in Turkey: Adana, Afyonkarahisar, Mersin, Ankara, Eskişehir (ANLAŞ 2009; ÖZDEMİR & SERT 2008; AKAY et al. 2014).

***Platydracus stercorarius* (OLIVIER, 1795)**

Material examined: Eskişehir: 1 ♂, Mihalıçcık, between Gürleyik-Yalımkaya 6.km, 39°59'50.80"N/ 31°19'7.84"E, 1076 m, 26.06.2012; 1 ♀, Alpu, Başören village, 39°57.074'N/ 30°59.285'E, 1044 m, 28.06.2012; Ankara: 2 ♂♂, 1 ♀, Nallıhan, between Osmanköy-Yenice villages, 40°49.29'N/30°54'49.70"E, 570 m, 27.06.2012, same locality 1 ♀, 12.07.2012.

Distribution in Turkey: Rize, Trabzon, Ardahan, Artvin, Erzurum, Kars, Konya (ANLAŞ 2009; KESDEK et al. 2009).

Comments: Eskişehir and Ankara are added to distribution of the species with above specimens

***Quedius cinctus* (PAYKULL, 1790)**

Material examined: Eskişehir: 7 ♂♂, 5 ♀♀, Sarıcakaya, road of Alapınar-Lâcin 4. km, 40°02' 499" N/ 30°49' 822" E, 1035 m, 22.09.2011, same locality 1 ♂ 02.12.2011; 1 ♂, Mihalıçcık, between Gürleyik-Yalımkaya 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 01.12.2011; 1 ♂, Tebebaşı, road of Yarımcı-Tandır villages, 39°55'15.19"N/ 30°40'17.76"E, 1312 m, 30.04.2012; 1 ♀, Tebebaşı, between Tandır-Danışment villages, 39°53'30.03"N/ 30°42'22.15"E, 1200 m, 30.04.2012; 1 ♂, Mihalıçcık, north of Yalımkaya, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012; 1 ♂, Tebebaşı, between Çalkara-Behçetiye villages, 39°58'22.93"N/ 30°23'58.26"E, 1065 m, 13.07.2012.

Distribution in Turkey: Bolu, İstanbul, İzmir, Karaman, Mersin, Rize, Antalya, Siirt, Eskişehir (ANLAŞ 2009; ANLAŞ & ROSE 2009b; ASSING 2013d; AKAY et al. 2014).

***Quedius levicollis* (BRULLE, 1832)**

Material examined: Eskişehir: 1 ♂, Mihalıçcık, Dinek village, 39°58'33.84"N/ 31°22'7.75"E, 763 m, 01.04.2012; 2 ♀♀, Mihalıçcık, between Çalkaya- Süleler villages, 40°3.125'N/ 31°13.348'E, 573 m, 01.04.2012.

Distribution in Turkey: Adana, Ankara, Manisa, İzmir, Erzurum, Çanakkale (ANLAŞ 2009; SURGUT & VARLI 2012).

Comments: The specimens from Eskişehir represent a new record from Turkey.

***Quedius ochripennis* (MENETRIES, 1802)**

Material examined: Eskişehir: 1 ♂, Mihalıçcık, southwest of Koyunağılı village, 39°58'49.98"N/ 31°38'36.90"E, 500 m, 21.09.2011; 2 ♀♀, Alpu, Başören village, 39°57.074'N/ 30°59.285'E, 1044 m,

22.09.2011, same locality 1 ♀, 28.06.2012; 3 ♂♂, 1 ♀, Tepebaşı, Sakarlıca village, 39°54' 88" N/ 30°34' 150" E, 1240 m, 23.09.2011; 1 ♀, Mihalıcık, Hamidiye village, 39°51'58.92"N, 31°35'45.78"E, 1505 m, 01.12.2011; 1 ♀, Mihalıcık, south of Çalçı village, 39°56'27.18"N/31°26'36.48"E, 1210 m, 21.08.2011; 1 ♀, Tepebaşı, between Tandır-Danışment villages, 39°53'30.03"N/ 30°42'22.15"E, 1200 m, 30.04.2012; 3 ♀♀, Mihalıcık, between Ahurözü-Sarayköy villages, 39°46'48.75"N/ 31°43'37.42"E, 980 m, 13.06.2012; 1 ♂, Mihalıcık, Lütüfiye, 39°54'3.45"N/ 31°27'45.80"E, 1560 m, 26.06.2012, same locality 1 ♂ 1 ♀ 15.11.2012; 1 ♂, Mihalıcık, Güreş village 5. km, 39°55'14.49"N/ 31°34'18.96"E, 1060 m, 11.07.2012, same locality 31 ♂♂ 17 ♀♀ 14.11.2012; 1 ♂, Mihalıcık, between Narlı-Sekiören villages, 39°55'11.73"N/ 31°42'55.28"E, 980 m, 14.11.2012; Ankara: 1 ♂, 2 ♀♀, Nallıhan, between Yenice-Osmanköy villages, 549m, 40°4'8.70"N/ 30°54'48.18"E, 15.11.2012. Distribution in Turkey: Hatay, İstanbul, Kayseri, Adana, Mardin, Isparta (ANLAŞ 2009; JAPOSHVILI & ANLAŞ 2011).

Comments: The specimen recorded from Eskişehir is first record for province.

***Quedius scintillans* (GRAVENHORST, 1806)**

Material examined: Eskişehir: 1 ♂, Mihalıcık, between Sarayköy-Ahurözü villages, 39°48'32.66"N/ 31°45'18.49"E, 990 m, 27.04.2012; 1 ♂, Mihalıcık, Karacaören village, 40°0'17.41"N/ 31°7'37.39"E, 1150 m, 26.06.2012; 1 ♂, Tepebaşı, between Çalkara-Behçetiye villages, 39°58'22.93"N/ 30°23'58.26"E, 1065 m, 13.07.2012; 1 ♀, Beylikova, between Doğanoglu-Bozan villages, 39°49'44.52"N/ 31°10'34.34"E, 863 m, 26.05.2013.

Distribution in Turkey: Denizli, İzmir, Antalya (ANLAŞ 2009; ANLAŞ & ROSE 2009b).

Comments: The materials from Eskişehir are new record for middle Anatolian region.

***Quedius umbrinus* ERICHSON, 1839**

Material examined: Eskişehir: 1 ♂, Tepebaşı, between Tekeçiler-Atalantekke villages, 39°57'42.19"N/ 30°30'32.30"E, 970 m, 13.07.2012.

Distribution in Turkey: Artvin, Bolu, Bursa, Düzce, Erzurum, Hatay, İstanbul, Kastamonu, Konya, Mersin, Tunceli, Sakarya (ANLAŞ 2009; ASSING 2013d).

Comments: The species is recorded for the first time from Eskişehir.

***Rabigus pullus* (NORDMANN, 1837)**

Material examined: Eskişehir: 1 ♂, 1 ♀, Mihalıcık, between Gürleyik-Yalımkaya villages 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1 ♀, Tepebaşı, between Sulukarağaç-Tekeçiler villages, 39°56'13.74"N/ 30°29'54.35 "E, 1135 m, 29.04.2012; 1 ♂, Mihalıcık, north of Yalımkaya village, 39°59'30.88"N/ 31°15'29.49"E, 1210 m, 12.07.2012; 1 ♂, Mihalıcık, Güreş village, 39°55'12.74"N/ 31°34'18.68"E, 1047 m, 24.05.2013; 1 ♂, Mihalıcık, Yeşilyurt village, 40°1'2.88"N/ 31°11'54.48"E, 1305 m, 25.05.2013.

Distribution in Turkey: Kayseri (FIRAT & SERT, 2014).

Comments: The specimen from Eskişehir represents second record from Turkey.

***Staphylinus caesareus* CEDERHJELM, 1798**

Material examined: Eskişehir: 1 ♀, Mihallıçık, south of Çalıcı village, 39°56'27.18"N/31°26'36.48"E, 1210 m, 21.08.2011.

Distribution in Turkey: Adıyaman, Ankara, Giresun, Kayseri, Malatya, Mersin, Niğde, Trabzon, Tunceli, Antalya, Ardahan, Artvin, Erzincan, Erzurum, Kars, Konya, Isparta (ANLAŞ 2009; ANLAŞ & ROSE 2009b; JAPOSHVILI & ANLAŞ 2011).

Comments: It is widely distributed in Turkey, but species was unknown from the Eskişehir province.

***Gauropterus sanguinipennis* (KOLENATI, 1846)**

Material examined: Eskişehir: 1 ♂, 2 ♀♀, Mihallıçık, northwest of Yalımkaya, 39°59'2.31"N/31°13'45.30"E, 1080 m, 22.09.2011, same locality 1 ♂ 4 ♀♀ 21.08.2011; 3 ♂♂, 5 ♀♀, Mihallıçık, Dinek village, 39°58'34.06"N/31°22'7.68"E, 755 m, 28.04.2012; 1 ♀, Sarıcakaya, between Dağküplü-Mayıslar villages, 40°1'28.63"N/30°39'18.26"E, 285 m, 28.06.2012; 1 ♂, 1 ♀, Sarıcakaya, east of Düzköy village, 40°5'17.72"N/30°50'35.48"E, 250 m, 12.07.2012; 1 ♀, Sarıcakaya, road of Lâçin-Alapınar 2,5. km, 40°2'31.85"N/30°46'56.57"E, 355 m, 12.08.2012; 1 ♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'16.78"N/30°31'8.84"E, 1055 m, 13.08.2012; 2 ♂♂, 2 ♀♀, Mihallıçık, Gürleyik village, 39°59'15.84"N/31°20'26.78"E, 662 m, 25.05.2013; Ankara: 2 ♂♂, 1 ♀, Nallıhan, between Karahisargölcük-Meyildere villages, 40°8'29.29"N/31°8'59.81"E, 587 m, 25.05.2013, 1 ♀, Nallıhan, between Aşağıkavacık-Nallıhan villages 4. km, 40°10'14.55"N/31°15'6.90"E, 955 m, 12.08.2012.

Distribution in Turkey: Adana, Amasya, Ankara, Antalya, Batman, Bayburt, Bilecik, Bingöl, Bitlis, Bursa, Erzurum, Eskişehir, Gaziantep, Hakkâri, Hatay, Isparta, İzmir, Kars, Kastamonu, Konya, Malatya, Manisa, Mersin, Muğla, Niğde, Sakarya, Siirt, Şırnak, Tunceli, Van, Zonguldak, Erzincan, Erzurum, Iğdır, Kars, Niğde, Sakarya (ANLAŞ 2009; ASSING 2009, 2013d).

***Gauropterus sanguinipes* (REITTER, 1889)**

Material examined: Ankara: 1 ♀, Nallıhan, between Karahisargölcük-Öşürler villages, 40°6'6.95"N/31°5'24.47"E, 680 m, 27.06.2012; Eskişehir: 1 ♂, 2 ♀♀, Sarıcakaya, east of Düzköy village, 40°5'17.72"N/30°50'35.48"E, 250 m, 27.06.2012.

Distribution in Turkey: Ankara, Bilecik, Bolu, Diyarbakır, Isparta, İstanbul, Kilis, Kastamonu, Konya, Mersin, Sakarya, Manisa (ANLAŞ 2009; ASSING 2009).

Comments: The specimen from Eskişehir represents a new province record.

***Gyrophynus fracticornis* (O. MÜLLER, 1776)**

Material examined: Eskişehir: 5 ♂♂, 3 ♀♀, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02'499"N/30°49'822"E, 1035 m, 22.09.2011, same locality 1 ♂ 02.12.2011, 3 ♂♂ 8 ♀♀ 28.06.2012, 1 ♀

04.09.2012 and 2 ♀♀ 16.11.2012; 1 ♂, 1 ♀, Tepebaşı, exit of Sakarılıca, 39°54'886"N/ 30°34'150"E, 1240 m, 23.09.2011; 1 ♀, Tepebaşı, Atalantekke village, 39°57'47.22"N, 30°32'18.18"E, 1165 m, 02.12.2011; 1 ♂, Mihallıçık, Ömerköy village, 39°51'25.62"N/31°31'47.22"E, 1280 m, 31.03.2012; 1 ♀, Mihallıçık, Çalkaya village, 40°3.067"N/ 31°15.441"E, 675 m, 01.04.2012; 1 ♀, Tepebaşı, Kocaçobanpınarı village, 39°55'58.97"N/ 30°26'18.93"E, 1180 m, 13.07.2012.

Distribution in Turkey: Ankara, Giresun, İzmir, Manisa, Muğla, Ordu, Gaziantep, Kahramanmaraş (ANLAŞ 2009; ANLAŞ & ROSE 2009b).

Comments: The species is recorded for the first time from Eskişehir.

***Leptacinus batychrus* (GYLLENHAL, 1827)**

Material examined: Eskişehir: 1 ♂, Mihallıçık, Ahurözü, 39°47'10.36"N/ 31°42'55.21"E, 1035 m, 21.09.2011, same locality 15 ♂♂ 2 ♀♀ 20.08.2011; 2 ♀♀, Mihallıçık, southwest of Koyunağılı village, 39°58'49.98"N/ 31°38'36.90"E, 500 m, 21.09.2011; 1 ♂, Mihallıçık, between Güreş-Belen villages, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 20.08.2011; 1 ♀, Mihallıçık, between Gürleyik-Yalınkaya 12.km, 39°59'40.51"N/ 31°16'9.25"E, 1220 m, 21.08.2011; 1 ♀, Alpu, road of Alapınar-Taycılar 3. km, 40°0'55.92"N/ 30°50'42.90"E, 1110 m, 21.08.2011; 1 ♀, Tepebaşı, Çalkara, 39°59' 160"N/ 30°23' 547"E, 1050 m, 22.08.2011; 2 ♀♀, Tepebaşı, Kozlubele village, 39°54'43.14"N/ 30°53'49.42"E, 900 m, 23.08.2011; 1 ♂, Alpu, Ağaçisar village, 39°54'939"N, 31°08'941" E, 1196 m, 23.08.2011; 2 ♀♀, Tepebaşı, road of Yarımca-Tandır villages, 39°55'15.19"N/ 30°40'17.76"E, 1312 m, 30.04.2012; 1 ♂, Sarıcakaya, road of Lâçin-Alapınar 2,5. km, 40°2'31.85"N/ 30°46'56.57"E, 355 m, 15.06.2012, same locality 1 ♀ 16.06.2012; 1 ♀, Mihallıçık, north of Otluk village, 40°2'2.57"N/ 31°8'2.95"E, 1250 m, 26.06.2012; 2 ♂♂, Sarıcakaya, Alapınar village, 40°02' 499" N/ 30°49' 822" E, 1035 m, 28.06.2012; 1 ♂, 4 ♀♀, Mihallıçık, between Gürleyik-Yalınkaya villages 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 12.07.2012; 1 ♂, Mihallıçık, Yeşilyurt village, 39°58'44.52"N/ 31°11'1.53"E, 1425 m, 12.07.2012; 1 ♂, Mihallıçık, between Yeşilyurt-Çalkaya villages 2.km, 40°1'3.61"N/ 31°11'55.96"E, 1307 m, 12.07.2012; 1 ♂, Mihallıçık, Karacaören village, 40°0'25.91"N/ 31°7'25.08"E, 1115 m, 11.08.2012; 1 ♂, Tepebaşı, between Tekeciler-Atalantekke villages, 39°57'16.78"N/ 30°31'8.84"E, 1055 m, 13.08.2012.

Distribution in Turkey: Artvin, Bolu, Bursa, Hakkâri, Van, Antalya (ANLAŞ 2009; ANLAŞ & ROSE 2009b).

Comments: The species is recorded for the first time from Eskişehir.

***Leptacinus intermedius* DONISTHORPE, 1936**

Material examined: Eskişehir: 1 ♂, Sarıcakaya, road of Alapınar-Lâçin 4. km, 40°02'499" N/ 30°49'822" E, 1035 m, 21.08.2011, same locality 1 ♂ 1 ♀ 28.06.2012 and 1 ♀ 16.06.2012; 1 ♂, Alpu, Ağaçisar village, 39°54'939"N, 31°08'941"E, 1196 m, 23.08.2011; 2 ♂♂, Mihallıçık, between Gürleyik-Yalınkaya 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 12.07.2012.

Distribution in Turkey: Adana, İstanbul, Konya, Osmaniye, Mardin (ANLAŞ 2009; ÖZGEN et al. 2010).

Comments: The species is recorded for the first time from Eskişehir.

***Leptacinus pusillus* (STEPHENS, 1833)**

Material examined: Eskişehir: 1 ♂, Mihalıçcık, between Gürleyik-Yalımkaya 7. km, 39°59'29.64"N/ 31°18'48.88"E, 1135 m, 12.07.2012.

Distribution in Turkey: Not locality cited (ANLAŞ 2009).

Comments: This complete locality is recorded for the first time from Turkey with this study.

***Xantholinus audrasi* COIFFAIT, 1956**

Material examined: Eskişehir: 1 ♂, Mihalıçcık, between Güreş-Belen villages, 39°54'6.88"N/ 31°32'9.71"E, 1220 m, 25.06.2012; 1 ♂, Tepebaşı, between Çalkara-Behçetiye villages, 39°58'22.93"N/ 30°23'58.26"E, 1065 m, 13.07.2012; 1 ♂, Sarıcakaya, road of Alapınar-Lâçin 7.km, 40°1'25.16"N/ 30°49'9.79"E, 880 m, 16.11.2012.

Distribution in Turkey: Ankara, Antalya, Ardahan, Artvin, Bolu, Burdur, Çankırı, Erzincan, Erzurum, Giresun, İzmir, Manisa, Mersin, Muğla, Tunceli, Ardahan, Erzurum, Kars, Kocaeli, Sakarya, Adana, Samsun, Amasya, Tokat, Afyon, Edirne, Gaziantep, Kahramanmaraş, Kayseri, Konya (ANLAŞ 2009, 2014a; ASSING 2013d).

Comments: It is widely distributed in Turkey, but species was unknown from the Eskişehir province.

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Buchbesprechungen

FROST W. (ed. T. Carnaby): **The Antelope of Africa**. – Jacana Media, Auckland Park, South Africa, 2014. 358 S.

“The Antelope of Africa” ist **der** erste Feldführer schlechthin für diese artenreiche und interessante Huftiergruppe (Bovidae). Die Taxonomie der Ungulaten wurde nach dem “phylogenetischen Artkonzept” 2011 von Groves & Grubb (“Ungulate Taxonomy”) neu aufgestellt. Dieses Konzept scheint allerdings nicht bei der IUCN angekommen zu sein und auch im Band 2 der “Mammals of the World” (Hoofed Mammals 2011) findet es keinen nennenswerten Eingang. Genetische Analysen und DNA-Sequenzierung tragen heute vermehrt zur Aufklärung der Taxonomie bei, der Stand stellt sich aber oft sehr unterschiedlich dar. So sind die Pferde (Gattung *Equus*) sehr gut analysiert, während bei den Gnus (Gattung *Connochaetes*) noch relative Unklarheit besteht. Noch kontroverser wird die Diskussion bezüglich der Unterarten. In einem phylogenetischen Konzept besteht die Tendenz im “Verschwinden” von Unterarten, sei es aufgrund der klaren Trennung von Populationen und der Benennung eigener Arten oder aufgrund der Eingliederung in eine bestehende Art (mit Auflösung des Unterart-Status). Diese Vorgehensweise kann für bedrohte Populationen (Taxa) aber durchaus dramatische Folgen haben – nur klar definierte Taxa finden Eingang in Arten- und Naturschutz-Konzepte.

In dieser Konsequenz versucht dieser “Field Guide” alle Unterarten zu berücksichtigen. Die Artbeschreibung beginnt mit einer Auflistung der Unterarten, ihrer aktuellen Verbreitung (kleine, aber anschauliche Verbreitungskarte) und Fotos zu den einzelnen Taxa. Im Textteil “Taxonomie und Verbreitung” werden alle Unterarten mit ihrer Verbreitung explizit aufgeführt. Die “Beschreibung” liefert die wesentlichen Merkmale um die Taxa zu unterscheiden. Im Punkt “Status” wird die Bedrohungssituation diskutiert (inkl. IUCN Status), die Teile “Habitat und Ernährung” sowie “Allgemeine Bemerkungen” gehen individuell auf die ökologische Situation ein und schildern Besonderheiten. Der Anhang besteht in einer taxonomischen Tabelle (von der Unterfamilie bis zu den Unterarten) inkl. dem Schutzstatus (farbig markiert). Eine zweite Tabelle listet morphometrische und Gewichts-Daten (Hornlänge, Schulterhöhe, Gewicht von Männchen und Weibchen) auf. Glossar und Index bilden den Abschluss des Buches.

Das Buch ist optisch und textlich sehr gut ausgestattet; ein absolutes “Muss” für alle Afrika-Naturliebhaber.

R. Gerstmeier

HÁVA J.: **Dermestidae (Coleoptera)**. World Catalogue of Insects. Vol. 13. – Brill, Leiden-Boston, 2015. 419 S.

Dies ist bereits die zweite Auflage des Autors über die Familie der Speckkäfer, mit 62 Gattungen und 1498 Arten und Unterarten. Dieser Weltkatalog beinhaltet alle Unterfamilien, Triben und Subtriben, Gattungen und Untergattungen sowie den systematischen Katalog aller bekannten Taxa mit Erwähnung neuer nomenklatorischer Veränderungen, neuen Verbreitungsnachweisen, einer Auflistung des Typen-Verbleibs sowie aller infrasubspezifischer Namen. Beachtenswert ist die Bibliographie mit über 160

Seiten, in der sich auch Zitate zur Biologie (inkl. Larven), Verbreitung, molekularbiologischen Untersuchungen, Effekte zur Radiation sowie theoretische und angewandte Aspekte finden. Sehr schön sind auch die (leider) wenigen Abbildungen aus historischen Büchern.

Ein wichtiges Katalogwerk für Taxonomen und alle die sich mit der Thematik Dermestidae beschäftigen.

R. Gerstmeier

FELDHAMER G.A., DRICKAMER L.C., VESSEY S.H., MERRITT J.F. & C. KRAJEWSKI: **Mammology**. Adaptation, Diversity, Ecology. – Johns Hopkins University Press, Baltimore, 4th edition, 2015. 749 S.

Säugetiere sind heute weltweit mit etwa 5.500 Arten vertreten und beinhalten den Blauwal, das größte Tier, welches jemals auf dem Planeten Erde gelebt hat, aber auch die Schweinsnasen- oder Hummelfledermaus (*Craseonycteris thonglongyai*), mit 2g Gewicht eines der kleinsten Säugetiere.

In der 4. Auflage dieses amerikanischen Säugetierkunde-Werkes ist die neueste Taxonomie berücksichtigt, demzufolge beinhaltet es jetzt auch ein Kapitel zur molekularen Phylogenie der Mammalia. Etliche Themen wurden überarbeitet und modernisiert. Am klassischen Aufbau hat sich nichts verändert. Teil 1 beinhaltet die Einführung mit Kapitel zur Säugetierkunde, Historie, Feldmethoden, Klassifizierung, Evolution und Zahncharakteristika sowie Biogeographie. Teil 2 widmet sich der Struktur und Funktion (Integument, Bewegung, Ernährung, Umweltadaptationen, Reproduktion). Der sehr ausführliche 3. Teil (Adaptive Radiation und Diversität) beschreibt systematisch, in klassischer Weise, die Ordnungen und Familien. Verhalten und Ökologie ist der Inhalt des 4. Teiles, mit Kapiteln zu Kommunikation, sexuelle Selektion, Paarungssysteme, Verbreitung, Habitatwahl, Wanderungen und Populationsökologie. Im 5. und letzten Teil erfolgt die Besprechung von Parasiten und Krankheiten, Domestikation und Naturschutz. Glossar, Literatur und Index sind sehr detailliert und damit umfangreich.

Das gesamte Werk ist gut illustriert, allerdings in einer sehr klassischen Aufmachung, d.h., es gibt keinerlei Farbfotos oder farbige Illustrationen. Wen dies nicht stört, wird mit einem logisch organisierten, klar geschriebenen, sehr gut dokumentierten (zahlreiche Literaturzitate) und ausreichend illustrierten Standardwerk belohnt – alle Mal eine eindeutige Empfehlung.

R. Gerstmeier

WATSON M.F., LYAL C.H.C. & C.A. PENDRY (eds): **Descriptive Taxonomy**. The Foundation of Biodiversity Research. – Cambridge University Press, Cambridge, 2015. 324 S.

“Descriptive Taxonomy” enthält 22 Arbeiten, die den Themenbereichen “The widening audience”, “The products of descriptive taxonomy”, “Outputs and impact: field guides and applications”, “The influence of technology on data gathering in the field” und “New Technologies” zugeordnet sind.

Wer sich als “Neueinsteiger” mit dieser Thematik auseinandersetzt, wird mit diesem Buch sicher gut bedient, für den Wissenschaftler ist das meiste nicht neu und wird relativ oberflächlich behandelt. Es fehlt die Diskussion zum integrativen Ansatz (Taxonomie-DNA-Biogeographie), wirklich neuartige Feldmethoden (bark spraying, scraping and trapping in Minen-Bohrlöchern, innovative Baumkronenforschung), Ansätze zur schnellen, effektiven Beschreibung von Arten (Turbotaxonomie) oder die “Nagoya-Problematik” (Taxonomie-Sammeln-Artenschutz-genetische Ressourcen, etc) werden vermisst. Ein weiteres Mal ist es der “Taxonomie” nicht gelungen, sich aus ihrem Dornröschen-Schloss in die Öffentlichkeit zu katapultieren – schade.

R. Gerstmeier

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