

A CONTRIBUTION TO THE KNOWLEDGE OF THE CARABIDAE (COLEOPTERA) FAUNA OF TURKEY

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Kesdek M. 2012. A contribution to the knowledge of the Carabidae (Coleoptera) fauna of Turkey. *Acta Biol. Univ. Daugavp.*, 12 (1): 55 – 62.

This study was based on material from the Family Carabidae collected from different localities in Turkey between 1996 and 2009. Twenty nine (29) species from 17 genera belonging to 11 tribes and eight subfamilies were recorded. Among them, *Amara aenea* De Geer, 1774, *Scarites (Distichus) planus* (Bonelli, 1813), *S. (Parallelomorphus) subcylindricus* (Chaudoir, 1843) and *Siagona europaea* Dejean, 1826 were the most common and widespread. New localities are recorded for some species and distributions in Turkey and worldwide are provided for all species.

Key words: Coleoptera, Carabidae, ground beetles, fauna, Turkey.

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INTRODUCTION

The family Carabidae, or ground beetles, is one of the largest families of Coleoptera with more than 40,000 described species (Lövei & Sunderland 1996). They are very variable in shape and colour, but can usually be recognized by the positions of the antennal cleaner and antennal insertions, and by the large metatrochanter. Carabid species are commonly found under stones, logs, leaves, bark, debris or foraging on the ground. Some of them climb vegetation in search of prey and some live in trees. Most species are nocturnal and a few are attracted to lights. They run rapidly but seldom fly. Although they usually feed on insects, worms, slugs, snails, caterpillars, grubs and maggots (Thiele 1977, Stork 1990, Luff et al. 1992), some species are phytophagous or omnivorous (Larsen et al. 2003, Löbl & Smetana 2003). Turkey is located in the West Palaearctic region and studies on its carabids have been conducted by foreign and Turkish researchers. More than 1,100 species

have been recorded in Turkey (Casale & Taglianti 1999) and new species are still being added to the list. The aim of this paper is to report new collection and biological data on Carabidae in Turkey.

MATERIAL AND METHODS

The carabid material was collected from different localities in Turkey between 1996 and 2009. Provinces where the specimens were collected are given in alphabetical order. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET) and in the private collection of the author.

RESULTS

In this study, a total 29 species from 17 genera belonged to 11 tribes of 8 subfamilies (Bembidiinae, Lebiinae, Nebriinae, Panagaeinae, Paussinae, Pterostichinae, Scaritinae and

Siagoninae) of the family Carabidae are reported from Turkey. Among them, *Amara aenea* De Geer, 1774, *Scarites (Distichus) planus* (Bonelli, 1813), *S. (Parallelomorphus) subcylindricus* (Chaudoir, 1843) and *Siagona europaea* Dejean, 1826 are the most widespread. Also, exact localities are reported for the first time for *Clivina collaris* (Herbst, 1784), *C. fossor* (Linnaeus, 1758), *Emphanes tenellus* (Erichson, 1837), *Laemostenus (Sphodroides) cordicollis* (Chaudoir, 1854), *Leistus femoralis* Chaudoir, 1846, *L. fulvus* Chaudoir, 1846, *Morion (Neomorion) olympicus* Redtenbacher, 1843, *Nebria elliptipennis* Bates, 1874, *N. (Eunebria) merklia* Apfelbeck, 1904, *Paussus (Cochliopaussus) turcicus* Frivaldszky, 1835, *Scarites (Parallelomorphus) subcylindricus* (Chaudoir, 1843), *S. (P.) terricola* (Bonelli, 1813) and *Siagona europaea* Dejean, 1826 from different regions of Turkey. The species and their subfamilies, tribes and genera are provided in alphabetical order in the following list.

Subfamily Bembidiinae LaCordaire, 1854

Tribe Bembidiini Stephens, 1827

***Emphanes tenellus* (Erichson, 1837)**

Material examined: Erzurum: 2 exs., 27.VII.2005, Atatürk University field, 1850 m, leg. Kesdek; 1 ex., 16.VII.2003, Dadaşköy, 1850 m, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: Central Asia, Central and South Europe, Caucasia and Russia (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995).

***Notaphus varius* (Olivier, 1795)**

Material examined: Erzurum: 1 ex., 8.IV.2006, Atatürk University field, 1850 m, leg. Kesdek; 1 ex., 18.IV.2005, leg. Kesdek.

Distribution in Turkey: Denizli, Erzurum, İzmir (Sahlberg 1912-1913; Kesdek & Yıldırım 2007a).

Distribution in the World: Caucasia, Bulgaria, Czech Republic, Russia, Siberia and Slovakia (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995; Hurka 1996).

***Philochthus guttula* (Fabricius, 1792)**

Material examined: Erzurum: 3 exs., 25.V.2006, Köprüköy, Ilıcasu, 2340 m, leg. Kesdek; 2 exs., 25.V.2006, Pasinler, Hamamderesi, 1800 m, leg. Kesdek; 1 ex., 14.VIII.1999, Tortum, Yumaklı, 2250 m, leg. Yıldırım.

Distribution in Turkey: South Anatolia (No locality) (Casale & Taglianti 1999); İzmir (Sahlberg 1912-1913).

Distribution in the World: North Africa, North America, Europe, Caucasia, Siberia, Russia (Kryzhanovskij et al. 1995; Guéorguiev & Guéorguiev 1995; Neculiseanu & Matalin 2000).

Subfamily Lebiinae Bonelli, 1810

Tribe Lebiini Bonelli, 1810

***Cymindis andreae* Ménériés, 1832**

Material examined: Isparta: 1 ex., 18.XI.2008, Şarkikaraağaç, 5 km South, 870 m, leg. Kesdek.

Konya: 1 ex., 18.XI.2008, Beyşehir, İsaköy, 1000 m, leg. Kesdek; 1 ex., 13.VI.2009, Güneysınır, Gurağaç, 1020 m, leg. Kesdek; 2 ex., 25.V.2009, Örenboyalı, 1025 m, leg. Kesdek.

Distribution in Turkey: Konya (Kesdek & Yıldırım 2007b).

Distribution in the World: Afghanistan, Armenia, Azerbaijan, Cyprus, Egypt, Georgia, Iran, Iraq, Kazakhstan, Kyrgyzstan, Lebanon, Pakistan, Russia, Saudi Arabia, Tadzhikistan, Turkmenistan, Turkey, Yemen (Löbl & Smetana 2003; Kesdek & Yıldırım 2007b; Ghahari & Kesdek 2012).

***Cymindis variolosa* (Fabricius, 1794)**

Material examined: Burdur: 1 ex., 18.XI.2008, Tefenni, 12 km N, leg. Kesdek. **Erzurum:** 2 exs., 19.IV.2005, Atatürk University field, 1850 m, leg. Kesdek. **Konya:** 1 ex., 26.XI.2008, Güneysınır, Gurağaç, 1020 m, leg. Kesdek; 1 ex., 20.V.2009, Örenboyalı, 1025 m, leg. Kesdek.

Distribution in Turkey: Kayseri, Ankara, Erzurum, Kars, Konya (Öncüer 1991; Kesdek & Yıldırım 2007b; Kocatepe & Mergen 2004).

Distribution in the World: South-West Asia, Europe, Caucasia, Czech Republic, Russia, Siberia, Slovakia (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995; Hurka 1996).

Lamprias cyanocephalus (Linnaeus, 1758)

Material examined: **Erzurum:** 2 exs., 24.V.2006, Atatürk University field, 1850 m, leg. Kesdek; 3 exs., 11.IV.2005, Pasinler, Hamamderesi, 1800 m, leg. Kesdek; 1 ex., 16.IV.2005, Şenkaya, Sındıran, 1770 m, leg. Kesdek. **Konya:** 2 exs., 20.IV.2007, Güneysımr, Karagüney, 1040 m, leg. Kesdek; 2 exs., 20.V.2009, Mehmetali, 1030 m, leg. Kesdek; 1 ex., 21.IX.2008, Örenboyalı, 1025 m, leg. Kesdek.

Distribution in Turkey: Ankara, Ardahan, Artvin, Erzurum, Gümüşhane, İzmir, Konya (Sahlberg 1912-1913; Kocatepe & Mergen 2004; Kesdek & Yıldırım 2007b). This species is very widespread in Turkey.

Distribution in the World: South-West Asia, Europe, Caucasia, Moldova, Russia, Siberia (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995; Neculiseanu & Matalin 2000).

Subfamily Nebriinae Laporte, 1834

Tribe Nebriini Laporte, 1834

Leistus femoralis Chaudoir, 1846

Material examined: **Artvin:** 1 ex., 10.VI.2005, Genya Mountain, 1782 m, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999). Only one specimen was recorded in this study.

Distribution in the World: Caucasia Minor (Armenia), Russia (Kryzhanovskij et al. 1995).

Leistus fulvus Chaudoir, 1846

Material examined: **Artvin:** 1 ex., 2.VII.2004, Genya Mountain, 1575 m, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999). Only one specimen was recorded in this study.

Distribution in the World: Caucasia and Russia (Kryzhanovskij et al. 1995).

Nebria bonellii (Adams, 1817)

Material examined: **Erzurum:** 6 exs., 15.IX.2005, Aşkale, Kop Pass, 2165 m, leg. Kesdek. **Hatay:** 1 ex., 26.III.2004, İskenderun, 50 m, leg. Fidan.

Distribution in Turkey: Rize (Öncüer 1991).

Distribution in the World: Caucasia Minor (Armenia), Russia (Kryzhanovskij et al. 1995).

Nebria brevicollis (Fabricius, 1792)

Material examined: **Amasya:** 2 exs., 17.V.2004, Taşova, leg. Çınar. **Giresun:** 1 ex., 13.XI.2002, Bulancak, 520 m, leg. Kara. **Ordu:** 1 ex., 10.III.1997, Ünye, 625 m, leg. Aydın.

Distribution in Turkey: İzmir (Bozdağlar Mountain), Manisa (Anlaş & Tezcan 2010; Tezcan et al. 2011).

Distribution in the World: North America, Europe, Caucasia, Bulgaria, Iran, Russia (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995).

Nebria elliptipennis Bates, 1874

Material examined: **Erzurum:** 3 exs., 20.VII.2003, Palandöken Mountain, 2190 m, leg. Kesdek; 2 exs., 19.IX.2005, Tekederesi, 2100 m, leg. Kesdek; 1 ex., 6.VI.2006, Aşkale, Kop Pass, 2350 m, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: Europe, Armenia, Turkey (Casale & Taglianti 1999).

Nebria hemprichi Klug, 1832

Material examined: **Diyarbakır:** 1 ex., 17.IV.1996, Silvan, leg. Kuzu. **Hatay:** 8 exs., 12.III.2004, İskenderun, 25 m, leg. Çiçek; 6 exs., 26.III.2004, leg. Çiçek.

Distribution in Turkey: Adana, Adıyaman, Gaziantep, Kahramanmaraş, Malatya, Osmaniye (Csiki 1927b; Avgin & Emre 2007).

Distribution in the World: Europe, Iran, Israel, Syria (Löbl & Smetana 2003; Ghahari et al. 2009a).

Nebria (Eunebria) merkliaana Apfelbeck, 1904

Material examined: **Erzurum:** 1 ex., 12.VII.2001, İspir, Deve Mountain, 2100 m, leg. Kılıç; 1 ex., 12.VII.2001, Tortum, Çataldere, 1800 m, leg. Kesdek.

Distribution in Turkey: Turkey (No locality) (Csiki 1927b; Casale & Taglianti 1999).

Distribution in the World: Asia Minor and Bulgaria (Guéorguiev & Guéorguiev 1995).

Subfamily Panagaeinae Bonelli, 1810

Tribe Panagaeini Bonelli, 1810

Panagaeus cruxmajor (Linnaeus, 1758)

Material examined: **Erzurum:** 1 ex., 14.X.2004,

Aşkale, Pınakapan, 1750 m, leg. Kesdek; 1 ex., 17.V.2003, Narman, Eldenik, 2100 m, leg. Kesdek; 1 ex., 28.III.2002, Oltu, Başaklı, 1730 m, leg. Kesdek; 1 ex., 24.IX.2002, Olur, Yeşilbağlar, 1100 m, leg. Kesdek; 1 ex., 26.IX.2000, Şenkaya, Çatalelma, 2150 m, leg. Kesdek; 4 exs., 2.IX.2004, Uzundere, Yayla Pass, 2450 m, leg. Kesdek.

Distribution in Turkey: Eskişehir (Yücel & Şahin 1988).

Distribution in the World: North Africa, Caucasia, Siberia, Bulgaria, Iran, Moldova, Russia (Gueorguiev & Gueorguiev 1995; Kryzhanovskij et al. 1995; Neculiseanu & Matalin 2000).

Subfamily Paussinae Latreille, 1807

Tribe Paussini Latreille, 1807

Paussus (Cochliopaussus) turcicus Frivaldszky, 1835

Material examined: Kars: 2 exs., 9.VII.2005, Kağızman, 10 km SW, 1350 m, leg. Kesdek; 5 exs., 17.V.2005, Yukarısultanlı, 1300 m, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: Near East, Central Asia, Caucasia, Balkan Peninsula, Bulgaria, Russia (Gueorguiev & Gueorguiev 1995; Kryzhanovskij et al. 1995).

Subfamily Pterostichinae Bonelli, 1810

Tribe Amarini (Zabriini) Bonelli, 1810

Amara aenea De Geer, 1774

Material examined: Burdur: 3 exs., 28.V.2009, Tefenni, 2 km S, 870 m, leg. Kesdek; 2 exs., 28.V.2009, Karamanlı, 1 km Northwest, 680 m, leg. Kesdek. **Isparta:** 1 ex., 18.XI.2008, Eğirdir, 890 m, leg. Kesdek. **Karaman:** 3 exs., 12.VI.2009, Kazımkarabekir, Akarköy, 1015 m, leg. Kesdek. **Konya:** 2 exs., 8.VI.2009, Bozkır, Belören, 1100 m, leg. Kesdek; 1 ex., 20.XI.2008, Hacılar, 1130 m, leg. Kesdek; 2 exs., 10.VI.2009, Kildere, 1125 m, leg. Kesdek; 2 exs., 10.VI.2009, Çumra, Kuzucu, 1020 m, leg. Kesdek; 3 exs., 20.XI.2008, Güneysınır, Kızılöz, 1025 m, leg. Kesdek. **Muğla:** 3 exs., 13.III.2007, Köyceğiz, Hamitköy, 80 m, leg. Kesdek; 2 exs., 9.IV.2007, Zafetler, 80 m, leg. Kesdek. **Şırnak:** 2 exs.,

21.XII.2008, Çakırsöğüt, Namaz Mountain, 1470 m, leg. Kesdek.

Distribution in Turkey: Ardahan, Artvin, Erzincan, Erzurum, Iğdır, Kars, Konya (Kesdek & Yıldırım 2010b); İzmir (Bozdağlar Mountain) (Tezcan et al. 2011).

This species is very widespread in Turkey.

Distribution in the World: North Africa, North America, Europe, Himalaya, Bulgaria (Gueorguiev & Gueorguiev 1995); Caucasia, Siberia, Armenia, Azerbaijan, Crimea, Kazakhstan, Russia, Turkmenistan, Ukraine, Uzbekistan (Kryzhanovskij et al. 1995).

Tribe Platynini Bonelli, 1810

Anchomenus dorsalis (Pontoppidan, 1763)

Material examined: Burdur: 3 exs., 28.V.2009, Tefenni, 2 km South, 870 m, leg. Kesdek.

Isparta: 1 ex., 28.V.2009, Gelendost, 870 m, leg. Kesdek. **Konya:** 2 exs., 20.XI.2008, Bozkır, Belören, 1030 m, leg. Kesdek; 1 ex., 10.VI.2009, Çumra, Kuzucu, 1020 m, leg. Kesdek; 1 ex., 10.VI.2009, Okçu, 1010 m, leg. Kesdek; 3 exs., 11.VI.2009, Güneysınır, Gurağaç, 1020 m, leg. Kesdek; 2 exs., 26.XI.2008, leg. Kesdek; 1 ex., 14.VI.2009, Mehmetali, 1025 m, leg. Kesdek. **Muğla:** 2 exs., 17.IV.2007, Köyceğiz, Beyobası, 80 m, leg. Kesdek.

Distribution in Turkey: Adana, Ardahan, Artvin, Erzincan, Erzurum, Gümüşhane, Iğdır, Kars, Konya, Trabzon (Kesdek & Yıldırım 2004; 2010a).

Distribution in the World: Central Asia, Near East, Europe, Caucasia, Russia, Siberia (Gueorguiev & Gueorguiev 1995; Kryzhanovskij et al. 1995).

Calathus ambiguus (Paykull, 1790)

Material examined: Isparta: 1 ex., 28.V.2009, Eğirdir, Mahmatlar, 850 m, leg. Kesdek. **Konya:** 3 exs., 14.VI.2009, Bozkır, Belören, 1100 m, leg. Kesdek; 3 exs., 10.VI.2009, Çumra, Kuzucu, 1020 m, leg. Kesdek; 2 exs., 20.XI.2008, Güneysınır, Gurağaç, 1020 m, leg. Kesdek; 3 exs., 21.XI.2008, Mehmetali, 1025 m, leg. Kesdek.

Distribution in Turkey: Ankara, Denizli, Erzincan, Erzurum, Eskişehir, Kars, Kayseri, Konya, Muş, Sinop (Ganglbauer 1905; Sahlberg 1912-1913; Yücel & Şahin 1988; Kesdek &

Yıldırım 2004). This species is very widespread in Turkey.

Distribution in the World: Central Asia, Europe (ex. for Iberian Peninsula), Caucasia, West Siberia, Iran, Russia, Syria (Gueorguiev & Gueorguiev 1995; Kryzhanovskij et al. 1995).

***Calathus cinctus* Motschulsky, 1850**

Material examined: **Konya:** 1 ex., 17.XI.2008, Beyşehir, Bayındır, 1000 m, leg. Kesdek; 4 exs., 14.VI.2009, Bozkır, Belören, 1100 m, leg. Kesdek; 1 ex., 22.XI.2008, Çumra, Kuzucu, 1020 m, leg. Kesdek; 2 exs., 20.XI.2008, Güneysınır, Gurağaç, 1020 m, leg. Kesdek; 3 exs., 21.XI.2008, Mehmetali, 1025 m, leg. Kesdek. **Muğla:** 4 exs., 9.X.2007, Fethiye, Çaltılar, 560 m, leg. Kesdek; 2 exs., 25.X.2007, Köyceğiz, Beyobası, 150 m, leg. Kesdek; 3 exs., 13.IV.2009, Ortaca, Dalyan, 30 m, leg. Kesdek.

Distribution in Turkey: Ardahan, Bingöl, Erzincan, Erzurum, Kars, Konya (Kesdek & Yıldırım 2004; 2010a).

Distribution in the World: Caucasia, Armenia; Crimea, Russia, Ukraine (Kryzhanovskij et al. 1995), North Africa, West Asia, Europe, Czech Republic, Slovakia (Hurka 1996).

***Calathus syriacus* Chaudoir, 1863**

Material examined: **Isparta:** 3 exs., 28.V.2009, Eğirdir, Mahmatlar, 850 m, leg. Kesdek. **Konya:** 2 exs., 14.VI.2009, Bozkır, Belören, 1100 m, leg. Kesdek; 3 exs., 20.XI.2008, Güneysınır, Gurağaç, 1020 m, leg. Kesdek. **Muğla:** 3 exs., 9.X.2007, Fethiye, Bekçiler, 750 m, leg. Kesdek; 2 exs., 14.IX.2006, Köyceğiz, Beyobası, 150 m, leg. Kesdek; 2 exs., 23.IV.2008, Ortaca, Eskiköy, 80 m, leg. Kesdek.

Distribution in Turkey: Adana, Ankara, Antalya, Artvin, Bayburt, Bingöl, Elazığ, Erzincan, Erzurum, İçel, Kars, Muğla (Kesdek & Yıldırım 2004; 2010a). This species is very widespread in Turkey.

Distribution in the World: Caucasia, Armenia, Russia (Kryzhanovskij et al. 1995).

***Laemostenus (Sphodroides) cordicollis* (Chaudoir, 1854)**

Material examined: **Aydın:** 1 ex., 12.VII.1999, 240 m, leg. Tutmuş. **Şanlıurfa:** 1 ex., 16.VIII.2001,

Harran Plain, 748 m, leg. Ceyhun.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: Turkey (Casale & Taglianti 1999).

Tribe Morionini Latreille, 1810

***Morion (Neomorion) olympicus* Redtenbacher, 1843**

Material examined: **Antalya:** 1 ex., 1.VI.1996, Manavgat, 170 m, leg. Özbek. **Erzurum:** 4 exs., 10.V.2006, Nenehatun, 1800 m, leg. Kesdek; 3 exs., 14.V.2005, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: Caucasia, Armenia, Russia, Turkey (Kryzhanovskij et al. 1995; Casale & Taglianti 1999).

Subfamily Scaritinae Bonelli, 1810

Tribe Clivinini Bonelli, 1810

***Clivina collaris* (Herbst, 1784)**

Material examined: **Erzurum:** 1 ex., 30.VIII.1998, Dadaşköy, 1850 m, leg. Fırat; 1 ex., 24.X.2002, Olur, Yeşilbağlar, 1100 m, leg. Kesdek. **Iğdır:** 2 exs., 29.VI.2003, Tuzluca, Üçkaya, 1450 m, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: North America, Central and South Europe, Caucasia, Kazakhstan, Russia, Asia Minor, Turkistan (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995).

***Clivina fossor* (Linnaeus, 1758)**

Material examined: **Artvin:** 2 exs., 11.VI.2005, Şavşat, Yavuzköy, 1680 m, leg. Kesdek. **Erzincan:** 1 ex., 4.VIII.2003, Tercan, Yollarüstü, 1640 m, leg. Kesdek; 1 ex., 26.V.2005, Üzümlü, Yalnızbağ, 1525 m, leg. Kesdek. **Erzurum:** 1 ex., 16.VII.2003, Dadaşköy, 1850 m, leg. Kesdek; 2 exs., 3.VII.2005, Narman, 12 km S, 1900 m, leg. Kesdek; 1 ex., 13.VI.2005, Oltu, Başpınar, 2130 m, leg. Kesdek; 3 exs., 12.VII.2004, Uzundere, Yayla Pass, 2350 m, leg. Kesdek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: Middle and Far East, North America, Europe, Caucasia, Bulgaria,

China, Russia, Siberia (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995).

Tribe Scaritini Bonelli, 1810

***Scarites eurytus* (Fischer von Waldheim, 1829)**

Material examined: Rize: 1 ex., 18.VII.1997, Fındıklı, 980 m, leg. Yılmaz.

Distribution in Turkey: Denizli (Sahlberg 1912-1913). Only one specimen was recorded in this study.

Distribution in the World: Middle Asia, Caucasia and Russia (Kryzhanovskij et al. 1995).

***Scarites (Distichus) planus* (Bonelli, 1813)**

Material examined: Bingöl: 1 ex., 28.V.2006, Ilıcalar, İçpınar, 1100 m, leg. Yıldırım. **Erzurum:** 1 ex., 9.VIII.2003, Şenkaya, Çakırbaba Pass, 2450 m, leg. Kesdek. **Iğdır:** 2 exs., 16.V.2005, Tuzluca, Gaziler, 1020 m, leg. Kesdek. **Kars:** 3 exs., 3.VI.2004, Kağızman, Aydınkavak, 1500 m, leg. Kesdek. **Tunceli:** 1 ex., 16.V.1996, Pülümür, 1380 m, leg. Özbek.

Distribution in Turkey: İzmir, Muğla (First recorded) (Öncüer 1991).

Distribution in the World: Asia, Caucasia, Siberia, Armenia, Crimea, Kazakhstan, Moldova, Russia, Ukraine, Uzbekistan (Kryzhanovskij et al. 1995).

***Scarites (Parallelomorphus) subcylindricus* (Chaudoir, 1843)**

Material examined: Bingöl: 7 exs., 5.VI.2003, Karlıova, Köklü, 1600 m, leg. Kesdek. **Erzincan:** 3 exs., 13.VI.2004, Tercan, 17 km W, 1345 m, leg. Kesdek; 3 exs., 25.V.2005, 1450 m, leg. Kesdek; 2 exs., 25.V.2005, Demirkapı, 1330 m, leg. Kesdek. **Iğdır:** 3 exs., 16.V.2005, Tuzluca, Gaziler, 1020 m, leg. Kesdek. **Kars:** 1 ex., 3.VI.2004, Kağızman, Aydınkavak, 1500 m, leg. Kesdek; 1 ex., 17.V.2005, Yukarısultanlı, 1620 m, leg. Kesdek. **Tunceli:** 1 ex., 16.V.1996, Pülümür, leg. Özbek.

Distribution in Turkey: Turkey (No locality) (Csiki 1927b; Casale & Taglianti 1999).

Distribution in the World: Europe, Algeria, Egypt, Libya, Tunisia, Afghanistan, Cyprus, India, Iran, Iraq, Israel, Kazakhstan, Pakistan, Saudi Arabia, Syria, Turkmenistan, Uzbekistan, Yemen (Kryzhanovskij et al. 1995; Löbl &

Smetana 2003).

***Scarites (Parallelomorphus) terricola* (Bonelli, 1813)**

Material examined: Erzincan: 1 ex., 12.VI.2004, Tercan, 40 km W, 1345 m, leg. Kesdek; 1 ex., 25.V.2004, Üzümlü, Avcılar, 1400 m, leg. Kesdek. **Erzurum:** 1 ex., 10.VI.2005, Tortum, 2 km S, 1760 m, leg. Kesdek; 3 exs., 26.IX.2000, Şenkaya, Sındıran, leg. Kesdek. **Kars:** 1 ex., 4.VI.2004, Digor, Halıkışla, 1000 m, leg. Kesdek.

Distribution in Turkey: Turkey (No locality) (Csiki 1927b; Casale & Taglianti 1999).

Distribution in the World: North Africa (Libya), Europe, Caucasia, Afghanistan, Armenia, China, Crimea, Hungary, Iran, Kazakhstan, Mongolia, India, Russia, Tadjikistan, Ukraine (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995).

Subfamily Siagoninae Bonelli, 1813

Tribe Siagonini Bonelli, 1813

***Siagona europaea* Dejean, 1826**

Material examined: Adana: 2 exs., 14.VII.1998, Kozan, Boztepe, 250 m, leg. Çetin. **Bingöl:** 5 exs., 5.VI.2003, Karlıova, Köklü, 1650 m, leg. Kesdek. **Erzincan:** 1 ex., 12.VI.2004, Tercan, 40 km W, 1345 m, leg. Kesdek; 2 exs., 25.V.2005, Demirkapı, 1330 m, leg. Kesdek; 1 ex., 26.V.2005, 1650 m, leg. Kesdek. **Tunceli:** 1 ex., 18.V.1997, Pülümür, 1740 m, leg. Özbek.

Distribution in Turkey: Anatolia (No locality) (Casale & Taglianti 1999).

Distribution in the World: North Africa, Central Asia, Europe, Caucasia, Armenia, Crimea, Iraq, Iran, Kazakhstan, India, Russia, Senegal, Sudan, Tadjikistan, Ukraine (Guéorguiev & Guéorguiev 1995; Kryzhanovskij et al. 1995).

ACKNOWLEDGEMENTS

The author thanks Dr. Claude Jeanne of Langon, France for verifying the identity of some reference materials; Prof. Dr. Erol YILDIRIM at Atatürk University in Erzurum, Turkey, Prof. Dr. Serdar TEZCAN at Ege University in İzmir, Turkey and Dr. Sinan ANLAŞ at Celal Bayar University in Manisa, Turkey for their valuable suggestions about the manuscript; and Gregory T. Sullivan

of OYDEM at Ondokuz Mayıs University in Samsun, Turkey for English editing.

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Received: 01.05.2012.

Accepted: 10.09.2012.