

Linzer biol. Beitr.	47/1	545-567	31.7.2015
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## Two new records and some additional notes on Elateridae (Coleoptera) fauna of Turkey

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**A b s t r a c t :** In this paper, some distributional data of five species belonging to five genera of Agrypninae CANDÈZE 1857; one species belonging to one genus of Cardiophorinae CANDÈZE 1860 and seventeen species belonging to six genera of Elaterinae LEACH 1815 (Coleoptera, Elateridae) fauna of Turkey housed in the collection of Lodos Entomological Museum, Turkey (LEMT), Ege University, Izmir, Turkey, have been given. Among those *Adrastus temperei* LESEIGNEUR, 1974 and *Ampedus lenkoranus* (REITTER, 1889) are the first records for Turkish Elateridae fauna.

The material is presented together with collecting dates and locality data. For each species new distributional localities were also reported and given with attached maps.

**K e y w o r d s :** Elateridae, Fauna, LEMT, Turkey.

### Introduction

Elateridae fauna of Turkey is quite rich and the studies of SAHLBERG 1912-1913, GUGLIELMI & PLATIA 1985, LODOS 1998, KABALAK & SERT 2005; 2011, GULPERCIN & TEZCAN 2006; 2009; 2010a, b; 2012a, b, c; 2014, KESDEK et al. 2006, LÖBL & SMETANA 2007, MERTLIK & PLATIA 2008, TEZCAN & GULPERCIN 2009; UZUM et al. 2010, VARLI et al. 2010, ONCUL-ABACIGIL et al. 2012, OZGEN et al. 2012 have great importance. A short time ago a paper on the Agrypninae, Cardiophorinae and Elaterinae (Coleoptera, Elateridae) Fauna has been published (GULPERCIN & TEZCAN 2010b; 2012a, b; 2014). In GULPERCIN & TEZCAN 2010b, a total of five species belonging to five genera of Agrypninae subfamily; in GULPERCIN & TEZCAN 2012a, a total of fifteen species belonging to *Cardiophorus* and in GULPERCIN & TEZCAN 2014, total of seven species belonging to *Dicronychus* of Cardiophorinae subfamily; in GULPERCIN & TEZCAN 2012b, total of twenty two species belonging eight genera of Elaterinae subfamily have been listed with their distributional data. In this study, we would like to evaluate the unpublished Elateridae material of Lodos Entomological Museum, Turkey (LEMT) of Department of Plant Protection, Faculty of Agriculture, Ege University, Izmir, Turkey. Those material have been collected from different localities of Turkey between the years of 1971-2008 by researchers of Plant Protection Department, Faculty of Agriculture, Ege University. Provinces of the collected specimens are given in alphabetical order in the following list. Those material have been determined by J. Chassain (France), C.M.F.

Hayek (Austria), G. Platia (Italy), R. Preiss (England), N. Lodos and N. Gulpercin (Turkey). Classification and nomenclature of the species of Agrypninae, Cardiophorinae and Elaterinae suggested by LÖBL & SMETANA 2007 have been followed in this study.

## Results

In this study, five species belonging to five genera from Agrypninae, one species belonging to one genus from Cardiophorinae and seventeen species belonging to six genera from Elaterinae were recorded. As a result, a total of 132 specimens were recorded. Recent distribution of each species were also given with maps within the text.

### Family E l a t e r i d a e LEACH, 1815

#### Subfamily A g r y p n i n a e CANDÈZE, 1857

#### Genus *A e o l o d e r m a* FLEUTIAUX, 1928

##### *Aeoloderma crucifer* (ROSSI, 1790)

**Material examined:** Antalya: Kaş-Korkuteli, 23.V.1986, aerial collector, 1 ex.; Bahkesir: Erdek, 20.V.1973, *Olea europaea* LINNAEUS, 1758, 1 ex., totally 2 specimens.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Antalya (Elmalı-Avlan Lake), Burdur (Çeltikçibeli), Mersin (Susanoğlu) (GUGLIELMI & PLATIA 1985); Izmir [Ödemiş-Gereli], Seferihisar (Sığacık) (GULPERCIN & TEZCAN 2009), Bursa (Central province), Izmir [Kemalpaşa (Ören), Ödemiş (Central province, Gereli)], Kütahya (Central province), Mersin (Anamur, Erdemli), Şanlıurfa (Siverek) (GULPERCIN & TEZCAN 2010b). Distributional map of *A. crucifer* in Turkey is given on Fig. 1.

#### Genus *A e o l o i d e s* SCHWARZ, 1906

##### *Aeoloides grisescens* (GERMAR, 1844)

**Material examined:** Izmir: Ödemiş, 05.VI.1977, light trap, 1 ex., totally 1 specimen.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Izmir (Central province) [as *Aeoloides bicarinatus* REITTER, 1891 (GUGLIELMI & PLATIA 1985)]. Distributional map of *A. grisescens* in Turkey is given on Fig. 2.

#### Genus *C a l a i s* LAPORTE DE CASTELNAU, 1836

##### *Calais parreyssi* (STEVEN, 1829)

**Material examined:** Isparta: Eğirdir, 02.VI.2008, *Quercus vulcanica* BOISS. & HELDR. ex KOTSCHY, 1860, 1 ex., totally 1 specimen.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); This species is found everywhere in Turkey (LODOS 1998); Karaman

(Bulgar Mountains) (SAHLBERG 1912-1913); Antalya, Bursa (Orhaneli) (ACATAY 1948); Antalya, Bursa (Orhaneli-Karınca) (CANAKCIOGLU 1983); Antalya, Balıkesir (Havran), Mersin (Silifke, Namrun-Çamlıyayla) (GUGLIELMI & PLATIA 1985); Izmir (GULPERCIN & TEZCAN 2006); Isparta (Sütçüler), İçel (Tarsus) (KESDEK et al. 2006); Izmir [Balçova (Central province, Teleferik), Bornova (Çiçekli), Kemalpaşa (Çambel, Kurudere)] (GULPERCIN & TEZCAN 2009); Antalya (Central province), Aydın (Karacasu), Istanbul (Erenköy), Muğla (Central province) (GULPERCIN & TEZCAN 2010b). Distributional map of *C. parreyssi* in Turkey is given on Fig. 3.

### Genus *Drasterius* ESCHSCHOLTZ, 1829

#### *Drasterius bimaculatus* (ROSSI, 1790)

Material examined: Corum: Central province, 05.VIII.1979, under stone, 1 ex., Bayat, 06.VIII.1979, *Tamarix* sp., 1 ex., totally 2 specimens.

Distribution in Turkey: Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); West Anatolia, Karaman (SAHLBERG 1912-1913); Istanbul, Izmir (Bornova), Sakarya (GUL-ZUMREOGLU 1972); Adana (Pozantı), Amasya, Artvin (Borçka), Bursa (Inegöl), Duzce (Akçakoca-Konuralp, Gerede), Erzurum (Kopdağı Pass), Eskişehir (Sivrihisar), Gaziantep (Islahiye), Isparta (Central province), Izmir (Efes, Selçuk), Kastamonu (Central province), Mersin (Namrun-Çamlıyayla), Muğla (Yatağan), Samsun (Bafra), Siirt (Baykan), Trabzon (Sümela-Maçka) (GUGLIELMI & PLATIA 1985); Izmir (GULPERCIN & TEZCAN 2006); Adana [Kozan (Bağtepe)], Ankara (Central province, Ayaş, Kocatepe), Erzurum (Horasan, Köprüköy, Oltu), Eskişehir, Hatay, Iğdır [Central province, Suveren, Tuzluca Cincevat)], Kırıkkale, Konya [Güneysınır (Gürağaç)], Muğla, Yozgat (KESDEK et al. 2006); Izmir [Bornova, Kemalpaşa (Central province, Armutlu), Kınık, Kiraz, Menderes (Gümüldür), Ödemiş, Seferihisar (Central province, Sığacık), Urla] (GULPERCIN & TEZCAN 2009); Izmir (Kemalpaşa) (TEZCAN & GULPERCIN 2009, UZUM et al. 2010); Adana (Yumurtalık), Ankara (Keskin), Antalya (Central province, Kaş, Manavgat, Seki), Aydın (Çine, Kuşadası), Balıkesir (Bigadiç, Manyas-Kızıksa), Bartın (Central province), Burdur (Tefenni-Yeşilova), Bursa (Central province, Inegol, Mustafakemalpaşa-Ali Seydi, Yenişehir), Diyarbakır (Central province), Düzce (Akçakoca-Konuralp), Gaziantep (Battal, Güreniz), Hatay (Dortyol, Hassa-Islahiye), Kilis, Izmir [Bergama-Kozak, Bornova, Bozdağ, Çeşme, Foça, Karaburun, Kemalpaşa (Central province, Armutlu, Kuyucak, Ören, Örnekkoy, Savandağ), Kiraz, Menderes (Gümüldür, Gümüssu), Menemen (Hatundere), Narlıdere, Ödemiş (Central province, Gereli), Kahramanmaraş (Türkoğlu), Karaman (Central province, Ermenek), Kastamonu (Cide), Kırklareli (Central province), Kırşehir (Central province), Konya (Central province, Bozkır, Seydişehir), Malatya (Central province), Manisa (Central province, Muradiye), Mardin (Central province), Mersin (Anamur, Gözne, Gülnar, Tarsus), Muğla (Yatağan), Niğde (Çiftahan, Ulukışla), Sakarya (Hendek-Kargalıhanbaba), Şanlıurfa (Siverek), Tekirdağ (Sarköy), Trabzon (Çukurçayır), Uşak (Sivahlı), Yalova (Central province), Zonguldak (Çaycuma, Ereğli) (GULPERCIN & TEZCAN 2010b). Distributional map of *D. bimaculatus* in Turkey is given on Fig. 4.

**Genus *Lanelater* ARNETT, 1952*****Lanelater judaicus* (REICHE & SAULCY, 1857)**

**Material examined:** Şanlıurfa: Central province, 06.III.2001, 1 ex., totally 1 specimen.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Şanlıurfa (Karacadağ) (GUGLIELMI & PLATIA 1985). Distributional map of *L. judaicus* in Turkey is given on Fig. 5.

**Subfamily *Cardiophorinae* CANDÈZE, 1860****Genus *Dicronychus* BRULLÉ, 1832*****Dicronychus cinereus* (HERBST, 1784)**

**Material examined:** Bitlis: Hizan, 09.VI.1975, *Rosa* sp., 1 ex., totally 1 specimen.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Izmir [Selçuk (Efes)] [as *Cardiophorus cinereus suturalis* ESCHSCHOLTZ, 1829] (SAHLBERG 1912-1913); Mersin (Çamlıyayla) (GUGLIELMI & PLATIA 1985); Izmir (GULPERCİN & TEZCAN 2006); Izmir [Kemalpaşa (Armutlu, Yukarıkızılca), Ödemiş (Bozdağ, Hacıhasanlı)] (GULPERCİN & TEZCAN 2009); Izmir (Kemalpaşa) (UZUM et al. 2010); Balıkesir, Çanakkale (VARLI et al. 2010); Amasya (Hamamözü), Çorum Boğazkale, Iskilip, Tokat (Zile) (KABALAK & SERT 2011); Ankara (Temelli), Bursa (Central province), Denizli (Honaz), Isparta (Gölcük), Izmir [Kemalpaşa (Armutlu, Yukarıkızılca), Ödemiş (Birgi, Bozdağ, Hacıhasanlı, Yılanlı), Kastamonu (Tosya), Mersin (Güzeloluk), Sinop (Central province) (GULPERCİN & TEZCAN 2014). Distributional map of *D. cinereus* in Turkey is given on Fig. 6.

**Subfamily *Elaterinae* LEACH, 1815****Genus *Adrastus* ESCHSCHOLTZ, 1829*****Adrastus anatolicus* PLATIA & SCHIMMEL, 1991**

**Material examined:** Niğde: Çamardı, 29.VI.1980, *Rumex* sp., 1 ex., totally 1 specimen.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Adana, Ankara (Central province, Ayaş, Gölbaşı, Polatlı), Artvin [Yusufoğlu (Altıparmak Mountain)], Erzurum (Narman, Oltu, Şenkaya (Turnalı), Uzundere), Eskişehir, Kütahya, Malatya, Mersin [Erdemli (Doğlu)], Sivas (Hisar) (KESDEK et al. 2006); Aksaray (Güzelyurt), Ankara (Çamlıdere, Çubuk, Kalecik, Kazan, Kızılcahamam, Nallıhan), Çankırı (Central province, Ilgaz), Eskişehir (Günyüzü, Mihaliççık), Kayseri (Yeşilhisar), Kırıkkale (Çelebi), Kırşehir (Central province, Akpınar, Kaman, Mucur), Nevşehir (Central province, Ürgüp), Niğde (Çamardı), Sivas (Gürün, Hafik), Yozgat (Central province, Sorgun) (KABALAK & SERT 2011); Artvin (Hopa), Bilecik (Central province), Burdur (Göhlisar), Çorum (Osmancık), Düzce (Yığılca), Erzurum (Kop, Oltu), Gümüşhane (Central province), Kahramanmaraş

(Göksun), Karabük (Eskipazar), Mardin (Mazıdağı-1200 m), Ordu (Kumru), Rize (Central province), Sivas (Suşehri), Tekirdağ (Central province), Tokat (Central province), Uşak (Central province), Zonguldak (Çaycuma) (GULPERCIN & TEZCAN 2012b). Distributional map of *A. anatolicus* in Turkey is given on Fig. 7.

#### ***Adrastus limbatus* (FABRICIUS, 1777)**

**Material examined:** Artvin: Central province, 1971, *Camellia sinensis* LINNAEUS, 1753, 5 exs.; Bilecik: Pazaryeri, 14.VI.1977, *Humulus lupulus* LINNAEUS, 1753, 1 ex.; Giresun: Central province, 08.VI.1973, *Ulmus* sp., 1 ex., Armalit, 07.VI.1971, *Ulmus* sp., 1 ex., 08.VI.1973, *Ulmus* sp., 3 exs., Şebinkarahisar, 17.VII.1978, weeds, 1 ex.; Kahramanmaraş: Afşin, 13.VI.1985, *Populus* sp., 1 ex.; Ordu: Kumru, 13.VII.1978, weeds, 1 ex., totally 14 specimens.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Samsun (Central province) (GUL-ZUMREOĞLU 1972); Izmir (GULPERCIN & TEZCAN 2006); Izmir [Bayındır, Kemalpaşa (Armutlu, Ören, Yukarıkızılca), Selçuk (Belevi)] (GULPERCIN & TEZCAN 2009); Bursa (Central province), Çanakkale (Eceabat), Düzce (Central province), Karabük (Eskipazar), Kastamonu (Küre), Kütahya (Domaniç), Malatya (Central province), Muğla (Dalaman), Rize (Central province), Uşak (Central province) (GULPERCIN & TEZCAN 2012b). Distributional map of *A. limbatus* in Turkey is given on Fig. 8.

#### ***Adrastus longicornis* GURJEVA, 1976**

**Material examined:** Mardin: Central province, 11.VI.1976, weeds, 1 ex., totally 1 specimen.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Giresun (PLATIA & GUDENZI 1998); Artvin (Central province, Hopasarp), Bolu (Mengen), Erzurum (Oltu), Giresun (Central province), Kahramanmaraş (Nurhak Mountain), Ordu (Kumru), Rize (Ardeşen) (GULPERCIN & TEZCAN 2012b). Distributional map of *A. longicornis* in Turkey is given on Fig. 9.

#### ***Adrastus montanus* (SCOPOLI, 1763)**

**Material examined:** Antalya: Muratpaşa-Sinan, 11.VII.1976, *Rosa* sp., 1 ex., weeds, 1 ex.; Artvin: Hopa, 07.VII.1978, *Rubus* sp., 1 ex.; Bursa: Central province, 06.VI.1973, *Prunus avium* LINNAEUS, 1755, 1 ex.; Giresun: Şebinkarahisar, 12.VII.1978, weeds, 1 ex., 18.VII.1978, *Crataegus* sp., 2 exs., 23.VII.1978, *Crataegus* sp., 1 ex.; Gümüşhane: Kelkit, 11.VII.1978, *Populus* sp., 1 ex.; Kırklareli: Lüleburgaz, 08.VI.1975, weeds, 1 ex.; Ordu: Kumru, 23.VII.1978, weeds, 1 ex.; Tokat: Central province, 02.VII.1978, *Acacia* sp., 1 ex., totally 12 specimens.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Ankara (Bağlum, Hacıkadın), Kütahya (YUKSEL 1970); Bilecik (Central province, Pazaryeri), Bursa (Central province, Inebolu), Tokat (Almus) (PLATIA & GUDENZI 1998); Ankara (Gölbaşı) (KABALAK & SERT 2011); Balıkesir (Bandırma-Edincik, Gönen, Kepsut), Bilecik (Central province, Pazaryeri), Çanakkale (Biga), Kastamonu (Inebolu) (GULPERCIN & TEZCAN 2012b). Distributional map of *A. montanus* in Turkey is given on Fig. 10.

***Adrastus temperei* LESEIGNEUR, 1974**

**Material examined:** Rize: Fener, 10.VI.1973, *Citrus* sp., 5 exs., totally 5 specimens.

**Distribution in Turkey:** First record for Turkey. Distributional map of *A. temperei* in Turkey is given on Fig. 11.

**Genus *Agriot es* ESCHSCHOLTZ, 1829*****Agriot es acuminatus* (STEPHENS, 1830)**

**Material examined:** Kastamonu: Ulus, 29.V.1980, *Crataegus* sp., 2 exs, totally 2 specimens.

**Distribution in Turkey:** Türkiye (LODOS 1998; LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Bolu (Abant-Abant Lake), Sinop (Dranaz Mountain) (GUGLIELMI & PLATIA 1985); Aydın (Söke), İzmir (Selçuk-Efes) (PLATIA & GUDENZI 2002). Distributional map of *A. acuminatus* in Turkey is given on Fig. 12.

***Agriot es brevis* CANDÈZE, 1863**

**Material examined:** Antalya: Kaş, 21.IV.1984, under stone, 1 ex.; Çanakkale: Çan, 22.IV.1975, weeds, 1 ex.; Eskişehir: Sivrihisar, 04.V.1979, weeds, 1 ex.; Kırklareli: Central province, 02.VI.1975, *Paliurus* sp., 1 ex., Lüleburgaz, 09.V.1974, *Petroselinum crispum* MILLER, 1925, 2 exs., totally 6 specimens.

**Distribution in Turkey:** Türkiye (LODOS 1998; LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Batı Anadolu, İzmir, Karaman, Mersin (Tarsus) (SAHLBERG 1912-1913); İzmir [Bayraklı, Ödemiş-Bozdağ, Büyükçavdar] (GULPERCİN & TEZCAN 2009). Distributional map of *A. brevis* in Turkey is given on Fig. 13.

***Agriot es lapicida* FALDERMANN, 1835**

**Material examined:** Manisa: Demirci, 14.VII.1977, *Nicotiana tabacum* LINNAEUS, 1753, 2 exs., totally 2 specimens.

**Distribution in Turkey:** Türkiye (LODOS 1998); Malatya (Darende-Yukarıulupınar) (MERTLIK & PLATIA 2008); Distributional map of *A. lapicida* in Turkey is given on Fig. 14.

***Agriot es proximus* SCHWARZ, 1891**

**Material examined:** Artvin: Hopa, 07.VII.1978, *Rubus* sp., 1 ex.; Sakarya: Sapanca, 25.IV.1975, *Medicago sativa* LINNAEUS, 1753, 1 ex., totally 2 specimens.

**Distribution in Turkey:** Turkey (LODOS 1998; LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Bolu (Abant Lake), Bursa (Uludağ), Erzurum (Aşkale), Kastamonu (İlgaz Mountain) (GUGLIELMI & PLATIA 1985); Ankara (Ayaş, Çubuk, Evren, Kızılcahamam, Gütül) (KABALAK & SERT 2005); Aksaray (Ortaköy), Ankara (Ayaş, Çankaya), Çankırı (Korgun), Eskişehir (Mahmudiye, Seyitgazi), Kayseri (Bünyan, Develi, Özvatan, Pınarbaşı, Sarız, Tomarza), Kırşehir (Central province, Akçakent, Akpınar, Kaman), Konya (Beyşehir, Çumra, Selçuklu, Seydişehir), Niğde (Ulukışla), Sivas (Central province, Divriği, Gemerek, Hafik, Imranlı, Şarkışla, Yıldızeli, Zara),

Yozgat (Central province, Akdağmadeni, Çandır, Çekerek, Sarıkaya) (KABALAK & SERT 2011); Giresun (Şebinkarahisar) (GULPERCIN & TEZCAN 2012b). Distributional map of *A. proximus* in Turkey is given on Fig. 15.

***Agriotes sordidus* (ILLIGER, 1807)**

Material examined: Adana: Central province, 10.VI.1972, *Vicia sativa* LINNAEUS, 1753, 2 exs.; Antalya: Muratpaşa-Sinan, 11.VII.1978, *Rosa* sp., 1 ex., totally 3 specimens.

Distribution in Turkey: Turkey (LODOS 1998); Turkey [Known from western Mediterranean, it is improbable that the taxon occurs in Turkey (MERTLIK & PLATIA 2008)]; Ankara (Nallıhan-Atça ayrımı) (KABALAK & SERT 2005). Distributional map of *A. sordidus* in Turkey is given on Fig. 16.

**Genus *Ampedus* DEJEAN, 1833**

***Ampedus cinnaberinus* (ESCHSCHOLTZ, 1829)**

Material examined: Izmir: Foça-Taşköy, 11.VI.1973, *Juniperus* sp., 1 ex., totally 1 specimen.

Distribution in Turkey: Turkey [as *Ampedus cinnabarinus* (ESCHSCHOLTZ, 1829)] (LÖBL & SMETANA 2007); Turkey (MERTLIK & PLATIA 2008); Artvin [Genya Mountain, (Madenler)], Bingöl, Erzurum (Oltu (Sütkans), Şenkaya (Turnalı), Gümüşhane (KESDEK et al. 2006). Distributional map of *A. cinnaberinus* in Turkey is given on Fig. 17.

***Ampedus elegantulus* (SCHÖNHERR, 1817)**

Material examined: Izmir: Karaburun, 16.IV.2003, *Pinus* sp., 1 ex., Kemalpaşa-Nif, 1377 m, 25.V.2004, under bark, 1 ex.; Kütahya: Central province, 16.VI.1976, *Quercus* sp., 1 ex.; Mersin: Namrun, 28.IV.1985, *Pinus* sp., 1 ex., totally 4 specimens.

Distribution in Turkey: Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Ankara (Akyurt, Çubuk) (KABALAK & SERT 2005); Ankara (Hacıkadın), Yozgat (KESDEK et al 2006); Izmir (Ödemiş-Bozdağ) (GULPERCIN & TEZCAN 2009); Aksaray (Güzelyurt), Çankırı (Central province), Karaman (Central province), Konya (Derbent) (KABALAK & SERT 2011); Isparta (Uluborlu), Izmir (Ödemiş-Bozdağ), Konya (Akşehir), Ordu (Central province) (GULPERCIN & TEZCAN 2012b). Distributional map of *A. elegantulus* in Turkey is given on Fig. 18.

***Ampedus elongatulus* (FABRICIUS, 1787)**

Material examined: Ordu: Central province, 06.V.1971, *Corylus* sp., 1 ex., totally 1 specimen.

Distribution in Turkey: Turkey [as *Elater elongatulus* FABRICIUS, 1787] (SCHMITSCHEK 1953); Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Anatolia [as *Elater elongatulus bodemeyeri* REITTER, 1906] (SAHLBERG 1912-1913); Anatolia, Sinop (Ayancık) [as *Elater elongatulus bodemeyeri* REITTER, 1906] (BODEMEYER 1900; SCHMITSCHEK 1953); Bolu (Bolu Mountain-Kaynaşlı) [as *Ampedus glycereus* (HERBST, 1784)] (PLATIA & GUDENZI 2000); Izmir [Kemalpaşa (Central

province, Kurudere) Ödemiş (Bozdağ)] (GULPERCIN & TEZCAN 2009). Bolu (Mengen, Yedigöller), Rize (Fener) (GULPERCIN & TEZCAN 2012b). Distributional map of *A. elongatulus* in Turkey is given on Fig. 19.

***Ampedus lenkoranus* (REITTER, 1889)**

**M a t e r i a l e x a m i n e d :** Sakarya: Hendek, 16.V.1973, *Crataegus* sp., 2 exs., totally 2 specimens.

**D i s t r i b u t i o n i n T u r k e y :** First record for Turkey. Distributional map of *A. lenkoranus* in Turkey is given on Fig. 20.

**Genus *Peripontius* GURJEVA, 1979**

***Peripontius concolor* (DESBROCHERS DES LOGES, 1875)**

**M a t e r i a l e x a m i n e d :** Antalya: Kumluca, 20.V.1986, *Styrax* sp., 1 ex.; Bursa: Central province, 23.V.1973, *P. avium*, 1 ex.; Gümüşhane: Torul, 10.VII.1978, *Salix* sp., 1 ex.; Izmir: Bergama, 24.V.2003, *Platanus* sp., 1 ex., Beydağ, 04.V.2004, *Rubus* sp., 1 ex., Karaburun-Mordoğan, 08.VI.2004, *P. persica*, 2 exs., Kemalpaşa-Armutlu, 15.V.2003, *Rubus* sp., 3 exs., 11.VI.2003, *P. avium*, 1 ex., 27.IV.2004, *P. avium*, 5 exs., Kemalpaşa-Çambel, 25.V.2004, *Quercus* sp., 3 exs., Kemalpaşa-Kurudere, 15.V.2003, *J. regia*, 1 ex., Kemalpaşa-Nif Dağı, 25.V.2004, *J. regia*, 2 exs., Kahramanmaraş: Central province, 01.V.1986, *Styrax* sp., 1 ex.; totally 23 specimens.

**D i s t r i b u t i o n i n T u r k e y :** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Antalya (Korkuteli) (GUGLIELMI & PLATIA 1985); Adana (Central province, Feke, Saimbeyli), Antalya (Central province, Akseki, Gündoğmuş, Kaş, Korkuteli, Saklıkent), Aydın (Köşk), Balıkesir (Bandırma-Edincik, Dursunbey, Kepsut), Bilecik (Vezirhan), Denizli (Honaz), Hatay (Antakya-Central province, Yayladağı), İzmir (Ödemiş, Ödemiş-Bozdağ), Kahramanmaraş (Andırın, Andırın (1220 m), Göksun), Karaman (Ermenek), Kayseri (Pınarbaşı), Kütahya (Domaniç, Örencik), Malatya (Tepehan-Sinan), Manisa (Central province), Mersin (Anamur, Gözne, Gülnar, Mut, Silifke), Muğla (Central province), Osmaniye [Zorkun, Zorkun Yaylası (1280 m)] (GULPERCIN & TEZCAN 2012b). Distributional map of *P. concolor* in Turkey is given on Fig. 21.

**Genus *Porthmidius* GERMAR, 1847**

***Porthmidius austriacus* (SCHRANK, 1781)**

**M a t e r i a l e x a m i n e d :** Kırklareli: Pınarhisar, 07.VI.1975, *Populus* sp., 1 ex., totally 1 specimen.

**D i s t r i b u t i o n i n T u r k e y :** Turkey (WINKLER 1924-1932; LESEIGNEUR 1970; TARNAWSKI 1984; LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008; ANONYMOUS 2009). Distributional map of *P. austriacus* in Turkey is given on Fig. 22.



**Genus *Synaptus* ESCHSCHOLTZ, 1829*****Synaptus filiformis* (FABRICIUS, 1781)**

**Material examined:** Kahramanmaraş: Nurhak Mountain, 22.VII.1984, 44 exs., totally 44 specimens.

**Distribution in Turkey:** Turkey (LÖBL & SMETANA 2007; MERTLIK & PLATIA 2008); Western Anatolia, Denizli (Babadağ) (SAHLBERG 1912-1913); Karaman, Mersin (Tarsus) [as *Synaptus filiformis erivanus* FALDERMANN, 1835] (SAHLBERG 1912-1913); Western Anatolia [as *Synaptus filiformis levantinus* SAHLBERG, 1913] (SAHLBERG 1912-1913); Anatolia [as *Synaptus filiformis levantinus* SAHLBERG, 1913] (SCHENKLING 1925-1927); Marmara and Thrace Regions, Kocaeli (Izmit), Osmaniye, Sakarya (Akyazı) (SEKENDİZ 1974); Çanakkale (Küçükkuyu), Kastamonu (Central province, Ilgaz Mountain Pass), Malatya (Eskimalatya), Samsun (Bafra), Zonguldak (Karabük) (GUGLIELMI & PLATIA 1985); Çanakkale (Küçükkuyu), Kastamonu (Central province, Ilgaz Mountain Pass), Malatya (Eskimalatya), Samsun (Bafra), Zonguldak (Karabük) [as *Synaptus filiformis levantinus* SAHLBERG, 1913] (GUGLIELMI & PLATIA 1985); Ankara (Akyurt, Ayaş, Beypazarı, Elmadağ, Kızılcahamam, Nallıhan) (KABALAK & SERT 2005); Ankara (Central province, Hacıkadın, Mamak, Nallıhan, Yenimahalle), Antalya (Gazipaşa), Ardahan, Artvin [Şavşat (Yavuzköy), Yusufeli (Altparmak Mountain), Sarıgöl], Aydın (Çine), Bingöl [Solhan (Yenibaşak)], Erzurum (Narman, Oltu, Pasinler, Şenkaya (Turnalı), Tortum, Alapınar, Uzundere], Eskişehir [Bozan (Beylikhisar)], Hatay (Erzin), Kars [Sarıkamış (Karakurt)], Konya [Beyşehir (Gökçimen)], Kütahya (KESDEK et al. 2006); İzmir [Bornova (Central province, Pınarbaşı, Zeytinköy), Ödemiş (Central province, Bozdağ)] (GULPERCİN & TEZCAN 2009); Aksaray (Central province, Güzelyurt), Ankara (Ayaş, Beypazarı, Elmadağ), Çankırı (Şabanözü), Eskişehir (Central province, Mihalgazi, Mihalıççık, Sarıcakaya), Karaman (Central province, Başyayla, Ermenek), Kayseri (Central province, Develi, Felahiye, Incesu, Özvatan, Sarıoğlan, Sarız, Yahyalı, Yeşilhisar), Kırşehir (Central province, Akpınar, Kaman), Konya (Akören, Akşehir, Derebucak, Hadım, Ilgın, Sarayönü, Seydişehir, Yunak), Nevşehir (Acıgöl, Ürgüp), Niğde (Central province, Çamardı, Ulukışla), Sivas (Central province, Divriği, Doğanşar, Gemerek, Gürün, Hafik, Imranlı, Koyulhisar, Suşehri, Şarkışla, Yıldızeli, Zara), Yozgat (Central province, Akdağmadeni, Çandır, Çayıralan, Sarıkaya, Yerköy) (KABALAK & SERT 2011). Adana (Tufanbeyli), Afyonkarahisar (Anıtkaya, Sincanlı), Ankara (Central province), Antalya (Manavgat), Artvin (Central province), Balıkesir (Kepsut, Manyas, Susurluk), Bartın (Central province, Ulus), Bilecik (Central province, Bozöyük, Gölpazarı), Bitlis [Mutki Road (10 km)], Bolu (Mengen), Bursa (Central province), Çanakkale (Gökçeada), Denizli (Honaz), Düzce (Akçakoca), Edirne (Lalapaşa), Gaziantep (Central province), Gümüşhane (Mertekli), İzmir (Bornova, Kemalpaşa-Çambel, Menemen, Ödemiş, Ödemiş-Bozdağ, Ödemiş-Bozdağ-Büyük Çavdar, Zeytinköy), Kahramanmaraş (Afşin, Andırın, Göksun), Karabük (Central province), Kastamonu (Tosya), Kayseri (Pınarbaşı), Kırklareli (Central province, İkizdere, Pınarhisar), Kırşehir (Kaman), Konya (Akşehir, Ereğli), Kütahya (Central province, Domaniç, Örencik, Tavşanlı-Tepecik), Manisa (Demirci, Ömerli), Mardin (Bozhöyük), Muğla (Dalaman), Rize (Ardeşen), Sakarya (Taraklı), Şırnak (İdil-Peçenek), Tekirdağ (Central province, Barbaros), Tokat (Central province), Uşak (Central province), Zonguldak (Çaycuma) (GULPERCİN & TEZCAN 2012b). Distributional map of *S. filiformis* in Turkey is given on Fig. 23.

In consequence of this study, it has been observed that a total of 132 specimens of 23 species belonging to 12 genera of Elateridae (Coleoptera) have been reported from the collection of Lodos Entomological Museum, Turkey (LEMT). Among these *Adrastus temperei* LESEIGNEUR, 1974 and *Ampedus lenkoranus* (REITTER, 1889) are first records for Turkish Elateridae fauna.



Fig. 1: Distribution of *Aeoloderma crucifer* (ROSSI, 1790) in Turkey.



Fig. 2: Distribution of *Aeoloides grisescens* (GERMAR, 1844) in Turkey.



Fig. 3: Distribution of *Calais parreyssi* (STEVEN, 1829) in Turkey.

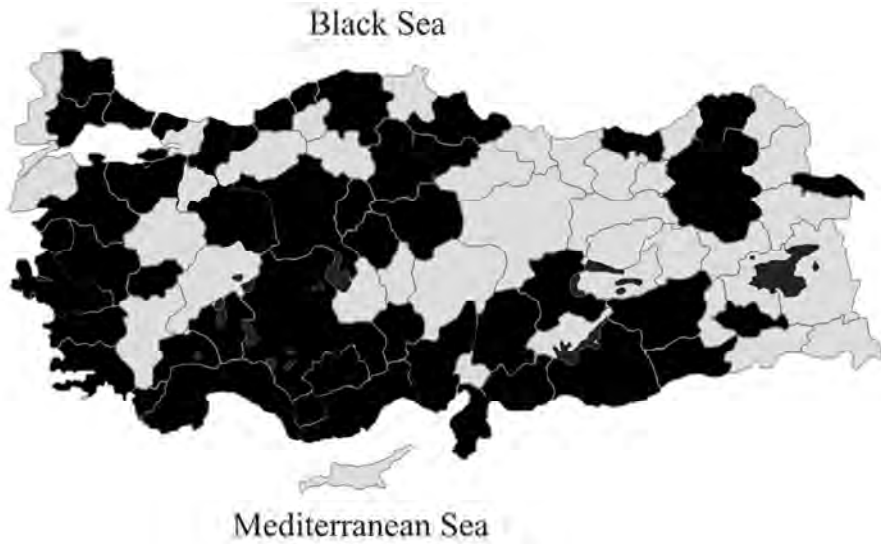


Fig. 4: Distribution of *Drasterius bimaculatus* (ROSSI, 1790) in Turkey.



Fig. 5: Distribution of *Lanelater judaicus* (REICHE & SAULCY, 1857) in Turkey.

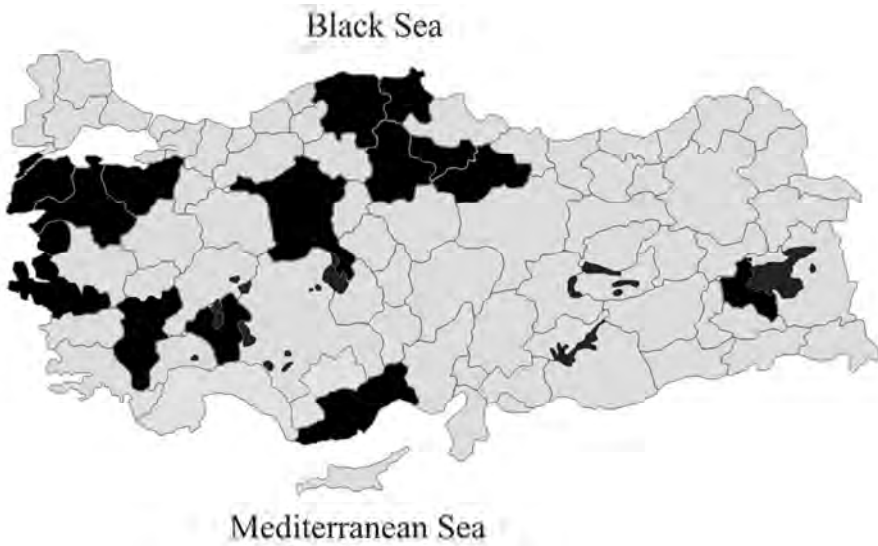


Fig. 6: Distribution of *Dicronychus cinereus* (HERBST, 1784) in Turkey.

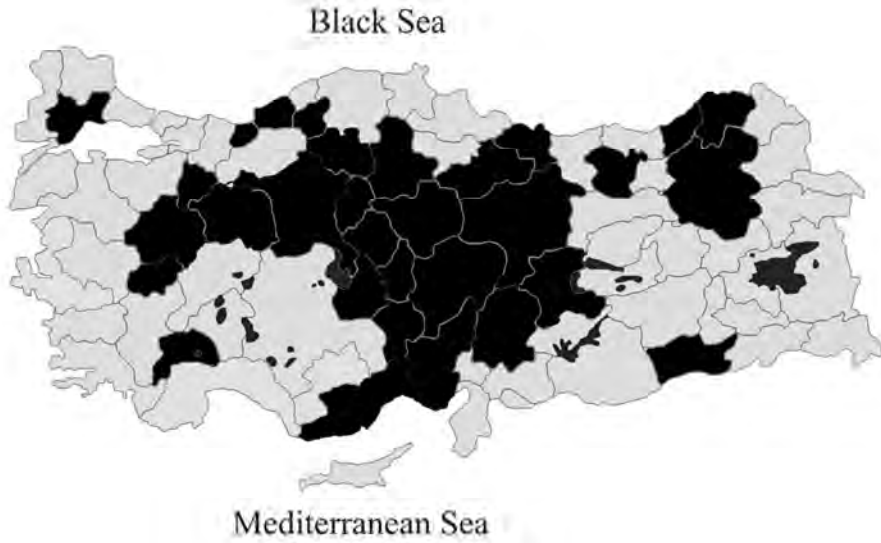


Fig. 7: Distribution of *Adrastus anatolicus* PLATIA & SCHIMMEL, 1991 in Turkey.

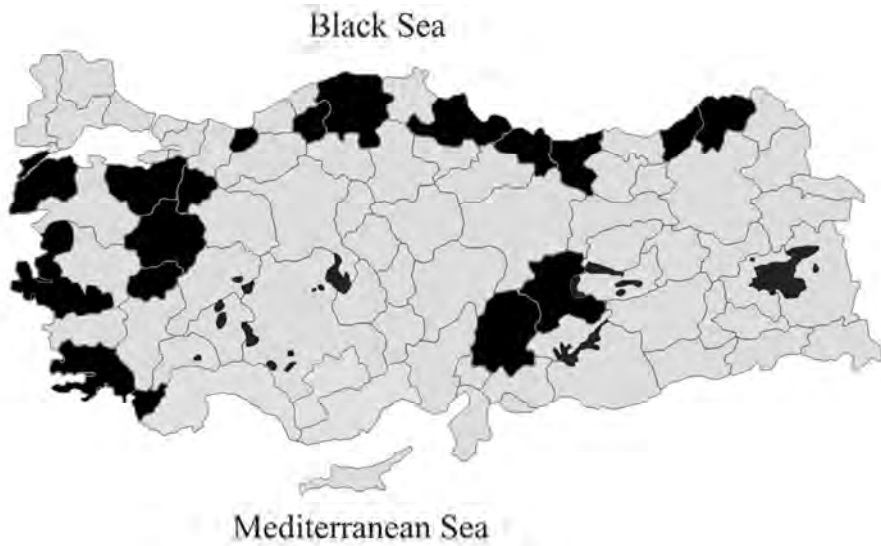
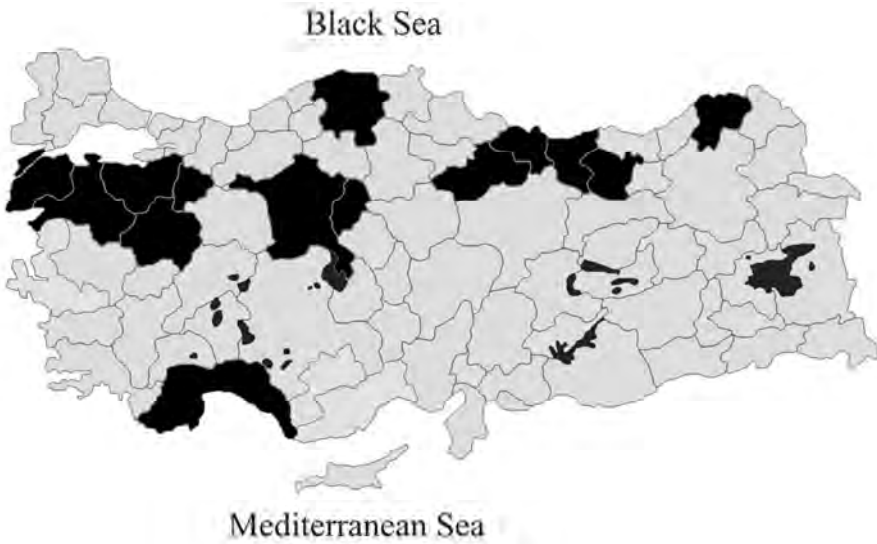


Fig. 8: Distribution of *Adrastus limbatus* (FABRICIUS, 1777) in Turkey.



**Fig. 9:** Distribution of *Adrastus longicornis* GURJEVA, 1976 in Turkey.



**Fig. 10:** Distribution of *Adrastus montanus* (SCOPOLI, 1763) in Turkey.



Fig. 11: Distribution of *Adrastus temperei* LESEIGNEUR, 1974 in Turkey.

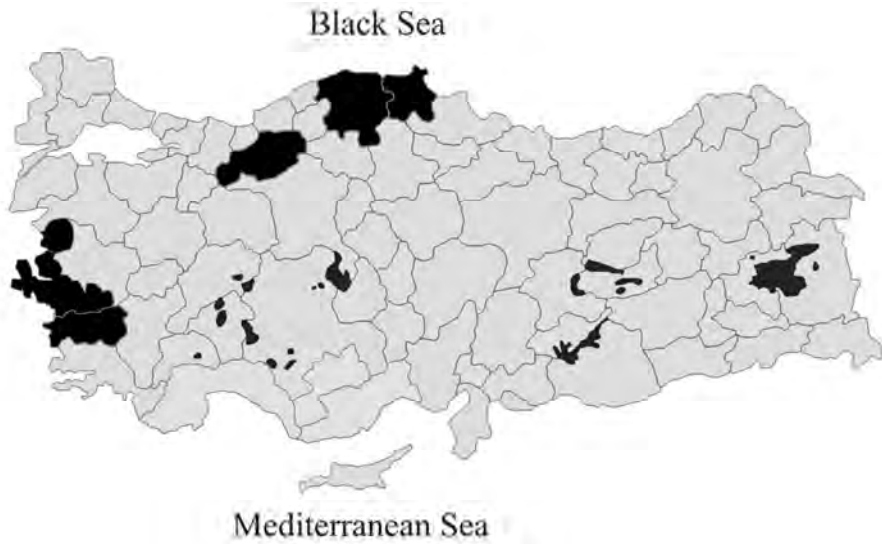


Fig. 12: Distribution of *Agriotes acuminatus* (STEPHENS, 1830) in Turkey.

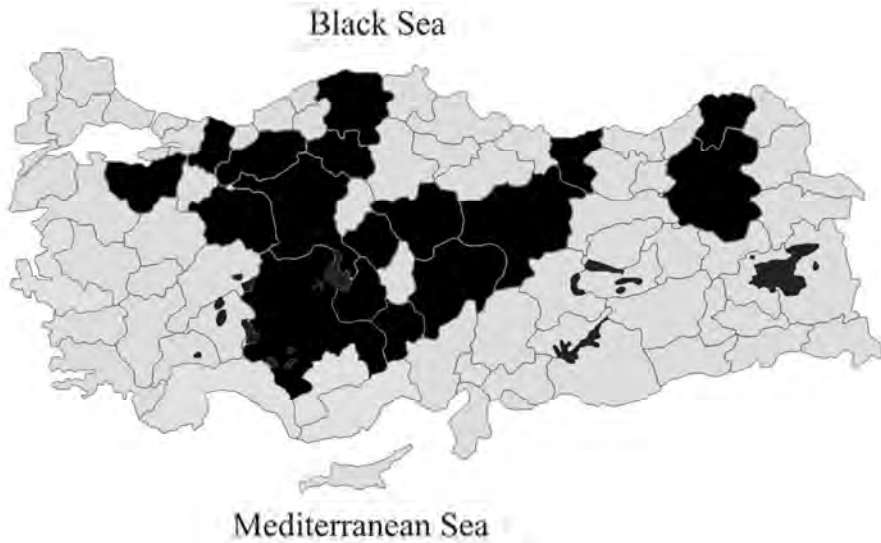


Fig. 13: Distribution of *Agriotes brevis* CANDÈZE, 1863 in Turkey.



Fig. 14: Distribution of *Agriotes lapicida* FALDERMANN, 1835 in Turkey.





**Fig. 15:** Distribution of *Agriotes proximus* SCHWARZ, 1891 in Turkey.



**Fig. 16:** Distribution of *Agriotes sordidus* (ILLIGER, 1807) in Turkey.



Fig. 17: Distribution of *Ampedus cinnaberinus* (ESCHSCHOLTZ, 1829) in Turkey.



Fig. 18: Distribution of *Ampedus elegantulus* (SCHÖNHERR, 1817) in Turkey.

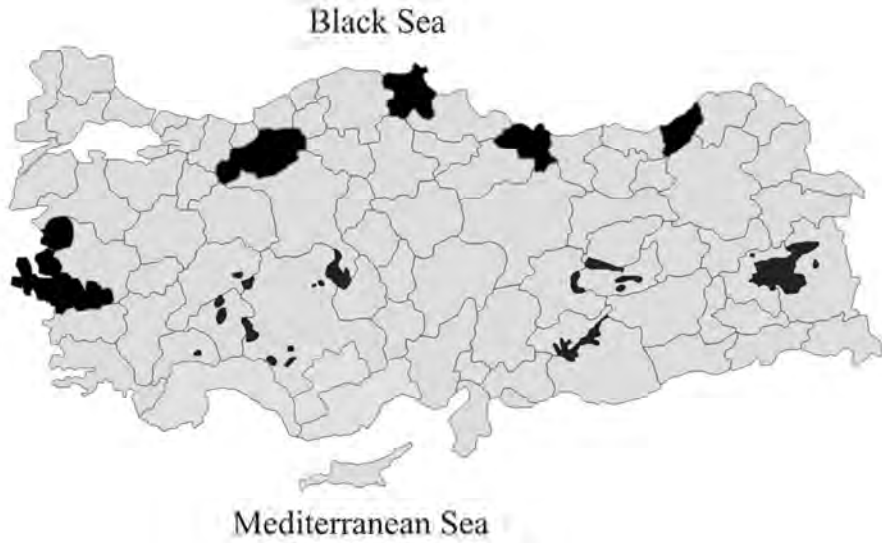


Fig. 19: Distribution of *Ampedus elongatulus* (FABRICIUS, 1787) in Turkey.



Fig. 20: Distribution of *Ampedus lenkoranus* (REITTER, 1889) in Turkey.



Fig. 21: Distribution of *Peripontius concolor* (DESBROCHERS DES LOGES, 1875) in Turkey.



Fig. 22: Distribution of *Porthmidius austriacus* (SCHRANK, 1781) in Turkey.



Fig. 23: Distribution of *Synaptus filiformis* (FABRICIUS, 1781) in Turkey.

### Zusammenfassung

Vorliegende Arbeit behandelt Material der Unterfamilien Agrypninae, Cardiophorinae und Elaterinae (Elateridae), welches im Zeitraum 1971 bis 2008 an verschiedenen Orten in der Türkei aufgesammelt wurde. Acht Arten aus sieben Gattungen konnten nachgewiesen werden, die Funddaten nebst Verbreitungsangaben für die Türkei wurden festgehalten.

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Autor(en)/Author(s): Gülpercin Nilay, Tezcan Serdar

Artikel/Article: [Two new records and some additional notes on Elateridae \(Coleoptera\) fauna of Turkey 545-567](#)