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## **Contribution to the knowledge of the Elaterinae (Coleoptera, Elateridae) fauna of Turkey**

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**A b s t r a c t :** This study is based upon material collected from different localities in Turkey between 1948 and 2005 on the material of Elaterinae. As a result, totally 22 Elaterinae species were recorded in eight genera. In addition, new localities have been found for some species which have already been reported in Turkey.

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

### **Introduction**

Turkey is one of the most interesting countries located in the West Palaearctic region, where most of the insect families including Elateridae are known to survive. Thus, some faunistic studies about the family Elateridae have been conducted by some foreign and native researchers in Turkey. The fauna of this family is quite rich and the studies of SAHLBERG 1912-1913, GUGLIELMI & PLATIA 1985, LODOS 1998, KABALAK & SERT 2005, 2011, GULPERCIN & TEZCAN 2006, 2009, 2011, KESDEK et al. 2006, LOBL & SMETANA 2007 and MERTLIK & PLATIA 2008 have great importance. A short time since the distributional catalogue of Turkish Elateridae (Coleoptera) fauna has been published (GULPERCIN & TEZCAN 2010). In this publication, a total of 173 species belonging to 26 genera of Elaterinae subfamily have been listed with their distributional data.

In our study, the present situation of Elaterinae in Turkey was evaluated. Data on some material of Elaterinae have been collected but have not been published up to now within the research projects by the researchers of Department of Plant Protection, Faculty of Agriculture, University of Ege, Izmir, Turkey, during 1948-2005 have been given in this paper. They were deposited in the collection of Lodos Entomological Museum, Turkey (LEMT) of the same department. The aim of the present study is to contribute to the knowledge of the Elaterinae fauna of the Turkey by evaluating the material deposited in this museum.

Provinces of the collected specimens are given in alphabetical order in the following list.

### **Results**

In this study, 22 species belonging to eight genera from Elaterinae are recorded. As a

result, a total 773 specimens from 22 species belonged to subfamily Elaterinae of the family of Elateridae were recorded in Turkey. Recent distribution of each species were also given with maps within the text.

## Family *Elateridae* LEACH 1815

### Subfamily *Elaterinae* LEACH 1815

#### Tribe *Adrastini* CANDÉZE 1863

#### Genus *Adrastus* ESCHSCHOLTZ 1829

##### *Adrastus anatolicus* PLATIA & SCHIMMEL 1991

**Material examined:** Artvin: Hopa, 07.VII.1978, *Rubus* sp., 1 ex.; Bilecik: Central province, 07.VI.1973, *Prunus persica* (LINNAEUS 1753) BATSCH 1801, 3 exs., 08.VII.1976, *Humulus lupulus* LINNAEUS 1753, 2 exs., 15.VI.1977, *H. lupulus*, 1 ex.; Burdur: Göllhisar, 10.VI.1975, weeds, 1 ex.; Corum: Osmancık, 07.VI.1970, weeds, 1 ex.; Düzce: Yiğilca, 01.VII.1979, *Rubus* sp., 1 ex.; Erzurum: Kop, 10.VII.1978, weeds, 1 ex., Oltu, 23.VI.1988, 1 ex.; Gümüşhane: Central province, 14.VII.1982, *Salix* sp., 1 ex.; Kahramanmaraş: Göksun, 14.VI.1985, weeds, 5 exs.; Karabük: Eskipazar, 13.VII.1979, *Malus domestica* BORKH. 1803, 2 exs., *Medicago sativa* LINNAEUS 1753, 2 exs.; Mardin: Mazi Dağı (1200 m), 05.VI.1976, weeds, 1 ex.; Ordu: Kumru, 07.VII.1976, *H. lupulus*, 4 exs., 13.VII.1978, weeds, 1 ex.; Rize: Central province, 10.VI.1973, weeds, 4 exs.; Sivas: Suşehri, 12.VII.1978, *Populus* sp., 1 ex.; Tekirdağ: Central province, 01.VI.1975, umbelliferous plant, 1 ex.; Tokat: Central province, 02.VII.1978, *Acacia* sp., 4 exs., weeds, 4 exs.; Uşak: Central province, 16.VI.1975, weeds, 1 ex.; Zonguldak: Çaycuma, 16.VII.1979, *Alnus* sp., 3 exs., *Platanus* sp., 1 ex. Totally 47 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Adana, Ankara (Central province, Ayaş, Gölbaşı, Polatlı), Artvin [Yusufeli (Altıparmak Dağı)], Erzurum (Narman, Oltu, Şenkaya (Turnalı), Uzundere), Eskişehir, Kütahya, Malatya, Mersin [Erdeмли (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). Distributional map of *A. anatolicus* in Turkey is given on Fig. 1.

##### *Adrastus dolini* WELLSCHMIED 1978

**Material examined:** Rize: Central province, 10.VI.1973, weeds, 3 exs. Totally 3 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Rize (PLATIA & GUDENZI 1998). Distributional map of *A. dolini* in Turkey is given on Fig. 2.

***Adrastus limbatus* (FABRICIUS 1777)**

**Material examined:** Bursa: Central province, 18.VII.1972, *M. sativa*, 3 exs.; Canakkale: Eceabat, 31.V.1976, weeds, 2 exs.; Düzce: Central province, 15.VII.1979, on the ground, 1 ex.; Karabük: Eskipazar, 13.VII.1979, *M. domestica*, 8 exs., *M. sativa*, 1 ex., *Prunus domestica* LINNAEUS 1753, 1 ex.; Kastamonu: Küre, 19.VII.1979, *Quercus* sp., 1 ex.; Kütahya: Domaniç, 17.VI.1972, *Populus* sp., 3 exs.; Malatya: Central province, 19.VI.1983, weeds, 1 ex.; Muğla: Dalaman, 04.V.1972, *Medicago* sp., 3 exs., 14.V.1972, *P. persica*, 1 ex.; Rize: Central province, 11.VI.1970, *Camella sinensis* (LINNAEUS 1753) KUNTZE 1887, 1 ex., *Citrus* sp., 1 ex., 10.VI.1973, *Morus alba* LINNAEUS 1753, 2 exs., *P. persica*, 1753, 2 exs., weeds, 6 exs.; Uşak: Central province, 10.VI.1972, *Rubus* sp., 1 ex. Totally 38 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Samsun (Central province) (GUL-ZUMREOGLU 1972); İzmir (GULPERCIN & TEZCAN 2006); İzmir [Bayındır, Kemalpaşa (Armutlu, Ören, Yukarıkızılca), Selçuk (Belevi)] (GULPERCIN & TEZCAN 2009). Distributional map of *A. limbatus* in Turkey is given on Fig. 3.

***Adrastus longicornis* GURJEVA 1976**

**Material examined:** Artvin: Central province, 1971, *C. sinensis*, 1 ex., *Citrus* sp., 2 exs., 12.VI.1973, weeds, 1 ex.; Hopa-Sarp, 08.VII.1978, weeds, 1 ex.; Bolu: Mengen, 13.IV.1979, light traps, 1 ex.; Erzurum: 13.VII.1988, 1 ex., Oltu, 08.VI.1988, 2 exs., 09.VI.1988, 1 ex., 16.VI.1988, 1 ex.; Giresun: Central province, 08.VI.1973, *Ulmus* sp., 1 ex.; Kahramanmaraş: Nurhakdağı, 23.VII.1984, *Salix* sp., 1 ex.; Ordu: Kumru, 13.VII.1978, weeds, 2 exs.; Rize: Ardeşen, 07.VII.1978, *Alnus* sp., 1 ex. Totally 16 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Giresun (PLATIA & GUDENZI, 1998). Distributional map of *A. longicornis* in Turkey is given on Fig. 4.

***Adrastus montanus* (SCOPOLI 1763)**

**Material examined:** Bahçesir: Bandırma-Edincik, 10.VI.1970, *Corylus avellana* LINNAEUS 1753, 5 exs., *Mespilus germanica* LINNAEUS 1763, 1 ex., *Olea europaea* LINNAEUS 1758, 1 ex., *Populus* sp., 1 ex., *P. domestica*, 2 exs., Gönen, 11.VI.1970, *Prunus* sp., 1 ex., Kepsut, 09.VI.1970, *Pyrus communis* LINNAEUS 1752, 1 ex.; Bilecik: Central province, 08.VII.1976, *H. lupulus*, 3 exs., *H. lupulus*, 3 exs., Pazaryeri, 07.VII.1976, *H. lupulus*, 4 exs., 14.VI.1977, *H. lupulus*, 2 exs.; Canakkale: Biga, 12.VI.1970, *Prunus* sp., 1 ex.; Kastamonu: İnebolu, 08.VI.1980, *Rubus* sp., 1 ex. Totally 26 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Ankara (Bağlum, Hacıkadın), Kütahya (YÜKSEL 1970); Bilecik (Central province, Pazaryeri), Bursa (Central province, İnebolu), Tokat (Almus) (PLATIA & GUDENZI, 1998); Ankara (Gölbaşı) (KABALAK & SERT 2011). Distributional map of *A. montanus* in Turkey is given on Fig. 5.

***Adrastus pallens* (FABRICIUS 1792)**

**Material examined:** Artvin: Borçka, 12.VI.1973, weeds, 1 ex.; Bahçesir: Bandırma-Edincik, 10.VI.1970, *C. avellana*, 1753, 1 ex., Gönen-Tahirova, 12.VI.1970, *Salix* sp., 1 ex., Manyas, 11.VI.1970, *M. domestica*, 1 ex.; İzmir: Ödemiş-Pirinççi, 28.V.1969, weeds, 1 ex.; Kayseri: Pınarbaşı, 03.VI.1970, *Juglans regia* LINNAEUS 1753, 12 exs.; Kütahya: Central province-Seyitömer (1220 m), 23.V.1971, *Pinus* sp. 1 ex.; Yalova: Central province, 02.VI.1971, *Populus* sp., 5 exs., *Salix* sp., 1 ex., Çınarcık, 04.VI.1971, *Tamarix* sp., 1 ex. Totally 25 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK &

PLATIA 2008); Western Anatolia, Denizli (Babadağ), İzmir (Central province, Selçuk-Efes) / as *Adrastus nitidulus* MARSHAM 1902 (SAHLBERG 1912-1913); İzmir (Bornova-Pınarbaşı, Ödemiş-Pirinççi) (TEZCAN & GULPERCİN 2009). Distributional map of *A. pallens* in Turkey is given on Fig. 6.

### Genus *Peripontius* GURJEVA 1979

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

**Material examined:** Adana: Central province, 13.VIII.1971, light traps, 1 ex., Feke, 04.V.1986, *J. regia*, 3 exs., 04.V.1985, under bark, 1 ex., Saimbeyli, 15.VI.1985, *Paliurus* sp., 1 ex., 04.V.1986, *J. regia*, 1 ex., 11.VII.1986, *Tamarix* sp., 2 exs.; Antalya: Central province, 28.IV.1972, *Prunus armeniaca* LINNAEUS 1753, 3 exs., 18.V.1986, *Quercus ilex* LINNAEUS 1753, 1 ex., Akseki, 22.VI.1981, *Juniperus* sp., 1 ex., *Pinus* sp., 1 ex., Gündoğmuş, 26.V.1986, *Cydonia oblonga* MILLER 1768, 2 exs., *M. domestica*, 1 ex., *Solanum tuberosum* LINNAEUS 1753, 1 ex., *P. domestica*, 1 ex., Kaş, 22.V.1986, *Euphorbia* sp., 1 ex., Korkuteli, 25.VI.1980, *Astragalus* sp., 2 exs., Saklıkent, 07.VII.1983, *Vicia* sp., 1 ex.; Aydın: Köşk, 24.IV.1972, *Punica granatum* LINNAEUS 1753, 1 ex., *P. domestica*, 3 exs.; Balıkesir: Bandırma-Edincik, 10.VI.1970, *Laurus* sp., 1 ex., *M. germanica*, 1 ex., *P. domestica*, 4 exs., Dursunbey, 18.V.1971, *Myrtus* sp., 3 exs., Kepsut, 09.VI.1970, *M. germanica*, 1 ex., *Populus* sp., 1 ex., *P. cerasus*, 1 ex., *P. communis*, 1 ex.; Bilecik: Vezirhan, 06.V.1973, *M. domestica*, 1 ex.; Denizli: Honaz, 10.V.1972, *Rubus* sp., 1 ex., 11.V.1972, *P. persica*, 1 ex.; Hatay: Antakya-Central province, 28.IV.1986, weeds, 1 ex., Yayladağı, 10.VII.1984, *Platanus* sp., 1 ex.; İzmir: Ödemiş, 25.IV.1973, *C. oblonga*, 1 ex., Ödemiş-Bozdağ, 24.V.1972, *Rosa* sp., 2 exs.; Kahramanmaraş: Andırın (1220 m), 09.VI.1985, *Platanus* sp., 2 exs., Andırın, 09.VI.1985, *Syrax* sp., 1 ex., Gökşun, 01.V.1986, *Platanus* sp., 1 ex.; Karaman: Ermenek, 26.IV.1979, *P. granatum*, 1 ex., 03.VII.1980, *Tamarix* sp., 1 ex.; Kayseri: Pınarbaşı, 03.VI.1970, *Cerasus avium* (LINNAEUS 1755) MOENCH 1794, 1 ex., *Eriobotrya japonica* (THUNBERG) LINDLEY 1821, 1 ex., *J. regia*, 5 exs., Pınarbaşı, 03.VI.1970, *P. persica*, 16 exs., *P. granatum*, 3 exs.; Kütahya: Domaniç, 20.V.1971, *Populus* sp., 1 ex.; *Prunus cerasus* LINNAEUS 1753, 2 exs., Örencik, 20.V.1971, *Populus* sp., 1 ex.; Malatya: Tepehan-Sinan, 19.V.1986, *P. domestica*, 1 ex.; Manisa: Central province, 31.V.1999, knock down, 1 ex.; Mersin: Anamur, 23.V.1984, *Paliurus spina-christii* MILLER 1768, 2 exs., 03.VII.1986, *Platanus* sp., 1 ex., Gözne, 26.IV.1985, *Q. ilex*, 1 ex., Gülnar, 24.V.1984, *Quercus* sp., 1 ex., Mut, 22.IV.1985, *Vitis vinifera* LINNAEUS 1758, 1 ex., Silifke, 27.V.1984, *Laurus* sp., 1 ex., *Salix* sp., 1 ex., 28.V.1984, *Quercus* sp., 1 ex., 29.V.1984, *Laurus* sp., 1 ex.; Muğla: Central province, 05.VI.1973, *Pistacia vera* LINNAEUS 1753, 2 exs.; Osmaniye: Zorkun, 08.V.1985, *Fagus* sp., 1 ex., Zorkun Yaylası (1280 m), 08.VI.1984, *Platanus* sp., 1 ex. Totally 101 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Antalya (Korkuteli) (GUGLIELMI & PLATIA 1985). Distributional map of *P. concolor* in Turkey is given on Fig. 7.

#### *Peripontius dentatus* PLATIA & SCHIMMEL 1991

**Material examined:** Antalya: Saklıkent, 26.VII.1985, aerial collector, 1 ex.; Mersin: Anamur, 18.IV.1985, 1 ex. Totally 2 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008). Balıkesir [İda Mountain (Altıparmak, Ayıderesi, Beypınarı, Koçere)] (ONCUL et al. 2012). Distributional map of *P. dentatus* in Turkey is given on Fig. 8.

***Peripontius omissus* (BUYSSON 1889)**

**Material examined:** Antalya: Central province, 20.VI.1981, weeds, 1 ex., 29.V.1985, *Quercus* sp., 1 ex.; Bursa: Central province, 06.VI.1973, *P. domestica*, 3 exs.; Çanakkale: Gökçeada, 26.V.1975, weeds, 2 exs.; 27.V.1975, *Pyrus elaeagnifolia* PALLAS 1793, 1 ex.; Kahramanmaraş: Andırın (1220 m), 09.VI.1985, *Platanus* sp., 2 exs., Gavurdağı, 08.VI.1985, *J. regia*, 1 ex.; Mersin: Anamur, 18.IV.1985, *Cistus* sp., 2 exs., Silifke, 22.IV.1985, *Pinus* sp., 2 exs.; Hatay: Yayladağı, 01.VI.1985, *Platanus* sp., 1 ex. Totally 16 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Adana, Ankara (Central province, Hacıkadın), Antalya, Artvin [Şavşat (Yavuzköy), Yusufeli (Altıparmak Mountain)], Erzurum [Narman, Şenkaya (İçmesu), Uzundere (Çamlıyamaç)], Yozgat (KESDEK et al. 2006); Muğla [Bodrum (Aspat)] (GULPERCİN & TEZCAN 2011); Ankara (Kazan), Eskişehir (Mihalgazi, Mihalıççık), Kayseri (Develi, Yahyalı), Konya (Ahırlı, Bozkır, Hadim, Seydişehir), Niğde (Çamardı) (KABALAK & SERT 2011). Distributional map of *P. omissus* in Turkey is given on Fig. 9.

***Peripontius terminatus* (ERICHSON 1841)**

**Material examined:** Adana: Feke, 04.V.1986, *J. regia*, 1 ex., Karaisalı, 02.V.1985, *Quercus* sp., 1 ex., Pozantı, 01.VI.1984, aerial collector, 1 ex., Pozantı-Bürücek, 05.VI.1972, *Rosa* sp., 1 ex., Saimbeyli, 11.VII.1985, weeds, 1 ex.; Ankara: Nallıhan, 09.VII.1979, weeds, 1 ex.; Antalya: Central province, 17.V.1986, *Paliurus* sp., 1 ex., 19.V.1986, *Crataegus* sp., 1 ex., Akseki, 22.VI.1981, *Verbascum* sp., 1 ex., Akseki-Bucakkişla, 26.IV.1979, *Prunus dulcis* (MILLER 1768) D. A. WEBB 1967, 1 ex., Akseki-Fersin, 29.IV.1972, *P. dulcis*, 1 ex., Elmalı, 23.V.1986, *Q. ilex*, 1 ex., Finike, 02.V.1972, *P. elaeagnifolia*, 1 ex., Kaş, 03.V.1972, *P. dulcis*, 6 exs., Kaş-Korkuteli, 23.V.1986, aerial collector, 1 ex., Saklıkent, 26.VII.1985, aerial collector, 1 ex.; Aydın: Köşk, 24.IV.1972, *C. avium*, 2 exs., *J. regia*, 1 ex.; Balıkesir: Bandırma-Edincik, 10.VI.1970, *M. germanica*, 1 ex., *P. domestica*, 1 ex., Dursunbey, 18.V.1971, *Platanus* sp., 1 ex.; Bilecik: Vezirhan, 06.V.1973, *M. domestica*, 3 exs.; Bursa: Central province, 15.V.1973, weeds, 5 exs., Keles, 18.VII.1972, *J. regia*, 8 exs.; Giresun: Central province, 14.VI.1985, weeds, 1 ex.; Hatay: Antakya-Harbiye, 06.VI.1972, *P. domestica*, 2 exs.; Kahramanmaraş: Central province, 01.V.1986, *Styrax* sp., 1 ex., Ahırdağı, 10.VI.1985, weeds, 1 ex., Andırın (1220 m), 09.VI.1985, *Platanus* sp., 1 ex., Andırın, 09.VI.1985, *Quercus* sp., 1 ex., Gökşun, 14.VI.1985, weeds, 1 ex., Pazarcık, 07.VI.1985, *Celtis* sp., 3 exs., 07.VIII.1985, *Verbascum* sp., 1 ex.; Karabük: Central province, 29.V.1980, *P. communis*, 1 ex.; Karaman: Central province, 02.VII.1980, *Quercus* sp., 2 exs., Ermenek, 27.IV.1979, *Pinus* sp., 1 ex., 03.VII.1980, aerial collector, 1 ex., *Quercus* sp., 1 ex.; Kastamonu: Tosya, 08.VI.1980, *Elaeagnus angustifolia* LINNAEUS 1753, 1 ex., *Quercus* sp., 6 exs.; Kayseri: Pınarbaşı, 03.VI.1970, *J. regia*, 1 ex., *P. persica*, 5 exs., *P. granatum*, 1 ex.; Kütahya: Domaniç, 21.V.1971, *Salix* sp., 4 exs., *Sinapis* sp., 1 ex., *P. domestica*, 5 exs., 17.VI.1972, *Beta vulgaris* LINNAEUS 1753, 1 ex., *Salix* sp., 2 exs., Gediz, 20.V.1971, *Crataegus* sp., 1 ex., *M. domestica*, 1 ex., Tavşanlı, 18.V.1971, *Tamarix* sp., 2 exs.; Manisa: Central province, 27.V.1998, knock down, 1 ex., 07.VI.1999, sticky yellow trap, 2 exs., Akhisar, 31.V.1978, weeds, 1 ex.; Mersin: Anamur, 23.V.1984, *Cistus* sp., 1 ex., *P. spina-christii*, 5 exs., 28.V.1984, weeds, 1 ex., 18.IV.1985, *Pinus* sp., 1 ex., 03.VII.1986, *Platanus* sp., 1 ex., Arslanköy, 08.VII.1986, *Pinus* sp., 6 exs., Cennet, 13.VI.1972, *Celtis* sp., 1 ex., Gülnar, 28.V.1984, *Juniperus* sp., 1 ex., 04.VII.1986, *Quercus* sp., 2 exs., Güzeloluk, 25.IV.1985, *Quercus* sp., 1 ex., 26.V.1986, *Quercus* sp., 1 ex., 06.VII.1986, weeds, 1 ex., Gözne, 31.V.1984, *Juniperus* sp., 1 ex., *M. domestica*, 1 ex., Mut, 27.V.1984, *Cistus* sp., 1 ex., Silifke, 28.V.1984, *Quercus* sp., 1 ex., 29.V.1984, *Fagus* sp., 2 exs., Silifke-Uzuncahisar (1440 m), 28.V.1984, *Sambucus* sp., 1 ex., Silifke-Uzuncahisar (880 m), 05.VII.1986, weeds, 6 exs., Tarsus, 30.IV.1985, *Q. ilex*, 2 exs.; *Triticum aestivum* LINNAEUS 1753, 1 ex.; Taşobası, 05.VI.1972, *Rosa* sp., 2 exs.; Muğla: Central province, 06.V.1972, *P. elaeagnifolia*, 2 exs., 05.VI.1973, *P. vera*, 1 ex., 06.VI.1973, *P. dulcis*, 1 ex., Yatağan, 08.V.1972, *P. dulcis*, 2 exs.; Osmaniye: Düziçi, 07.VI.1984, *P. granatum*, 1 ex.; Tekirdağ: Central province, 22.V.1973, *P. persica*, 5 exs.; *P. persica*, 2 exs. Totally 150 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK &

PLATIA 2008); Mersin (Gülek-Çamalan, Namrun-Çamlıyayla (GUGLIELMI & PLATIA 1985); Ankara (Beypazarı) (KABALAK & SERT 2005); İzmir (GULPERCİN & TEZCAN 2006); İzmir [Beydağ, Bornova, Karaburun (Mordoğan), Kemalpaşa (Central province, Armutlu, Çambel, Nif Mountain, Ören), Ödemiş (Birgi, Bozdağ-Gündalan, Kemerköy, Kırkoluk), Seferihisar] (GULPERCİN & TEZCAN 2009); Çankırı (Şabanözü), Konya (Bozkır, Derebucak, Hadim) (KABALAK & SERT 2011). Distributional map of *P. terminatus* in Turkey is given on Fig. 10.

## Genus *Synaptus* Eschscholtz 1829

### *Synaptus filiformis* (FABRICIUS 1781)

**Material examined:** Adana: Tufanbeyli, 15.VI.1985, weeds, 1 ex.; Afyonkarahisar: Anıtkaya, 16.VI.1972, *Salix* sp., 1 ex., Sincanlı, 13.VI.1972, *Salix* sp., 1 ex.; Ankara: Central province, 02.VII.1953, *Eleagnus* sp., 1 ex.; Antalya: Manavgat, 20.IV.1984, *Platanus* sp., 1 ex.; Artvin: Central province, 10.VII.1971, *C. sinensis*, 1 ex., *Citrus* sp., 1 ex.; Balıkesir: Kepsut, 09.VI.1970, *Crataegus* sp., 1 ex., *C. oblonga*, 1 ex., *J. regia*, 1 ex., *M. domestica*, 1 ex., *M. germanica*, 2 exs., *Populus* sp., 1 ex., *Prunus* sp., 1 ex., *P. cerasus*, 1 ex., *P. domestica*, 1 ex., Manyas, 01.VI.1970, *C. oblonga*, 1 ex., *P. cerasus*, 1 ex., Susurluk, 09.VI.1970, *C. oblonga*, 6 exs., *Salix* sp., 2 exs.; Bartın: Central province, 31.V.1980, on the beach, 1 ex., Ulus, 29.V.1980, *Equisetum* sp., 1 ex.; Bilecik: Central province, 28.V.1971, *H. lupulus*, 1 ex., *P. persica*, 1 ex., 07.VI.1973, *P. persica*, 2 exs., Bozüyük, 27.V.1971, *Populus* sp., 1 ex., *Vicia* sp., 1 ex., 29.V.1971, *P. domestica*, 2 exs., Gölpaşa, 28.V.1971, *Crataegus* sp., 1 ex.; Bitlis: Mutki Road (10 km), 08.VI.1975, *M. sativa*, 1 ex.; Bolu: Mengen, 26.V.1980, *Rosa* sp., 1 ex.; Bursa: Central province, 30.V.1971, *Platanus* sp., 1 ex.; Çanakkale: Gökçeada, 26-29.V.1975, weeds, 6 exs., 27.V.1975, *P. elaeagnifolia*, 1 ex.; Denizli: Honaz, 10.V.1972, *Rubus* sp., 1 ex.; Düzce: Akçakoca, 24.V.1980, weeds, 5 exs.; Edirne: Lalapaşa, 03.VI.1975, *Salix* sp., 1 ex.; Gaziantep: Central province, 08.VI.1972, *P. armeniaca*, 1 ex.; Gümüşhane: Mertekli, 29.VII.1991, *S. tuberosum*, 1 ex.; İzmir: Bornova, 20.IV.1993, weeds, 1 ex., Kemalpaşa-Çambel, 02.V.2004, weeds, 1 ex., Menemen, 10.IV.1993, weeds, 1 ex., Ödemiş, 25.V.1973, *J. regia*, 1 ex., Ödemiş-Bozdağ, 28.V.1973, *Mentha* sp., 1 ex., 24.V.1978, *Alnus* sp., 1 ex., weeds, 1 ex., Ödemiş-Bozdağ-Büyük Çavdar, 19.VI.2003, *J. regia*, 1 ex., Zeytinköy, 12.V.1972, *J. regia*, 2 exs.; Kahramanmaraş: Afşin, 14.VI.1985, *Populus* sp., 1 ex., *Salix* sp., 2 exs., Andırın, 10.VI.1985, *Quercus* sp., 1 ex., Gökşun, 12.VI.1985, *Populus* sp., 1 ex., *Rosa* sp., 1 ex., *Salix* sp., 1 ex.; Karabük: Central province, 29.V.1980, *P. domestica*, 1 ex.; Kastamonu: Tosya, 08.VI.1980, *E. angustifolia*, 1 ex., *Quercus* sp., 1 ex.; Kayseri: Pınarbaşı, 03.VI.1970, *J. regia*, 1 ex., *P. domestica*, 1 ex.; Kırklareli: Central province, 02.VI.1975, *Paliurus* sp., 1 ex., İkizdere, 16.V.1967, weeds, 1 ex., Pınarhisar, 03.VI.1975, *Populus* sp., 17 exs., 01.VII.1972, *Rubus* sp., 2 exs., *P. domestica*, 4 exs.; Kırşehir: Kaman, 25.VI.1980, *Rosa* sp., 1 ex.; Konya: Akşehir, 06.VII.1980, *Salix* sp., 6 exs., Ereğli, 28.IV.1979, weeds, 1 ex.; Kütahya: Central province, 22.V.1971, *P. communis*, 1 ex., 16.VI.1972, *Salix* sp., 3 exs., Domaniç, 19.VI.1975, *Urtica* sp., 3 exs., Örencik, 20.V.1971, *Platanus* sp., 1 ex., Tavşanlı-Tepecik, 19.V.1971, *P. domestica*, 1 ex.; Manisa: Demirci, 08.V.1973, *Populus* sp., 1 ex., *Salix* sp., 3 exs., Ömerli, 12.VI.1972, *P. armeniaca*, 1 ex.; Mardin: Bozhöyük, 27.V.1971, *Populus* sp., 1 ex.; Muğla: Dalaman, 04.V.1972, *Tamarix* sp., 1 ex.; Rize: Ardeşen, 11.VI.1970, *Quercus* sp., 1 ex.; Sakarya: Taraklı, 07.VI.1973, *P. domestica*, 1 ex.; Sirnak: İdil-Peçenek, 14.VI.1990, *M. sativa*, 1 ex.; Tekirdağ: Central province, 01.VI.1975, *M. sativa*, 5 exs., Barbaros, 01.VI.1975, *Salix* sp., 3 exs.; Tokat: Central province, 02.VII.1978, *Salix* sp., 2 exs.; Uşak: Central province, 10.VI.1972, *Rubus* sp., 1 ex.; Zonguldak: Çaycuma, 31.V.1980, *Fraxinus* sp., 4 exs., *Tamarix* sp., 1 ex. Totally 147 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Karaman, Mersin (Tarsus) / as *Synaptus filiformis erivanus* FALDERMANN 1835 (SAHLBERG 1912-1913); Anatolia / as *Synaptus filiformis levantinus* SAHLBERG 1913 (SCHENKLING 1925-1927); Western Anatolia / as *Synaptus filiformis levantinus*



SAHLBERG 1913 (SAHLBERG 1912-1913); Çanakkale (Küçükkuyu), Kastamonu (Central province, Ilgaz Mountain Pass), Malatya (Eskimalatya), Samsun (Bafra), Zonguldak (Karabük) / as *Synaptus filiformis levantinus* SAHLBERG 1913 (GUGLIELMI & PLATIA 1985); Western Anatolia, Denizli (Babadağ) (SAHLBERG 1912-1913); Marmara and Thrace Regions, Kocaeli (İzmit), Osmaniye, Sakarya (Akyazı) (SEKENDİZ 1974); Çanakkale (Küçükkuyu), Kastamonu (Central province, Ilgaz Mountain Pass), Malatya (Eskimalatya), Samsun (Bafra), Zonguldak (Karabük) (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 (Altuparmak 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 [Beysşehir (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, Mihaliççik, Sarıcakaya), Karaman (Central province, Başyayla, Ermenek), Kayseri (Central province, Develi, Felahiye, İncesu, Özvatan, Sarioğlan, Sarız, Yahyalı, Yeşilhisar), Kırşehir (Central province, Akpınar, Kaman), Konya (Akören, Akşehir, Derebucak, Hadim, Ilgın, Sarayönü, Seydişehir, Yunak), Nevşehir (Acıgöl, Ürgüp), Niğde (Central province, Çamardı, Ulukışla), Sivas (Central province, Divriği, Doğanşar, Gemerek, Gürün, Hafik, İmranlı, Koyulhisar, Suşehri, Şarkışla, Yıldızeli, Zara), Yozgat (Central province, Akmağdeni, Çandır, Çayıralan, Sarıkaya, Yerköy) (KABALAK & SERT 2011). Distributional map of *S. filiformis* in Turkey is given on Fig. 11.

### Tribe *Agriotini* CHAMPION 1894

#### Genus *Agriotes* ESCHSCHOLTZ 1829

##### *Agriotes gurgistanus* (FALDERMANN 1835)

Material examined: Kırklareli: Vize, 25.VII.1973, weeds, 1 ex. Totally 1 specimen.

Distribution in Turkey: Turkey (LOBL & SMETANA 2007; MERTLİK & PLATIA 2008); Thrace Region and Çanakkale, Artvin, Kars in Northeastern Anatolia Region (LODOS 1998); Artvin (Central province), Çanakkale (Central province) (GUGLIELMI & PLATIA 1985); Rize, Trabzon [Araklı (Yalıboya), Vakfıkebir (Kirazlı) (KESDEK et al. 2006); İzmir [Bornova, Ödemiş (Bozdağ-Büyükcavdar)] (GULPERCİN & TEZCAN 2009); Kayseri (Pınarbaşı, Sarioğlan), Yozgat (Saraykent) (KABALAK & SERT 2011). Distributional map of *A. gurgistanus* in Turkey is given on Fig. 12.

##### *Agriotes infuscatus* DESBROCHERS DES LOGES 1870

Material examined: Kütahya: Domaniç, 09.VI.1975, *P. domestica*, 1 ex. Totally 1 specimen.

Distribution in Turkey: Turkey / as *Agriotes infuscatus elegans* SCHWARZ 1891 (HEYDEN et al. 1906); Turkey (LODOS 1998; LOBL & SMETANA 2007;

MERTLIK & PLATIA 2008); Bilecik (Bozüyük) (GUGLIELMI & PLATIA 1985); Ankara (Çubuk), Çankırı (Ilgaz), Kayseri (Özvatan) (KABALAK & SERT 2011). Distributional map of *A. infuscatus* in Turkey is given on Fig. 13.

### *Agriotes paludum* KIESENWETTER 1859

**Material examined:** Afyonkarahisar: Çay, 14.VI.1972, *P. cerasus*, 3 exs., 01.V.1973, *M. sativa*, 1 ex., Sincanlı, 13.VI.1972, *M. sativa*, 1 ex., Sultandağ, 01.V.1973, *M. sativa*, 3 exs., Şuhut, 15.VI.1972, *P. cerasus*, 2 exs., *Salix* sp., 2 exs., weeds, 1 ex.; Amasya: Central province, 27.IV.1973, *M. domestica*, 1 ex.; Balıkesir: Bandırma-Edincik, 10.VI.1970, *P. cerasus*, 1 ex., *P. persica*, 1 ex., 27.IV.1972, *M. sativa*, 1 ex., Kepsut, 09.VI.1970, *P. domestica*, 1 ex.; Bartın: Central province, 31.V.1980, *Rosa* sp., 1 ex.; Bilecik: Vezirhan, 06.V.1973, *M. domestica*, 1 ex.; Çanakkale: Gökçeada, 26-29.V.1975, weeds, 1 ex., Seddülbahir, 31.V.1975, *Malus* sp., 1 ex.; Isparta: Eğirdir, 17.IV.1972, *M. sativa*, 1 ex., 27.IV.1972, *M. sativa*, 2 exs., Şarkikaraağaç, 27.VI.1972, *Triticum* sp., 2 exs., Uluborlu, 26.IV.1972, *M. domestica*, 3 exs.; İzmir: Seferihisar-Sığacık, 28.II.1971, *Zea mays* LINNAEUS 1753, 2 exs.; Kayseri: Pınarbaşı, 03.VI.1970, *P. persica*, 2 exs., *P. granatum*, 2 exs.; Kırklareli: Pınarhisar, 01.VII.1972, *Rubus* sp., 3 exs., 03.VI.1975, under bark, 3 exs.; Mardin: Central province, 11.VI.1976, weeds, 3 exs.; Sakarya: Sapanca, 25.IV.1975, *Crataegus* sp., 1 ex.; Tekirdağ: Central province, 22.V.1973, *P. persica*, 1 ex., 23.V.1973, *C. avium*, 1 ex., Barbaros, 01.VI.1975, *Salix* sp., 5 exs.; Usak: Central province, 10.VI.1972, *Rubus* sp., 3 exs. Totally 56 specimens.

**Distribution in Turkey:** Turkey / as *Agriotes paludum filiformis* CANDÉZE 1859 (HEYDEN et al. 1906); Turkey (LODOS 1998; LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Adana (Central province), Afyonkarahisar (Central province), Kocaeli (Hereke), Mersin (Namrun) (GUGLIELMI & PLATIA 1985); Bingöl, Erzincan [Üzümlü (Avcılar)], Erzurum [Palandöken Mountain, Pasinler, Şenkaya (Turnalı), Tortum (Kireçli Mountain), Uzundere], Eskişehir, Kırıkkale (KESDEK et al. 2006); İzmir (Ödemiş) (GULPERCİN & TEZCAN 2009); Aksaray (Ortaköy), Ankara (Akyurt, Ayaş, Beypazarı, Beytepe, Çankaya, Çubuk, Elmadağ, Evren, Güdül, Haymana, Kalecik, Kazan, Kızılcahamam, Mamak, Nallıhan, Polatlı, Şereflikoçhisar, Yenimahalle), Çankırı (Ilgaz, Şabanözü), Eskişehir (Central province, Günyüzü, İnönü, Mihaliççık, Sarıcakaya, Seyitgazi), Karaman (Central province, Ermenek), Kayseri (Central province, Felahiye, İncesu, Özvatan), Kırıkkale (Çelebi, Keskin, Sulakyurt), Kırşehir (Central province, Akpınar, Kaman), Konya (Akşehir, Beyşehir, Bozkır, Doğanhisar, Hadim, Ilgın, Sarayönü, Selçuklu, Seydişehir, Tuzlukçu), Nevşehir (Gülşehir, Ürgüp), Niğde (Ulukışla), Sivas (Divriği, Gürün, Suşehri), Yozgat (Central province, Akmağdeni, Çekerek, Şefaati) (KABALAK & SERT 2011). Distributional map of *A. paludum* in Turkey is given on Fig. 14.

### *Agriotes proximus* SCHWARZ 1891

**Material examined:** Giresun: Şebinkarahisar, 12.VII.1978, *Quercus* sp., 1 ex. Totally 1 specimen.

**Distribution in Turkey:** Turkey (LODOS 1998; LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Bolu (Abant Lake), Bursa (Uludağ), Erzurum (Aşkale), Kastamonu (Ilgaz Mountain) (GUGLIELMI & PLATIA 1985); Ankara (Ayaş, Çubuk, Evren, Kızılcahamam, Güdül) (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, İmranlı, Şarkışla, Yıldızeli, Zara), Yozgat (Central province, Akmağdeni, Çandır, Çekerek, Sarıkaya) (KABALAK & SERT 2011). Distributional map of *A. proximus* in Turkey is given on Fig. 15.

### ***Agriotes sputator* (LINNAEUS 1758)**

**Material examined:** Balıkesir: Manyas, 27.IV.1989, *Solanum lycopersicum* LINNAEUS 1753, 19 exs., *Helianthus annuus* LINNAEUS 1753, 17 exs.; Bursa: Central province, 21.V.1973, *P. domestica*, 1 ex., Karacabey, 26.IV.1988, weeds, 1 ex., 28.VI.1988, *S. lycopersicum*, 1 ex.; Eskişehir: Koctaş, 29.V.1973, weeds, 1 ex.; Hakkari: Şemdinli, 12.VI.1975, *Medicago* sp., 1 ex.; Malatya: Central province, VI.1972, weeds, 1 ex.; Sakarya: Sapanca, 17.V.1973, *Rubus* sp., 1 ex., *Trifolium* sp., 2 exs. Totally 45 specimens.

**Distribution in Turkey:** Turkey (LODOS 1998; LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Ankara (Central province, Etimesgut), Bursa, Eskişehir (Central province, Biçer, Beylikahır, Hamamhisar), Muğla (Central province, Pisi), Sivas (Şarkışla), Şanlıurfa (Tülemen) (YUKSEL 1970); Ağrı (Tahir Pass), Bolu (Abant Lake), Bursa (İnegöl), Çankırı (İlgaz), Gümüşhane (Bayburt), Isparta (Beyşehir), Kars (Çıldır, Sarıkamış), Kastamonu (Central province), Konya (Çamlık), Mersin (Namrun-Çamlıyayla), Sivas (Çamlıbel Pass), Van (Tatvan, Van Lake) (GUGLIELMI & PLATIA 1985); Adana, Ankara (Central province, Ayaş, Hacıkadın), Diyarbakır, Erzincan [Tercan (Demirkapı)], Erzurum [Central province, Dumlu, Narman, Pasinler, Tekederesi (Palandöken Pond), Tortum (Güzelyayla Pass), Kireçli Mountain, Umudum Plateau], Eskişehir, Kars [Digor (Bostanlı)], Konya [Güneysınır (Gürağaç)], Muğla, Niğde, Sivas (Şarkışla), Yozgat (KESDEK et al. 2006); Ankara (Ayaş, Bala, Çamlıdere, Çankaya, Çubuk, Evren, Elmadağ, Gölbaşı, Güdül, Haymana, Kalecik, Kızılcahamam), Karaman (Central province, Başyayla, Ermenek), Kayseri (Akkışla, Bünyan, Felahiye, Pınarbaşı, Sarıoğlan, Tomarza), Kırıkkale (Keskin), Kırşehir (Akpınar, Aktepe Akpınar-Akçakent Road, Boztepe, Kaman), Nevşehir (Hacıbektaş), Niğde (Central province), Sivas (Central province, Divriği, Gemerek, Hafik, Ulaş, Yıldızeli, Zara), Yozgat (Central province, Sarıkaya, Sorgun) (KABALAK & SERT 2011). Distributional map of *A. sputator* in Turkey is given on Fig. 16.

### ***Agriotes turcicus* CANDÉZE 1863**

**Material examined:** Bursa: Uludağ, 19.V.1973, *Quercus* sp., 1 ex. Totally 1 specimen.

**Distribution in Turkey:** Turkey (LODOS 1998; LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Western Anatolia, Denizli (Sarayköy), İzmir (Menderes) (SAHLBERG 1912-1913); Isparta (Yukarıgökdere-Davraz Mountain) (DUSANEK & MERTLIK 2004); Distributional map of *A. turcicus* in Turkey is given on Fig. 17.

### **Tribe *Ampedini* GISTEL 1856**

#### **Genus *Ampedus* DEJEAN 1833**

#### ***Ampedus elegantulus* (SCHÖNHERR 1817)**

**Material examined:** Isparta: Uluborlu, 26.IV.1972, *P. dulcis*, 1 ex.; İzmir: Ödemiş-Bozdağ, 30.IV.2003, *Pinus* sp., 1 ex.; Konya: Akşehir, 22.IV.1979, *Salix* sp., 6 exs.; Ordu: Central province, 23.V.1989, *C. avellana*, 2 exs. Totally 10 specimens.

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

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

**Material examined:** Bolu: Mengen, 26.V.1980, *Prunus* sp., 1 ex., Yedigöller, 27.V.1980, *Fagus* sp., 1 ex.; Rize: Fener, 10.VI.1973, *Citrus* sp., 3 exs. Totally 5 specimens.

**Distribution in Turkey:** Turkey / as *Elater elongatulus* FABRICIUS 1787 (SCHMITSCHEK 1953); Turkey (LOBL & 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); İzmir [Kemalpaşa (Central province, Kurudere) Ödemiş (Bozdağ)] (GULPERCIN & TEZCAN 2009). Distributional map of *A. elongatulus* in Turkey is given on Fig. 19.

**Genus *Haterumelater* ÔHIRA 1968**

***Haterumelater languidus* (BUYSSON 1891)**

**Material examined:** Muğla: Fethiye, 09.VIII.1976, *Pinus* sp., 1 ex. Totally 1 specimen.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); İzmir (SCHENKLING 1925-1927); Adana (Nur Mountains), Antalya (Yarpuz) (DUSANEK & MERTLIK 2004). Distributional map of *H. languidus* in Turkey is given on Fig. 20.

**Tribe *Elaterini* LEACH 1815**

**Genus *Mulsanteus* GOZIS 1875**

***Mulsanteus guillebeaui* (MULSANT & GODART 1853)**

**Material examined:** İzmir: Bornova, 13.V.1961, 2 exs., 17.VI.1980, under stone, 1 ex., 28.VII.1983, weeds, 1 ex., Kemalpaşa-Ören, 20.VII.1999, pitfall trap, 1 ex., Ödemiş-Erikli, 16.VIII.1984, *Castanea sativa* MILLER 1768, 1 ex. Totally 6 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Çanakkale (Truva) / as *Neotrichophorus guillebeaui* (MULSANT & GODART 1853) (GUGLIELMI & PLATIA 1985); Adana (Kozan), Ankara, Erzurum [Tortum (Alapınar), Şenkaya (Turnalı)], Konya [Beyşehir (Gökçimen)], Rize (KESDEK et al. 2006); İzmir (Kemalpaşa) (TEZCAN & GULPERCIN 2009; UZUM et al. 2009); Ankara (Yenimahalle), Nevşehir (Gülşehir) (KABALAK & SERT 2011). Distributional map of *M. guillebeaui* in Turkey is given on Fig. 21.

**Genus *Pittonotus* JACQUELIN DU VAL 1860*****Pittonotus theseus* (GERMAR 1817)**

**Material examined:** Aydın: Çine, VI.1991, light traps, 1 ex.; Denizli: Central province, 04.V.1992, on the ground, 3 exs.; Diyarbakır: Central province, 19.II.2002, bait trap, 3 exs.; İzmir: Central province, 07.II.1960, 3 exs., 25.VI.1973, light traps, 1 ex., Balçova, 24.VI.1999, on the ground, 1 ex., Bornova, 02.V.1962, 1 ex., 12.V.1962, 1 ex., 15.VII.1963, 1 ex., 19.VI.1976, weeds, 1 ex., 20.VI.1979, 1 ex., 17.VI.1980, under stone, 1 ex., Çeşme, 17.VII.2004, light traps, 1 ex., Gaziemir, 06.VI.1977, on the ground, 2 exs., Karaburun, 05.VII.1978, light traps, 1 ex., Karaburun-Mordoğan, 15.VII.2005, light traps, 1 ex., Kemalpaşa-Ören, 22.VII.1994, *C. avium*, 1 ex., Narlidere, 13.VII.1948, light traps, 1 ex., 02.VIII.1977, light traps, 1 ex., 10.VII.1990, on the ground, 1 ex., Ödemiş, 16.VIII.1984, *C. sativa*, 1 ex., Ödemiş-Erikli, 16.VIII.1984, *C. sativa*, 2 exs., Ödemiş-Hamam, 16.VIII.1984, *C. sativa*, 3 exs., Tire, 07.VIII.1984, *C. sativa*, 1 ex., 31.VII.1988, on the ground, 1 ex., 30.V.1992, *S. tuberosum*, 2 exs., Yeşilyurt, 10.VI.1999, *Bromus* sp., 1 ex.; Malatya: Central province, 27.VII.1979, light traps, 1 ex.; Manisa: Central province, 17.VII.1998, *C. avium*, bait trap, 1 ex., 31.VII.1998, *C. avium*, bait trap, 3 exs., 14.VIII.1998, *C. avium*, bait trap, 1 ex., 28.VIII.1998, *C. avium*, bait trap, 1 ex., 03.VIII.1999, *C. avium*, bait trap, 29 exs., 17.VIII.1999, *C. avium*, bait trap, 1 ex. Totally 75 specimens.

**Distribution in Turkey:** Turkey (LOBL & SMETANA 2007; MERTLIK & PLATIA 2008); Menderes Valley around Denizli (SCHMITSCHEK 1953); Adana, Mersin (Namrun), Samsun (Akpınar) (GUGLIELMI & PLATIA 1985); Adana, [Central province, Balcalı, Kozan (Bağtepe), Ankara (Central province, Gölbaşı), Antalya (Gazipaşa, Manavgat, Serik), Aksaray, Burdur [Bucak (Çamlık)], Elazığ, Erzincan (Kemaliye), Gaziantep (Nizip), Hatay (Erzin, İskenderun, Kuşlak), Isparta [Atabey, Eğirdir (Ağıl)], İzmir (Seferihisar), Kahramanmaraş, Konya [Beyşehir (Gökçimen), Güneysınır (Gürağaç)], Mardin [Midyat (Haberli)], Mersin [Sazlıyayla, Silifke (Balandız), Tarsus], Osmaniye, Rize (Findıklı), Şanlıurfa (Central province, Beykapı, Halfeli) (KESDEK et al. 2006); İzmir [Konak, Bornova, Çeşme, Gümüldür, Karaburun, Kemalpaşa (Armutlu), Tire] (GULPERCIN & TEZCAN 2009); İzmir (Kemalpaşa) (TEZCAN & GULPERCIN 2009); Muğla [Bodrum (Aspat)] (GULPERCIN & TEZCAN 2011); Distributional map of *P. theseus* in Turkey is given on Fig. 22.

**Zusammenfassung**

Vorliegende Arbeit behandelt Elaterinae-Material (Elateridae), das an verschiedenen Orten in der Türkei im Zeitraum 1948 bis 2005 aufgesammelt wurde. Zweiundzwanzig Arten aus Acht Gattungen konnten nachgewiesen werden, die Funddaten nebst Verbreitungsangaben für die Türkei wurden festgehalten.

**References**

- BODEMEYER E.V. (1900): Quer durch Kleinasien in den Bulghan Dagh. — Druck und Verlag Aktiengesellschaft. Vormals Dölter, Emmendingen: 1-169.
- DUSANEK V. & J. MERTLIK (2004): Elateridae. Click Beetles of the Palearctic Region. <http://www.elateridae.com>.
- GUGLIELMI A. & G. PLATIA (1985): Contributio alla conoscenza oks Elateridi di Grecia e Turchia. — Fragmenta Entomologica, Roma **18** (1): 169-224.

- GUL-ZUMREOGLU S. (1972): İzmir Bölge Zirai Mücadele Araştırma Enstitüsü Böcek ve Genel Zararlılar Kataloğu, 1928-1969 (I. Kısım). — İstiklal Matbaası, İzmir, Turkey: 1-119.
- GULPERCİN N. & S. TEZCAN (2006): Contribution to the Elateridae (Coleoptera) fauna of cherry orchards in İzmir province of Turkey. VIIIth European Congress of Entomology, 17-22 September 2006, İzmir, Turkey. — Abstract Book: 1-160, 120.
- GULPERCİN N. & S. TEZCAN (2009): Faunistic notes on the species of Elateridae (Coleoptera) in İzmir province of Turkey. — *Munis Entomology and Zoology* **4** (2): 447-454.
- GULPERCİN N. & S. TEZCAN (2010): Distributional Catalogue of Turkish Elateridae (Insecta: Coleoptera) Fauna. — Meta Basım, Bornova, İzmir, Turkey: 1-63.
- GULPERCİN N. & S. TEZCAN (2011): Elateridae (Insecta: Coleoptera) fauna of farming terraces in Aspat (Strobilos) ancient city and its territorium, Bodrum, Muğla, western Turkey. — *Selçuk Üniversitesi Selçuk Tarım ve Gıda Bilimleri Dergisi*. [In press].
- HEYDEN L.V., REITTER E. & J. WEISE (1906): *Catalogus Coleopterorum Europae, Caucasi et Armeniae Rossicae*. Berlin, 774pp.
- KABALAK M. & O. SERT (2005): Ankara İli Elateridae (Coleoptera) familyası türleri üzerinde faunistik çalışmalar. — *Türkiye Entomoloji Dergisi* **29** (1): 49-60.
- KABALAK M. & O. SERT (2011): Faunistic composition, ecological properties and zoogeographical composition of the family Elateridae (Coleoptera) of the Central Anatolian Region of Turkey. — *Journal of Insect Science* **11**: 57 available online: [insectscience.org/11.57](http://insectscience.org/11.57).
- KESDEK M., PLATIA G. & E. YILDIRIM (2006): Contribution to the knowledge of clickbeetles fauna of Turkey (Coleoptera: Elateridae). — *Entomofauna, Zeitschrift für Entomologie* **35**: 417-432.
- LODOS N. (1998): Türkiye Entomolojisi VI. — Ege Üniversitesi Ziraat Fakültesi Yayınları No: 529, Bornova, İzmir, 2-50.
- LOBL I. & A. SMETANA (2007): *Catalogue of Palearctic Coleoptera. Volume 4. Elateroidea, Derodontoidea, Bostrichoidea, Lymexyloidea, Cleroidea, Cucujoidea*. — Apollo Books, Stenstrup, 1-935.
- MERTLİK J. & G. PLATIA (2008): Catalogue of the family Cebrionidae, Elateridae, Lissomidae, Melasidae and Throscidae from Turkey. — *Elateridarium* **2**: 1-40.
- PLATIA G. & I. GUDENZI (1998): Note tassonomiche e faunistiche su elateridi del vicino oriente (Coleoptera, Elateridae). — *Bollettino dell'Associazione Romana di Entomologia* **53** (1-4): 49-62.
- PLATIA G. & I. GUDENZI (2000): Descrizione di un nuovo genere e tredici nuove specie di elateridi della regione palearctica con note geonemiche. *Quaderno di Studi e Notizie di Storia Naturale della Romagna* **13**: 65-81.
- ONCUL ABACIGİL T., VARLI S.V., TEZCAN S. & N. GULPERCİN (2012): Contributions to the Elateridae (Coleoptera) fauna of Edremit Bay area and Ida Mountain of Western Turkey. — *Munis Entomology & Zoology* **7** (1): 626-628.
- SAHLBERG J. (1912-1913): *Coleoptera mediterranean orientalia, quae in Aegyptia, Palaestina, Syria, Caramania atque in Anatolia occidentali anno 1904*. — *Ofversigt af Finska Vetenskaps-Societetens Förhandlingar* **60** (13): 127-132.
- SCHENKLING S. (1925-1927): *Coleopterorum Catalogus (Pars 80 & 88)*. — W. Junk, Berlin W. 15, 636pp.
- SCHMITSCHKEK E. (1953): Türkiye Orman Böcekleri ve Muhiti. Türkiye Orman Entomolojisinin Temelleri. (Çeviren: Dr. Abdulgafur Acatay). — I. Ü. Yay. No: 556, Orman Fak. Yay. No: **24**: 1-471.
- SEKENDİZ O. (1974): Türkiye Hayvansal Kavak Zararlıları Üzerine Araştırmalar. — Karadeniz Teknik Üniversitesi Yayınları Yay. No: 62, Orman Fakültesi Yay. No: 3, Çağlayan Basımevi, 196pp.

- TEZCAN S. & N. GULPERCİN (2009): İzmir yöresi entegre kiraz bahçelerinde ışık tuzaklarla yakalanan taklaböcekleri (Coleoptera: Elateridae). — Selçuk Üniversitesi, Ziraat Fakültesi Dergisi **23** (50): 41-45.
- UZUM A., GULPERCİN N., TEZCAN S. & R. TANYERİ (2009): Organik bağ ve meyve bahçelerinde çukur tuzak ve besin tuzaklarla yakalanan Taklaböcekleri (Coleoptera: Elateridae). — Tarım Türk Dergisi **4** (19): 74-76.
- YUKSEL H. (1970): Türkiye’de Bulunan Telkurtları (Elateridae) Familyası Türleri Üzerinde Sistemik Çalışmalar. — Atatürk Ü. Yayınları No. 85, Zir. Fak. Yay. No: 32, Arş. Ser. No: 12, Erzurum, 66pp.

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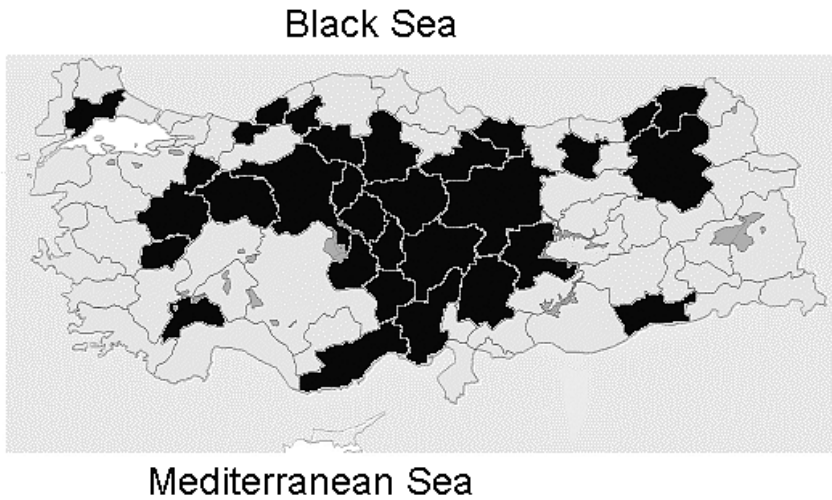


Fig. 1: Distribution of *Adrastus anatolicus* PLATIA & SCHIMMEL 1991 in Turkey.



Fig. 2: Distribution of *Adrastus dolini* WELLSCHMIED 1978 in Turkey.



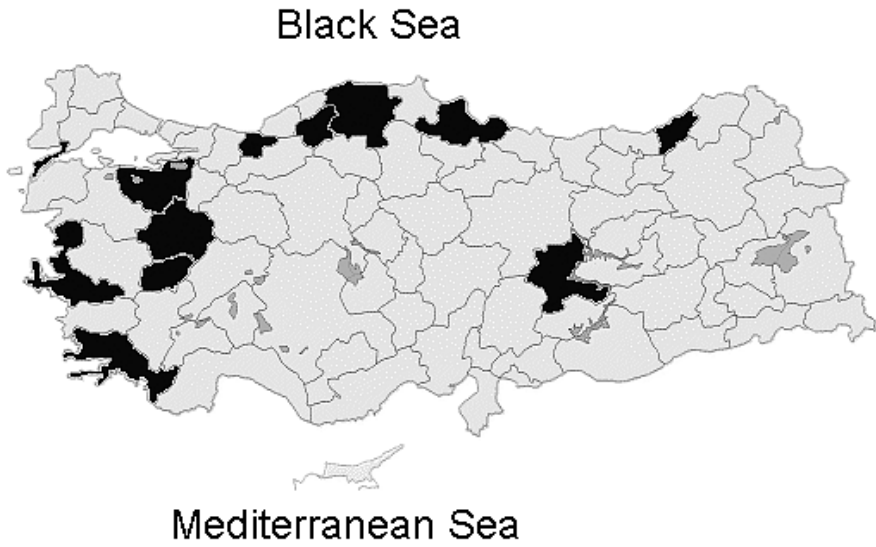


Fig. 3: Distribution of *Adrastus limbatus* (FABRICIUS 1777) in Turkey.

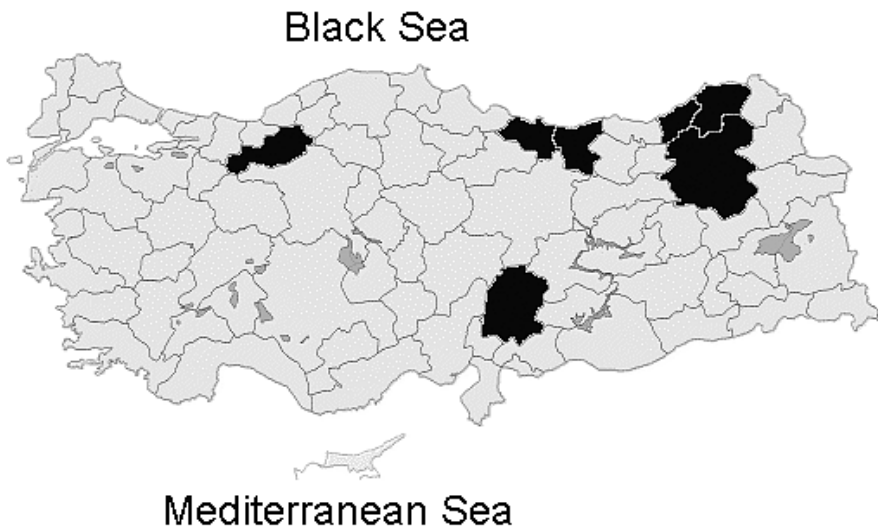


Fig. 4: Distribution of *Adrastus longicornis* GURJEVA 1976 in Turkey.

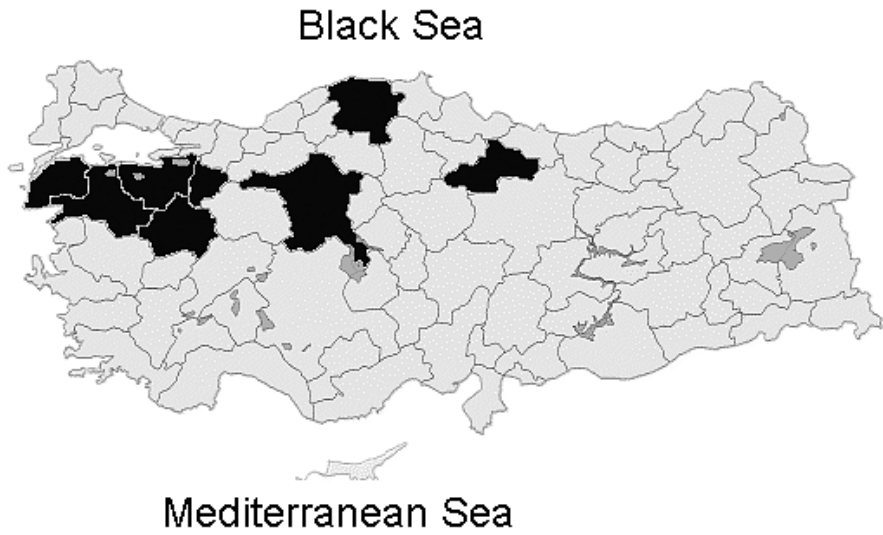


Fig. 5: Distribution of *Adrastus montanus* (SCOPOLI 1763) in Turkey.

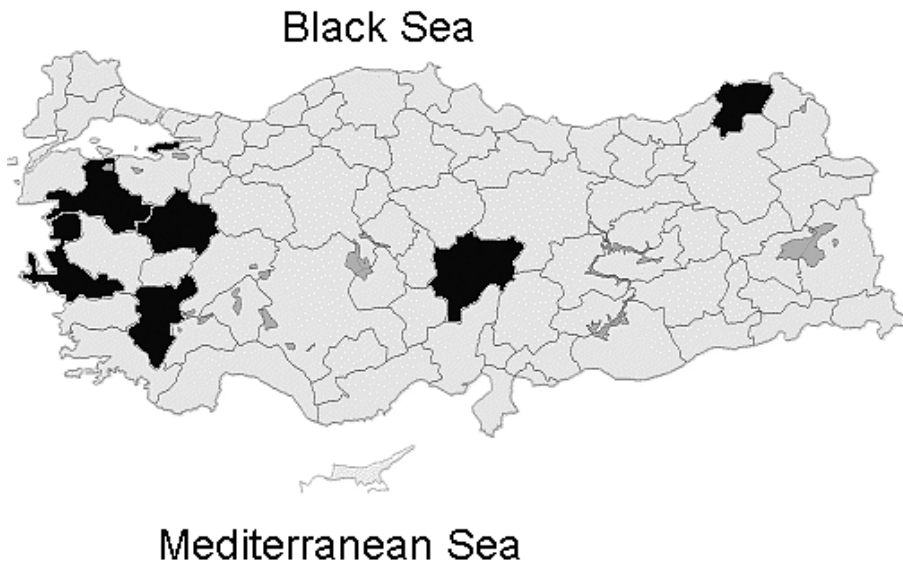


Fig. 6: Distribution of *Adrastus pallens* (FABRICIUS 1792) in Turkey.

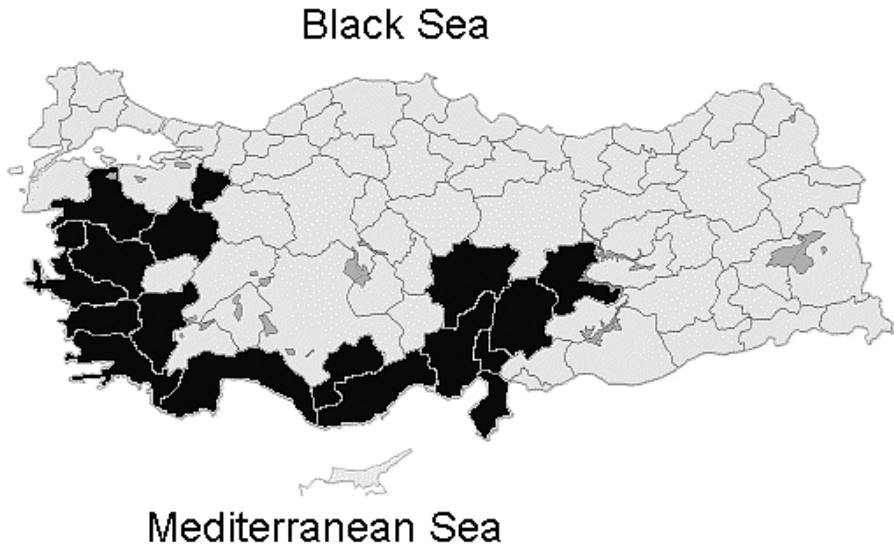


Fig. 7: Distribution of *Peripontius concolor* (DESBROCHERS DES LOGES 1875) in Turkey.



Fig. 8: Distribution of *Peripontius dentatus* PLATIA & SCHIMMEL 1991 in Turkey.

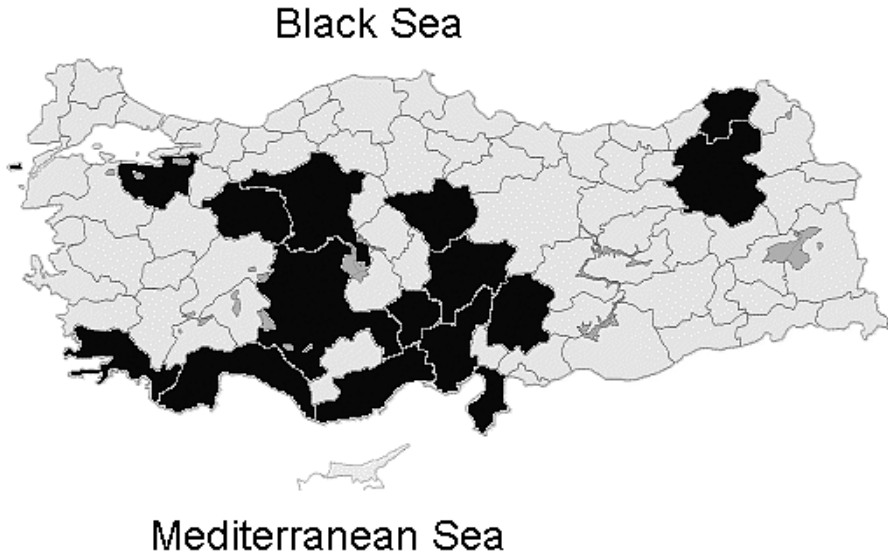


Fig. 9: Distribution of *Peripontius omissus* (BUYSSON 1889) in Turkey.

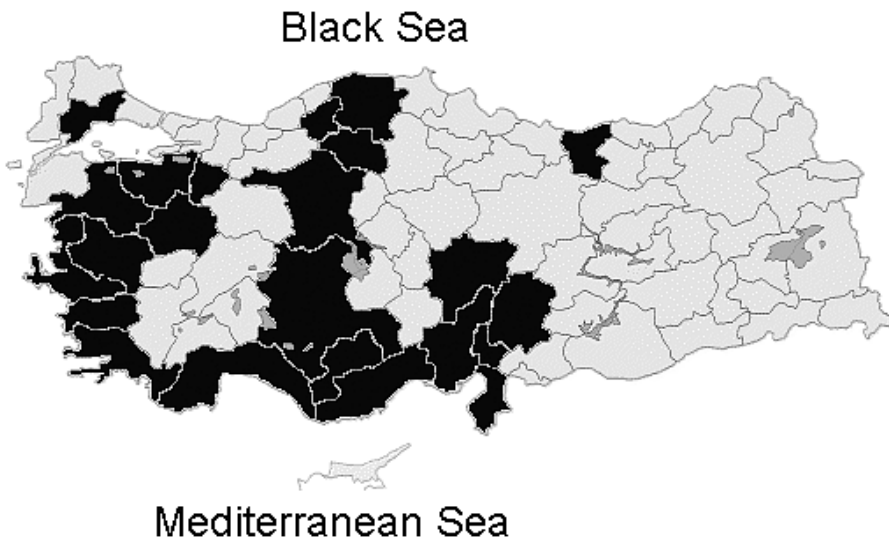


Fig. 10: Distribution of *Peripontius terminatus* (ERICHSON 1841) in Turkey.

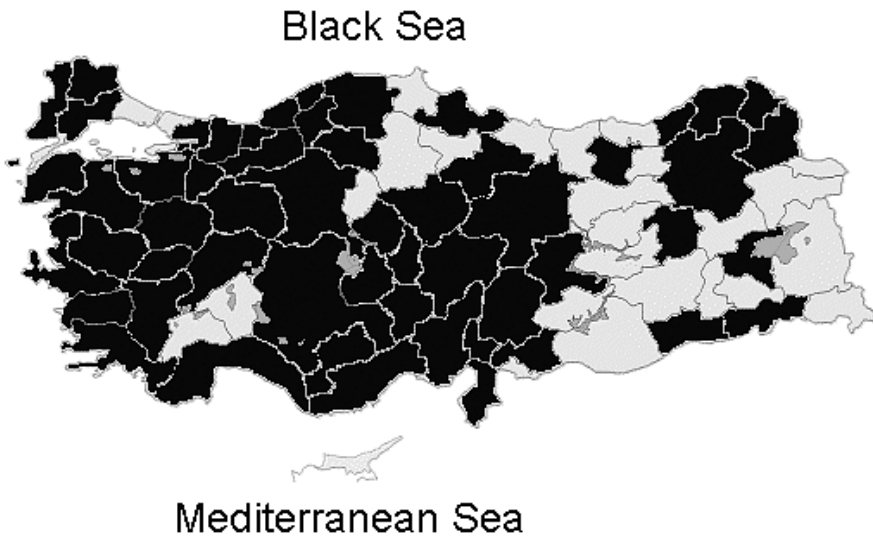


Fig. 11: Distribution of *Synaptus filiformis* (FABRICIUS 1781) in Turkey.

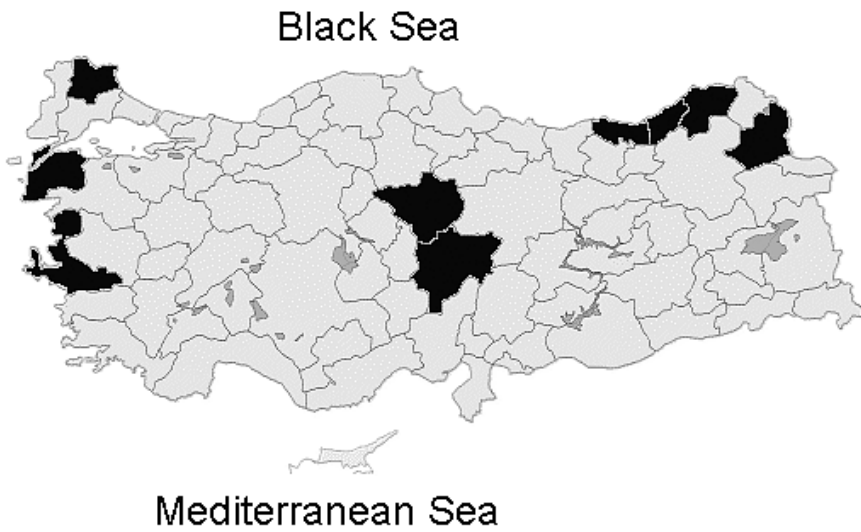


Fig. 12: Distribution of *Agriotes gurgistanus* (FALDERMANN 1835) in Turkey.

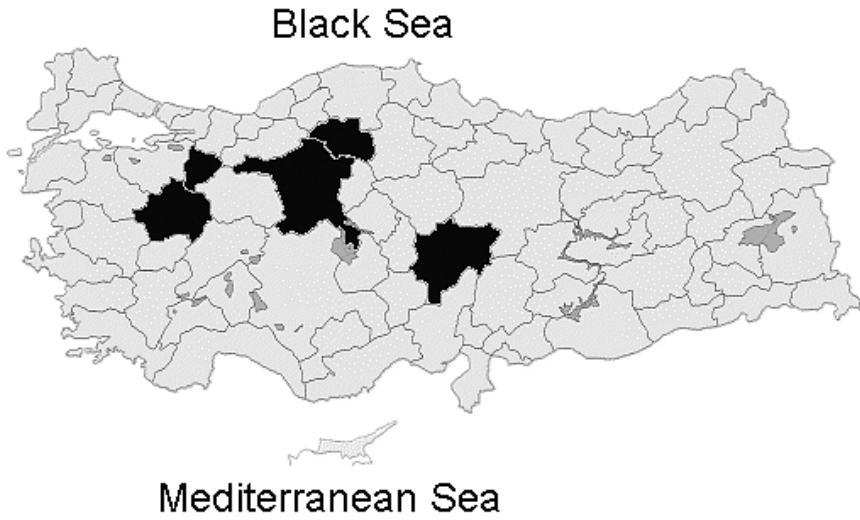


Fig. 13: Distribution of *Agriotes infuscatus* DESBROCHERS DES LOGES 1870 in Turkey.

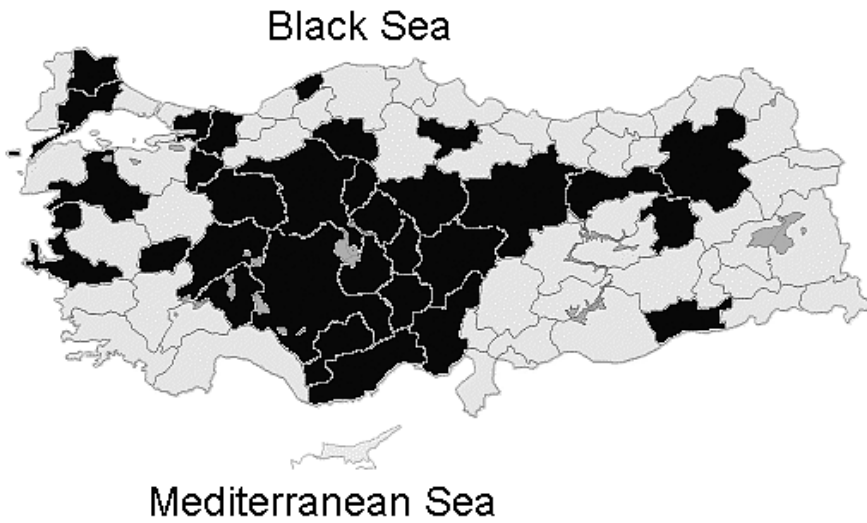


Fig. 14: Distribution of *Agriotes paludum* KIESENWETTER 1859 in Turkey.



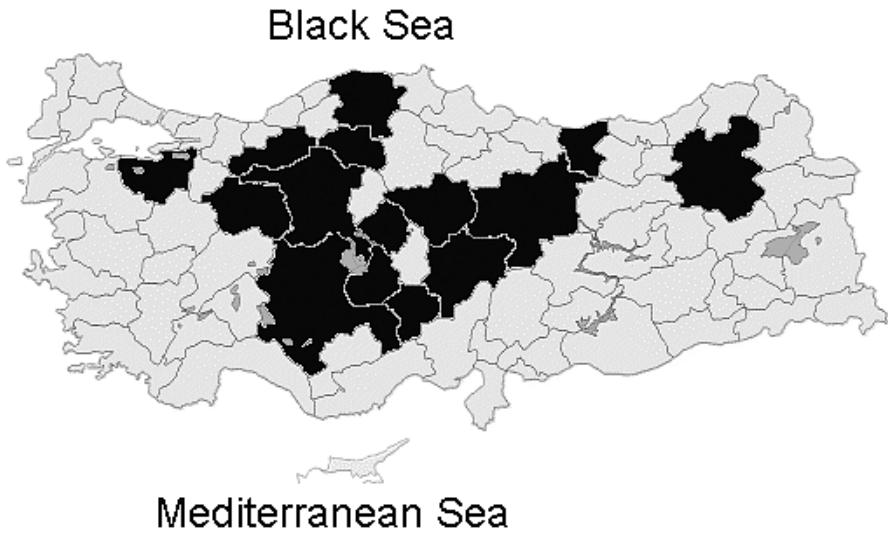


Fig. 15: Distribution of *Agriotes proximus* SCHWARZ 1891 in Turkey.

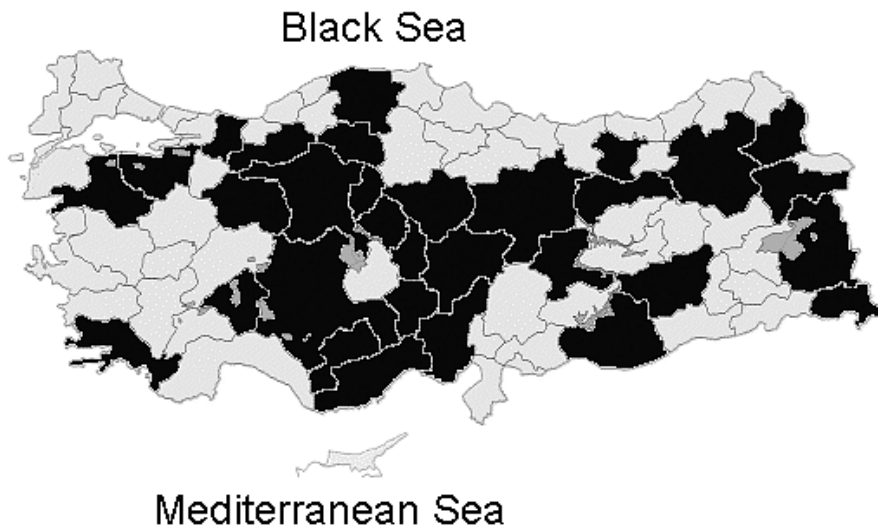


Fig. 16: Distribution of *Agriotes sputator* (LINNAEUS 1758) in Turkey.



Fig. 17: Distribution of *Agriotes turcicus* CANDÉZE 1863 in Turkey.

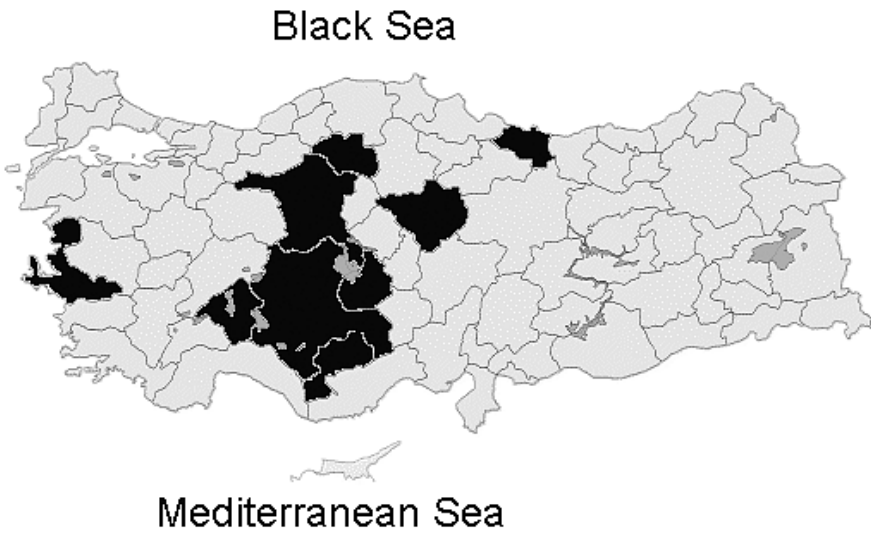


Fig. 18: Distribution of *Ampedus elegantulus* (SCHÖNHERR 1817) in Turkey.



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



**Fig. 20:** Distribution of *Haterumelater languidus* (BUYSSON 1891) in Turkey.

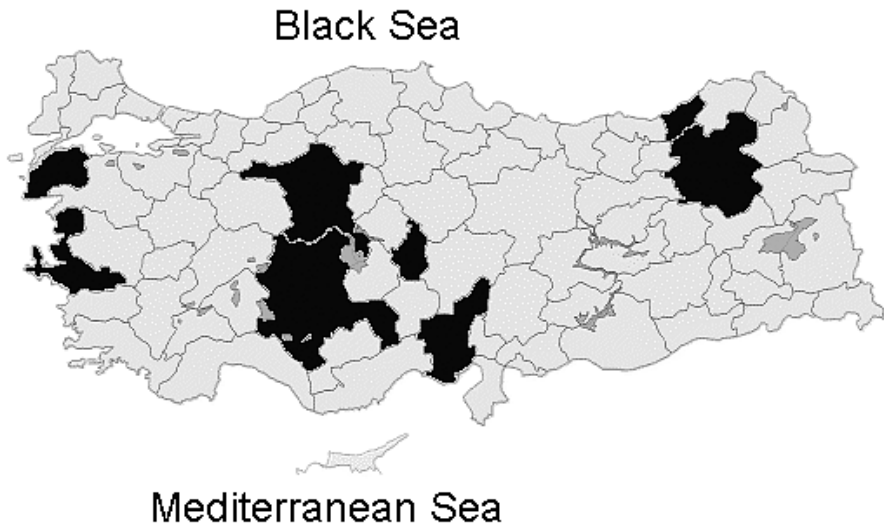


Fig. 21: Distribution of *Mulsanteus guillebeaui* (MULSANT & GODART 1853) in Turkey.

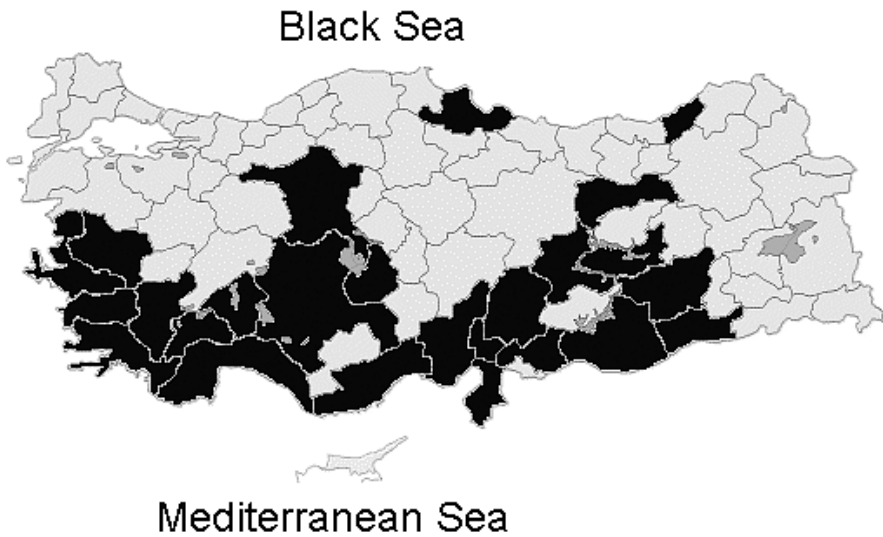


Fig. 22: Distribution of *Pittonotus theseus* (GERMAR 1817) in Turkey.

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