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Some additional notes along with a new record on Elateridae (Coleoptera) fauna of Turkey

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Abstract

In this paper, some distributional data of three species belonging to three genera of Agrypninae CANDÈZE 1857; 34 species belonging to two genera of Cardiophorinae CANDÈZE 1860; 15 species belonging to six genera of Denticollinae STEIN & J. WEISE 1877; 36 species belonging to nine genera of Elaterinae LEACH 1815; four species belonging to one genus of Melanotinae CANDÈZE 1859 and one species belonging to one genus of Negastrinae NAKANE & KISHII 1956 (Coleoptera, Elateridae) fauna of Turkey housed in the collection of Lodos Entomological Museum, Turkey (LEMT), Ege University, Izmir, Turkey, have been given. Among those *Cardiophorus procerulus* KIESENWETTER 1859 is the first record for Turkish Elateridae fauna. The material is presented together with collecting dates and locality data.

Key words: Elateridae, fauna, LEMT, Turkey.

Zusammenfassung

Vorliegende Arbeit behandelt Agrypninae-Cardiophorinae-Denticollinae-Elaterinae-Melanotinae-Negastrinae Material (Elateridae), das an verschiedenen Orten in der Türkei im Zeitraum 1970 bis 2013 aufgesammelt wurde. Dreiundneunzig Arten aus zweiundwanzig Gattungen konnten nachgewiesen werden, die Funddaten nebst Verbreitungsangaben für die Türkei wurden festgehalten.

Introduction

The Elateridae is a widespread and rather large family of Coleoptera, with more than 10.000 described species approximately 750 genera worldwide. There are some descriptions and faunistic records on Turkish elaterids in the entomological literature. 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), GULPERCIN &

TEZCAN (2006; 2009; 2010a, b; 2012a, b, c; 2014a, b, c; 2015), KESDEK ET AL. (2006), LOBL & SMETANA (2007), MERTLIK & PLATIA (2008), KABALAK & SERT (2009; 2010a, b; 2011a, b; 2012a, b, c; 2013), TEZCAN & GULPERCIN (2009), UZUM ET AL. (2009), VARLI ET AL. (2010), ONCUL-ABACIGIL ET AL. (2012), OZGEN ET AL. (2012) have great importance.

A short time ago the Distributional Catalogue of Turkish Elateridae (Coleoptera) Fauna has been published GULPERCIN & TEZCAN (2010b). In this publication, a total of 173 species belonging to 26 genera of Elaterinae subfamily, 124 species belonging to 19 genera of Denticollinae subfamily, 91 species belonging to four genera of Cardiophorinae subfamily, 27 species belonging to 11 genera of Agrypninae subfamily, 23 species belonging to one genus of Melanotinae subfamily, 20 species belonging to three genera of Negastrinae subfamily, two species belonging to one genus of Lissominae subfamily and one species belonging to one genus Cebrioninae and Hypnoidinae subfamilies 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 1961-2013 by researchers of Plant Protection Department, Faculty of Agriculture, Ege University. Provinces of the collected specimens were given in alphabetical order in the following list. Those material have been determined by G. Platia (Italy) and N. Gulpercin (Turkey). Classification and nomenclature of the species of Agrypninae, Cardiophorinae, Denticollinae, Elaterinae, Lissominae, Melanotinae and Negastrinae suggested by LOBL & SMETANA (2007) have been followed in this study.

Material and Methods

Elateridae species have been collected by sweeping net, knock down methods, bait traps, sticky yellow traps, light traps and pitfall traps. Material have also been collected by hand on the ground, under stone, under the bark of trees. In addition to these, material collected during 1961-2013 and housed in the collection of LEMT (Lodos Entomological Museum, Turkey) at the Department of Plant Protection, Faculty of Agriculture, Ege University, Bornova, Izmir, Turkey have been evaluated in this study. All taxa have been given in subfamilies according to LAIBNER (2000) and arranged in alphabetical order within each subfamily. For each species, information on the name of locality, date of collection, plant or place on which the material collected, and the number of species have been given in brackets.

Results

In this study, three species belonging to three genera of Agrypninae; 34 species belonging to two genera of Cardiophorinae; 15 species belonging to six genera of Denticollinae; 36 species belonging to nine genera of Elaterinae; four species belonging to one genus of Melanotinae and one species belonging to one genus of Negastrinae were recorded. As a

result, a total of 1291 specimens were recorded. Recent distribution of each species were also given within the text.

Family: Elateridae LEACH 1815

Subfamily: Agrypninae CANDÈZE 1857

Genus: *Calais* LAPORTE De CASTELNAU 1829

***Calais parreyssi* (STEVEN 1829)**

M a t e r i a l e x a m i n e d : Balıkesir: Edremit, V.2011, 1 ex.; Izmir: Bergama-Kozak, 14.V.2008, under bark, 1 ex., totally 2 specimens.

Genus: *Drasterius* ESCHSCHOLTZ 1829

***Drasterius bimaculatus* (ROSSI 1790)**

M a t e r i a l e x a m i n e d : Bursa: Inegöl, 15.VI.1977, *Nicotiana tabacum* LINNAEUS 1753, 1 ex.; Hatay: Dörtöyl, 29.V.1985, salty marsh, 2 exs.; Izmir: Kınık, 13.X.1999, pitfall trap, 1 ex., Manisa: Central province, 06.V.1990, 1 ex., totally 5 specimens.

Genus: *Lacon* LAPORTE DE CASTELNAU 1836

***Lacon punctatus* (HERBST 1779)**

M a t e r i a l e x a m i n e d : Izmir: Karaburun, 13.VII.2004, bait trap, 1 ex.; Manisa: Akhisar-Gelenbe, V.2000, pitfall trap, 1 ex., totally 2 specimens.

Subfamily: Cardiophorinae CANDÈZE 1860

Genus: *Cardiophorus* ESCHSCHOLTZ 1829

***Cardiophorus acuminatus* PLATIA & GUDENZI 2002**

M a t e r i a l e x a m i n e d : Bilecik: Gölpazarı, 28.V.1971, *Crataegus* sp., 4 exs., *Rosa* sp., 1 ex.; Bolu: Central province, 27.V.1980, aerial collector, 1 ex.; Izmir: Emiralem, 02.V.1993, *Medicago sativa* LINNAEUS 1753, 1 ex., Gümüşdüz, 09.IV.1973, *Cupressus* sp., 1 ex., poaceous plants, 4 exs., weeds, 1 ex., Menemen, 28.IV.1992, *Quercus* sp., 3 exs., Seferihisar, 20.IV.1972, *Matricaria* sp., 16 exs.; Mersin: Silifke, 28.IV.1985, *Pinus* sp., 1 ex., totally 33 specimens.

***Cardiophorus aemulus* PLATIA & GUDENZI 2002**

M a t e r i a l e x a m i n e d : Antalya: Elmalı, 21.V.1986, *Crataegus* sp., 1 ex.; Mersin: Güzeloluk, 25.IV.1985, *Quercus* sp., 1 ex.; Muğla: Köyceğiz, 18.V.1980, cruciferous plants, 1 ex., totally 3 specimens.

***Cardiophorus agilis* PLATIA & GUDENZI 2002**

M a t e r i a l e x a m i n e d : Izmir: Ödemiş, 24.IV.1973, weeds, 2 exs., 25.IV.1973, *Quercus* sp., 1 ex., 30.IV.2003, *Pyrus communis* LINNAEUS 1752, 1 ex., Ödemiş, Birgi (Hacıhasanlı), 01.VI.2004, *Cydonia oblonga* MILLER 1768, 2 exs., *Prunus cerasus* LINNAEUS 1753, 1 ex., Ödemiş, Bozdağ, 24.V.1978, *Crataegus* sp., 3 exs., *Pinus* sp., 13 exs., *Quercus* sp., 2 exs., *Rosa* sp., 4 exs., weeds, 1 ex., 20.IV.2003, *Pinus* sp., 1 ex., 30.IV.2003, *Prunus dulcis* MILLER 1768, 1 ex.,

19.VI.2003, *Urtica* sp., 2 exs., Bozdağ-Büyük Çavdar, 1061 m, [38° 21' N / 28° 07' E], 15.VI.2004, *Rosa canina* LINNAEUS 1753, 1 ex., Bozdağ-Büyük Çavdar, 1461 m, [38° 21' N / 28° 07' E], 15.VI.2004, *R. canina*, 1 ex., Bozdağ-Büyük Çavdar, 1537 m, [38° 28' N / 28° 06' E], 15.VI.2004, *Urtica* sp., 1 ex., Bozdağ-Küçük Çavdar, [38° 18' N / 28° 07' E], 15.VI.2004, rosaceous plants, 1 ex., Bozdağ-Gölcük, 27.IV.2005, weeds, 8 exs., Bozdağ-Gölcük, 1287 m, [38° 18' N / 28° 02' E], 15.VI.2004, *Juniperus* sp., 3 exs., *Pinus* sp., 4 exs., *Quercus* sp., 2 exs., Bozdağ-Gündalan, 1500 m, [38° 21' N / 28° 05' E], 15.VI.2004, *Pinus* sp., 2 exs., Torbalı, 19.IV.1998, *Centaurea* sp., 1 ex., totally 58 specimens.

***Cardiophorus analis* SCHWARZ 1892**

Material examined: Adıyaman: Kahta, 07.VI.1976, *P. communis*, 1 ex.; Antalya: Central province, 19.V.1986, *Prunus domestica* LINNAEUS 1753, 2 exs., Güllük Dağı, 24.V.1986, *Crataegus* sp., 1 ex., *Quercus* sp., 1 ex., Gündoğmuş, 27.VI.1980, *Pyrus elaeagnifolia* PALLAS 1793, 1 ex., Kaş, 22.V.1986, *Syrax* sp., 1 ex., Söğüt, 29.V.1981, weeds, 1 ex., 27.VI.1981, weeds, 1 ex.; Mersin: Gözne, 31.V.1984, *Juniperus* sp., 1 ex., totally 10 specimens.

***Cardiophorus cyanipennis* MULSANT 1852**

Material examined: Adana: Central province, 02.V.1985, *Triticum aestivum* LINNAEUS 1753, 1 ex., weeds 1 ex., Tufanbeyli, 1400 m, 05.VI.1984, weeds, 1 ex., totally 3 specimens.

***Cardiophorus discicollis* (HERBST 1806)**

Material examined: Ankara: Şereflikoçhisar, 02.V.1979, weeds, 1 ex.; Balıkesir: Gökçedağ, 18.V.1971, *Crataegus* sp., 1 ex.; Izmir: Çeşme, 24.II.1972, *Olea europaea* LINNAEUS 1758, 2 exs., 13.V.1984, weeds, 3 exs., Gümlükdür, 09.IV.1973, poaceous plants, 2 ex., Kemalpaşa, 07.II.1972, *P. elaeagnifolia*, 1 ex., Narlıdere, 11.II.1972, *O. europaea*, 5 exs., 19.II.1972, *O. europaea*, 1 ex., Ödemiş-Bozdağ, 18.V.2004, pitfall trap, 1 ex., Seferihisar, 28.XII.1971, under stone, 1 ex.; Mersin: Taşobası, 05.VI.1972, *Rosa* sp., 1 ex.; Muğla: Bodrum, 22.IV.1980, *Celtis* sp., 1 ex., *Quercus* sp., 1 ex., totally 21 specimens.

***Cardiophorus dolini* MARDJANIAN 1985**

Material examined: Ankara: Eryaman, 31.III.2003, 1 ex., Zafertepe, 17.VI.1975, weeds, 1 ex.; Aydın: Köşk, 24.IV.1972, *Lupinus* sp., 1 ex.; Çorum: Central province, 06.VI.1973, *Lens culinaris* MEDIKUS 1787, 1 ex.; Denizli: Pamukkale, 17.V.1975, *Nerium oleander* LINNAEUS 1753, 2 exs.; Izmir: Bornova, 10.IV.1984, weeds, 1 ex., 04.V.1984, 1 ex., Ören, 21.IV.1998, 1 ex.; Kastamonu: Taşköprü, 05.VI.1980, 1 ex.; Kırklareli: Central province, 21.V.1975, *Prunus avium* LINNAEUS 1755, 1 ex., Lüleburgaz, 08.V.1975, *Sinapis* sp., 1 ex.; Kütahya: Central province, 19.VI.1975, poaceous plants, 3 exs., Altıntaş, 18.VI.1975, weeds, 1 ex., Gediz, 20.V.1971, *Crataegus* sp., 4 exs., *C. oblonga* 1 ex., *Malus domestica* BORKH 1803, 2 exs., *P. cerasus*, 1 ex., *Ulmus* sp., 1 ex.; Nevşehir: Hacıbektas, 26.VI.1980, *Corylus avellana* LINNAEUS 1753, 2 exs., weeds, 1 ex.; Osmaniye: Düziçi, 07.V.1985, aerial collector, 1 ex.; Tekirdağ: Central province, 21.V.1973, *P. avium*, 1 ex., 22.V.1973, *Prunus persica* LINNAEUS 1753, 5 exs., 07.V.1975, *Vitis vinifera* LINNAEUS 1753, 2 ex.; Barbaros, 01.VI.1971, 1 ex., 01.VI.1975, 2 exs., 07.VIII.1975, *V. vinifera*, 1 ex.; Uşak: Central province, 17.VI.1975, *P. elaeagnifolia*, 3 exs., totally 44 specimens.

***Cardiophorus frequens* PLATIA & GUDENZI 2002**

Material examined: Gaziantep: Central province, 24.IV.1986, poaceous plants, 1 ex., 25.IV.1986, *M. domestica*, 1 ex., 26.IV.1986, weeds, 1 ex.; Hatay: Yayladağ, 28.IV.1988, weeds, 1 ex.; Izmir: Bornova, 10.V.1978, weeds, 1 ex.; Kahramanmaraş: Ahır Dağı, 01.V.1986, weeds, 1 ex.; Konya: Beyşehir, 23.IV.1979, under stone, 1 ex., totally 7 specimens.

***Cardiophorus hayekae* PLATIA & GUDENZI 2002**

Material examined: Denizli: Çal, 11.V.1972, *P. avium*, 1 ex.; Gaziantep: Araban, 25.IV.1986, weeds, 1 ex.; Oğuzeli, 24.IV.1988, weeds, 1 ex.; Hatay: Altınözü, 08.VII.1986, weeds, 1 ex.; Izmir: Bornova, 02.IV.1975, poaceous plants, 1 ex., 22.V.1976, weeds, 1 ex., 06.V.1978, weeds, 1 ex., 13.V.1978, weeds, 1 ex., 14.V.1978, weeds, 2 exs., 21.V.1978, weeds, 1 ex., 23.V.1978, weeds, 2 exs., 19.IV.1983, weeds, 1 ex., Buca, 13.V.1984, weeds, 1 ex., Çeşme, 11.IV.1973, *Matricaria chamomilla* LINNAEUS 1753, 3 exs., Çeşme-Altinkum, [38° 16' N / 26° 15' E], 23.III.2004, *Juniperus* sp., 1 ex.; Manisa: Sultanyayla, 29.V.1970, *P. avium*, 1 ex.; Mersin: Mut, 21.IV.1985, *Pinus* sp., 1 ex., totally 21 specimens.

***Cardiophorus imitator* PLATIA & GUDENZI 2002**

Material examined: Izmir: Ödemiş, Birgi, 01.VI.2004, *Juniperus* sp., 1 ex., Karabağlar-Tirazlı, 18.V.1990, *P. elaeagnifolia*, 1 ex., Urla, 17.V.1974, weeds, 1 ex.; Manisa: Central province, 17.V.1999, sticky yellow trap, 1 ex., Sultanyayla, 28.V.1978, *Juglans regia* LINNAEUS 1753, 1 ex., 29.V.1970, 1 ex., totally 6 specimens.

***Cardiophorus impressiventris* SCHWARZ 1900**

Material examined: Adana: Fekke, 04.V.1985, *Pinus* sp., 1 ex., Pozantı, 30.IV.1985, *Pinus* sp., 2 exs., *Tamarix* sp., 2 exs.; Gaziantep: Şahinbey-Burç, 23.IV.1986, *Pinus* sp., 1 ex.; Kahramanmaraş: Göksun, 02.V.1986, *Astragalus* sp., 1 ex., *Rosa* sp., 1 ex.; Mersin: Mut, 21.IV.1985, *Quercus ilex* LINNAEUS 1753, 1 ex., Tarsus, 30.IV.1985, *T. aestivum*, 2 exs., weeds, 1 ex., Uzuncaburç, 24.IV.1985, *Q. ilex*, 1 ex.; Niğde: Çiftelhan, 29.IV.1979, *P. avium*, 1 ex., totally 13 specimens.

***Cardiophorus kindermanni* CANDÈZE 1860**

Material examined: Isparta: Eğirdir, 27.IV.1972, *P. domestica*, 1 ex., totally 1 specimen.

***Cardiophorus kinzelbachi* CHASSAIN 1979**

Material examined: Hatay: Altınözü, 27.IV.1986, weeds, 3 exs., totally 3 specimens.

***Cardiophorus lundbergi* PLATIA & GUDENZI 2000**

Material examined: Mersin: Gülnar, 25.V.1984, *Cupressus* sp., 1 ex., totally 1 specimen.

***Cardiophorus megathorax* FALDERMANN 1835**

Material examined: Antalya: Central province, 28.V.1980, weeds, 2 exs., Alanya: 26.V.1986, *Morus* sp., 1 ex., *Punica granatum* LINNAEUS 1753, 1 ex., weeds, 1 ex.; Balıkesir: Ayvalık, 23.V.1973, boraginaceaeous plants, 1 ex.; Hatay: Akbez, 02.VI.1985, weeds, 1 ex., 26.IV.1988, weeds, 1 ex.; Izmir: Ödemiş-Bozdağ, 08.VII.1974, weeds, 1 ex.; Nevşehir: Gülşehir, 26.VI.1980, *Euphorbia* sp., 4 exs.; Uşak: Eşme, 16.VI.1975, weeds, 1 ex., totally 14 specimens.

***Cardiophorus neolienus* PLATIA & GUDENZI 1999**

Material examined: Gaziantep: Central province, 07.VI.1985, *Euphorbia* sp., 2 exs., weeds, 1 ex., totally 3 specimens.

***Cardiophorus nigerrimus* ERICHSON 1840**

Material examined: Kastamonu: Tosya, 08.VI.1980, *Elaeagnus angustifolia* LINNAEUS 1753, 1 ex., *Quercus* sp., 2 exs., totally 3 specimens.

***Cardiophorus nigratissimus* BUYSSON 1891**

Material examined: Adana: Ceyhan, 09.V.1985, weeds, 2 exs., Tufanbeyli, 12.VII.1986, weeds, 1 ex., Tufanbeyli, 1530 m, 05.VI.1984, *Quercus* sp., 1 ex., Yumurtalık, 08.VI.1984, weeds, 3 exs., 09.VI.1984, poaceous plants, 1 ex.; Ardahan: Nemrut, 07.VI.1976, 4 exs.; Ankara: Beypazarı, 10.VII.1979, weeds, 1 ex.; Batman: Central province, 08.VI.1975, *T. aestivum*, 5 exs.; Burdur: Central province, 12.VI.1973, weeds, 1 ex.; Denizli: Acıpayam, 13.VI.1979, weeds, 2 exs.; Diyarbakır: Central province, 11.VI.1976, weeds, 6 exs.; Gaziantep: Central province, VI.1972, *Pistacia vera* LINNAEUS 1753, 2 exs., 06.VI.1985, *Rhus coriaria* (LINNAEUS 1753), 1 ex., weeds, 4 exs., 07.VI.1985, *Euphorbia* sp., 2 exs., *T. aestivum*, 5 exs., weeds, 1 ex.; Araban, 25.IV.1985, weeds, 1 ex., 07.VI.1985, weeds, 4 exs.; Nizip, 24.IV.1986, weeds, 2 exs., Oğuzeli, 04.VI.1985, *Salix* sp., 1 ex., weeds, 2 exs., 05.VI.1985, weeds, 7 exs.; Gümüşhane: Kelkit, 11.VII.1978, weeds, 2 exs.; Hatay: Belen-Soğukoluk, 30.VI.1985, *T. aestivum*, 1 ex.; Hassa-Akbezi, 02.VI.1985, weeds, 2 exs., Dörtöl, 28.V.1985, weeds, 11 exs., Yayladağ, 01.VI.1985, weeds, 1 ex.; Izmir: Bergama-Kozak, 12.I.1982, *Salix* sp., 1 ex.; Ödemiş-Bozdağ, 24.V.1978, *Pinus* sp., 1 ex.; Kahramanmaraş: Central province, 08.VI.1985, weeds, 1 ex., Afşin, 12.VI.1985, weeds, 1 ex., Gavurdağı, 08.VI.1985, weeds, 2 exs., Nurhakdağı, 13.VI.1985, weeds, 6 exs., 13.VIII.1985, weeds, 1 ex.; Kilis: Central province, 04.VI.1985, *Cirsium* sp., 2 exs., weeds, 12 exs.; Kütahya: Abide, 27.V.1971, *Salix* sp., 1 ex., 21.VI.1975, weeds, 1 ex., 31.VI.1975, weeds, 7 exs.; Kırşehir: Kaman, 25.VI.1980, poaceous plants, 1 ex.; Konya: Hadim, 04.VII.1980, weeds, 1 ex., Seydişehir, 05.VII.1980, weeds, 3 exs.; Malatya: Central province, 09.VI.1976, weeds, 3 exs.; Mardin: Central province, 03.VI.1976, *Quercus* sp., 3 exs., 11.VI.1976, weeds, 3 exs., 14.VI.1976, weeds, 1 ex., Gürpınar, 03.VI.1976, weeds, 4 exs.; Mersin: Tarsus, 28.IV.1985, *P. communis*, 1 ex.; Mus: Korkut, 14.VI.1975, *Glycyrrhiza glabra* LINNAEUS 1753, 1 ex.; Niğde: Central province, 30.IV.1979, *Crataegus* sp., 1 ex., *P. dulcis*, 1 ex., weeds, 1 ex.; Çamardı, 29.VI.1980, weeds, 1 ex.; Osmaniye: Düziçi, 07.VI.1984, *Rubus* sp., 1 ex., Zorkun, 4.VII.1986, *Pinus* sp., 1 ex., 14.VII.1986, aerial collector, 1 ex.; Siirt: Baykan, 08.VI.1975, *Q. ilex*, 1 ex., 08.VI.1976, *Q. ilex*, 1 ex.; Sanlıurfa: Ceylanpınar, 05.VI.1976, 16 exs.; Tokat: Zile, 03.VII.1978, weeds, 4 exs.; Zonguldak: Ereğli, 01.VII.1980, weeds, 1 ex., 04.VII.1980, weeds, 5 exs., totally 169 specimens.

***Cardiophorus parvulus* PLATIA & GUDENZI 2000**

Material examined: Afyonkarahisar: Kocatepe, 16.VI.1975, weeds, 2 exs.; Antalya: Central province, 19.V.1986, *Q. ilex*, 13 exs., *Rosa* sp., 1 ex., Elmalı, 23.V.1986, *Q. ilex*, 1 ex., Güllük Dağı, 24.V.1986, *Quercus* sp., 8 exs., weeds, 1 ex.; Izmir: Bergama-Aşağıbey, 14.V.2003, weeds, 2 exs., Bornova, 02.VI.1977, weeds, 1 ex., Kemalpaşa-Armutlu, 27.IV.2004, *P. avium*, 1 ex., Kemalpaşa-Çambel, 09.VI.2004, sticky yellow trap, 1 ex., Kemalpaşa-Nif Dağı [38° 22' N / 28° 03' E], 25.V.2004, *J. regia*, 1 ex., *Pinus* sp., 5 exs., Kemalpaşa-Ören, 08.VI.1998, 1 ex., 11.VI.2003, *P. avium*, 1 ex., pitfall trap, 1 ex.; Menderes-Efemçukuru, 13.IV.2004, under stone, 2 exs., Ödemiş-Bozdağ-Büyük Çavdar, 1537 m, [38° 28' N / 28° 06' E], 15.VI.2004, *R. canina*, 3 exs., *Urtica* sp., 2 exs., Ödemiş-Kemerköy, 1174 m, [38° 16' N / 28° 06' E], 01.VI.2004, *Quercus* sp., 3 exs., Mersin: Erdemli, 30.V.1984, aerial collector, 1 ex., Fındıklıpınarı, 30.V.1984, *Pinus* sp., 1 ex., Gülnar, 25.V.1984, *Quercus* sp., 3 exs., Güzeloluk, 1710 m, 06.VII.1986, *Juniperus* sp., 3 exs., Silifke-Kırobaşı, 24.IV.1985, *Cedrus* sp., 1 ex., Silifke-Kırobaşı, 1200 m, 29.V.1984, *Cupressus* sp., 1 ex., Silifke-Kırobaşı, 1220 m, 29.V.1984, *Juniperus* sp., 2 exs., Silifke-Kırobaşı, 1290 m, 29.V.1984, *Fagus* sp., 2 exs., *Quercus* sp., 1 ex., Silifke-Uzuncahisar, 1440 m, 29.V.1984, *P. domestica*, 1 ex., totally 69 specimens.

***Cardiophorus pavesii* PLATIA & GUDENZI 2000**

Material examined: Kahramanmaraş: Andırın, 30.IV.1986, *Cedrus* sp., 1 ex., totally 1 specimen.

***Cardiophorus procerulus* KIESENWETTER 1859**

Material examined: İzmir: Ödemiş-Bozdağ, 10.IV.2003, *P. dulcis*, 1 ex., totally 1 specimen. Recorded for the first time from Turkey.

***Cardiophorus ruficruris* BRULLÉ 1832**

Material examined: Balıkesir: Erdek, 23.IV.1975, weeds, 1 ex.; İzmir: Kemalpaşa-Ören, 21.IV.1998, sticky yellow trap, 1 ex., 29.IV.1998, sticky yellow trap, 2 exs., 06.V.1998, sticky yellow trap, 2 exs., 14.V.1998, 1 ex., Menemen, 17.IV.1992, *M. sativa*, 3 exs., totally 10 specimens.

***Cardiophorus samai* PLATIA & GUDENZI 2000**

Material examined: Antalya: Central province, 30.V.1975, weeds, 1 ex., 28.V.1985, weeds, 1 ex., 19.V.1986, *Crataegus* sp., 3 exs., *Q. ilex*, 1 ex., Dağ, 17.V.1986, *Q. ilex*, 11 exs., Gündoğmuş, 25.IV.1984, *Pinus* sp., 1 ex., 26.V.1986, *Quercus* sp., 1 ex., Korkuteli, 25.VI.1980, *Astragalus* sp., 1 ex., totally 20 specimens.

***Cardiophorus syriacus* (LINNAEUS 1758)**

Material examined: Bolu: Central province, 08.VI.1973, *P. domestica*, 1 ex.; Corum: Osmancık, 07.VI.1980, *Juniperus* sp., 2 exs., *T. aestivum*, 1 ex., totally 4 specimens.

***Cardiophorus vestigialis* ERICHSON 1840**

Material examined: Adana: Pozantı, 01.VI.1984, *Pinus* sp., 1 ex., Saimbeyli, 06.VI.1984, *Salix* sp., 1 ex.; Ankara: Elmadağ, 04.V.1979, *Salix* sp., 4 exs., *Tamarix* sp., 1 ex.; Antalya: Gazipaşa, 23.V.1984, *Quercus* sp., 1 ex., Gündoğmuş, 26.V.1986, *C. oblonga*, 1 ex., *M. domestica*, 1 ex., *Quercus* sp., 1 ex., Sinan, 19.V.1986, *Crataegus* sp., 1 ex., *M. domestica*, 1 ex., 19.VI.1988, *Rosa* sp., 2 exs.; Aydın: Samsun Dağı, 14.VI.1977, weeds, 1 ex.; Balıkesir: Kaz Dağları-Beyyınarı, 06.VI.2009, pitfall trap, 1 ex.; Bilecik: Central province, 27.V.1971, *C. oblonga*, 1 ex.; Bursa: Central province, 20.V.1971, *P. persica*, 1 ex., 08.VI.1977, *N. tabacum*, 1 ex.; Çanakkale: Çan, 22.IV.1975, *Platanus* sp., 7 exs.; Denizli: Honaz, 10.V.1972, *P. persica*, 2 exs.; Eskişehir: Sivrihisar, 05.V.1979, liliaceous plants, 1 ex.; İzmir: Balçova, 11.V.1971, *Amygdalus communis* LINNAEUS 1753, 2 exs., Bergama, 24.V.2003, *Platanus* sp., 3 exs., Bornova, 18.IV.1993, weeds, 1 ex., Hatundere, 19.I.1972, *O. europaea*, 6 exs., Kemalpaşa, 23.II.1988, under bark, 3 exs., 15.VI.2005, sticky yellow trap, 1 ex., Kemalpaşa-Armutlu, 11.VI.2003, *P. avium*, 1 ex., 27.IV.2004, *P. avium*, 3 exs., *Rubus* sp., 2 exs., Kemalpaşa-Çambel, 27.IV.2004, under stone, 1 ex., Kemalpaşa-Kurudere, 15.V.2003, *J. regia*, 1 ex., Kemalpaşa-Ören, 16.V.1996, sticky yellow trap, 1 ex., 27.IV.1999, sticky yellow trap, 1 ex., 04.V.1999, sticky yellow trap, 2 exs., Kiraz, 04.IV.2004, *Onopordum* sp., 1 ex., *P. elaeagnifolia*, 4 exs., weeds, 2 exs., Kiraz [38° 11' N / 28° 14' E], 04.V.2004, *J. regia*, 20 exs., *Rubus* sp., 5 exs., weeds, 1 ex., Menderes-Ürkmez, 28.XII.1971, on the ground, 1 ex., Narlıdere, 11.II.1972, *P. elaeagnifolia*, 3 exs., *V. vinifera*, 3 exs., Ödemiş-Bozdağ, 13.IV.1978, on the ground, 1 ex., 24.V.1978, *Pinus* sp., 23 exs., 14.V.2003, weeds, 1 ex., 04.V.2004, *Rubus* sp., 1 ex., Bozdağ, 165 m, [38° 27' N / 28° 03' E], 18.V.2004, *P. persica*, 2 exs., *Mespilus germanica* LINNAEUS 1763, 2 exs., Bozdağ-Büyük Çavdar, 19.VI.2003, *J. regia*, 1 ex., *Rubus* sp., 2 exs., *Urtica* sp., 2 exs., Ödemiş-Kemerköy, 1174 m, [38° 16' N / 28° 06' E], 01.VI.2004, *Q. ilex*, 6 exs., Ödemiş-Yılanlı, 1092 m, [38° 16' N / 28° 06' E], 01.VI.2004, *Castanea sativa* MILLER 1768, 1 ex., *P. avium*, 2 exs., Seferihisar, 20.IV.1972, *C. oblonga*, 7 exs., 30.III.2004, under stone, 4 exs., 18.IV.2005, under stone, 1 ex., Selçuk, 21.V.2003, *P. communis*, 3 exs., *Quercus* sp., 1 ex., Söğütören, 28.V.2003, *O. europaea*, 2 exs., *P. elaeagnifolia*, 28.V.2003, 2 exs., Torbalı, 15.V.2003, *O. europaea*, 1 ex., *P.*

avium, 2 exs.; Kahramanmaraş: Central province, 30.IV.1986, *Crataegus* sp., 1 ex., *Rubus* sp., 1 ex., *Salix* sp., 4 exs., Göksun, 14.VI.1985, *M. domestica*, 1 ex., weeds, 2 exs.; Karaman: Ermenek, 27.IV.1979, *Rubus* sp., 1 ex.; Kırıkkale: Central province, 04.V.1979, *Salix* sp., 1 ex.; Konya: Seydişehir, 24.IV.1979, *Populus* sp., 1 ex., 27.IV.1979, *Berberis* sp., 1 ex.; Manisa: Akhisar, 30.IV.1971, *P. persica*, 1 ex., Sultanyayla, 29.V.1970, *P. avium*, 2 exs., *P. domestica*, 1 ex., *Ulmus* sp., 1 ex.; Mersin: Anamur, 03.VII.1986, *Platanus* sp., 1 ex., weeds, 1 ex.; Fındıkpınarı, 30.V.1984, *Pinus* sp., 1 ex., Gülnar, 24.V.1984, *Juniperus* sp., 2 exs., *P. domestica*, 1 ex., *Quercus* sp., 2 exs., Mut, 22.IV.1985, *V. vinifera*, 1 ex., Silifke, 22.IV.1985, *Cistus* sp., 1 ex., *Pinus* sp., 3 exs.; Muğla: Dalaman, 04.V.1972, *Paliurus spina-christi* MILLER 1768, 2 exs., Milas, 08.V.1972, *P. persica*, 1 ex.; Niğde: Çiftelhan, 29.IV.1979, *Salix* sp., 7 exs., *Tamarix* sp., 1 ex.; Ulukışla, 29.IV.1979, *Salix* sp., 7 exs.; Osmaniye: Bahçe, 07.VI.1984, *Inula* sp., 1 ex., 07.V.1985, *Acacia* sp., 1 ex.; Zonguldak: Ereğli, 02.V.1980, *Rubus* sp., 1 ex., totally 217 specimens.

Genus: *Dicronychus* BRULLÉ 1832

Dicronychus apteriformis PLATIA & GUDENZI 2004

Material examined: Izmir: Ödemiş-Bozdağ, 28.IV.2001, pitfall trap, 1 ex., 26.V.2001, pitfall trap, 1 ex., 09.VI.2001, pitfall trap, 11 exs., 01.VII.2001, pitfall trap, 14 exs., 10.VII.2001, pitfall trap, 5 exs., Bozdağ-Büyük Çavdar, 1537 m, [38° 28' N / 28° 06' E], 15.VI.2004, *Pinus* sp., 1 ex., *R. canina*, 10 exs., *Urtica* sp., 27 exs., rosaceous plants, 1 ex., totally 71 specimens.

Dicronychus bozdaghensis PLATIA & GUDENZI 2004

Material examined: Izmir: Kiraz, 04.V.2004, *P. persica*, 3 exs., totally 3 specimens.

Dicronychus cinereus (HERBST 1784)

Material examined: Balıkesir: Kaz Dağları-Ayıderesi, 26.IV.2008, 1 ex.; Izmir: Ödemiş-Bozdağ, 24.V.1978, weeds, 1 ex., Bozdağ-Büyük Çavdar, 15.VI.2004, *Urtica* sp., 1 ex., Ödemiş-Yılanlı, 1092 m, 01.VI.2004, *C. sativa*, 1 ex., totally 4 specimens.

Dicronychus equiseti (HERBST 1784)

Material examined: Ankara: Kalecik, 04.V.1979, *Spinacia oleracea* LINNAEUS 1753, 1 ex.; Sinop: Central province, 06.VI.1980, weeds, 1 ex., totally 2 specimens.

Dicronychus iconiensis (PIC 1908)

Material examined: Kahramanmaraş: Göksun, 02.V.1986, weeds, 1 ex., totally 1 specimen.

Dicronychus merkli (PIC 1910)

Material examined: Antalya: Akseki, 22.VI.1981, *Cedrus* sp., 3 exs.; Edirne: Lalapaşa, 02.VI.1975, *Rosa* sp., 1 ex.; Erzurum: Şenkaya, 17.VI.1989, 1 ex., totally 5 specimens.

Dicronychus obscuripennis (PIC 1899)

Material examined: Ankara: Polatlı-Devlet Üretim Çiftliği, 08.V.1990, *M. sativa*, 1 ex.; Balıkesir: Kaz Dağları-Sarıköz Mevki, 10.V.2009, pitfall trap, 2 exs.; Kaz Dağları-Ayıderesi, 31.V.2008, 1 ex.; Kütahya: Central province, 22.V.1971, *Rosa* sp., 1 ex.; Izmir: Bergama, 14.V.2003, *J. regia*, 2 exs., *P. elaeagnifolia*, 4 exs.; Ödemiş-Bozdağ, 09.VI.2001, pitfall trap, 7 exs.; Zonguldak: Çaycuma, 31.V.1980, *Rosa* sp., 1 ex., totally 19 specimens.

***Dicronychus senaci* (DESBROCHERS DES LOGES 1869)**

M a t e r i a l e x a m i n e d : Antalya: Korkuteli, 25.IX.1980, *Cupressus* sp., 1 ex.; Bilecik: Bozöyük, 27.V.1971, *Salix* sp., 1 ex.; Dodurga, 1360 m, 23.V.1971, *Pinus* sp., 2 exs.; Izmir: Beydağ, 04.V.2004, *Onopordum* sp., 1 ex.; Ödemiş-Bozdağ, 24.V.1978, *Pinus* sp., 1 ex., *Rosa* sp., 1 ex., Selçuk-Şirince, 21.V.2003, *Ficus carica* LINNAEUS 1753, 3 exs., *O. europaea*, 1 ex., *P. persica*, 1 ex.; Karabük: Central province, 29.V.1980, *P. domestica*, 1 ex., totally 13 specimens.

***Dicronychus variatus* (DESBROCHERS DES LOGES 1875)**

M a t e r i a l e x a m i n e d : Izmir: Ödemiş, Bozdağ, Gölcük, 19.VI.2003, pitfall trap, 6 exs., totally 6 specimens.

Subfamily: Denticollinae STEIN & J. WEISE 1877

Genus: *Athous* ESCHSCHOLTZ 1829

***Athous haemorrhoidalis* (FABRICIUS 1801)**

M a t e r i a l e x a m i n e d : Balıkesir: Kaz Dağları, 19.VII.2008, pitfall trap, 1 ex., 14.VI.2008, pitfall trap, 3 exs., Kaz Dağları-Ayıderesi, 09.V.2008, 3 exs., Yedikardeşler, 14.VI.2008, Kaz Dağları, 1 ex., totally 8 specimens.

***Athous kobachidzei* DOLIN & CHANTLADZE 1982**

M a t e r i a l e x a m i n e d : Kastamonu: Küre, 04.VI.1980, *Pinus* sp., 1 ex., totally 1 specimen.

***Athous subfuscus* (MÜLLER 1764)**

M a t e r i a l e x a m i n e d : Bolu: Abant, 29.V.1980, *Fagus* sp., 2 exs., totally 2 specimens.

***Athous anatolicus* PLATIA 1989**

M a t e r i a l e x a m i n e d : Gümüşhane: Zigana, 08.VII.1978, weeds, 6 exs., totally 6 specimens.

***Athous cagatayae* KABALAK & SERT 2012**

M a t e r i a l e x a m i n e d : Ankara: Bağlum, 11.VII.1979, *M. sativa*, 1 ex.; Sinop: Boyabat, 05.VIII.1980, weeds, 1 ex., totally 2 specimens.

***Athous frontalis* PLATIA & SCHIMMEL 1991**

M a t e r i a l e x a m i n e d : Tekirdağ: Bolayır, Şarköy, 31.V.1973, *Vicia faba* LINNAEUS 1753, 1 ex., totally 1 specimen.

***Athous hajeki* PLATIA & GUDENZI 2005**

M a t e r i a l e x a m i n e d : Samsun: Central province, 15.VII.1974, meadow plants, 2 exs., totally 2 specimens.

***Athous margheritae* GUGLIELMI & PLATIA 1985**

M a t e r i a l e x a m i n e d : Sinop: Central province, 04.VI.1980, *Crataegus* sp., 1 ex., 06.VI.1980, *Pteridium aquilinum* (LINNAEUS 1753), 2 exs., *Poterium* sp., 1 ex., totally 4 specimens.

***Athous sabatinellii* GUGLIELMI & PLATIA 1985**

M a t e r i a l e x a m i n e d : Düzce: Yığılca, 15.VII.1979, *Rubus* sp., 1 ex., totally 1 specimen.

Genus: *Hemicrepidius* GERMAR 1839

***Hemicrepidius hirtus* (HERBST 1784)**

M a t e r i a l e x a m i n e d : Kastamonu: Taşköprü, 05.VI.1980, *M. sativa*, 1 ex., totally 1 specimen.

Genus: *Limoniscus* REITTER 1905

***Limoniscus elegans* (BUYSSON 1891)**

M a t e r i a l e x a m i n e d : Tokat: Almus, 02.VII.1978, *Quercus* sp., 1 ex., totally 1 specimen.

Genus: *Nothodes* LECONTE 1861

***Nothodes parvulus* (PANZER 1799)**

M a t e r i a l e x a m i n e d : Adana: Fekke, 04.V.1986, *J. regia*, 2 exs.; Antalya: Güllük Dağı, 24.VI.1986, *Quercus* sp., 1 ex.; Bilecik: Bozüyük, 23.V.1971, *Quercus* sp., 1 ex.; Bolu: Yedigöller, 27.V.1980, *Fagus* sp., 1 ex.; Isparta: Yukarı Gökdere-Kasnak, 02.VI.2010, *Quercus* sp., 3 exs.; Kahramanmaraş: Andırın, 10.VI.1985, *Syrax* sp., 1 ex.; Manisa: Turgutlu-Dağmarmara, 17.VI.2003, pitfall trap, 1 ex.; Mersin: Namrun, 01.VI.1984, *Quercus* sp., 1 ex.; Osmaniye: Zorkun, 08.V.1985, *Pinus* sp., 2 exs.; Tekirdağ: Şarköy, 31.V.1975, *Quercus* sp., 1 ex., Şarköy-Bayır, 31.V.1975, *V. faba*, 1 ex., totally 15 specimens.

Genus: *Prosternon* LATREILLE 1834

***Prosternon tessellatum* (LINNAEUS 1758)**

M a t e r i a l e x a m i n e d : Balıkesir: Kaz Dağları, 05.VII.2008, pitfall trap, 1 ex., totally 1 specimen.

Genus: *Selatosomus* STEPHENS 1830

***Selatosomus amplicollis* (GERMAR 1843)**

M a t e r i a l e x a m i n e d : Balıkesir: Kaz Dağları, Yedikardeşler, 05.VII.2008, *Verbascum* sp., 1 ex.; İzmir: Karaburun, 13.VII.2004, bait trap, 1 ex., totally 2 specimens.

***Selatosomus melancholicus* (FABRICIUS 1798)**

M a t e r i a l e x a m i n e d : Kayseri: Hacılar, 28.VI.1980, *Populus* sp., 1 ex., totally 1 specimen.

Subfamily: Elaterinae LEACH 1815

Genus: *Adrastus* ESCHSCHOLTZ 1829

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

Material examined: Karabük: Eskipazar, 13.VII.1979, *T. aestivum*, 4 exs., totally 4 specimens.

***Adrastus circassicus* REITTER 1896**

Material examined: Gümüşhane: Central province, 11.VII.1978, weeds, 1 ex.; Ordu: Kumru, 13.VII.1978, weeds, 2 exs., totally 3 specimens.

***Adrastus dolini* WELLSCHMIED 1978**

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

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

Material examined: Izmir: Ödemiş-Bozdağ-Büyük Çavdar, 17.VII.2003, *Urtica* sp., 4 exs., totally 4 specimens.

***Adrastus protractus* ROUBAL 1924**

Material examined: Gümüşhane: Torul, 10.VII.1978, *Salix* sp., 1 ex., totally 1 specimen.

***Adrastus rachifer* (GEOFFROY 1785)**

Material examined: Bilecik: Central province, 07.VI.1973, *P. persica*, 2 exs., totally 2 specimens.

Genus: *Agriotes* ESCHSCHOLTZ 1829

***Agriotes ayani* PLATIA 2011**

Material examined: Izmir: Ödemiş, Bozdağ, 29.V.2003, *P. cerasus*, 2 exs., Mordoğan, 08.VI.2004, *P. persica*, 1 ex., totally 3 specimens.

***Agriotes cilicensis* PLATIA & GUDENZI 1998**

Material examined: Adana: Central province, 04.VI.1985, weeds, 1 ex., totally 1 specimen.

***Agriotes colonnellii* GUGLIELMI & PLATIA 1985**

Material examined: Adana: Karaisalı, 02.VI.1984, weeds, 1 ex., totally 1 specimen.

***Agriotes furlani* PLATIA 2003**

Material examined: Izmir: Foça, 22.VII.1980, light trap, 2 exs., totally 2 specimens.

***Agriotes heydeni* SCHWARZ 1891**

M a t e r i a l e x a m i n e d : Kahramanmaraş: Nurhak Dağı, 1500 m, 22.VII.1984, light trap, 1 ex., totally 1 specimen.

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

M a t e r i a l e x a m i n e d : Bolu: Mengen, 26.V.1980, *Cistus* sp., 1 ex., *J. regia*, 1 ex., *Prunus* sp., 3 exs., *Rosa* sp., 3 exs., *Urtica* sp., 1 ex., weeds, 3 exs., aerial collector, 1 ex., Yedigöller, 27.V.1980, *Fagus* sp., 7 exs., *Matricaria* sp., 1 ex., weeds, 1 ex.; Zonguldak: Devrek, 29.V.1980, *Fagus* sp., 13 exs., totally 32 specimens.

***Agriotes integricolis* REITTER 1911**

M a t e r i a l e x a m i n e d : Artvin: Hopa, 07.VII.1978, *Rubus* sp., 1 ex., totally 1 specimen.

***Agriotes kurdistanus* PLATIA & AKRAWI 2013**

M a t e r i a l e x a m i n e d : Adana: Karaisalı, 02.VI.1984, *P. elaeagnifolia*, 1 ex., totally 1 specimen.

***Agriotes modestus* KIESENWETTER 1858**

M a t e r i a l e x a m i n e d : Antalya: Sinan, 19.V.1986, *Rosa* sp., 2 exs.; Izmir: Seferihisar, 20.IV.1972, *Matricaria* sp., 1 ex.; Konya: Akşehir, 22.IV.1978, *Salix* sp., 2 exs., 06.VII.1980, *Salix* sp., 1 ex., totally 6 specimens.

***Agriotes paludum* KIESENWETTER 1859**

M a t e r i a l e x a m i n e d : Amasya: Central province, 27.IV.1973, *M. domestica*, 2 exs.; Ankara: Kalecik, 04.V.1979, *Salix* sp., 2 exs., weeds, 1 ex.; Artvin: Ardanuç, 18.VI.1977, 3 exs.; Bursa: Central province, 21.V.1973, *P. avium*, 2 exs., 06.VI.1973, *P. cerasus*, 2 exs.; Diyarbakır: Central province, 11.VI.1976, weeds, 1 ex.; Gaziantep: Oğuzeli, 24.IV.1986, weeds, 1 ex.; Karabük: Central province, 29.V.1980, *P. domestica*, 2 exs.; Kırklareli: Pınarhisar, 03.VI.1975, *Populus* sp., 9 exs.; Konya: Doğanhisar, 05.VII.1980, weeds, 1 ex.; Mardin: Central province, 11.VI.1976, weeds, 1 ex.; Mersin: Çamlıyayla, 10.VII.1986, weeds, 1 ex., Tarsus, 29.IV.1985, *Cicer arietinum* LINNAEUS 1753, 2 exs., weeds, 1 ex.; Sakarya: Sapanca, 25.IV.1975, *M. sativa*, 1 ex.; Tekirdağ: Central province, 23.V.1973, *P. avium*, 1 ex., Barbaros, 01.VI.1975, *Salix* sp., 3 exs.; Zonguldak: Çaycuma, 16.VII.1979, *Rubus* sp., 3 exs., Ereğli, 28.IV.1979, *E. angustifolia*, 3 exs., *M. domestica*, 1 ex., *Prunus armeniaca* Linnaeus, 1753, 2 exs., *Salix* sp., 2 exs., totally 47 specimens.

***Agriotes petterssoni* PLATIA & GUDENZI 2000**

M a t e r i a l e x a m i n e d : Osmaniye: Zorkun, 08.V.1985, *Pinus* sp., 2 exs., totally 2 specimens.

***Agriotes rufipalpis* BRULLÉ 1832**

M a t e r i a l e x a m i n e d : Antalya: Kaş, 21.IV.1984, under stone, 6 exs., totally 6 specimens.

***Agriotes solai* PLATIA 2004**

M a t e r i a l e x a m i n e d : Bartın: Central province, 31.V.1980, *Crataegus* sp., 1 ex., sandbank, 1 ex., totally 2 specimens.

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

M a t e r i a l e x a m i n e d : Ankara: Ilyakut, 09.VI.1990, *M. sativa*, 1 ex., Ulus, 29.V.1988, weeds, 1 ex.; Bolu: Central province, 27.V.1980, *T. aestivum*, 1 ex.; Çanakkale: Karabiga, 15.V.2010, pitfall trap, 1 ex.; Izmir: Ödemiş, 05.VI.1977, light trap, 1 ex.; Karabük: Eskipazar, 29.V.1980, *M. sativa*, 3 exs.; Konya: Akşehir, 22.IV.1979, under stone, 1 ex.; Tekirdağ: Çerkezköy, Veliköy, 29.IV.1992, *M. sativa*, 1 ex.; Trabzon: Maçka, 08.VII.1978, weeds, 1 ex., totally 11 specimens.

***Agriotes starcki* SCHWARZ 1891**

M a t e r i a l e x a m i n e d : Artvin: Hopa, 07.VII.1978, *Rosa* sp., 1 ex., *Rubus* sp., 3 exs., totally 4 specimens.

***Agriotes tristiculus* REITTER 1906**

M a t e r i a l e x a m i n e d : Adana: Saimbeyli, 1560 m, 15.VI.1985, *Cupressus* sp., 1 ex.; Antalya: Kaş, 21.IV.1984, under stone, 1 ex., 22.IX.1986, *Pinus* sp., 1 ex. Bursa: Central province, 08.VI.1977, *N. tabacum*, 1 ex., 16.VI.1977, *N. tabacum*, 1 ex.; Çanakkale: Karabiga, 15.V.2010, pitfall trap, 2 ex., totally 7 specimens.

***Agriotes ustulatus* (SCHALLER 1783)**

M a t e r i a l e x a m i n e d : Zonguldak: Central province, 16.VII.1979, weeds, 1 ex., totally 1 specimen.

Genus: *Ampedus* DEJEAN 1833

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

M a t e r i a l e x a m i n e d : Isparta: Yukarı Gökdere, Kasnak, 02.VI.2010, *Quercus* sp., 1 ex., totally 1 specimen.

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

M a t e r i a l e x a m i n e d : Kütahya: Central province, 16.VI.1972, *Quercus* sp., 1 ex., totally 1 specimen.

***Ampedus glycerus* (HERBST 1784)**

M a t e r i a l e x a m i n e d : Bolu: Mengen, 26.V.1980, *Quercus* sp., 1 ex., totally 1 specimen.

***Ampedus praeustus* (FABRICIUS 1792)**

M a t e r i a l e x a m i n e d : Bolu: Mengen, 26.V.1980, *Prunus* sp., 1 ex., totally 1 specimen.

***Ampedus sinuatus* GERMAR 1844**

M a t e r i a l e x a m i n e d : Bolu: Mengen, 26.V.1980, *Quercus* sp., 1 ex.; Mersin: Tarsus, 28.VI.1986, *T. aestivum*, 2 exs., totally 3 specimens.

Genus: *Haterumelater* ÔHIRA 1968

***Haterumelater fulvago* (MARSEUL 1868)**

M a t e r i a l e x a m i n e d : Hatay: Yayladağı, 09.VII.1984, light trap, 1 ex.; Manisa: Central province, 17.VIII.1999, bait trap, 1 ex.; Mersin: Anamur, 24.V.1984, *Pinus* sp., 1 ex., totally 3 specimens.

Genus: *Idotarmonides* AGAEV 1985

***Idotarmonides anatolicus* (CANDÈZE 1881)**

M a t e r i a l e x a m i n e d : Antalya: Gündoğmuş, 27.VIII.1980, *Arbutus* sp., 1 ex., totally 1 specimen.

Genus: *Mulsanteus* GOZIS 1875

***Mulsanteus manuelae* (PLATIA & GUDENZI 1998)**

M a t e r i a l e x a m i n e d : Izmir: Kemalpaşa-Ören, 31.VII.1998, bait trap, 1 ex.; Manisa: Central province, 20.VII.1999, bait trap, 1 ex., 03.VIII.1999, bait trap, 2 exs., totally 4 specimens.

***Mulsanteus schaumii* (CANDÈZE 1882)**

M a t e r i a l e x a m i n e d : Balıkesir: Edremit-Zeytinli, 31.VIII.2005, 3 exs.; Izmir: Karaburun, 20.VII.1977, light trap, 2 ex., Kemalpaşa-Ören, 20.VII.1999, pitfall trap, 1 ex., totally 6 specimens.

Genus: *Peripontius* GURJEVA 1979

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

M a t e r i a l e x a m i n e d : Antalya: Gündoğmuş, 26.V.1986, *C. oblonga*, 1 ex.; Denizli: Honaz, 10.V.1972, *P. persica*, 3 exs.; Kahramanmaraş: Gavurdağı, 08.VI.1985, *J. regia*, 1 ex., totally 5 specimens.

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

M a t e r i a l e x a m i n e d : Gaziantep: Central province, VI.1972, *P. vera*, 1 ex., totally 1 specimen.

Genus: *Pittonotus* KIESENWETTER 1859

***Pittonotus theseus* (GERMAR 1817)**

M a t e r i a l e x a m i n e d : Balıkesir: Susurluk, 21.VII.2013, on the ground, 1 ex., totally 1 specimen.

Genus: *Synaptus* ESCHSCHOLTZ 1829

Synaptus filiformis (FABRICIUS 1781)

Material examined: Adana: Tufanbeyli, 05.VI.1984, *Salix* sp., 1 ex.; Artvin: Central province, 1971, *Camellia sinensis* (LINNAEUS 1753), 1 ex.; Izmir: Ödemiş-Bozdağ-Büyük Çavdar, 19.VI.2003, *J. regia*, 1 ex., 24.VII.2003, *J. regia*, 1 ex.; Kahramanmaraş: Andırın, 1220 m, 09.VI.1985, *Platanus* sp., 2 exs., Göksun, 14.VI.1985, weeds, 1 ex., 02.V.1986, weeds, 1 ex.; Konya: Akşehir, 06.VII.1980, *Rubus* sp., 1 ex., *Salix* sp., 2 exs., *Vicia* sp., 1 ex.; Malatya: Central province, 08.VI.1976, *P. persica*, 1 ex.; Ordu: Mesudiye, 14.VII.1978, weeds, 2 ex., totally 15 specimens.

Subfamily: Melanotinae CANDÈZE 1859

Genus: *Melanotus* ESCHSCHOLTZ 1829

Melanotus atricapillus REITTER 1891

Material examined: Izmir: Kemalpaşa, 24.V.2005, sticky yellow trap, 1 ex., totally 1 specimen.

Melanotus crassicollis (ERICHSON 1841)

Material examined: Manisa: Turgutlu-Çıkrıkçı, 28.X.2005, pitfall trap, 1 ex., Turgutlu-Ovacık, 20.VII.2006, under stone, 1 ex., totally 2 specimens.

Melanotus dichrous (ERICHSON 1841)

Material examined: Elazığ: Hankendi, 31.VIII.1972, 4 exs.; Izmir: Kınık, 11.VII.1965, *P. communis*, 1 ex., totally 5 specimens.

Melanotus fusciceps (GYLLENHAL 1817)

Material examined: Adana: Central province, 13.VIII.1971, light trap, 1 ex.; Ankara: Beypazarı, 09.VII.1979, light trap, 1 ex.; Antalya: Central province, 16.VI.1992, weeds, 1 ex., 26.VI.1992, weeds, 2 exs., Güllük Dağı, 27.VII.1985, light trap, 1 ex.; Aydın: Central province, 03.V.1992, on the ground, 1 ex., Kuşadası, 27.VII.1964, 1 ex., Söke, 02.VI.1973, *Capparis* sp., 1 ex.; Balıkesir: Kaz Dağları, 31.VIII.2008, pitfall trap, 1 ex., Kaz Dağları-Altıparmak çeşmesi, 19.VII.2009, pitfall trap, 1 ex., Kaz Dağları-Edremit Meslek Yüksek Okulu Kampüsü, VII.2009, 1 ex.; Burdur: Tefenni, 08.VIII.1973, *Verbascum* sp., 1 ex.; Bursa: Central province, 17.VII.1972, weeds, 1 ex.; Çankırı: Kenbağ, 09.VIII.1999, light trap, 2 exs., 26.VII.1999, bait trap, 3 exs.; 29.VII.1999, bait trap, 4 exs.; Elazığ: Central province, 31.VIII.1972, 1 ex., Hankendi, 31.VIII.1972, 3 exs., Palu, 07.VIII.1972, 1 ex., Hatay: Dörtöl, 06.VII.1984, *Rubus* sp., 1 ex.; İstanbul: Erenköy, 07.VII.1975, 2 exs.; Izmir: Central province, 06.VII.1983, on the ground, 1 ex., Balçova, 01.II.1978, at greenhouse, 1 ex., Bergama-Kozak, 10.X.2012, pitfall trap, 2 ex., Bornova, 23.V.1961, 1 ex., 25.V.1961, 1 ex., 10.VI.1977, at home 1 ex., 18.VI.1980, under ground, 29.VI.1980, weeds, 2 exs., 27.V.1986, weeds, 1 ex., Çeşme, 28.IV.1979, *P. elaeagnifolia*, 4 exs., Doğanlar, 04.II.1975, light trap, 1 ex., Efes, 31.V.1996, weeds, 1 ex., Emiralem, 02.V.1993, on the ground, 1 ex., Gazıemir, 01.VI.1977, *P. domestica*, 1 ex., Gümüşsu, 19.VI.1974, *Eucalyptus* sp., 1 ex., Karaburun, 06.VII.1977, light trap, 8 exs., 20.VII.1977, light trap, 37 exs., 05.VII.1978, light trap, 5 exs., Mordoğan, 22.VII.1971, light trap, 1 ex., VII.1973, light trap, 1 ex., 15.VII.2005, light trap, 3 exs., Narlıdere, 13.VII.1978, light trap, 2 exs., 17.VII.1990, 1 ex., Ödemiş, 05.VI.1977, light trap, 40 exs., Ödemiş-Bozdağ, 01.VII.2001, pitfall trap, 1 ex., 22.VII.2001, pitfall trap, 1 ex., Selçuk, 29.VI.1971, *Citrus lanatus* (THUNB.) MATSUM & NAKAI 1916, 1 ex., 27.VII.1976, weeds, 1 ex., 06.VIII.1982, on the ground, 1 ex., Torbalı, 15.I.1978, at flower bottom, 1 ex.; Kahramanmaraş:

Türkoğlu, 18.VII.1984, light trap, 1 ex.; Kastamonu: Taşköprü, 22.III.1979, *Onopordum* sp., 1 ex., 21.VII.1979, light trap, 1 ex.; Kütahya: Tavşanlı, 18.VI.1975, weeds, 1 ex.; Malatya: Central province, 19.VI.1983, weeds, 1 ex., 09.VII.1983, light trap, 2 exs., VII.1962, 1 ex., Manisa: Akhisar, 11.VII.1983, light trap, 1 ex., Turgutlu-Dağmarmara, 13.VIII.2003, pitfall trap, 1 ex., 27.VIII.2003, pitfall trap, 1 ex., 12.IX.2003, pitfall trap, 1 ex.; Mardin: Derik, 23.VII.2002, bait trap, 2 exs.; Mersin: Erdemli, 06.VII.1986, light trap, 1 ex.; Niğde: Central province, 30.VI.1980, light trap, 1 ex.; Zonguldak: Central province, 16.VII.1979, weeds, 1 ex., totally 171 specimens.

Subfamily: Negastrinae NAKANE & KISHII 1956

Genus: *Zorochros* C. G THOMSON 1859

Zorochros pilosellus (REITTER 1895)

Material examined: Canakkale: Gökçeada, 26.V.1975, weeds, 2 exs, 26-29.V.1975, weeds, 3 exs, 27.V.1975, *P. elaeagnifolia*, 2 exs.; Manisa: Turgutlu-Çıkrıkçı, 02.VI.2005, 1 ex., totally 8 specimens.

Discussion

In consequence of this study, it has been observed that a total of 1291 specimens of 93 species belonging to 22 genera of Elateridae (Coleoptera) have been reported from the collection of Lodos Entomological Museum, Turkey (LEMT). Among these *Cardiophorus procerulus* KIESENWETTER 1859 is first records for Turkish Elateridae fauna.

As a result of updating of Turkish Elateridae fauna at certain intervals has increased the distribution Elateridae species in Turkey until the end of this work. According to GÜLPERCİN & TEZCAN (2010b), 39 species have been added to the Elateridae fauna of Turkey which is represented by 462 species and total number of species has increased to 501. The number of Elateridae species in Turkey is expected to increase with future studies.

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Buchbesprechungen

BAUER S.: Briefe und Tagebuchaufzeichnungen Willy Küenthals von seiner Reise in den Malaiischen Archipel 1893-1894. – Springer Spektrum, Berlin, 2018. 258 S.

Jeder Biologie-Studierende kennt den “Leitfaden für das zoologische Praktikum”, die klassische Präparationsanleitung zum Zoologiestudium, vor 110 Jahren von Willy Küenthal begründet. Bis heute – immer wieder aktualisiert und naturschutzfachlichen Neuerungen angepasst – sind 26 Auflagen erschienen. Die wenigsten wissen wahrscheinlich, dass Willy Küenthal zwei große Forschungsreisen, einmal in den Malaiischen Archipel (1893-1894) und zum anderen zu den Westindischen Inseln, nach Korsika und Kalifornien (1906-1908) unternommen hatte.

Die promovierte Historikerin Sybille Bauer hat die Briefe Küenthals an seine Frau, seine Eltern und Ernst Haeckel transkribiert, mit einer umfangreichen Einleitung und einer Biografie Küenthals versehen, und somit einer breiten Öffentlichkeit zugänglich gemacht. Die Biografie Küenthals wird in zwei Teilen (1861-1894/1894-1922) dargestellt, unterbrochen durch den Hauptteil, die Briefe und Tagebuchaufzeichnungen aus dem Malaiischen Archipel.

Willy Küenthal wurde 1861 in Weißenfels an der Saale geboren, studierte in München und Jena Zoologie, und promovierte 1884 im Alter von 23 Jahren bei Ernst Haeckel. 1886 reist er in die Arktis und habilitiert 1887 in Jena, 1889 nimmt er den Ruf zur “Ritter-Professur” für Phylogenie in Jena an. 1890 heiratet er Margarethe Scheibe, Tochter eines wohlhabenden Kaufmanns.

Neben den Briefen an seine Frau, wird hier auch das wissenschaftlich geführte Tagebuch über seinen Borneo-Aufenthalt (innerhalb der Reise in den Malaiischen Archipel) veröffentlicht. Diese Reisedokumente spiegeln in eindrucksvoller Weise wieder, welchen Abenteuern und Strapazen Wissenschaftler zum Ende des 19. Jahrhunderts ausgesetzt waren.

Etwas unklar erscheint nur die “Zitierung” der Veröffentlichung Küenthals Forschungsreise, mit der Bemerkung unter Abb. 11 “Entwurf eines Titelblattes für Küenthals Reisebericht”: “Der Entwurf wurde nicht verwendet”? Küenthals “Ergebnisse seiner Forschungsreise...” liegt genau mit diesem Titelblatt dem Rezensenten vor. Auch wird die “Zusammenfassung der zoologischen Ergebnisse einer Reise in den Molukken und Borneo” von 1903 nicht erwähnt.

Sybille Bauer hat hier eine tolle Arbeit geleistet und man muss ihr außerordentlich dankbar sein, ein informatives und hochinteressantes Zeitdokument über einen großen, deutschen Zoologen, von dem die “Allgemeinheit” (möglicherweise) viel zu wenig weiß, vorgelegt zu haben.

R. Gerstmeier

KEGEL B.: **Ausgestorben um zu bleiben.** Dinosaurier und ihre Nachfahren. – Du Mont Buchverlag, Köln, 2018. 270 S.

Dinosaurier beherrschten die Erde über 170 Millionen Jahre und sind vor rund 65 Millionen Jahren ausgestorben. Schätzungen gehen heute von weit über 1000 Gattungen und ca. 2000 Arten aus; d.h. mit 650 beschriebenen Arten kennen wir heute maximal ein Drittel aller Dinosaurier.

Jeder Mensch kennt Dinosaurier, die meisten unserer Kinder wissen mehr über Dinosaurier als die Tiere in unseren Vorgärten. Über die einschlägigen Kinofilme soll hier nicht geredet werden, Kinder- und Jugendbücher zum Thema Dinosaurier gibt es in unübersehbarer Zahl, aber, es gab bis jetzt kein einziges aktuelles Buch für eine erwachsene Leserschaft. Dabei gibt es erstaunlich viele "neue" Tatsachen aus wissenschaftlicher Sicht. 85 Prozent aller heute beschriebenen Dinosaurierarten erhielten ihren Namen nach 1990, sind also ziemlich junge Entdeckungen. Gleichzeitig wandelte sich unser Bild von der kriechenden Rieseneidechse zum aufrechten Drachen, vom schwerfälligen Koloss zum dynamischen Jäger und nicht zuletzt von der beschuppten Echse zum gefiederten Riesenhuhn, welches heute in unseren Vögeln, den direkten Nachfahren der Dinosaurier, weiterlebt.

Mit fundierter Sachkenntnis und gewohnt erzählerischen Qualitäten unterbreitet der Sachpublizist Bernhard Kegel eine Entdeckungsreise in die Welt der Paläontologie und die damit korrelierte Wissenschafts-, Kultur- und Filmgeschichte.

Ein lehrreiches und spannendes, locker erzähltes Buch, mit vielen biologischen Details, die nicht nur eingefleischten Dinosaurier-Fans Freude bereiten können.

R. Gerstmeier

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