



Entomofauna

ZEITSCHRIFT FÜR ENTOMOLOGIE

Band 31, Heft 3: 17-24

ISSN 0250-4413

Ansfelden, 4. Januar 2010

Contribution to the knowledge of Carabidae fauna of Turkey

Part 8: Amarini

(Coleoptera: Carabidae, Pterostichinae)

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Abstract

This study is based upon material of the tribe Amarini collected at different localities in Turkey between 1960 and 2006. 26 species and subspecies belonging to two genera in the tribe Amarini are recorded. In addition, new localities have been found for some species which have already been reported for Turkey.

Key words: Coleoptera, Carabidae, Pterostichinae, Amarini, Fauna, Turkey.

Zusammenfassung

Nachweise von 26 Carabidae-Arten aus dem Tribus Amarini werden aus der Türkei präsentiert. Zusätzlich werden weitere Fundorte für bereits nachgewiesene Arten gemeldet. Das Material wurde an verschiedenen Lokalitäten in der Türkei zwischen 1960 und 2006 gesammelt.

Introduction

The first part of the Carabidae fauna of Turkey covered the tribe Harpalini (KESDEK & YILDIRIM 2003), the second part the tribe Platynini (KESDEK & YILDIRIM 2004), the third part the tribe Bembidiini (KESDEK & YILDIRIM 2007), the fourth part the tribes Dryptini, Lebiini and Zuphiini (KESDEK & YILDIRIM 2007), the fifth part the tribe Brachinini

(KESDEK & YILDIRIM 2007), the sixth part the tribes Notiophilini and Platynini (KESDEK & YILDIRIM 2007), the seventh part the tribe Pterostichini (KESDEK & YILDIRIM 2008) and now the eighth part includes the tribe Amarini. The information related to the material and literature was given in the first part. Locality provinces of the collected species are given in alphabetic order in the following list. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET).

26 species and subspecies of two genera belonging to the tribe Amarini of subfamily Pterostichinae of the family Carabidae are recorded from Turkey.

Results

Tribus Amarini BONELLI, 1810

Genus *Amara* BONELLI, 1810

***Amara* (s.str.) *aenea* (DE GEER, 1774):** Ardahan: 20.VI.1972, ♀; 13 km South, 2010 m, 18.VIII.2004, ♂; Göle, 20 km West, 1900 m, 11.VI.2005, 2 ♂♂, ♀; Türkeşin, 1970 m, 25.VIII.2005, ♂, 2 ♀♀. Artvin: Genya Mountain, 1575 m, 2.VII.2004, ♂; Kafkasör, 1655 m, 10.VI.2005, ♂; Şavşat, Düzenli, 1700 m, 11.VI.2005, 4 ♂♂, 4 ♀♀; Yusufeli, Zeytinlik, 350 m, 11.VI.2005, ♂, ♀. Erzincan: Tercan, Yaylacık, 25.V.2005, ♂; Üzümlü, Akyazı, 1340 m, 26.V.2005, ♂; 4.X.2005, ♂. Erzurum: Börekli, 2120 m, 19.IX.2005, ♀; Dumlu, 1800 m, 17.IV.2005, ♂; Dutçu, 1875 m, 13.VI.1998, ♂; 1910 m, 21.VI.2003, ♂, ♀; Konaklı, 2150 m, 2.VII.2004, 5 ♂♂, 2 ♀♀; Nenehatun, 1900 m, 21.IV.2002, ♀; 11.VI.1968, ♂, ♀; Palandöken, 2190 m, 2120 m, 1.V.2005, ♂; 2200 m, 12.VI.2005, ♂, 2 ♀♀; 15.V.2005, ♂; 19.V.2005, 2 ♂♂; 20.VII.2003, ♀; Palandöken Paddle, 1950 m, 12.VI.2005, ♂; 27.VII.2003, 2 ♂♂, 2 ♀♀; Tekederesi, 1950 m, 13.VI.2005, 4 ♂♂, 2 ♀♀; 26.VI.2005, 2 ♂♂; 2100 m, 2.VII.2004, ♀; 19.IX.2005, 3 ♂♂; Tuzcu, 1900 m, 17.VII.2004, 3 ♂♂, 3 ♀♀; 8.X.2004, 4 ♂♂, 4 ♀♀; Umudum Plateau, 2100 m, 26.VII.2003, 4 ♂♂, 3 ♀♀; University field, 1850 m, 23.IV.2000, 3 ♂♂, 2 ♀♀; 29.IV.2000, 2 ♂♂, 4 ♀♀; 13.V.2004, ♂, ♀; 17.V.2003, 5 ♂♂, 2 ♀♀; 21.V.2005, ♂; 28.V.2005, ♂; Aşkale, Kop Pass, 2165 m, 11.VI.1971, ♀; 13.VI.1968, 2 ♀♀; 22.VII.1996, ♂; 15.IX.2005, 2 ♂♂; Ortabahçe, 1965 m, 4.VII.2005, ♀; Pırnakapan, 1800 m, 11.IV.2002, ♂; 27.IV.2002, ♂, ♀; 30.IV.2005, 3 ♂♂; 25.V.2005, 2 ♂♂; 27.V.2002, 5 ♂♂, 3 ♀♀; 13.VII.2005, 4 ♂♂; 14.X.2004, ♂; Çat, Yukarıçat, 1900 m, 21.V.2004, 4 ♂♂, 3 ♀♀; Horasan, 5 km West, 1900 m, 18.V.2005, ♂, 2 ♀♀; Akçataş, 1870 m, 2.VI.2006, ♀; Yukarıbademözü, 1890 m, 2.VI.2006, ♂; Yukarıhoron, 1870 m, 2.VI.2006, ♂ İlica, Atlıkonak, 1900 m, 11.VI.2000, ♂; 7.VII.1994, ♂; 3 km. Southwest, 1910 m, 11.V.2003, ♂; 15.IX.2005, 2 ♀♀; Köprüköy, 2 km East, 1750 m, 27.V.2004, 2 ♂♂, ♀; Kayabaşı, 1467 m, 25.VII.2005, ♂; Narman, 12 km South, 1900 m, 3.VII.2005, 2 ♂♂, ♀; Eldenik, 2100 m, 17.VI.2004, ♂; Oltu, Vocational Training School field, 1350 m, 15.VII.2006, ♀; Olur, Yeşilbağlar, 1100 m, 24.X.2002, ♂; Pasinler, Hamamderesi, 1800 m, 12.VI.1996, ♀; 20.IV.2003, ♂, ♀; 25.VII.2005, 2 ♂♂, ♀; Pazaryolu, 25 km Southeast, 1930 m, 21.X.2004, 2 ♂♂; Şenkaya, Çakırbaba Pass, 2450 m, 12.VII.2004, ♂; 12.VIII.2005, 5 ♂♂, ♀; Taht, 1950 m, 24.V.2005, ♂; Tortum, Esendurak, 1150 m, 10.VIII.2004, ♂; Uzundere, 1300 m, 19.V.1996, ♂; Yayla, 1800 m, 28.IX.2004, ♂, ♀; Yayla Pass, 1350 m, 13.VI.2005, ♂, ♀. Iğdır: Tuzluca, Gaziler, 1100 m, 17.V.2005, ♂. Kars: 3 km North, 1850 m, 2

♂♂; Digor, Değirmendere, 1800 m, 17.VII.2005, ♂, ♀; Sarıkamış, Akkurt, 1350 m, 3.VI.2004, ♀; Karakurt, 5 km North, 1780 m, 18.IV.2002, ♀; 16.V.2005, ♂, ♀; 1550 m, 1670 m, 18.V.2005, ♂; 27.V.2005, ♂; 19.VI.2003, ♀; 1450 m, 3.VI.2004, ♂; Şeytangeçmez, 1780 m, 23.VI.2005, 4 ♂♂, ♀; Karaorgan, 1760 m, 2.VI.2006, ♀; Susuz, 20 km Northeast, 1975 m, 25.VII.2005, ♂, ♀; Taşlıdere, 1890 m, 25.VII.2005, 2 ♀♀. Konya: Güneysınır, Gurağaç, 1020 m, 19.VII.2002, 4 ♂♂, 5 ♀♀; Örenboyalı, 1022 m, 22.VII.2000, 3 ♀♀.

***Amara (s.str.) bifrons* (GYLLENHAL, 1810):** Ardahan: 2 km East, 1890 m, 25.VII.2005, ♀; Göle, Türkeşin, 1970 m, 25.VII.2005, ♀. Erzurum: Konaklı, 2150 m, 25.VII.2005, ♀; Nenehatun, 1900 m, 21.IV.2002, ♂; Tuzcu, 17.VII.2004, ♂; University field, 1850 m, 30.VI.1996, ♀; 26.VII.1997, ♂; 14.IV.1998, ♂. Kars: Susuz, 20 km, Southeast, 1975 m, 25.VII.2005, ♂.

***Amara (s.str.) equestris* DUFTSCHMID, 1812:** Erzurum: Dutçu, 1950 m, 4.V.2003, ♂; Tuzcu, 1900 m, 8.VII.2004, ♂, 3 ♀♀; 17.VII.2004, 2 ♀♀; Umudum Plateau, 2100 m, 26.VII.2003, 2 ♀♀; Aşkale, Kop Pass, 2165 m, 15.IX.2005, ♀; Pırnakapan, 1900 m, 27.V.2002, 2 ♂♂; Ilıca, 3 km Southwest, 1870 m, 11.V.2003, 2 ♂♂; Eğerti, 1750 m, 21.X.2004, 2 ♀♀; Oltu, 1383 m, 12.VII.2004, ♂; Köprüköy, Kayabaşı, 1467 m, 14.VI.2004, 2 ♂♂, 2 ♀♀; Pasinler, Aşıtlar, 1770 m, 16.X.2004, ♂; Pazaryolu, 30 km Southeast, 1930 m, 21.X.2004, ♀; Şenkaya, Çakırbaba Pass, 2450 m, 9.VIII.2003, ♂; 18.VIII.2004, ♀; Uzundere, Yayla Pass, 2350 m, 18.VI.2005, 2 ♀♀. Kars: 3 km South, 1850 m, 22.VII.2005, ♀; Sarıkamış, Karakurt, 1600 m, 27.V.2003, ♀.

***Amara (s.str.) familiaris* DUFTSCHMID, 1812:** Ardahan: Çamlıçatak, 3 km East, 1915 m, 15.X.2005, ♀. Artvin: Hopa, 250 m, 6.IX.1994, 2 ♂♂, 3 ♀♀. Erzurum: Dutçu, 1900 m, 21.VI.2003, ♂; Palandöken Puddle, 2120 m, 19.VII.2005, ♂, 2 ♀♀; Tekederesi, 2150 m, 12.VI.2005, ♂; 19.IX.2005, ♂; Tuzcu, 2100 m, 3.V.2005, 1 ♀; Umudum Plateau, 2100 m, 26.VII.2003, ♀; University field, 1850 m, 29.V.2000, ♀; Aşkale, Ortabahçe, 1965 m, 4.VII.2005, ♀; Pırnakapan, 1900 m, 13.VII.2005, ♀; Karayazı, Çatalören, 1820 m, 22.VII.2005, ♀; Tortum, Güzelyayla Pass, 2128 m, 5.VII.2005, ♂; Karagöbek Mountain, 1920 m, 3.V.2005, ♀. Kars: Sarıkamış, 5 km South, 1775 m, 7.X.2005, ♂.

***Amara (s.str.) lucida* DUFTSCHMID, 1812:** Erzurum: Umudum Plateau, 2100 m, 26.VII.2003, ♀; Pasinler, Hamamderesi, 20.VII.1997, ♂; Tortum, Karagöbek, 1950 m, 14.VI.1998, ♂.

***Amara (s.str.) ovata* FABRICIUS, 1792:** Artvin: 15.VII.1997, ♂, ♀; Genya Mountain, 1782 m, 10.VI.2005, ♀; Şavşat, 1300 m, 19.VIII.2004, ♀. Erzurum: 13.VI.1968, ♀; University field, 1850 m, 14.IV.1998, ♀; Ilıca, Atlıkonak, 1950 m, 11.VI.2000, ♂. Kars: Sarıkamış, Karakurt, 1650 m, 26.IX.2000, ♀.

***Amara (s.str.) proxima* PUTZEYS, 1866:** Erzurum: Palandöken Puddle, 2150 m, 12.VI.2005, ♀; Tuzcu, 1900 m, 8.X.2004, ♂; University field, 1850 m, 13.V.2005, ♂. Kars: Sarıkamış, Karakurt, 10 km West, 1775 m, 20.IV.2005, ♀.

***Amara (s.str.) reflexicollis* MOTSCHULSKY, 1844:** Ardahan: Çamlıçatak, 3 km East, 1916 m, 15.X.2005, ♀. Erzurum: Kombina, 1800 m, 5.IX.1988, ♂; Umudum Plateau, 2100 m, 26.VII.2003, ♂, ♀; Aşkale, Pırnakapan, 1900 m, 30.IV.2005, ♀; Oltu, Sarısaz, 1750 m,

28.V.1997, ♀; Pasinler, 2.VIII.2001, ♀.

***Amara (s.str.) similata* GYLLENHAL, 1810:** Artvin: Şavşat, Yavuzköy, 1680 m, 11.VI.2005, ♀. Erzurum: 1850 m, 8.VII.1974, 2 ♀♀; Dadaşkent, 1750 m, 11.V.2002, ♂; Dadaşköy, 1750 m, 17.VII.2004, 2 ♀♀; 7.VII.2005, ♂, ♀; University field, 1850 m, 15.VI.1996, ♂; 11.V.2002, ♂; Aşkale, Pınakapan, 1920 m, 14.X.2004, ♂; Horasan, 5 km West, 1900 m, 20.IV.2005, ♂; Köprüköy, 1620 m, 18.V.2005, ♀; Oltu, 1750 m, 25.VI.1971, ♀; Vocational Training School field, 1350 m, 8.V.2006, ♀; Subatık, 1490 m, 28.III.2002, 2 ♂♂, ♀; Şenkaya, 1950 m, 8.VI.1989, ♂. Kars: Sarıkamış, Karakurt, 5 km South, 1780 m, 16.V.2005, 2 ♂♂; Çatak, 1940 m, 16.X.2005, ♀; Yenigazi, 1920 m, 16.X.2005, ♂, ♀.

***Amara (s.str.) sollicita* PANTEL, 1888:** Erzincan: Tercan, 10 km East, 1325 m, 12.VI.2004, ♂; Üzümlü, Akyazı, 1250 m, 4.X.2005, ♂. Erzurum: Dadaşköy, 1800 m, 7.VII.2005, ♀; Tepeköy, 1910 m, 19.IX.2005, 2 ♂♂, 3 ♀♀; Çat, Parmaksız, 1890 m, 19.IX.2005, ♀; Oltu, Çamlıbel, 1750 m, 17.V.2004, ♂; Sarısaz, 1720 m, 18.IV.2005, ♀; Şenkaya, Çakırbaba Pass, 2450 m, 12.VII.2005, 3 ♂♂, 2 ♀♀.

***Amara (s.str.) tricuspidata* DEJEAN, 1831:** Artvin: Genya Mountain, 1782 m, 10.VI.2005, ♂. Erzurum: Dadaşkent, 1800 m, 11.V.2002, 2 ♂♂, 4 ♀♀; Dadaşköy, 1800 m, 8.VI.2005, ♀; Esendere, 14.V.2001, ♀; Karagöbek, 1950 m, 24.V.2005, ♂; Konaklı, 2150 m, 2.VII.2004, ♂, 2 ♀♀; University field, 1850 m, 11.IV.1971, ♂, ♀; 29.V.2000, ♂; Karayazı, Karaağıl, 1875 m, 26.X.2005, ♂; Oltu, 1750 m, 25.VI.1974, ♀; Olur, Yeşilbağlar, 1100 m, 24.IX.2001, 2 ♂♂, 4 ♀♀; Pasinler, 8 km Northeast, 1820 m, 14.V.2001, ♀. Kars: Sarıkamış, Karakurt, 1650 m, 18.IV.2002, ♂; 5 km South, 1780 m, 16.V.2005, ♀.

***Amara (Bradytus) apricaria* (PAYKULL, 1790):** Ardahan: 20.V.1972, 2 ♂♂, 4 ♀♀; Posof, Ilgar Plateau, 2340 m, 18.VIII.2004, ♂. Artvin: Genya Mountain, 1575 m, 2.VII.2004, ♂; Şavşat, Yavuzköy, 1680 m, 11.VI.2005, ♀. Erzincan: Üzümlü, Akyazı, 1300 m, 26.V.2005, ♂, ♀. Erzurum: 16.X.1979, ♂, ♀; Dadaşköy, 1800 m, 8.VI.2005, ♂; 7.VII.2005, ♀; Konaklı, 2150 m, 2.VII.2004, 2 ♂♂ ♀; Palandöken Puddle, 2150 m, 27.VII.2003, ♂ ♀; Tuzcu, 1900 m, 17.VII.2004, 4 ♂♂; 8.X.2004, ♀; University field, 1850 m, 26.VI.1997, ♀; 14.IV.1998, ♂, ♀; Aşkale, Ortabahçe, 1790 m, 1.IX.2004, ♂, 2 ♀♀; 27.IV.2006, ♂, ♀; Çat, Çirışlı Pass, 2100 m, 13.X.2005, ♂, ♀; Hınıs, Hacıömer, 1780 m, 22.VII.2005, ♂; Horasan, Akçataş, 1870 m, 2.VI.2006, ♂, 2 ♀♀; Yukarıbademözü, 1870 m, 2.VI.2006, ♂, ♀; Ilıca, 3 km West, 11.V.2003, ♂, ♀; Rizekent, 1950 m, 16.VII.1998, ♀; İspir, 1870 m, 16.X.1979, 2 ♀♀; 7.VII.1980, ♂, ♀; Karayazı, Çatalören, 1840 m, 26.X.2005, ♂; Yeniköy, 26.X.2005, 4 ♂♂, 3 ♀♀; Köprüköy, 1600 m, 18.V.2005, ♂; Ilıcasu, 1910 m, 5.VIII.2004, ♀; Narman, Eldenik, 2100 m, 17.VI.2004, 3 ♂♂, 2 ♀♀; Oltu, 5 km West, 1383 m, 12.VII.2004, 2 ♀♀; Pasinler, 1800 m, 2.VII.1983, ♂; Hamamderesi, 16.X.2005, ♀; Şenkaya, Çakırbaba Pass, 2450 m, 2.VI.2006, ♂, ♀; 12.VII.2005, ♀; 9.VIII.2003, 6 ♂♂, 4 ♀♀; 18.VIII.2004, 2 ♂♂; 23.VIII.2004, 7 ♂♂, 4 ♀♀; 12.X.2005, 3 ♂♂, ♀; Tortum, 1750 m, 25.V.1972, ♂, 2 ♀♀; Esendurak, 1150 m, 10.VIII.2004, ♂; Güzelyayla Pass, 2128 m, 5.VII.2005, ♂; 28.X.2004, ♀; Uzundere, Yayla Pass, 2350 m, 8.X.2004, ♂, ♀. Iğdır: Tuzluca, Gaziler, 1020 m, 16.V.2005, ♂, 2 ♀♀; Üçkaya, 1500 m, 29.VI.2003, ♂. Kars: 3 km North, 1850 m, 22.VII.2002, 5 ♂♂, 2 ♀♀; Digor, Değirmendere, 1800 m, 17.VII.2005, ♂, 2 ♀♀; Yeniköy, 1695 m, 4.V.2004, ♀; Kağızman, 1.V.1960, ♂; Sarıkamış, Karakurt,

1650 m, 18.IV.2002, ♀; 2.V.2000, ♀; Karaorgan, 1760 m, 2.VI.2006, ♂, 2 ♀♀; Soğuk-
çeşme, 2100 m, 9.X.1998, 3 ♂♂, 2 ♀♀.

***Amara (Bradytus) crenata* DEJEAN, 1828:** Erzincan: Üzümlü, Akyazı, 1250 m, 4.X.
2005, 2 ♀♀. Erzurum: Palandöken Mountain, 2250 m, 20.V.2005, ♂; Tuzcu, 1900 m,
17.VII.2004, ♀; University field, 1850 m, 14.IV.1998, ♂; 29.IV.2000, 2 ♂♂, ♀; 21.V.
2005, 2 ♀♀; 13.VII.1982, ♀; Aşkale, Ortabahçe, 1790 m, 1.X.2004, ♀; Oltu, 5 km West,
1383 m, 12.VII.2004, ♀; Olur, Yeşilbağlar, 1100 m, 24.X.2002, ♀; Pasinler, Hamam-
deresi, 1800 m, 20.VII.1997, ♂; Şenkaya, Çakırbaba Pass, 2450 m, 12.VII.2005, ♀;
23.VIII.2004, ♂, 2 ♀♀; 12.X.2005, ♀; Tortum, Karagöbek Mountains, 1950 m, 24.V.2005,
♀; Uzundere, 1250 m, 5.VII.2005, ♂. Kars: Digor, Değirmendere, 1800 m, 17.VII.2005,
3 ♂♂, ♀; Sarıkamış, Karakurt, 1550 m, 18.IV.2002, ♀; 1775 m, 7.X.2005, ♂.

***Amara (Curtonotus) aulica* (PANZER, 1797):** Ardahan: Çamlıçatak, 2120 m, 4.VIII.
2005, ♂, ♀; Posof, Aşıkzülali, 1963 m, 26.VII.2005, ♂. Erzincan: Mercan, Altunkent, 1250
m, 4.X.2005, ♀; Topdurağı, 1340 m, 4.VIII.2003, ♀. Erzurum: Dadaşköl, 1800 m, 8.VI.
2005, ♂; Konaklı, 2150 m, 2.VII.2004, ♂; Tuzcu, 1900 m, 17.VII.2004, ♂; 8.IX.2004, ♂,
♀; Tortum, 2 km South, 1710 m, 5.VII.2005, ♀; Esendurak, 1150 m, 10.VIII.2004, ♀;
Güzelyayla Pass, 2128 m, 4.X.2005, ♂, 2 ♀♀. Iğdır: Tuzluca, Üçkaya, 1500 m, 29.VII.
2003, 2 ♂♂. Kars: Sarıkamış, Şeytangeçmez, 1755 m, 14.VI.2004, 3 ♀♀; Susuz, Taşlıdere,
1890 m, 25.VII.2005, ♂.

***Amara (Paracelia) ingenua* (DUFTSCHMID, 1812):** Erzurum: 1800 m, 11.V.2002, 2
♀♀; Dadaşköl, 1800 m, 11.V.2002, ♂, 2 ♀♀; Dadaşköl, 1800 m, 8.VI.2005, ♀; 7.VII.
2004, 2 ♀♀; 7.VII.2005, 2 ♀♀; 9.VII.2003, ♂, 3 ♀♀; 16.VII.2004, 2 ♂♂, 3 ♀♀; Kombina,
1800 m, 5.IX.1988, 3 ♂♂, ♀; University field, 1850 m, 17.IV.2000, ♂; 29.IV.2000, ♂, 2
♀♀. Kars: Sarıkamış, Karakurt, 1550 m, 19.VI.2003, ♂.

***Amara (Paracelia) saxicola* ZIMMERMANN, 1831:** Artvin: Şavşat, Veliköl, 8.VII.
1998, ♂. Erzurum: 1850 m, 12.VI.1968, 17 ♂♂, 19 ♀♀; Dutçu, 1900 m, 21.VI.2003, ♂;
Umudum Plateau, 2100 m, 26.VII.2003, ♀; University field, 1850 m, 11.V.2000, ♂, ♀;
29.V.2000, 2 ♂♂, 4 ♀♀; Oltu, Çamlıbel, 1750 m, 17.V.2004, ♀; Şenkaya, Çakırbaba Pass,
2350 m, 9.VIII.2003, 3 ♂♂; 18.VIII.2004, ♂, 3 ♀♀; Uzundere, Yayla Pass, 2450 m,
8.IX.2005, ♂. Kars: Digor, Yeniköl, 1695 m, 4.V.2004, ♀; Sarıkamış, Çardakçatı, 1350 m,
17.V.2005, 2 ♂♂, ♀.

Genus *Zabrus* CLAIRVILLE, 1806

***Zabrus asiaticus* CASTELNAU, 1834:** Manisa: Turgutlu, 250 m, 12.IX.2001, 1 ♂, 1 ♀.

***Zabrus aurichalceus* (ADAMS, 1817):** Ardahan: Çamlıbel Geçidi, 2445 m, 11.VI.2005,
♂, ♀; Göle, 20 km West, 1910 m, 11.VI.2005, ♀. Erzurum: Horasan, Akçataş, 1870 m,
2.VI.2006, ♀; Yukarıhoron, 1890 m, 2.VI.2006, ♀; Şenkaya, 2150 m, 15.V.1993, ♂, 2 ♀♀;
4.IX.2004, ♂; 2.VI.2006, ♀; Çakırbaba Pass, 13.VI.2006, 2450 m, ♂, 2 ♀♀. Kars:
Sarıkamış, Karaorgan, 2.VI.2006, ♂.

***Zabrus melancholicus* SCHAUM, 1864:** Artvin: Şavşat, Veliköl, 8.VII.1998, ♂. Erzu-
rum: 25.V.1960, ♂; 16.X.1979, ♀; Dadaşköl, 11.V.2002, ♂, ♀; Dumlu, 1800 m, 17.IV.

2005, ♀; Esendere, 1950 m, 25.V.1990, ♂; 16.X.1999, ♀; 14.X.2001, ♀; Konaklı, 1950 m, 11.VI.2003, 3 ♂♂, 2 ♀♀; 2.VII.2004, ♂, 2 ♀♀; Palandöken Puddle, 2150 m, 7.VII.2005, ♀; Tekederesi, 1900 m, 13.VI.2005, ♂, ♀; Tuzcu, 1890 m, 17.VII.2004, ♀; 8.IX.2004, ♀; University field, 1850 m, 11.VIII.2001, ♂; Aşkale, Kop Pass, 7.IX.2001, ♀; Çat, 1850 m, 28.III.2002, 3 ♂♂, 5 ♀♀; 12.IV.2002, 2 ♂♂, 6 ♀♀; 12.V.2004, ♂; Çirişli Pass, 2100 m, 13.X.2005, 5 ♂♂, 3 ♀♀; Parmaksız, 1890 m, 13.X.2005, ♀; Hınıs, Hacıömer, 1780 m, 22.VII.2005, ♂; Horasan, Yukarıhoron, 1890 m, 2.VI.2006, ♂; Karayazı, Çatalören, 1820 m, 22.VII.2005, ♀. Iğdır: Suveren, 1150 m, 17.V.2005, 2 ♂♂. Kars: Sarıkamış, 10 km East, 1360m, 7.X.2005, ♂; Akkurt, 1350m, 4.VI.2004, ♂; Karakurt, 1450m, 3.VI.2004, ♂.

***Zabrus rotundicollis* MÉNETRIÉS, 1836:** Erzincan: 70 km East, 1480 m, 23.V.2006, 2 ♀♀. Erzurum: Palandöken Puddle, 2150 m, 12.V.2005, 2 ♂♂; Aşkale, Pırnakapan, 1920 m, 14.X.2004, ♂; Çat, Çirişli Pass, 2100 m, 13.X.2005, 2 ♀♀; Parmaksız, 1850 m, 12.IV.2002, ♂, ♀; Yukarıçat, 21.V.2004, ♀; Horasan, Yukarıbademözü, 1870 m, 2.VI.2006, ♀; Ilıca, Yoncalık, 1750 m, 21.X.2004, ♂; Karayazı, Çatalören, 1840 m, 26.X.2005, ♀; Pasinler, Hamamderesi, 1800 m, 26.X.2005, 3 ♂♂, ♀. Iğdır: Suveren, 1250 m, 17.V.2005, ♀; 4.VI.2004, 6 ♂♂, 5 ♀♀. Kars: Kağızman, 1.V.1969, ♀; Sarıkamış, Karakurt, 1775 m, 7.X.2005, 4 ♂♂, 2 ♀♀; Yeniköy, 2250 m, 12.X.2005, 2 ♂♂, ♀; 1820 m, 26.X.2005, ♂. Kayseri: Sarız, 17.V.1999, 2 ♀♀.

***Zabrus segnis* SCHAUM, 1864:** Erzincan: Tercan, Dam province, 1150 m, 4.X.2005, ♂. Erzincan: Tekederesi, 1950 m, 2.VII.2004, ♀; 1900 m, 1.X.2004, ♀; Tepeköy, 1900 m, 19.IX.2005, ♀; University field, 19.IV.2006, ♂, ♀; Aşkale, Pırnakapan, 1920 m, 15.IX.2005, ♂; 14.X.2004, ♀; Çat, Parmaksız, 1890 m, 13.X.2002, ♂; Karayazı, Karaağıl, 1875 m, 26.X.2005, 2 ♂♂; Yeniköy, 1820 m, 26.X.2005, 2 ♀♀; Pazaryolu, 20 km South, 1930 m, 21.X.2004, ♀.

***Zabrus seriatus* GANGLBAUER, 1905:** Erzurum: Aşkale, 1800 m, 27.IV.2002, ♂, 2 ♀♀; Kop Pass, 15.IX.2005, 2 ♀♀; Ortabahçe, Kırklar, 1965 m, 4.VII.2005, ♀; Pırnakapan, 11.IV.2004, ♀.

***Zabrus spectabilis* HAMPE, 1852:** Erzincan: Tercan, Yaylacık, 1650 m, 25.V.2005, ♀. Erzurum: Tuzcu, 2150 m, 23.IV.2005, ♀; University field, 1850 m, 14.IV.2005, ♂; 30.IV.2005, 2 ♀♀; Aşkale, Kop Mountain, 2165 m, 15.IX.2005, ♂; Şenkaya, Çakırbaba Pass, 2450 m, 9.VIII.2003, ♂. Kars: Sarıkamış, Karaorgan, 1760 m, 2.VI.2006, ♀. Malatya: 21.VIII.1997, 2 ♀♀. Rize: Çamlıhemşin, 440 m, 14.VI.2002, ♂; İkizdere, 870 m, 12.VII.2002, 3 ♂♂, 4 ♀♀.

***Zabrus spinipes rugulosus* KRAATZ, 1884:** Kars: Kağızman, 1.V.1969, ♂.

***Zabrus tenebrioides* (GOEZE, 1777):** Artvin: 6.X.1996, ♂, ♀. Bingöl: Solhan, Yenibaşak, 2120 m, 16.VI.2001, ♂, ♀. Erzurum: University field, 13.V.2004, ♂; Aşkale, Pırnakapan, 1890 m, 15.IX.2005, 2 ♂♂; İspir, 1740 m, 7.VII.1980, 3 ♂♂, ♀; 12.VII.1968, ♂; Tortum, 17 km Southeast, 1950 m, 24.V.2005, ♂. Kars: Kağızman, 1.V.1969, ♀; Susuz, Taşlıdere, 2050 m, 25.VII.2005, ♂.

***Zabrus trinii* FISCHER VON WALDHEIM, 1817:** Ardahan: Posof, Aşıkzülali, 1963 m, 25.VII.2005, ♂. Bayburt: Aşağıkop, 1970 m, 13.VII.2001, ♂. Erzincan: Tercan, Yaylacık,

1650 m, 25.V.2005, ♀; Üzümlü, Akyazı, 1340 m, 4.X.2004, 2 ♂♂, ♀; Günebakan, 1350 m, 25.V.2005, ♂, ♀. Erzurum: Dadaşkent, 11.V.2002, ♂; Dumlü, 1800 m, 17.IV.2005, 2 ♀♀; Dutçu, 1970 m, 21.VI.2003, ♂; Konaklı, 2150 m, 2.VII.2004, 4 ♂♂, 3 ♀♀; Palandöken Mountain, 2190 m, 2100 m, 15.V.2005, ♂, ♀; 19.V.2005, 5 ♂♂, 6 ♀♀; 20.VII.2003, 2 ♀♀; Tekederesi, 13.VI.2005, ♂; Tuzcu, 1890 m, 23.IV.2005, ♀; 8.IX.2004, ♀; University field, 1850 m, 14.IV.1998, ♀; 14.IV.2005, 2 ♂♂, 2 ♀♀; 17.IV.2000, ♂, ♀; 24.IV.2005, 3 ♀♀; 29.IV.2002, ♂, ♀; 2.V.2005, ♀; 11.V.2003, 2 ♀♀; 17.V.2003, 3 ♂♂, 4 ♀♀; 26.V.2004, ♂, 2 ♀♀; 29.V.2000, 6 ♂♂, 4 ♀♀; 2.VI.2004, 2 ♂♂, 3 ♀♀; 6.VI.1982, ♂, ♀; Aşkale, Kop Pass, 9.X.2002, ♂; Pınakapan, 1900 m, 30.IV.2005, ♂; 1890 m, 15.IX.2005, ♀; Çat, 1850 m, 12.IV.2002, ♂, 2 ♀♀; Yukarıçat, 21.V.2004, ♂; Hınıs, Söylemez, 1750 m, 28.VI.2005, ♂; Ilıca, 3 km Northwest, 1870 m, 11.V.2003, ♂, 4 ♀♀; İspir, 7.VII.1980, 2 ♀♀; Karayazı, Çatalören, 1840 m, 26.X.2005, ♀; Karaağıl, 1875 m, 26.X.2005, 2 ♂♂, 4 ♀♀; Köprüköy, 2 km East, 1650 m, 20.IV.2005, ♀; 1600 m, 18.V.2005, ♀; Güzelhisar, 1825 m, 26.X.2005, ♀; Oltu, 1383 m, 13.VII.2004, ♂, ♀; Pasinler, Hamamderesi, 1850 m, 20.IV.2003, ♀; 26.X.2005, ♂, ♀; Pazaryolu, 25 km North, 1930 m, 14.X.2004, ♂, ♀; Şenkaya, Çakır-baba Pass, 2350 m, 18.VIII.2004, ♂, ♀; Tortum, Karagöbek Mountains, 1920 m, 3.V.2005, 3 ♂♂, 6 ♀♀; 1950 m, 24.V.2005, ♀; Yumaklı, 1850 m, 18.V.1999, ♂, 4 ♀♀; Uzundere, Yayla Pass, 2350 m, 18.VI.2005, ♂, ♀. Kars: Digor, Yeniköy, 1695 m, 4.V.2004, ♀; Kağızman, 1.V.1969, 2 ♂♂, ♀; Sarıkamış, Karakurt, 5 km South, 1780 m, 16.V.2005, 2 ♂♂; 1650 m, 26.IX.2000, ♀; Yeniköy, 2250 m, 12.X.2005, ♀.

Acknowledgement

The authors wish to thank Mr. Claude JANNE (France) and Mr. David W. WRASE (Germany) for determining the reference material.

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Druck, Eigentümer, Herausgeber, Verleger und für den Inhalt verantwortlich:
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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Entomofauna](#)

Jahr/Year: 2010

Band/Volume: [0031](#)

Autor(en)/Author(s): Kesdek Memis, Yildirim Erol

Artikel/Article: [Contribution to the knowledge of Carabidae fauna of Turkey Part 8: Amarini \(Coleoptera: Carabidae, Pterostichinae\) 17-24](#)