

Linzer biol. Beitr.	35/2	1147-1157	19.12.2003
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## Contribution to the Knowledge of Carabidae Fauna of Turkey

### Part 1: Harpalini (Coleoptera, Carabidae, Harpalinae)

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**A b s t r a c t :** This study is based upon material collected from different localities of Turkey between 1968-2002. In this study, 28 species and subspecies belonged to seven genera in the tribe Harpalini. *Harpalus axis subcylindricus* DEJEAN is a new recorded for the Turkish fauna. Distribution of species in the research area, other parts of the Turkey and world is included.

**K e y   w o r d s :** Coleoptera, Carabidae, Harpalinae, Harpalini, Turkey.

### Introduction

Anatolia, the Asiatic part of Turkey, is a mountainous mass averaging about 1000 meters in height. It has several climatically distinct regions. The topographic and climatic structure give to the country the opportunity of hosts a rich and diverse fauna and flora.

Carabids, or ground beetles, from a very large family of about 1.500 genera and 28.000 species (BOOTH et al. 1990). They are very variable in shape and colour, but can usually be recognized by the positions of the antennal cleaner and antennal insertions, and by the large metatrochanter. Adult carabids generally live on the ground, although some climb vegetation in search of their prey, and others live in trees. They are usually nocturnal, hiding in leaf litter, or under logs, stones, ect. During the day, but many brightly coloured species are diurnal. They are usually predators on a wide range of invertebrates, but may be omnivorous or seed feeders. They larvae are active and terrestrial, not usually living in borrows, and occur in the same habitats as adults. They are mostly predacious, but some are phytophagous, omnivorous, or ectoparasitic, although they are usually more host specific than their adults. Both adult and larval carabids can be important general predators of invertebrate pests in agricultural systems.

GANGLBAUER (1905), CSIKI (1932), JUNK (1950), ÖNCÜER (1991), KATAEV (1993), KATAEV & WRASE (1995), HURKA (1996), TAGLIANTI & CASALE (1999) and TAGLIANTI & ZAPPAROLI (1999) recorded and described several new species and subspecies from Turkey.

All taxa and provinces of the collected specimens are given in alphabetical order in the following list.

## Results

In this study, 28 species and subspecies of seven genera belonged to Harpalini tribe of Carabidae were reported in Turkey.

### Genus *Cryptophonus* BRANDMAYR & ZETTO BRANDMAYR 1981

#### *Cryptophonus litigiosus* DEJEAN 1829

Distribution in Turkey: Mediterranean region (TAGLIANTI & CASALE 1999).

Distribution in the world: Mediterranean countries (TAGLIANTI & CASALE 1999).

Material examined: Erzurum: University field, 1850 m, 14.IV.1998, 1♀; 17.IV.2000, 6♀♀, 11♂♂; 29.IV.2000, 2♀♀, 1♂; 23.IV.2000, 5♀♀, 4♂♂; Nenehatun, 1800 m, 21.IV.2002, 1♂; Ilıca, Athikonak, 1900 m, 11.VI.2000, 1♀, 2♂♂; Rizekent, 1900 m, 16.VI.1998, 1♂; Horasan, 1800 m, 4.VI.2000, 6♂♂; Şenkaya, Sindiran, 1750 m, 26.IX.2000, 1♂. Kars: Sarıkamış, Karakurt, 1900 m, 02.V.2000, 4♀♀, 6♂♂; 26.IX.2000, 5♀♀, 7♂♂; 18.IV.2002, 3♀♀, 3♂♂.

### Genus *Harpalus* LATREILLE 1802

#### *Harpalus affinis* (SHRANK 1781)

Synonym: *Harpalus proteus* PAYKULL 1790; *H. azureus* PANZER 1801; *H. confusus* DEJEAN 1829; *H. confusus* ab. *viridulus* FOURCROY 1785; *H. vulgaris* DE GEER 1774; *H. aeneus* FABRICIUS 1792 (JUNK 1950, HURKA 1996); *Harpalus weiratheri* G. MÜLLER 1931 (TAGLIANTI & CASALE 1999).

Distribution in Turkey: Anatolia (no locality) (TAGLIANTI & ZAPPAROLI 1999).

Distribution in the world: Europe, Siberian (Mexico) (JUNK 1950); Asia Minor, Caucasus, Near East, Iran, Central Asia, Kazakhstan, Mongolia, Siberia up to Chita and Yakutia in the east (GUEORGUIEV & GUEORGUIEV 1995); North America, Czech and Slovak Republics (HURKA 1996); Asiatic-European (TAGLIANTI & CASALE 1999).

Material examined: Ardahan: 20.V.1972, 3♀♀, 2♂♂. Artvin: 02.VII.1996, 1♀. Kars: Selim, 24.VIII.1992, 4♀♀, 1♂. Trabzon: Kadırğa, 13.VIII.1993, 1♂.

#### *Harpalus attenuatus* (STEPHENS 1828)

Synonym: *Harpalus consentaneus*; *H. maxillosus* DEJEAN 1829; *H. picilabris* STEPHENS 1832; *H. hespericus* ROSH. 1856; *H. intermedius* DESBR. 1865; *H. arenicola* WESMAEL 1872; *H. latitibia* REY 1886 (JUNK 1950).

Distribution in the Turkey: Anatolia (no locality) (TAGLIANTI & CASALE 1999).

Distribution in the world: Central and South Europe, Asia Minor, Caucasus, North Africa, Mediterranean countries, Madeira (JUNK 1950, GUEORGUIEV & GUEORGUIEV 1995, TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Bingöl: Solhan, 2121 m, Buğlan Pass, 24.VI.2000, 1♀, 1♂.  
Erzurum: Karagöbek, 28.VI.2000, 1♂. Sinop: Kadi, 12.VII.1998, 1♂.

### ***Harpalus axioides* KATAEV 1991**

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Anatolia (no locality) (TAGLIANTI & CASALE 1999)

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Anatolia (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Erzurum: Horasan, 04.VI.2000, 1♀, 1♂; University field, 17.IV.2000, 1♂; 11.V.2000, 1♂; Şenkaya, Çatalelma, 2200 m, 1♀.

### ***Harpalus axis subcylindricus* DEJEAN 1842**

**S y n o n y m :** *Harpalus axis avarus* SCH. 1930; *H. axis amoriiformis* MOTSCH. 1844; *H. pumilis* DEJ. 1829 nec STURM 1818 (JUNK 1950).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** New for the Turkish fauna.

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Middle Europe, Balkan Peninsula, Armenia and Palaearctic Region (JUNK 1950); North Spain, Czech and Slovak Republics (HURKA 1996); Middle Asia (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Erzurum: University field, 1850 m, 14.IV.1998, 1♂; 23.IV.2000, 1♀.

### ***Harpalus calceatus* DUFTSCHMID 1812**

**S y n o n y m :** *Harpalus nonsignatus* KRYNICKI 1832; *H. calcitratus* MOTSCHULSKY 1844; *H. itoshimonus* HABU 1954 (KRYZHANOVSKIJ et al. 1995).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Anatolia (no locality) (TAGLIANTI & CASALE 1999).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Ukrainian, Transcarpathia, Middle of Russian Plain, Moldova, Montane Crimea, Ciscaucasia (Western and Eastern), Caucasus Minor, Uplands of Armenia (KRYZHANOVSKIJ et al. 1995).

**M a t e r i a l   e x a m i n e d :** Erzurum: University field, 29.IV.2000, 1♂. Isparta: Çandır, 10.VIII.1996, 1♀.

### ***Harpalus distinguendus* DUFTSCHMID 1812**

**S y n o n y m :** *Harpalus psittaceus* FOURCRAY 1785; *H. chlorizans* TORRE 1877; *H. brunneus* TORRE 1877; *H. vireni* SCHILSKY & DEUTSCHE 1888; *H. psittacinus* REITT 1900; *H. psittacinus* ab. *coeruleus* SCHILSKY 1888; *H. coerulencens* REITT 1908; *H. melas* KUHNT 1912 (JUNK 1950).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Turkey (no locality) (CSIKI 1932; TAGLIANTI & CASALE 1999).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Europe, Middle Mediterranean Countries, Madeira, Azarbaidzhan, Caucasus and Middle Asia (JUNK 1950); Korea, North-West and North-East China, Iran, Afghanistan, Kazakhstan, South Russia, Russia, North-West Africa and Siberian (KATAEV 1989, 1993); Far East (West Mongolia, North-West China), Czech and Slovak Republics (HURKA 1996); Palaearctic Region (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Ankara: Şereflikoçhisar, 10.VII.1993, 1♂; Antalya: Serik, 04.VII.1996, 1♀. Erzurum: University field, 1850 m, 14.IV.1998, 1♀, 2♂♂; 08.VI.1968, 1♂, 1♀; 14.IV.1998, 1♀, 2♂♂; 11.V.2000, 1♀, 1♂; 12.IV.2000, 2♀♀, 1♂; Nenehatun, 1800 m, 21.IV.2002, 1♂; Çat, 1800 m, 12.IV.2002, 1♀, 1♂; İspir, 07.VI.1980, 1♂; Oltu, Subatik, 1350 m, 28.III.2002, 1♀, 3♂♂; Pasinler, 1800 m, 02.VII.1985, 1♂; Tortum, 1150 m, 20.VI.1968, 2♀♀, 1♂; 09.V.1974, 1♂; 16.X.1979, 4♂♂; 17.X.1979, 1♂. Trabzon: Esiroğlu, 02.VII.1992, 1♀, 1♂.

### ***Harpalus fuscicornis* MENETRIES 1832**

**S y n o n y m :** *Harpalus subvirens* CHAUD. 1846; *H. cyanellus* KRAOTA 1874; *H. cynellus* ab. *setaneus* REITT. 1900 (TAGLIANTI & CASALE 1999).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Anatolia (no locality) (HURKA 1996).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Middle and South Europe, Middle Mediterranean Countries (JUNK 1950); North-West Africa, South of Middle Europe, Austria and East of Middle Asia (HURKA 1996); Middle Asia (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Artvin: Yusufeli, İşhan, 05.V.1978, 1♀, 2♂♂. Denizli: Çal, Görmec, 30.VI.1997, 1♂. Erzurum: University field, 1850 m, 20.VII.1970, 1♂; 20.IV.2000, 4♀♀, 2♂♂.

### ***Harpalus fuscipalpis* STURM 1818**

**S y n o n y m :** *Harpalus constrictus* DUFT. 1812; *H. unicolor* MOTSCH. 1844; *H. castilianus* VUILLEFORY 1866; *H. brunneus* TORRE 1877; *H. brunneus vittatus* GEBLER 1833; *H. brunneus semicastaneus* REITT 1900; *H. brunneus costaneipes* SCH. 1926 (JUNK 1950).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Anatolia (no locality) (TAGLIANTI & CASALE 1999).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Siberian, Caucasus, Middle and South Europe, Mediterranean Countries, Turkistan, Mongolia (JUNK 1950); East Tibet, Middle Europe, Siberian and Slovak Republic (HURKA 1996); Palaearctic Region (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Artvin: Yusufeli, İşhan, 05.V.1978, 1♀, 1♂. Erzurum: University field, 1850 m, 17.IV.2000, 1♂. Konya: Güneysünir, Örenboyali, 28.V.2002, 2♀♀, 3♂♂.

### ***Harpalus quadratus* CHADOIR 1846**

**S y n o n y m :** *Harpalus quadratus* TSCHITSCHERINE 1897 (TAGLIANTI & CASALE 1999).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Kars, Ardahan (ÖNCÜER 1991).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Armenia, Caucasian (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Ardahan: 20.VI.1972, 2♀♀, 3♂♂.

### ***Harpalus raddei* TSCHITSCHERINE 1897**

**S y n o n y m :** *Harpalus raddei erivanus* REITT. 1900 (TAGLIANTI & CASALE 1999).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Sivas (ÖNCÜER 1991).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Caucasus (JUNK 1950); Turkey (ÖNCÜER 1991); Europe (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Ardahan: 20.VI.1972, 2♀ 2♂. Denizli: Çal, Gömce, 30.VI.1997, 1♀, 1♂. Elazığ: Temur, 04.VII.1992, 1♂. Erzurum: University field, 1850 m, 14.IV.1998, 1♀; 22.IV.2002, 1♀; 23.IV.2000, 1♂; 11.V.2000, 1♀; 24.IV.2002, 2♀ 2♂, 3♂ 3♂; Esendere, 1900 m, 1♀; Hamamderesi, 1750 m, 20.VII.1997, 2♀ 2♂; Horasan, 1800 m, 4.VI.2000, 1♀; İlica, 1750 m, 05.IX.1992, 1♀; Oltu, 1750 m, 25.VI.1971, 1♀; Olur, Yeşilbağlar, 24.X.2002, 1♂; Pasinler, 1800 m, 06.IV.1968, 1♀; 09.IV.1968, 1♀; 13.VI.1968, 1♀, 3♂ 3♂; 20.VI.1968, 3♀ 3♂; 11.VII.1979, 1♀; 16.X.1979, 1♀, 3♂; 02.VII.1984, 1♂; Tortum, 1150 m, 5.V.1974, 1♀, 2♂; Şenkaya, Ormanlı, 1800 m, 20.V.1994, 1♀; Sindiran, 2100 m, 26.IX.2000, 1♀; Uzungere, 1050 m, 04.III.2002, 1♂. Gümüşhane: 01.X.1992, 1♀, 2♂ 2♂. Kars: 09.X.1992, 1♀, 4♂; Sarıkamış, 02.V.2000, 1♂; Karakurt, 1550 m, 18.IV.2002, 2♀ 2♂, 4♂.

### ***Harpalus rubripes* DUFTSCHMID 1812**

**Synonym:** *Harpalus fulvipes* DUFT. 1812; *H. azureus* STURM 1818; *H. glaberellus* STURM 1818; *H. azurescens* GYLL. 1827; *H. chloropterus* STEPH. 1928; *H. nobilitatus* FALDERM. 1835; *H. amoenus* HEER 1838; *H. truncatus* ROSH. 1842; *H. subtruncatus* SCHAUF 1916; *H. subtruncatus* ab. *niger* J. FRIV. 1889; *H. subtruncatus* ab. *nigrocoeruleus* STEPH. 1828; *H. sobrinus* DEJ. 1829; *H. alpestris* REDT. 1849 (JUNK 1950).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Turkey (no locality) (CSIKI 1932, JUNK 1950).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Europe, Anatolia, Syria, Caucasus, Siberia and China (JUNK 1950); Iberian Peninsula, North America, Czech and Slovak Republics (HURKA 1996); Asia and Europe (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Ardahan: 20.VI.1972, 1♂. Erzurum: University field, 1850 m, 29.IV.2000, 1♀; Horasan, 1600 m, 04.VI.2000, 1♂; İlica, Athikonak, 1800m, 11.VI.2000, 3♀ 2♂; Oltu, Sarısaç, 1450 m, 28.V.1997, 3♀ 2♂; Şenkaya, Sindiran, 2100 m, 26.IX.2000, 1♀; Tortum, Söğütlü, 1650 m, 04.VI.1998, 1♀. Kars: Sarıkamış, Karakurt, 1550 m, 26.IX.2000, 1♀.

### ***Harpalus serripes* QUENSEL 1806**

**Synonym:** *Harpalus fuscipalpis* STEPHENS 1828; *H. stygius* STEPHENS 1832; *H. tenebrosus* STEPHENS 1832; *H. convexus* FAIRM-LABOULB. 1854; *H. nigripes* TORRE 1877, *H. picipes* TORRE 1877; *H. picipes* ab. *suchalybaeus* REITT. 1900; *H. picipes affinis* BALLION 1878 (JUNK 1950).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Kayseri (GANGLBAUER 1905).

**D i s t r i b u t i o n   i n   t h e   w o r l d :** Middle and South America, North Africa, Caucasus, Turkistan, Dalmatian (JUNK 1950); Caucasus, Middle Asia, Czech and Slovak Republics (HURKA 1996); Palaearctic Region (TAGLIANTI & CASALE 1999).

**M a t e r i a l   e x a m i n e d :** Amasya: 03.VIII.1993, 1♀. Ankara: Şereflikoçhisar, 10.VIII.1983, 1♀, 4♂ 2♂. Erzincan: 22.VI.1980, 1♂. Erzurum: University field, 1850 m, 22.V.1996, 2♀ 2♂; 09.VI.1996, 1♂; 23.IV.2000, 1♀; Horasan, 1800 m, 04.VI.2000, 1♂; Oltu, Subatık, 1300 m, 28.III.2002, 2♀ 2♂, 1♂; Pasinler, 1800 m, 02.VII.1983, 2♀ 2♂, 8♂ 2♂; Tortum, Söğütlü, 1450 m, 18.VIII.1969, 1♂; 10.IV.1973, 1♂; 1850 m, 01.VI.1983, 1♀, 1♂; 11.VI.1983, 2♂ 2♂; 04.VI.1998, 1♀, 1♂; Uzungere, 1050 m, 12.V.1996, 1♀, 1♂. Kars: Kağızman, 30.IV.1980, 2♀ 2♂; Sankamış, Karakurt, 1550 m, 02.V.2000, 1♀; Sarız, 03.VIII.1990, 1♂. Konya: Güneysınır, Güragaç, 1020 m, 02.III.2002, 1♀. Muğla: 12.VIII.1979, 1♂.

### ***Harpalus smaragdinus* DUFTSCHMID 1812**

**Synonym:** *Harpalus petiui* DUFT. 1812; *H. perplexus* GYLL. 1827; *H. coffer* STEPHENS 1828; *H. discoides* KAF. 1837; *H. comprosus* MOTSH. 1844 (JUNK 1950).

**D i s t r i b u t i o n   i n   t h e   T u r k e y :** Turkey (no locality) (CSIKI 1932).

Distribution in the world: West Asia (JUNK 1950); Czech and Slovak Republics (HURKA 1996); Asia, Europe (TAGLIANTI & CASALE 1999).

Material examined: Ardahan: 20.V.1972, 1♀. Artvin: Şavşat, 07.IX.1995, 1♀; Veli, 08.VII.1998, 1♂. Erzurum: University field, 1850 m, 27.VIII.1996, 1♀; 14.VII.1996, 1♀; İspir, 1900 m, 07.VI.1980, 3♀, 9♂; Oltu, 1750 m, 18.IV.1972, 1♀, 2♂; Subatik, 1300 m, 28.III.2002, 2♂; Tortum, 1150 m, 1♂, 05.V.1996.

### Genus *Harpalophonus* GANGLBAUER 189

#### *Harpalophonus circumpunctatus* CHAUDOIR 1892

Synonym: *Harpalus (Lasioharpalus) anatolicus* TSCHITSCHERINE 1898 (TAGLIANTI & CASALE 1999).

Distribution in the Turkey: North-East Anatolia (KATAEV 1993); Turkey (no locality) (TAGLIANTI & CASALE 1999).

Distribution in the world: Middle and South-East Europe, South-West Palaearctic Region (KATAEV 1984); Central Europe (TAGLIANTI & CASALE 1999).

Material examined: Erzurum: University field, 1850 m, 29.IV.2000, 2♀, 2♂; Çat, 1800 m, 26.IX.2000, 1♀, 1♂; 28.III.2002, 1♀; Şenkaya, Çatalelma, 1750 m, 26.IX.2000, 1♂; Tortum, 1150 m, 10.IV.1972, 1♀, 1♂.

### Genus *Ophonus* DEJEAN 1821

#### *Ophonus ardosiacus* (LUTSHNIK 1922)

Synonym: *Ophonus stictus* HIEKE & WRASE 1988 (GUEORGUIEV & GUEORGUIEV 1995); *O. obscurus* DEJEAN 1829; *O. rotundicollis* (FAIRMAIRE et al. 1854); *O. quadricollis* (SCHAUBERGER 1926); *O. pseudoquadricollis* (SCHAUBERGER 1932); *O. wautieri* DAVID et al. 1964; *O. stictus* FREUDE 1774 (KRYZHANOVSKIJ et al. 1995).

Distribution in the Turkey: North-East Anatolia (TAGLIANTI & CASALE 1999).

Distribution in the world: Azores, Madeira, North Africa, European portion of the Mediterranean Subregion, Asia Minor, West, South and Central Europe, Czech and Slovak Republics (GUEORGUIEV & GUEORGUIEV 1995, HURKA 1996); Europe, Mediterranean (TAGLIANTI & CASALE 1999).

Material examined: Cankırı: Eskipazar, 16.IX.1984, 1♀. Erzurum: Uzundere, Yayla, 2120 m, 17.V.2003, 4♀, 2♂. İğdir: Melekli, 24.VIII.1997, 1♂.

#### *Ophonus azureus* (FABRICIUS 1775)

Synonym: *Ophonus koniensis* SCHAUBERGER 1927; *O. chlorophonus* PANZER 1801; *O. cyanescens* D. TORRE 1889; *O. chlorescens* D. TORRE 1877; *O. chlorescens bohemicus* ROUBAL 1917; *O. chlorescens ruficrus* MENETR. 1832; *O. chlorescens agnatus* CHAUD 1846; *O. chlorescens acracyaneus* CHAUD 1927; *O. chlorescens cyaneus* BALLION 1878; *O. chlorescens similis* DEJ. 1829; *O. chlorescens supremus* SCHAUBERGER 1926 (JUNK 1950).

Distribution in the Turkey: Turkey (no locality) (CSIKI 1932, JUNK 1950).

Distribution in the world: Middle and South Europe, Asia, Turki-

stan, Italy, Spain, Hungary, Armenia, Azerbaidzhan, Turkmenia (JUNK 1950); North-West Africa, West of Middle Asia, Czech and Slovak Republics (HURKA 1996); Central Asia, Europe, Mediterranean Countries (TAGLIANTI & CASALE 1999).

Material examined: Bayburt: Kop Pass, 07.X.2001, 2♂♂, 3♀♀. Erzurum: Karagöbek, 1950 m, 28.VI.2000, 3♀♀, 10♂♂; Horasan, 1800 m, 04.VI.2000, 3♀♀, 1♂; İlica, Atlikonak, 1900 m, 11.VI.2000, 1♀, 1♂. Sinop: Kadi, 12.VII.1997, 1♂. Trabzon: Maçka, 17.VII.1996, 1♀.

### *Ophonus convicollis* MENETRIES 1837

Synonym: *Ophonus annulatus* CHAUD. 1837; *O. pleuralis* REITT. 1887; *O. karbi* SCHAUBERGER 1927 (JUNK 1950).

Distribution in the Turkey: Turkey (no locality) (CSIKI 1932, JUNK 1950).

Distribution in the world: Caucasus, Armenia, Azerbaidzhan, Georgia, and Syria (JUNK 1950); Europe (TAGLIANTI & CASALE 1999).

Material examined: Erzurum: University field, 1850 m, 14.V.1998, 1♂; Tortum, Söğütü, 1650 m, 04.VI.1998, 1♀.

### *Ophonus oblongus* (SCHAUM 1858)

Synonym: *Ophonus langloisi* PEYRAN 1858; *O. carteroides* ZURCHER 1911; *O. cilicicus* CSIKI 1932 (TAGLIANTI & CASALE 1999).

Distribution in the Turkey: İçel (ÖNCÜER 1991); Anatolia (no locality) (TAGLIANTI & CASALE 1999).

Distribution in the world: Anatolia (TAGLIANTI & CASALE 1999).

Material examined: Mus: 11.VII.1996, 1♂. Sinop: Kadi, 12.VII.1997, 1♀.

### *Ophonus rufibarbis* (FABRICIUS 1792)

Synonym: *Ophonus subpunctatus* STEPHANS 1828 (JUNK 1950).

Distribution in the Turkey: Anatolia (no locality) (TAGLIANTI & CASALE 1999).

Distribution in the world: North Africa, East of Middle Asia, Czech and Slovak Republics (HURKA 1996), Europe, Mediterranean Countries (TAGLIANTI & CASALE 1999).

Material examined: Erzurum: Hamamderesi, 20. IV. 2003, 2♀♀; Pasinler, 1800 m, 02. VII. 1983, 1♂. Kars: Sarıkamış, Karakurt, 15. VIII. 2002, 2♀♀.

### *Ophonus sabulicola* PANZER 1796

Synonym: *Ophonus azureus* OL. 1795; *O. oblitus* DUFT. 1812; *O. coelestinus* MOTSCH. 1850; *O. coeruleus* D. TORRE 1877; *O. atrovirens* D. TORRE 1877; *O. atrovirens hispanicus* SCHAUBERGER 1926; *O. atrovirens ponticus* SCH. 1817; *O. atrovirens columbinus* GERMER 1817; *O. atrovicensis calabrus* SCH. 1900; *O. atrovirens inequalis* REITT. 1900 (JUNK 1950).

Distribution in the Turkey: Turkey (no locality) (CSIKI 1932, JUNK 1950).

Distribution in the world: Middle Europe, Caucasus, Siberia, Spain,

South France, Romania, North of Italy, Balkan Peninsula (JUNK 1950); Iberian Peninsula, West and Central Europe, North of Middle East, Middle Asia (HURKA 1996); Europe (TAGLIANTI & CASALE 1999).

M a t e r i a l e x a m i n e d : Erzurum: Ilıca, Atlikonak, 1800 m, 11.VI.2000, 1♂, 1♀. Sinop: Kadi, 12.VII.1997, 2♂♂, 1♀.

### ***Ophonus subquadratus* DEJEAN 1829**

Synonym: *Ophonus cordicollis* DEJ. 1829; *Ophonus cordicollis meridinalis* DEJ. 1829 (JUNK 1950).

D i s t r i b u t i o n i n t h e T u r k e y : İzmir (ÖNCÜER 1991).

D i s t r i b u t i o n i n t h e w o r l d : Turkey (CSIKI 1932); South Europe, Crimea, Italy, Dalmachia (JUNK 1950); Mediterranean Countries (TAGLIANTI & CASALE 1999).

M a t e r i a l e x a m i n e d : Antalya: Alanya, 31.VII.1997, 1♀. Erzurum: Uzundere, 16.X.2002, 1♀; University field, 1850 m, 15.VII.1997, 1♂; Ilıca, Atlikonak, 1900 m, 11.VI.2000, 1♀.

### **Genus *Parophonus* GANGLBAUER 1892**

#### ***Parophonus dia* (REITTER 1900)**

Synonym: *Ophonus dia* GUEORGUIEV 1992 (GUEORGUIEV & GUEORGUIEV 1995).

D i s t r i b u t i o n i n t h e T u r k e y : Anatolia (no locality) (TAGLIANTI & CASALE 1999).

D i s t r i b u t i o n i n t h e w o r l d : Anatolia (TAGLIANTI & CASALE 1999); Bulgaria, Asia Minor, Near East (GUEORGUIEV & GUEORGUIEV 1995).

M a t e r i a l e x a m i n e d : Erzurum: Totum, Aksukapı, 16.IV.2002. Osmaniye: Kadırli, Kabayar, 16.VIII.1997, 1♂.

### **Genus *Pseudoophonus* MOTSCHULSKY 1844**

#### ***Pseudoophonus griseus* (PANZER 1797)**

Synonym: *Pseudoophonus bicolor* MARSH. 1802; *P. reichei*, DESBR. 1866 (JUNK 1950); *Harpalus griseus* APFELBECK 1904; *Ophonus griseus* NODELKOV 1909; *Pseudoophonus griseus* NIKOLOVA 1968 (GUEORGUIEV & GUEORGUIEV 1995).

D i s t r i b u t i o n i n t h e T u r k e y : North-West Anatolia (TAGLIANTI & CASALE 1999).

D i s t r i b u t i o n i n t h e w o r l d : Palaearctic Region, Greece, (JUNK 1950, TAGLIANTI & CASALE 1999); Europe, North-West Africa, Azores, Asia (from Asia Minor to Korea, Sakhalin and Japan, also Near East and Central Asia) (GUEORGUIEV & GUEORGUIEV 1995); South Kuril Island and Japan, Czech and Slovak Republics (HURKA 1996).

M a t e r i a l e x a m i n e d : Adana: Kozan, 03.IX.1995, 1♀, 4♂♂. Antalya: Manavgat, 10.VIII.1996, 1♀. Cankırı: Eskipazarı, 16.IX.1984, 2♀♀, 1♂. Erzurum: 08.VII.1992, 1♀, 1♂. İğdir: 20.IX.1997, 1♂; 19.VI.1998, 1♂. Isparta: Çandır, Yazılıkanyan, 03.VIII.1996, 1♀. İçel: Erdemli, 02.VII.1992, 2♀♀. Malatya: Karakavak, 15.VI.1985, 1♂; 09.VIII.1994, 1♀, 2♂♂. Osmaniye: Kadırli, Kabayar, 17.VII.1997, 1♂. Samsun: Çarşamba, 29.VIII.1995, 1♀. Sinop: Kadi, 12.VII.1992, 1♂.

### *Pseudoophonus rufipes* DE GEER 1774

Synonym: *Harpalus pubescens* MÜLLER 1776; *Pseudoophonus rufitarsis* FABRICIUS 1775; *P. fuscus* Gmel. 1790; *P. pulverulentus* ROSSI 1790; *P. sericeus* FOURSCROY 1785; *P. sagowskii* LUTSHNIK 1909; *P. sagowskii cibripennis* CHAUD. 1842 (JUNK 1950, TAGLIANTI & CASALE 1999).

Distribution in the Turkey: Northeast Anatolia (KATAEV & WRASE 1995).

Distribution in the world: Palaearctic Region (JUNK 1950, TAGLIANTI & CASALE 1999); North America, Czech and Slovak Republics (HURKA 1996).

Material examined: Adana: Kozan, Boztepe, 14.VII.1993, 2♀ 1♂. Antalya: 05.VII.1984, 1♂; Turunçova, 11.VIII.1995, 2♀ 1♂. Ardahan: 22.VI.1977, 3♀ 1♂, 8♂ 1♂. Artvin: Arhavi, 02.IX.1994, 2♀ 1♂, 3♂ 1♂; Şavşat, 05.IX.1997, 3♀ 1♂. Bartın: 20.VII.1998, 1♀. Bingöl: Solhan, 25.VI.2000, 1♀. Bursa: Yenişehir, 19.VII.1984, 1♂, 1♀. Cankırı: Eskipazar, 16.IX.1984, 3♀ 1♂, 5♂ 1♂. Diyarbakır: 05.V.1985, 1♀. Erzincan: 22.VII.1980, 1♂. Erzurum: University field, 1850 m, 05.V.1996, 2♂ 1♂; 03.VII.1996, 1♀; 04.VII.1996, 1♂, 1♀; 05.VII.1996, 1♀; 14.VII.1996, 2♂ 1♂; 15.VII.1996, 1♀; 20.VII.1996, 1♀; 22.VII.1996, 1♂; 26.VII.1996, 1♂, 1♀; 09.IX.1998, 2♀ 1♂; 14.IX.1998, 1♂; 29.V.2000, 1♀, 4♂ 1♂; Kombina, 1800 m, 05.IX.1988, 1♀, 1♂; Oltu, Subatık, 1300 m, 28.III.2002, 1♂; Pasinler, 1800 m, 08.VII.1981, 1♂; 2.VII.1983, 1♀, 2♂ 1♂. Giresun: 20.VIII.1995, 2♀ 1♂. Gümüşhane: Torul, 21.X.1994, 1♂. İğdır: 19.VII.1998, 1♂. Isparta: Çandır, Yazılıkanyan, 13.VIII.1996, 1♀, 1♂. İçel: Erdemli, Doğulu, 12.VII.1995, 1♀. İzmir: Seferihisar, 21.VII.1998, 2♀ 1♂. Kahramanmaraş: Elbistan, 30.VII.1988, 4♀ 1♂, 2♂ 1♂. Karaman: Sudurağı, 18.VII.1994, 2♀ 1♂. Kars: Sarıkamış, 29.V.1972, 1♂. Konya: Çumra, 07.VII.1998, 1♀, 4♂ 1♂; Güneysür, Güragaç, 1050m, 01.VII.2000, 1♂. Kütahya: 22.VII.1993, 3♀ 1♂, 11♂ 1♂; Tavşanlı, 10.IX.1994, 1♂. Malatya: 22.V.1976, 4♂ 1♂; Alişar, 07.VII.1994, 1♀, 2♂ 1♂. Muğla: 02.VIII.1983, 1♀, 1♂; Datça, 06.VII.1997, 3♀ 1♂. Tokat: 15.VII.1983, 1♂; 15.VII.1983, 1♂. Trabzon: Esiroğlu, 03.VII.1992, 1♀, 1♂; Kadırga, 13.VIII.1993, 1♀, 3♂ 1♂. Şalpazarı, 19.IV.1998, 1♀, 2♂ 1♂; Vakfıkebir, 01.IX.1995, 1♂. Osmaniye: Kadırlı, Kabayar, 16.VII.1997, 2♀ 1♂, 8♂ 1♂. Yalova: 26.VII.1993, 1♀, 1♂.

### *Stenolophus* DEJEAN 1821

#### *Stenolophus discophorus* FISCHER VON WALDHEIM 1823

Synonym: *Stenolophus discophorus* ab. *flaviusculus* MOTSCH. 1864; *S. unicolor* PAULINO 1876; *S. unicolor* ab. *paulino* HEYD. 1891; *S. nigricollis* PULINO 1876; *S. nigricollis* ab. *trinotatus* PUEL 1923 (JUNK 1950).

Distribution in the Turkey: Anatolia (no locality) (JUNK 1950, TAGLIANTI & CASALE 1999).

Distribution in the world: Hungary, Middle Europe, Mediterranean Countries, Anatolia, Armenia, Azarbaidzhan, Georgia (JUNK 1950); South and Middle Europe, East of Middle Asia, Czech Republic (HURKA 1996, TAGLIANTI & CASALE 1999).

Material examined: Erzurum: Horasan, 1800 m, 26. IX. 2000, 1♂.

### *Stenolophus persicus* MANNERHEIM 1844

Distribution in the Turkey: Turkey (no locality) (HURKA 1996, TAGLIANTI & CASALE 1999).

Distribution in the world: Turkey (no locality) (HURKA 1996, TAGLIANTI & CASALE 1999).

Material examined: Erzurum: University field, 1850 m, 15.VII.1997, 1♀. Trabzon: Arşin, Gölcük, 23.IV.1997, 2♀ 9♂.

### ***Stenolophus teutonus* (SCHRANK 1781)**

Synonym: *Stenolophus teutonus pseudoabdominalis* MUCHE 1965; *S. teutonus hirticornis* MUCHE 1965 (GUEORGUIEV & GUEORGUIEV 1995).

Distribution in the Turkey: South-East Anatolia (TAGLIANTI & CASALE 1999).

Distribution in the world: Central and South Europe, Asia Minor, Transcaspia, North Africa, Azores, Canary Island, Madeira (GUEORGUIEV & GUEORGUIEV 1995); Czech and Slovak Republics (HURKA 1996).

Material examined: Antalya: Kumluca, 02.VIII.1993, 1♀. Trabzon: Arsin, Gölcük, 23.IV.1997, 1♂.

### **Acknowledgement**

The authors wish to thank Mr. Claude Jeanne (France) for determining the reference material.

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

Artikel/Article: [Contribution to the Knowledge of Carabidae Fauna of Turkey](#)

[Part 1: Harpalini \(Coleoptera, Carabidae, Harpalinae\) 1147-1157](#)