

**CHOROLOGICAL DATA ON SOME GEOTRUPIDAE,  
APHODIIDAE AND SCARABAEIDAE (COLEOPTERA:  
SCARABAEOIDEA) SPECIES COLLECTED DURING  
SOME FIELD-TRIPS IN TURKEY**

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ABSTRACT: Some faunist records of Scarabaeoidea species from Turkey are presented. The species treated are 19, 3 belonging to the family of Geotrupidae, 9 to Aphodiidae and 7 to Scarabaeidae. Of considerable interest is the record of *Onthophagus (Palaeonthophagus) furciceps* Marseuil, 1869, known only for the holotype and for another specimens from Adiyaman.

KEY WORDS: Scarabaeoidea, faunistic notes, Turkey.

After the researches and the publications of Rudolf Petrovitz along all the fifty, sixty and seventy years, it could be reasonable to suppose that the knowledge of the Coleoptera Scarabaeoidea of Turkey is near to be sufficiently thorough. Notwithstanding, the only downright summary on the Turkish fauna can be considered the paper by Carpaneto (1977), that mainly referenced to unpublished data of the same Petrovitz, and, to some extent, the checklist with no localities by Carpaneto et al. (2000).

Anyway, in these last 35 years the opportunity to visit and collect material in areas once hard to reach, has brought to new species and new and sometime noteworthy records.

The aim of this work is to provide new chorological data regarding some interesting species belonging to three Scarabaeoidea families and collected in the Anatolian Peninsula by the first author, in summer of 1992 and spring of 2004 and 2006, and by the second author in late spring and summer of 1997, 1998 and 2011. Hereafter 19 species are listed. For most of them new provincial records for Turkey are given. In some cases records already published by the literature are confirmed.

The scarabs were found mainly in dung, in burrow of small mammals, sometimes in ground beetle traps or, more rarely, under stones, in some sites of the following provinces, arranged here in alphabetic order:

- Adana
- Adiyaman
- Ağrı
- Antalya
- Artvin
- Erzincan
- Erzurum
- Gümüşhane
- Kars
- Kayseri
- Kırklareli

- Kirşehir
- Konya
- Kahramanmaraş
- Malatya
- Mardin
- Muş
- Niğde
- Siirt
- Sivas
- Tunceli
- Van

The systematic of species-group taxa is from Löbl & Smetana, 2006, if not explained in the “Remarks” section. The arrangement of genus group names and family-group names reflects the systematic thought of the first author.

Under the section “Turkish records”, literature data are provided, with the name of the provinces where the species is been recorded.

All the material examined is preserved in the collections of the authors.

## LIST OF SPECIES

### GEOTRUPIDAE

#### 1. *Geotrupes (Glyptogeotrupes) molestus* Faldermann, 1835

**Material examined.** Kars, Cam geç., 2250/2600 m, 9.vi.1998, G. Sama leg. 1 specimen; Erzurum, Ovitagi geç., 2600 m, 11.vi.1998, G. Sama leg. 2 specimens.

**Distribution.** Turkey (Löbl et al., 2006c).

**Turkish records.** Gümüşhane, Rize, Trabzon (Carpaneto, 1977). Ordu (Tauzin, 2003).

#### 2. *Thorectes brullei* ssp. *anatolicus* (Jekel, 1865)

**Material examined.** Konya, 10 km N Yarpuz, 1800 m., 20.v.1997, G. Sama leg. 1 specimen; Antalya, Irmasan geç., 1300 m, 22.vi.1997, G. Sama leg. 1 specimen.

**Distribution.** Greece (Rhódos); Turkey (Löbl et al., 2006c).

**Turkish records.** İzmir, Konya, İsparta (Baraud, 1966). Antalya, Hatay (Tauzin, 2003). Çanakkale (I. Rozner & G. Rozner, 2009).

#### 3. *Trypocopris fulgidus* (Motschulsky, 1845)

**Material examined.** Kırklareli, Demirkoy, 26.vi.1997, G. Sama leg. 2 specimens.

**Distribution.** Bulgaria; Turkey (Löbl et al., 2006c).

**Turkish records.** İstanbul (Küster, 1852). Bolu, Düzce, Kocaeli (Balthasar, 1952). İstanbul (Bytinski-Salz, 1956). Ankara, Sakarya, Ordu (Carpaneto, 1977). Kütahya, Erzurum, Kars, Amasya (Krell, 1996). Samsun, Rize, Tokat, Giresun, Sinop, Antalya, Kastamonu (Tauzin, 2003).

### APHODIIDAE

#### 4. *Esymus suturinigra* (A. Schmidt, 1916)

**Material examined.** Adiyaman, Nemrut dağ. 1000/1800 m, 13.v.1997, G. Sama leg. 3 specimens; ditto, 13.iv.2004, S. Ziani leg. 1 specimen; Mardin, 30 km SE Midyat, 16.iv.2006, S. Ziani leg. 1 specimen.

**Distribution.** Romania, Armenia; Turkey, Cyprus, Israel, Lebanon, Syria, Iraq, Iran (M. Dellacasa & G. Dellacasa, 2006).

**Turkish records.** Ağrı, Gaziantep, Kahramanmaraş (Carpaneto, 1977).

**5. *Liothorax isikdagensis* (Balthasar, 1952)**

**Material examined.** Erzincan, 8 km Assale, 1.v.1998, G. Sama leg. 1 specimen. Muş, Buglan geç., 1400 m, 17.v.2011, G. Sama leg. 1 specimen.

**Distribution.** Greece; Turkey, Cyprus, Israel (M. Dellacasa et al., 2007).

**Turkish records.** Ankara (Balthasar, 1952). Hatay [type locality of *Aphodius (Ataeniomorphus) resslii* Petrovitz, 1962, junior synonym of *L. isikdagensis* according to G. Dellacasa et al., 2001] (Petrovitz, 1962).

**6. *Liothorax niger* (Illiger, 1798) s. l.**

**Material examined.** Artvin, Cam geç., 2000 m, spruce, 10.vi.1998, G. Sama leg. 1 specimen.

**Distribution.** Europe; Asia Minor, Central Asia, China (Tibet) (M. Dellacasa et al., 2007).

**Turkish records.** Eskişehir, Kahramanmaraş, Kırıkkale, Konya (Lodos et al., 1999). Istanbul (Maté & Angus, 2005, as *Aphodius (Liothorax) wilsonae* Maté & Angus, 2005).

**7. *Neagolius ovitensis* ssp. *laticeps* (Pittino & Ballerio, 1996)**

**Material examined.** Gümüşhane, Zigana dağ., 2300 m, 12.vi.1998, G. Sama leg. 1 specimen.

**Distribution.** North East Turkey (M. Dellacasa & G. Dellacasa, 2006).

**Turkish records.** Gümüşhane (Pittino & Ballerio, 1996).

**8. *Parammoecius asphaltinus* (Kolenati, 1846)**

**Material examined.** Artvin, Cam geç. 2000 m, 10.vi.1998, G. Sama leg. 1 specimen.

**Distribution.** Armenia, Georgia, South Russia. Turkey (M. Dellacasa & G. Dellacasa, 2006).

**Turkish records.** Ordu, Giresun, Trabzon, Rize, Artvin (Carpaneto, 1976). Gümüşhane (Carpaneto, 1977).

**9. *Phaeaphodius tauricola* (Hrubant, 1961)**

**Material examined.** Sivas, 8 km W from crossroads to Zara, 1400 m, 18.vi.1998, G. Sama leg. 1 specimen.

**Distribution.** Turkey (M. Dellacasa & G. Dellacasa, 2006). Armenia (Ahrens, 1997). Iran (Ziani & Moradi Gharakhloo, 2011).

**Turkish records.** Karaman (Hrubant, 1961). Çankırı (Petrovitz, 1968). Kastamonu, Bolu (Carpaneto, 1977). Antalya, Konya (Ahrens, 1997).

**10. *Phalacroonthus fumigatulus* (Reitter, 1892)**

**Material examined.** Adıyaman, Nemrut dağ., 1000/1800 m., 13.v.1997, G. Sama leg. 2 specimens; Mardin, Ömerli, 15.iv.2006, S. Ziani leg. 1 specimen.

**Distribution.** Greece, Bulgaria, Georgia, Armenia; Turkey, Israel, Lebanon, Syria, Turkmenistan (M. Dellacasa & G. Dellacasa, 2006).

**Systematic note.** G. Dellacasa et al. (2001) have proposed the synonymy *Phalacroonthus sculpturatus* (Reitter, 1892) versus *P. fumigatulus* (Reitter, 1892).

**Turkish records.** Ankara, Eskişehir, Konya, Kahramanmaraş, Niğde, Van (Carpaneto, 1977). Hakkari, Isparta, İzmir, Kirşehir (Carpaneto, 1977, as *P. sculpturatus*). Konya (G. Dellacasa et al., 2001). Çanakkale (I. Rozner & G. Rozner, 2009).

**11. *Osmanius balthasari* (Petrovitz, 1963)**

**Material examined.** Niğde, Kolsuz geç., 1490 m, 9.iv.2004, S. Ziani leg. 3 specimens; ditto, 15.iv.2004, S. Ziani leg. 8 specimens; Aksaray, Selime, 1300 m, 10.iv.2004, S. Ziani leg. 8 specimens.

**Distribution.** Greece; Turkey, Iran (Moradi Gharakhloo & Ziani, 2010).

**Turkish records.** Hatay (Petrovitz, 1963). Niğde, Aksaray, Konya, Kirşehir, Yozgat (Pittino, 1996).

**12. *Ataenius horticola* Harold, 1869**

**Material examined.** Hatay, Nur dağl., Topaktas, E of Dört Yol, 1150 m, 20/24.v.2011, G. Sama leg. 1 specimen.

**Distribution.** Germany, Caucasus, Balkan, Ukraine; Turkey, Cyprus, Jordan, Israel, Lebanon, Syria, Iraq, Iran, Afghanistan, Tajikistan; Egypt (M. Dellacasa & G. Dellacasa, 2006).

**Turkish records.** İstanbul (Harold, 1869). Mersin, İzmir (Sahlberg, 1913). Hatay (Petrovitz, 1963). Adana, Antalya, Muğla, Tokat, Zonguldak (Carpaneto, 1977). Çanakkale (I. Rozner & G. Rozner, 2009).

## SCARABAEIDAE

### 13. *Copris (Copris) armeniacus* Faldermann, 1835

**Material examined.** Muş, Buglan geç., 1650 m, 2.vi.1998, G. Sama leg. 2 specimens.

**Distribution.** Armenia; Turkey, Iran (Löbl et al., 2006a). Azerbaijan (Kabakov, 2006).

**Systematic note.** According to Iablokov-Khnzorian (1967) *Copris felschei* Reitter, 1892 is a junior synonym of *Copris armeniacus* Faldermann, 1835.

**Turkish records.** Adana (Petrovitz, 1968, as *C. felschei*). Gaziantep, Hakkari (Carpaneto, 1977, as *C. felschei*). Konya, Gümüşhane, Van, Çankırı, Muş, Erzurum (Tauzin, 2001). Kars, Erzincan (I. Rozner & G. Rozner, 2009).

### 14. *Onthophagus (Palaeonthophagus) angorensis* Petrovitz, 1963

**Material examined.** Kahramanmaraş, env. Goksun, 1500 m., 11.v.1997, G. Sama leg. 1 specimen; Siirt, 10 km N Sırnak, 1500 m, 16.iv.2006, S. Ziani leg. 1 specimen; Niğde, Kolsuz Geçidi, 1490 m, 15.iv.2004, S. Ziani leg. 3 specimens; Niğde, Caykavak Geçidi, 1600 m, 9.iv.2004, S. Ziani leg. 2 specimens; Malatya, Resadiye Geçidi, 1510 m, 13.iv.2004, S. Ziani leg. 13 specimens; Adıyaman, Nemrut Dağ., 1600 m, 13.iv.2004, S. Ziani leg. 1 specimen.

**Distribution.** Yugoslavia, Macedonia, Greece, Bulgaria, Romania; Turkey, Israel, Lebanon Syria, Iran (Löbl et al., 2006b). Southern Russia, Armenia, Azerbaijan; Turkmenistan (Kabakov, 2006).

**Turkish records.** Ankara (Petrovitz, 1963). Konya (Carpaneto, 1977). Gaziantep, Mersin, Tokat (Martin-Piera & Zunino, 1985). Hatay, İsparta (Keith, 1998). Tunceli (Tauzin, 2000). Adana, Afyonkarahisar, Amasya, Aksaray, Burdur, Çanakkale, Diyarbakır, İzmir, Kahramanmaraş, Kirsehir, Mardin, Yozgat (Pittino, 2004). Antalya (Bellmann, 2007).

### 15. *Onthophagus (Palaeonthophagus) carpanetoi* Pittino, 1982

**Material examined.** Van, Kuskun Kiran geç., 2200 m, 4.vi.1998, G. Sama leg. 1 specimen; Muş, Buglan geç., 1400 m, 17.v.2011, G. Sama leg. 4 specimens. Erzurum, Kop dağ., Kandilli, 2500 m., 3.vii.1992, S. Ziani leg. 34 specimens; Ağrı, Tahir 2100 m, 4.vii.1992, S. Ziani leg. 6 specimens; Ağrı, Tutak, 1600 m, 4.vii.1992, S. Ziani leg. 1 specimen; Gümüşhane, Bayburt 2000 m, 3.vii.1992, S. Ziani leg. 27 specimens; Adıyaman, Nemrut dağ., 1600 m, 13.iv.2004, S. Ziani leg. 12 specimens; Malatya, 10 km S Tepehan, 1200 m, 12.iv.2004, S. Ziani leg. 4 specimens; Adana, Belededik, 1300 m, 9.iv.2004, S. Ziani leg. 9 specimens; Kayseri, Bunyan, 1300 m, 11.iv.2004, S. Ziani leg. 2 specimens; Niğde, Kolsuz geç., 1490 m, 9.iv.2004, S. Ziani leg. 16 specimens; Niğde, Caykavak geç., 1600 m, 9.iv.2004, S. Ziani leg. 19 specimens; Malatya, Resadiye geç., 1510 m, 13.iv.2004, S. Ziani leg. 88 specimens.

**Distribution.** Turkey, Jordan, Iran (Löbl et al., 2006b). Armenia; Syria, Iraq (Kabakov, 2006).

**Turkish records.** Bolu, Gümüşhane, Kars, Antalya, İsparta, Konya, Tokat, Kahramanmaraş, Mersin, Kayseri, Afyonkarahisar (Pittino, 1982). Hatay (Keith, 1998). Ankara, Burdur, Çankırı, Denizli, Erzurum, Hakkari, Kastamonu, Kütahya, Nevşehir, Niğde, Rize, Tunceli, Van (Pittino, 2004).

### 16. *Onthophagus (Palaeonthophagus) dorsosignatus* d'Orbigny, 1898

**Material examined.** Van, Kuskun Kiran geç., 2200 m, 4.vi.1998, G. Sama leg. 2 specimens; Ağrı, Tutak, 1600 m, 4.vii.1992, S. Ziani leg. 1 specimen; Ağrı, Tahir, 4.vii.1992, S. Ziani leg. 1 specimen; Van, Kocapinar, 1900 m, 4.vii.1992, S. Ziani leg. 3 specimens; Erzurum, env., 4.vii.1992, S. Ziani leg. 1 specimen; Erzurum, Kop dağ., Kandilli, 2500 m, 3.vii.1992, S. Ziani leg. 2 specimens; Van, Gurpinar, 2100 m, 5.vii.1992, S. Ziani leg. 25 specimens; Adıyaman, Nemrut dağ., 1600 m, 13.iv.2004, S. Ziani leg. 5 specimens; Malatya, Kubbe Geç., 1966 m, 12.iv.2004, S. Ziani leg. 9 specimens; Malatya, Resadiye Geç., 1510 m,

13.iv.2004, S. Ziani leg. 6 specimens; Malatya, 10 km S Tepehan, 1200 m, 12.iv.2004, S. Ziani leg. 1 specimen.

**Distribution.** Azerbaijan, Armenia; Turkey, Iraq, Iran, Afghanistan (Löbl et al., 2006b). Syria (Kabakov, 2006).

**Turkish records.** Van (D'Orbigny, 1898). Bitlis (Carpaneto, 1977). Adana, Mersin, Kahramanmaraş (Pehlivan, 1989).

17. *Onthophagus (Palaeonthophagus) fissinasus* Fairmaire, 1895

**Material examined.** Adiyaman, Nemrut dağ., 1000/1800 m, 13.v.1997, G. Sama leg. 1 specimen; Malatya, 10 km S Tepehan, 1200 m, 12.iv.2004, S. Ziani leg. 1 specimen; Malatya, Kubbe geç., 1966 m, 12.iv.2004, S. Ziani leg. 1 specimen; Malatya, Resadiye geç., 1510 m, 13.iv.2004, S. Ziani leg. 133 specimens; Niğde, Kolsuz geç., 1490 m, 15.iv.2004, S. Ziani leg. 3 specimens; Siirt, 10 km N Sınak, 1500 m, 16.iv.2006, S. Ziani leg. 2 specimens.

**Distribution.** Turkey, Israel, Lebanon, Syria, Iraq, Iran (Löbl et al., 2006b).

**Turkish records.** Izmir, Hatay (Fairmaire, 1895). Niğde (Durand, 1970). Eskişehir (Zunino, 1976). Ankara (Carpaneto, 1977). Diyarbakır, Kahramanmaraş (Pehlivan, 1989). Gaziantep (Lodos et al., 1999). Afyonkarahisar (I. Rozner & G. Rozner, 2009).

18. *Onthophagus (Palaeonthophagus) furciceps* Marseul, 1869 [Fig. 1]

**Material examined.** Tunceli, Pass N Pülümür, 1800 m, 10.v.2011, G. Sama leg. 1 specimen ♂.

**Distribution.** Turkey, Lebanon (Ziani & Gudenzi, 2006).

**Turkish records.** Adiyaman (Ziani & Gudenzi, 2006). All other Turkish records quoted by the literature are to be reviewed after Pittino (2004) and Ziani & Gudenzi (2006).

**Remarks.** *O. furciceps* is known only for the holotype, a male from Lebanon, and for another male examined by Ziani & Gudenzi (2006). The record of Tunceli is the third for the species. The female still remains unknown.

19. *Onthophagus (Palaeonthophagus) rakovici* Pittino, 2004

**Material examined.** Muş, Buglan geç., 1400 m, 17.v.2011, G. Sama leg. 1 specimen.

**Distribution.** Armenia; Turkey, Iran (Ziani, 2009).

**Turkish records.** Ankara, Çankırı, Bolu, Kastamonu, Ağrı, Kars, Erzurum (Pittino, 2004).

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Figure 1. *Onthophagus (Palaeonthophagus) furciceps* Marseul, 1869 [Turkey: Tunceli, Pass N Pülümür]. Photo by A. Degiovanni.