

**FAUNISTIC STUDIES ON STAPHYLININAE  
(COLEOPTERA: STAPHYLINIDAE) IN KAZDAĞLARI  
(BALIKESİR PROVINCE) IN TURKEY**

**Tuba Öncül Abacıgil\*, Sakin Vural Varlı\*\* and Serdar Tezcan\*\*\***

\* Department of Olive and Olive Processing Technology, Vocational High School of Edremit, University of Balıkesir, 10300 Edremit, Balıkesir/TURKEY. E-mail: abacigil@balikesir.edu.tr

\*\* Department of Biology, Faculty of Arts and Science, University of Balıkesir, 10145 Balıkesir/TURKEY. E-mail: svarli@balikesir.edu.tr

\*\*\* Department of Plant Protection, Faculty of Agriculture, University of Ege, 35100 Bornova, İzmir/TURKEY. E-mail: serdar.tezcan@ege.edu.tr

**[Abacıgil, T. Ö., Varlı, S. V. & Tezcan, S. 2012. Faunistic studies on Staphylininae (Coleoptera: Staphylinidae) in Kazdağları (Balıkesir province) in Turkey. Munis Entomology & Zoology, 8 (1): 415-433]**

**ABSTRACT:** In this study, determination of Staphylininae fauna of Kazdağları (Balıkesir province) in Turkey has been aimed. Materials have been collected from 61 localities by two weeks' intervals during the months of February to November in 2008-2010. As a result of the study, 36 species of 24 genera and subgenera have been determined. Among them, 2 species, *Quedius unicolor* Kiesenwetter, 1847 and *Q. henroti* Coiffait, 1970 have been reported as new records for Turkish fauna. All evaluated species in the study have been reported as the first records for Kazdağları (Balıkesir province) fauna.

**KEY WORDS:** Staphylininae, Staphylinidae, Kazdağları, Balıkesir, Turkey, new record.

The family Staphylinidae also known as "rove beetles" belong to the suborder Polyphaga of the order Coleoptera. Total number of 45.707 species and subspecies are registered for 3845 genera in 32 subfamilies belonging to Staphylinidae family worldwide. 1600 species and subspecies of 246 genera connected to 22 subfamilies are registered in Turkey. Staphylininae is one of the largest subfamilies of Staphylinidae with more than 6.500 described species in approximately 282 genera worldwide (Herman, 2001). In Turkey, 346 species and subspecies belonging to 39 genera and subgenera of Staphylininae were recorded until now (Anlaş, 2009).

Species of subfamily Staphylininae is common in almost all types of ecosystems throughout the world even though they are generally adapted to live on the ground or in the soil of cool and humid biotopes. Mature insects can live in habitats that are humid and humus rich, like as in loose soils, on and under fallen foliage, in caves, around creek biotopes, under the stones, in tidal zones, under the barks of fallen trees, dead logs and many more. Some species of this subfamily live as saprophagous around decomposing organic matter including animal carcass or droppings. Phytophagous feeder species are rarely observed. These feed on fresh leaves, pollens or flowers of plants. However none of these species cause loss on economic level. Also some species do live as mycetophagous inside decomposing or live mushrooms. Rove beetles are classified generally according to their behavior type as a predator or a parasite. Termitophilic and myrmecophilic species living with ants or termites in the same nest parasitically or neutrally are known as well (Lodos, 1989).

Early detailed morphologic data regarding Staphylinidae species are provided by Blackwelder (1936), Smetana (1958), Lohse (1964), Coiffait (1972), Tikhomirova (1973), Naomi (1987,1987a) and Newton (1990). Staphylinidae

larvae were studied morphologically by Paulian (1941), Pototskaya (1967), Topp (1978) and Boháč (1982). First catalog of family Staphylinidae was prepared by Bernhauer & Schubert (1910, 1911, 1912, 1914, 1916) in five volumes. This was followed by catalogs that were prepared by Bernhauer & Scheerpeltz (1926), Scheerpeltz (1933, 1934) and Lohse (1964). Moreover, Coiffait (1972, 1974, 1978) in his study about subfamily Staphylininae which is widespread in Palaearctic region also provided systematical and faunistical information about a great number of species living in Turkey along with many identification keys. Works of German scientist Assing has become well known in the last ten years concerning Staphylinidae fauna in the world. He made contributions to Turkish fauna during his journeys to Turkey. Furthermore, studies of Sahlberg (1912-1913), Herman (2001), Löbl & Smetana (2004), Bordoni (2003), Coiffait (1972, 1974, 1978) are among the significant publications in the world. The first investigations about Staphylinidae fauna in Turkey conducted by Ganglbauer (1905), Bordoni (1971, 1973, 1973a, 1973b), Smetana (1967, 1967a, 1968, 1968a, 1977), Sahlberg (1912-1913), Bernhauer (1927, 1935, 1936). Some of the publications regarding Staphylinidae fauna in the world today belongs to Staniec (1999, 1999a, 2002, 2004), Staniec & Pietrykowska-Tudruj (2008, 2009), Solodovnikov (2004, 2005), Schillhammer (2007, 2008, 2009), Khachikov (2005, 2006, 2007). Major studies of Staphylinidae fauna in Turkey were carried out by Bordoni (1999, 2000), Tezcan & Amiryan (2003), Anlaş (2007, 2009), Schillhammer et al. (2007) and Assing (2009, 2009a, 2009b, 2009c, 2010, 2010a, 2010b, 2010c).

Kazdağları Mountain range (38.50-40.50° N / 25.00-28.50° E) which occupies 258.000 hectares is located in Northwest Anatolia and forms a boundary between Marmara and Aegean Regions. This mountain range consisting of Dede Mountain in the west, main Kazdağı in the center, Eybek Mountain in the east, Gürgen, Kocakatan and Susuz (Sakar) Mountains in the northeast makes the highest formation of Biga Peninsula. South side of the Kazdağları starting from Zeytinli Rivulet covering all the region to the west of Altınoluk settlement (Damla Hill) and 21.450 hectares of heights that exist above these locations are declared as a National Park in 1993 with a legislation via Ministry Cabinet. Because Kazdağları is sheltering 800 plant species in which 70 of them are endemic, aside from Kazdağları fir [*Abies nordmanniana* ssp. *equi-trojani* (Asch. & Sint.) Coode & Cullen (Pinales: Pinaceae)] only specific to this area, it is selected as a pilot region of the World Bank supported "Protection of Plant Gene Resources in Place" project and conservation of this plant and animal diversity was initiated. This study aims to determine existing members of Staphylininae subfamily, their biological diversity and their occurrence, contribute data to the regional zoogeographic distribution of species belonging to Staphylininae in Kazdağları which has significant characteristics.

This article has been prepared in order to give some additional information after the completion of a doctoral research dissertation project of the first author on the fauna of Kazdağları.

## MATERIAL AND METHODS

The research was carried out in 61 localities located in Kazdağları during the months of February-November in 2008-2010. Detailed information regarding these localities are shown in Table 1. Study area was investigated by dividing into sections because of its large size. In 2008, National Park section; in 2009, National Park, South, Southeast and West; in 2010, North, Northeast, East of the Kazdağları were studied to determine the best locations for Staphylininae with

two weeks' sampling intervals. Map regarding research localities is displayed in Figure 1.

According to Boháč (2007), methods used for collection of Staphylinidae species vary in efficiency. In respective order sifting and knock down has 32.63% - 19.27% efficiency, also collected by hand, pitfall trap and bait trap with hibernation trap-band has corresponding efficiency of 15.66%, 6.02% and 4.42%, respectively. Sampling was carried out via suitable method for each habitat type and vegetation cover with these differences in consideration. Therefore, specimens located in and around soil, pebble, detritus and fallen foliage were obtained by sifting, samples on bushes, and leaves, flowers of short nonwoody plants were collected with sweeping net, especially collected by hand from in stream biotopes whether found under a stone or underneath dead tree barks, through pitfall and bait traps in fir, *Quercus* sp., *Pinus brutia*, *Pinus nigra* and *Abies nordmanniana* ssp. *equi-trojani* biotopes. Labels of gathered specimens include respectively material collection locality, date, subject biotope or collection method, number of specimens collected and total specimen number. All of the specimens were collected and determined by first author of this article. Materials have been deposited in the Balikesir University Zoological Museum, Balikesir, Turkey.

Classification and nomenclature of the subfamily Staphylininae suggested by Löbl & Smetana (2004) have been followed in this study. Worldwide and in Turkey distributions of identified species are given in an alphabetical order, the information about material examined are indicated according to locality numbers.

Countries have been coded as follows after Löbl & Smetana (2004):

**E - Europe:** AB Azerbaijan, AL Albania, AN Andorra, AR Armenia, AU Austria, AZ Azores, BE Belgium, BH Bosnia Hercegovina, BU Bulgaria, BY Byelorussia, CR Croatia, CZ Czech Republic, DE Denmark, EN Estonia, FA Faeroe Islands, FI Finland, FR France, GB Great Britain, GE Germany, GG Georgia, GR Greece, HU Hungary, IC Iceland, IR Ireland, IT Italy, KZ Kazakhstan, LA Latvia, LS Liechtenstein, LT Lithuania, LU Luxembourg, MA Malta, MC Macedonia, MD Moldavia, NL The Netherlands, NR Norway, PL Poland, PO Portugal, RO Romania, RU Russia (CT Central European Territory, NT North European Territory, ST South European Territory), SK Slovakia, SL Slovenia, SP Spain, SR Svalbard, SV Sweden, SZ Switzerland, TR Turkey, UK Ukraine, YU Yugoslavia.

**N - North Africa:** AG Algeria, CI Canary Islands, EG Egypt (except Sinai), LB Libya, MO Morocco, MR Madeira Archipelago, TU Tunisia.

**A - Asia:** AE Arab Emirates, AF Afghanistan, AP Arunachal Pradesh, BA Bahrain, BT Bhutan, CH China [CE Central Territory (ANH Anhui, HUB Hubei, HUN Hunan, JIA Jiangsu, JIX Jiangxi, SHG Shanghai, ZHE Zhejiang), NE Northeastern Territory (HEI Heilongjiang, JIL Jilin, LIA Liaoning), NO Northern Territory (BEI Beijing, GAN Gansu, HEB Hebei, HEN Henan, NIN Ningxia, NMO Nei Mongol, SHA Shaanxi, SHN Shandong, SHX Shanxi, TIA Tianjin), NW Northwestern Territory (GAN Gansu, NMO Nei Mongol, XIN Xinjiang), SE Southeastern Territory (FUJ Fujian, GUA Guangdong, GUX Guangxi, HAI Hainan, HKG Hong Kong, MAC Macao, TAI Taiwan), SW Southwestern Territory (GUI Guizhou, SCH Sichuan, YUN Yunnan), WP Western Plateau (QIN Qinghai, XIZ Xizang)], CY Cyprus, HP Himachal Pradesh, IN Iran, IQ Iraq, IS Israel, JA Japan, JO Jordan, KA Kashmir, KI Kyrgyzstan, KU Kuwait, KZ Kazakhstan, LE Lebanon, MG Mongolia, NP Nepal, NC North Korea, OM Oman, PA Pakistan, QA Qatar, RU Russia (ES East Siberia, FE Far East, WS West Siberia), SA Saudi Arabia, SC South Korea, SD Sikkim, Darjeeling, SI Sinai (Egyptian part), SY Syria, TD Tadzhikistan, TM Turkmenistan, TR Turkey, UP Uttar Pradesh, UZ Uzbekistan, YE Yemen.

**AFR** Afrotropical region, **AUR** Australian region, **NAR** Nearctic region, **NTR** Neotropical region, **ORR** Oriental region.

## RESULTS

**Family Staphylinidae Latreille, 1802**  
**Subfamily Staphylininae Latreille, 1802**  
**Tribe Othiini Thomson, 1859**  
**Genus *Othius* Stephens, 1829**

***Othius laeviusculus* Stephens, 1833**

**Material examined:** Kavakardı, 23.X.2010, *Pinus nigra*, *Suillus* sp., aspirator, (2♂♂). Totally 2 specimens. **Distribution in the world:** E: AB AU BH BU CR CZ FR GB GE GR HU IR IT MC NL PL PT SK SL SP ST SZ N: AG MO TU A: CY IN SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adıyaman, Ankara, Antalya, Ardahan, Aydın, Bursa, İstanbul, İzmir, Manisa, Mersin (Çamlıyayla), Muğla, Rize, Samsun, Tunceli (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**Tribe Staphylinini Latreille, 1802**  
**Subtribe Philonthina Kirby, 1837**  
**Genus *Gabrius* Stephens, 1829**

***Gabrius anatolicus* Smetana, 1953**

**Material examined:** Sarıkız Hill, 10.V.2009, *Pinus nigra*, pitfall trap, (1♀); Çam Çeşme Stream, 06.IX.2009, stream bed, under stone, (3♂♂ 3♀♀); Çeşme Stream, 27.VI.2010, stream bed, under stone, (5♂♂ 2♀♀); Şahmelik Stream, 06.IX.2009, stream bed, under stone (3♀♀); Eğrisu Stream, 24.V.2009, stream bed, under stone, (1♂); Boz Stream, 27.VI.2010, stream bed, under stone, (7♂♂ 3♀♀); Domuz Çukuru Road 2, 21.VI.2009, stream bed, under stone, (1♂ 1♀); Domuz Çukuru Road 3, 21.VI.2009, stream bed, under stone, (2♂♂); Küçük Stream 1, 01.VIII.2010, stream bed, under stone, (1♂ 2♀♀); Gelin Rivulet, 16.X.2010, stream bed, under stone, (1♂ 1♀). Totally 37 specimens. **Distribution in the world:** A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** İzmir (Bozdağlar), Mersin (Yeniköy-Toros) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Gabrius astutus* (Erichson, 1840)**

**Material examined:** Çam Çeşme Stream, 21.VI.2010, stream bed, under stone, (1♂); Ayı Stream 1, 26.IV.2008, *Quercus* sp., bait trap, (1♂); Şahmelik Area, 21.VI.2009, stream bed, under stone, (1♂); Küçük Stream 2, 17.VII.2010, stream bed, sifting, (1♀). Totally 4 specimens. **Distribution in the world:** E: AR AU BE BH BU CR CZ FR GE GR HU IT NL PL RO SK SP ST SZ UK A: ES FE LE TM TR UZ WS (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana (Bürücek-Toros), Konya (Karapınar) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**Genus *Philonthus* Stephens, 1829**  
**Subgenus *Philonthus* Stephens, 1829**

***Philonthus (Philonthus) cognatus* Stephens, 1832**

**Material examined:** Nanekırı Hill, 04.VI.2009, (1♂), 02.VIII.2009, (6♂♂ 4♀♀), *Sideritis trojana*, pitfall trap; Beypınarı 1, 05.VII.2008, (1♂), 04.VII.2009, (4♂♂ 1♀), 19.VII.2009, (4♂♂ 2♀♀), *Pinus nigra*, *Vicia villosa*, pitfall trap; Beypınarı 2, 21.VI.2009, (1♂), 04.VII.2009, (1♂ 1♀), 19.VII.2009, (4♂♂ 2♀♀), *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annuum*, pitfall trap; Koçere Stream 1, 19.VII.2009, stream bed, pitfall trap, (2♂♂); Altıparmak, 02.VI.2009, (3♂♂ 1♀), 21.VI.2009, (1♂ 1♀), 04.VII.2009, (2♂♂ 1♀), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, aspirator, pitfall trap; Yedikardeşler, 05.VII.2008, (19♂♂ 14♀♀), 14.VI.2008, (1♂), 31.VI.2008, (1♂), *Abies equitrojani*, *Pinus nigra*, aspirator, pitfall trap. Totally 78 specimens. **Distribution in the world:** E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE HU IR IT LA LT LU MO NL NR NT PL PT RO SK SL SP ST SV SZ UK YU N: AG TU A: ES IN JIL KA KI KZ NP PA TD TR WS NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Mersin (Yeniköy), Trabzon (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) concinnus*** (Gravenhorst, 1802)

**Material examined:** Nanekırn Hill, 04.VII.2009, rocky field, *Sideritis trojana*, sweeping net, (1♀), 02.VIII.2009, rocky field, *Sideritis trojana*, pitfall trap, (2♂♂ 1♀); Sarıkız Road, 31.V.2008, stream bed, under stone, (3♂♂), 10.V.2009, *Pinus nigra*, pitfall trap, (2♂♂); Levent Boğazi, 06. IX. 2009, *Quercus* sp., stream bed, under stone, (1♂ 1♀); Beypinarı 1, 14.VI.2008, (3♂♂ 4♀♀), 05.VII.2008, (2♂♂ 1♀), 04.VII.2009, (3♀♀), 19.VII.2009, (1♂ 2♀♀), *Pinus nigra*, *Vicia villosa*, pitfall trap, 04.VII.2009, *Pinus nigra*, *Vicia villosa*, under stone, (2♂♂ 1♀); Beypinarı 2, 04.VII.2009, (1♀), 19.VII.2009, (2♂♂), 18.X.2009, (1♂), *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annuum*, pitfall trap; Koçere Stream, 21.VI.2009, (4♂♂ 5♀♀), 19.VII.2009, (1♀), stream bed, pitfall, 21.VI.2009, (5♂♂ 2♀♀), 27.VI.2009, (1♀), 19.VII.2009, (2♂♂ 2♀♀), 06.IX.2009, (1♀), stream bed, under stone; Büyük Rahat Stream, 21.VI.2009, stream bed, under stone, (9♂♂ 16♀♀); Koçere Stream 2, 06.IX.2009, *Abies equi-trojani*, *Fagus orientalis*, under stone, (3♂♂ 5♀♀); Altıparmak, 02.VI.2009, (2♂♂ 6♀♀), 06.VI.2009, (11♀♀), 06.VI.2009, (8♂♂ 2♀♀), 21.VI.2009, (7♂♂ 6♀♀), 04.VII.2009, (1♂), 02.VIII.2009, (1♂), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, under stone, 21.VI.2009, (1♂ 4♀♀), 19.VII.2009, (1♂ 1♀), 04.VII.2009, (2♂♂ 3♀♀), 02.VIII.2009, (1♀), 18.X.2009, (1♀), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap; Kırlangıç Stream 1, 04.VII.2009, stream bed, *Quercus* sp., under stone, (2♂♂ 7♀♀); Çamçeşme, 21.VI.2009, *Pinus brutia*, *Fagus orientalis*, *Castanea sativa*, under stone, (1♂ 5♀♀); Şahmelik, 21.VI.2009, (8♂♂ 20♀♀), 06.IX.2009, (1♂ 2♀♀), stream bed, under stone; Eğrisu Stream, 24.V.2009, (5♂♂ 11♀♀), 19.VII.2009, (3♂♂), stream bed, under stone, Gıldırdağ Stream, 27.VI.2010, stream bed, under stone, (1♂ 5♀♀); Bozdere, 19.VII.2009, *Centaurea* sp., aspirator, (1♀); Çamçeşme Stream, 21.VI.2009, (12♂♂ 11♀♀), 06.IX.2009, (1♂ 1♀), 27.VI.2010, (1♀), stream bed, under stone; Şahmelik Area, 21.VI.2009, stream bed, under stone, (5♂♂); Domuz Çukuru Road 1, 21.VI.2009, stream bed, under stone, (1♂); Yedikardeşler, 05.VII.2008, *Abies equi-trojani*, *Pinus nigra*, pitfall trap (3♂♂ 2♀♀); Kırlangıç Stream 1, 17.VII.2010, stream bed, sifting, (2♀♀); Kapanca Stream, 21.VI.2009, stream bed, under stone, (2♂♂ 2♀♀); Hanlar Üstü, 16.X.2010, meadow, cow dung, aspirator, (4♀♀). Totally 267 specimens. **Distribution in the world:** E: AL AR AU AZ BE BH BU CR CT CZ DE EN FI FR GB GE GG GR HU IR IT LA LT LU MC NL NR NT PL PT RO SK SL SP ST SV SZ UK YU N: AG CI LB MO MR TU A: AF CY ES FE IN IS KZ LE MG TD TR UZ WS NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Ankara, Bolu (Kaynaşlı), Kayseri (Erciyes Mountain), Konya, Manisa, Mersin (Yeniköy), Mersin-Karaman, Tunceli (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) coprophilus*** Jarrige, 1949

**Material examined:** Hanlar Üstü, 16.X.2010, meadow, cow dung, aspirator, (1♂ 1♀). Totally 2 specimens. **Distribution in the world:** E: AU BE BU CZ FR GB GE HU IT LA LT LU SK ST N: "Nordafrika" A: WS (Löbl & Smetana, 2004). **Distribution in Turkey:** Erzurum (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) corruscus*** (Gravenhorst, 1802)

**Material examined:** Nanekırn Hill, 02.VIII.2009, rocky field, *Sideritis trojana*, pitfall trap, (1♂ 1♀); Sarıkız Road, 05.VII.2008, *Pinus nigra*, pitfall trap, (1♀), 04.VII.2009, *Pinus nigra*, under stone, (3♂♂ 8♀♀); Beypinarı 1, 14.VI.2008, (1♀), 19.VII.2009, (1♂), *Pinus nigra*, *Vicia villosa*, pitfall trap; Beypinarı 2, 21.VI.2009, (1♂), *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annuum*, pitfall trap; Koçere Stream, 21.VI.2009, stream bed, under stone, (1♂); Koçere Stream, 06.IX.2009, stream bed, pitfall trap, (2♂♂ 4♀♀); Büyük Rahat Stream, 21.VI.2009, stream bed, under stone, (1♂); Altıparmak, 06.VI.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, under stone, Ayı Stream 2, 14.VI.2008, *Pinus brutia*, *Moenchia mantica* subsp. *mantica*, pitfall trap, (1♀); Ayı Stream 2, 14.VI.2008, *Pinus brutia*, *Moenchia mantica* subsp. *mantica*, pitfall trap, (1♂); Söbüyurt, 04.VII.2009, nonwoody plants, under stone, (1♂); Şahmelik Area, 24.V.2009, stream bed, under stone, (1♂); Eybek Observation Tower 1, 16.X.2010, *Hydnum repandum*, aspirator, (1♀). Totally 30 specimens. **Distribution in the world:** E: AR AU BE BU CZ DE EN FR GB GE GG GR HU IR IT LT LU NL PL RO SK SP ST SV SZ UK N: AG A: AF IS LE TM TR UZ WS (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana (Bürücek,

Suluhan-Toros), Ankara (Çamlıdere-Işık Mountain), İzmir, Mersin [Tarsus (=Tarsous), Caramania] (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) cruentatus*** (Gmelin, 1790)

**Material examined:** Nanekırn Hill, 06.VI.2009, rocky field, *Sideritis trojana*, sweeping net, (1♀); Altıparmak, 02.VI.2009, (1♂), 06.VI.2009, (1♀), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, under stone; Hanlar Üstü, 16.X.2010, meadow, cow dung, aspirator, (1♀). Totally 4 specimens. **Distribution in the world:** E: AL AR AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GG GR GU IR IT LA LT LU MC NL NR NT PL PT RO SK SL SP ST SV SZ UK YU N: AG CI MO A: AF ES FE IN KI KZ LE MG TD TR UP UZ WS NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Denizli (Babadağı), İstanbul (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) debilis*** (Gravenhorst, 1802)

**Material examined:** Nanekırn Hill, 06.VI.2009, rocky field, *Sideritis trojana*, sweeping net, (3♂♂ 6♀♀), 04.VII.2009, rocky field, *Sideritis trojana*, under stone, (1♂); Beypınarı 1, 14.VI.2008, (1♂), 06.VI.2009, (2♂♂), *Pinus nigra*, *Vicia villosa*, pitfall trap; Koçere Stream 1, 21.VI.2009, (2♂♂), 06.IX.2009, (1♂), stream bed, pitfall trap; Büyük Rahat Stream, 21.VI.2009, stream bed, under stone, (14♂♂ 13♀♀); Altıparmak, 02.VI.2009, stream bed, under stone, (1♂); Şahmelik, 24.V.2009, (11♂♂ 20♀♀), 06.IX.2009, (1♂), stream bed, under stone; Eğrisu Stream, 24.V.2009, stream bed, sifting, (3♂♂); Kırlangıç Stream 2, 04.VII.2009, stream bed, sifting, (1♂). Totally 80 specimens. **Distribution in the world:** E: AB AL AR AU BE BH BU CR CT CZ DE EN FI FR GB GE GG GR HU IR IT LA LT LU MC NL NR NT PL PT RO SK SL SP ST SV SZ UK YU N: AG CI EG MO MR TU A: AF ES FE IN IS JA JIL LE KZ MG TM TR UZ WS ZHE NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana (Suluhan-Toros), Ankara (Çankaya), Denizli, Sarayköy, Meandros, Mersin [Tarsus (=Tarsous), Caramania] (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) intermedius*** (Lacordaire, 1835)

**Material examined:** Beypınarı 1, 06.VI.2009, (1♀), 04.VII.2009, (1♀), *Pinus nigra*, *Vicia villosa*, pitfall trap; Beypınarı 2, 09.XI.2008, (1♀), 04.VII.2009, (1♂), *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annum*, pitfall trap; Koçere Stream 1, 21.VI.2009, (1♂ 1♀), 19.VII.2009, (1♀), stream bed, pitfall trap; Büyük Rahat Stream, 21.VI.2009, stream bed, under stone, (1♀); Altıparmak, 02.VI.2009, (8♂♂ 3♀♀), 06.VI.2009, (2♂♂ 1♀), stream bed, under stone; Altıparmak, 21.VI.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap, (2♂♂ 2♀♀); Şahmelik, 21.VI.2009, stream bed, under stone, (1♂); Hanlar Üstü, 16.X.2010, (1♂), 07.XI.2010, (4♂♂ 2♀♀), meadow, cow dung, aspirator. Totally 34 specimens. **Distribution in the world:** E: AB AL AR AU BH BU CR CZ DE EN FR GB GE GG GR HU IR IT LA LT LU NL PL PT RO SK ST SV SZ UK YU N: AG MO TU A: CY IN IQ LE TM TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Ankara, Denizli (Babadağı), İzmir, Kahramanmaraş, Mersin (Tarsus) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) nitidicollis*** (Lacordaire, 1835)

**Material examined:** Nanekırn Hill, 06.VI.2009, rocky field, *Sideritis trojana*, sweeping net, (5♂♂); Nanekırn Hill, 02.VIII.2009, (3♂♂ 5♀♀), 04.VII.2009, (3♂♂ 5♀♀), rocky field, *Sideritis trojana*, pitfall trap; Beypınarı 1, 14.VI.2008, (1♀), 05.VII.2008, (1♂ 4♀♀), 06.VI.2009, (2♀♀), 21.VI.2009, (2♀♀), 04.VII.2009, (4♂♂ 2♀♀), 18.X.2009, (1♀), *Pinus nigra*, *Vicia villosa*, pitfall trap; Beypınarı 2, 06.VI.2009, (1♂), 21.VI.2009, (3♂♂ 7♀♀), 04.VII.2009, (1♀), 19.VII.2009, (1♂), *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annum*, pitfall trap; Koçere Stream 1, 06.IX.2009, stream bed, sifting, (1♀); Büyük Rahat Stream, 21.VI.2009, stream bed, under stone, (2♂♂ 3♀♀); Koçere Stream 2, 19.VII.2009, *Abies equi-trojani*, *Fagus orientalis*, pitfall trap, (2♂♂); Altıparmak, 02.VI.2009, (5♂♂ 9♀♀), 06.VI.2009, (5♂♂ 7♀♀), 04.VII.2009, (1♂ 1♀), 19.VII.2009, (1♀), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, sifting; Şahmelik, 21.VI.2009, (1♀), 24.V.2009, (1♀), stream bed, sifting; Küçük Stream 2, 01.VIII.2010, stream bed, sifting, (1♂); Hacimevlüt Çeşmesi Road, 27.VI.2010, stream bed, sifting, (1♂ 1♀); Yedikardeşler,

05.VII.2008, *Abies equi-trojani*, *Pinus nigra*, pitfall trap, (2♂♂ 1♀); Kırilangıç Stream, 17.VII.2010, stream bed, sifting, (1♂); Karayaprak Stream, 16.X.2010, stream bed, sifting, (1♂); Hanlar Üstü, 07.XI.2010, meadow, cow dung, aspirator, (1♀). Totally 99 specimens. **Distribution in the world:** E: AR AU BE BH BU CR CT CZ DE EN FR GB GE GG GR HU IR IT NL PL PT RO SK SL SP ST SV SZ UK YU N: AG LB MO TU A: AF CY IN IQ IS KZ LE TD TM TR UZ WS (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana (Bürücek, Suluhan-Toros), Ankara (Çamlıdere-Işık Mountain), Gaziantep, İzmir, Konya (Karapınar) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Philonthus (Philonthus) rufimanus* Heer, 1839**

**Material examined:** Altıparmak, 02.VIII.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, under stone, (2♂♂). Totally 2 specimens. **Distribution in the world:** E: AB AL AU BH BU CZ CR FR GE GG GR HU IT MC RO SK SL SP ST SZ UK YU A: AF CY IS LE SY TR UZ (Löbl & Smetana, 2004). **Distribution in Turkey:** Aydın, Bayburt, İzmir, Kilis, Manisa, Mersin [Tarsus (=Tarsous), Caramania] (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**Subtribe Quediina Kraatz, 1857**

**Genus *Quedius* Stephens, 1829**

**Subgenus *Microsaurus* Dejean, 1833**

***Quedius (Microsaurus) brevis* Erichson, 1840**

**Material examined:** Eybek Observation Tower 1, 16.X.2010, *Hydnum repandum*, aspirator, (1♂). Totally 1 specimen. **Distribution in the world:** E: AU BE CR CZ DE FI FR GB GE HU IR IT LA LT NL NR NT PL RO SK SL ST SP SV SZ UK N: MO (Löbl & Smetana, 2004) A: TR (Anlaş, 2009) **Distribution in Turkey:** Kastamonu (Ilgaz Mountains) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Quedius (Microsaurus) cruentus* (Olivier, 1795)**

**Material examined:** Sarıkız Road, 06.IV.2008, (1♂), 26.IV.2008, (2♀♀), *Pinus nigra*, bait trap, 31.V.2008, (1♀), 19.VII.2008, (1♀), *Abies equi-trojani*, bait trap. Totally 5 specimens. **Distribution in the world:** E: AL AU BE BH BU CR CT CZ DE FI FR GB GE GR HU IR IT LA LT LU NL NR NT PL PT RO SK SP ST SZ SV UK YU N: AG MO TU A: TR NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Manisa (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Quedius (Microsaurus) fissus* Gridelli, 1938**

**Material examined:** Eybek Observation Tower 1, 16.X.2010, *Hydnum repandum*, aspirator, (1♂); Musa Hill, 07.XI.2010, *Suillus* sp., aspirator, (1♂ 3♀♀). Totally 5 specimens. **Distribution in the world:** E: GR (Lésvos; Ródhos) A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** İzmir (Monti Salbak, Karış Taurus) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Quedius (Microsaurus) lateralis* (Gravenhorst, 1802)**

**Material examined:** Beypınarı 1, 23.X.2010, *Pinus nigra*, *Vicia villosa*, under stone, (1♀); Şahmelik Area, 21.VI.2009, stream bed, under stone, (1♂). Totally 2 specimens. **Distribution in the world:** E: AL AU BE BH BU CR CZ DE FR GB GE GR HU IT MC NL PL PT RO SK SL SP SV SZ UK YU A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** İzmir [Yamanlar Mountain (=Jamanlar Dagh)] (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**Subgenus *Quedius* Stephens, 1829**

***Quedius (Quedius) levicollis* (Brullé, 1832)**

**Material examined:** Nanekırı Hill, 04.VII.2009, (3♂♂ 1♀), 02.VIII.2009, (3♂♂ 1♀), 06.IX.2009, (1♂), rocky field, *Sideritis trojana*, pitfall trap; Sarıkız Road, 10.V.2009, *Pinus nigra*, pitfall trap, (1♂ 1♀); Beypınarı 1, 04.VII.2009, (1♀), 18.X.2009, (4♂♂), *Pinus nigra*, *Vicia villosa*, pitfall trap; Beypınarı 2, 21.VI.2009, (1♀), 04.VII.2009, (1♂), 06.IX.2009, (1♂), *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annuum*, pitfall trap, 23.X.2010, *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annuum*, under stone, (5♂♂ 7♀♀); Koçere Stream 1, 19.VII.2009, (2♂♂), 21.VI.2009, (2♂♂ 2♀♀), stream bed,

pitfall trap, 21.VI.2009, stream bed, under stone, (2♂♂); Büyük Rahat Stream, 21.VI.2009, stream bed, under stone, (2♀♀); *Abies equi-trojani* Natural Reserve, 18.X.2009, *Abies equi-trojani*, *Digitaria sanguinalis*, pitfall trap, (1♂); Koçere Stream 2, 06.IX.2009, *Abies equi-trojani*, *Fagus orientalis*, sifting, (5♂♂ 1♀), 06.IX.2009, *Abies equi-trojani*, *Fagus orientalis*, under stone, (1♂), 06.IX.2009, *Abies equi-trojani*, *Fagus orientalis*, pitfall trap, (1♀), 19.VII.2009, stream bed, under stone, (2♀♀); Altıparmak, 06.VI.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, under stone, (1♂), 21.VI.2009, (2♂♂), 04.VII.2009, (5♂♂ 1♀), 02.VIII.2009, (1♂), 18.X.2009, (2♂♂), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap; Kırılgaç Stream 1, 17.VI.2010, stream bed, *Quercus* sp., pitfall trap, (1♀); Şahmelik, 21.VI.2009, stream bed, under stone, (4♂♂ 2♀♀); Eğrisu Stream, 24.V.2009, stream bed, under stone, (1♂); Söbüyurt 1, 04.VII.2009, (1♂), 02.VIII.2009, (1♀), nonwoody plants, pitfall trap; Daridere, 01.VIII.2010, *Quercus* sp., under bark, aspirator, (1♀); Daridere Road 2, 18.X.2009, stream bed, under stone, (1♂); Köprü Stream, 11.VII.2010, stream bed, under stone, (1♀); Kırılgaç Stream 2, 11.VII.2010, stream bed, sifting, (5♂♂ 12♀♀); Kırılgaç Stream 1, 17.VII.2010, stream bed, sifting, (1♂ 2♀♀); Ayı Stream Road, 24.V.2009, *Matricaria* sp., aspirator, (1♀); Ayı Stream 3, 31.V.2008, *Pleurotus* sp., aspirator, (1♂); Gelin Rivulet, 16.X.2010, stream bed, under stone, (1♂); Eybek Observation Tower 2, 16.X.2010, *Hydnum repandum*, aspirator, (1♂); Tahta Köprü Stream, 07.XI.2010, stream bed, under stone, (1♀); Şefin Çeşmesi, 07.XI.2010, on the ground, (1♂). Totally 103 specimens. **Distribution in the world:** E: AL AU BE BH BU CR CZ DE FR GB GE GG GR HU IR IT LA LT LU MC NL NR PL PT RO SK SL SP ST SV SZ UK N: AG MR TU A: CY IN IS LE SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana (Börücek-Toros), Ankara, Manisa (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Quedius (Quedius) unicolor* Kiesenwetter, 1847**

**Material examined:** Koçere Stream 1, 21.VI.2009, stream bed, pitfall trap, (1♂). Totally 1 specimen. **Distribution in the world:** E: AU CZ FR GE IT PL SK SZ UK (Löbl & Smetana, 2004). **Distribution in Turkey:** This species was not known from Turkey. **Remarks:** The species is here reported from Turkey for the first time.

**Subgenus *Raphirus* Stephens, 1829**

***Quedius (Raphirus) acuminatus* Hochhuth, 1849**

**Material examined:** Bozdere (Kirse Area 3), 27.VI.2010, stream bed, sifting, (1♀); Daridere, 01.VIII.2010, wood chips, sifting, (1♂ 1♀); Daridere Road 2, 17.VII.2010, stream bed, under stone, (1♂). Totally 4 specimens. **Distribution in the world:** E: AR AU BH CR FR GE HU ST A: IN LE TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Ağrı Mountain (=Mont Ararat), Giresun (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

***Quedius (Raphirus) gemellus* Eppelsheim, 1889**

**Material examined:** Söbüyurt 1, 02.VIII.2009, stream bed, sifting, (5♂♂); Köprü Stream, 11.VII.2010, stream bed, sifting, (1♀); Söbüyurt 2, 19.VII.2009, *Macrolepiota* sp., aspirator, (1♀). Totally 7 specimens. **Distribution in the world:** E: GG ST (Kavkaz) A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** The exact locality of this species has not been cited by previous studies (Coiffait, 1978). **Remarks:** This new and exact locality is registered for the first time from Turkey with this study.

***Quedius (Raphirus) henroti* Coiffait, 1970**

**Material examined:** Altıparmak, 06.IX.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap, (1♂); Karaçam Observation Tower, 07.XI.2010, *Pinus nigra*, *Verbascum* sp., under stone, (1♀). Totally 2 specimens. **Distribution in the world:** E: GR (Lésvos) (Löbl & Smetana, 2004). **Distribution in Turkey:** This species was not known from Turkey. **Remarks:** The species is here reported from Turkey for the first time.

***Quedius (Raphirus) nemoralis nemoralis* Baudi di Selve, 1848**

**Material examined:** Altıparmak, 18.X.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap, (1♂); Eybek Observation Tower 2, 16.X.2010, *Hydnum repandum*,



aspirator, (1♂). Totally 2 specimens. **Distribution in the world:** E: AU BE BH BU BY CR CZ DE EN FI FR GB GG GR HU IT LT MC NL NT PL PT RO SK SP ST SV SZ UK YU A: CY IN TR (Löbl & Smetana, 2004). **Distribution in Turkey:** The exact locality of this species has not been cited by previous studies (Anlaş, 2009). **Remarks:** This new and exact locality is registered for the first time from Turkey with this study.

***Quedius (Raphirus) semiobscurus* (Marsham, 1802)**

**Material examined:** Sarıkız Hill, 10.V.2009, rocky field, under stone, (1♂); Beypınarı 1, 14.VI.2008, *Pinus nigra*, *Vicia villosa*, pitfall trap, (1♀); Koçere Stream 2, 21.VI.2009, *Abies equi-trojani*, *Fagus orientalis*, pitfall trap, (1♂), 21.VI.2009, *Abies equi-trojani*, *Fagus orientalis*, under stone (1♀). Totally 4 specimens. **Distribution in the world:** E: AB AU BE BH CR DE FR GB GE GG GR HU IR IT LU NL PL PT SL SP ST SV SZ N: AG CI (La Palma) MO TU A: CY IN SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Bursa (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**Genus *Velleius* Leach, 1819**

***Velleius dilatatus* Fabricius, 1787**

**Material examined:** Ayı Stream, 14.VI.2008, (1♀), 05.VII.2008, (2♀♀), *Quercus* sp., bait trap; Ayı Stream 2, 05.VII.2008, *Pinus brutia*, bait trap (1♀). Totally 4 specimens. **Distribution in the world:** E: AU BE CR CT CZ DE EN FI FR GB GE HU IT LA LU NL NT PL PT RO SK ST SV SZ UK A: JA LIA SC TR WS (Löbl & Smetana, 2004). **Distribution in Turkey:** Samsun, Tunceli (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**Subtribe Staphylinina Latreille, 1802**

**Genus *Creophilus* Leach, 1819**

***Creophilus maxillosus* (Linnaeus, 1758)**

**Material examined:** Dalak Suyu Area, 12.V.2010, *Fagus orientalis*, animal carcass, (1♂ 2♀♀). Totally 3 specimens. **Distribution in the world:** E: AL AR AU AZ BE BH BU BY CR CT CZ DE EN FA FI FR GB GE GG GR HU IC IR IT LA LT LU MC NL NR NT PL PT RO SK SL SP ST SV SZ UK YU N: AG CI EG LB MO MR TU A: AF BEI BT CY ES FE HEI HKG HP IN JA JIL KA KI KZ LE LIA NC MG NP PA SC SCH SD SHA SY TD TM TR UP WS YUN NAR ORR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana (Börücek-Toros), Gaziantep, Hatay, İzmir, Kayseri [Erciyes Mountain (=Erdschias-Gebiet)], Manisa, Mersin [Tarsus (=Tarsous), Caramania] (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**Genus *Ocypus* Leach, 1819**

**Subgenus *Matidus* Motschulsky, 1860**

***Ocypus (Matidus) nitens* (Schränk, 1781)**

**Material examined:** *Abies equi-trojani* Natural Reserve, 18.X.2009, *Abies equi-trojani*, *Digitaria sanguinalis*, pitfall trap, (1♀); Ayı Stream 2, 19.VII.2008, *Pinus brutia*, *Moenchia mantica* subsp. *mantica*, pitfall trap, (1♂). Totally 2 specimens. **Distribution in the world:** E: AL AR AU BE BH BU CR CT DE EN FI FR GB GE GG GR HU IR IT LA LT LU MC NL NR NT PL PT RO SK SL SP ST SV SZ UK YU A: IN TR NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** The exact locality of this species has not been cited by previous studies (Anlaş, 2009). **Remarks:** This new and exact locality is registered for the first time from Turkey with this study.

**Subgenus *Ocypus* Leach, 1819**

***Ocypus (Ocypus) curtipennis* Motschulsky, 1849**

**Material examined:** Beypınarı 1, 14.VI.2008, (1♂), 02.VIII.2008, (3♂♂), 31.VIII.2008, (3♂♂ 2♀♀), 13.IX.2008, (2♂♂ 2♀♀), 19.IX.2008, (1♂ 2♀♀), 09.XI.2008, (2♂♂ 1♀), 19.VII.2009, (3♂♂ 1♀), 18.X.2009, (5♂♂ 7♀♀), 27.VI.2010, (1♂), *Pinus nigra*, *Vicia villosa*, pitfall trap; Beypınarı 2, 13.IX.2008, (3♂♂ 6♀♀), 06.IX.2009 (2♂♂ 3♀♀), *Phaeolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annuum*, pitfall trap; Altıparmak, 04.VII.2009, (1♂), 02.VIII.2009, (3♂♂), 06.IX.2009, (7♂♂ 5♀♀), 18.X.2009, (8♂♂ 5♀♀), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap, 02.VIII.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, under stone, (1♀); Padişah Pınarı,

11.VII.2010, *Mentha pulegium*, stream bed, under stone, (3♂♂); Gelin Çayı, 16.X.2010, *Pinus nigra*, stream bed, under stone, (2♀♀); Hanlar Üstü, 16.X.2010, meadow, cow dung, aspirator, (1♂); Yaşyer 1, 16.X.2010, stream bed, under stone, (1♂); Yaşyer 2, 16.X.2010, stream bed, under stone, (3♂♂); Yaşyer 3, 16.X.2010, *Pinus nigra*, *Agaricus* sp., aspirator, (1♀); Yaşyer Stream 4, 07.XI.2010, stream bed, *Agaricus* sp., aspirator, (1♀); Musa Hill, 07.XI.2010, *Lycoperdon perlatum*, aspirator, (1♂); Havran, Kalabak Village, 01.VII.2010, on the ground, aspirator, (1♂). Totally 94 specimens. **Distribution in the world:** E: AB BU GG GR MC ST TR UK A: CY IN IQ LE SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Bursa, İstanbul, İzmir (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

### Subgenus *Pseudocypus* Mulsant & Rey, 1876

#### *Ocyopus (Pseudocypus) mus* (Brullé, 1832)

**Material examined:** Dereçatı 1, 17.VII.2010, *Platanus orientalis*, *Quercus* sp., stream bed, under stone, (1♂); Dereçatı 2, 17.VII.2010, *Platanus orientalis*, *Quercus* sp., stream bed, under stone, (1♀); Gelin Rivulet, 16.X.2010, stream bed, under stone, (1♂); Eybek Observation Tower 2, 16.X.2010, *Hydnum repandum*, aspirator, (1♂). Totally 4 specimens. **Distribution in the world:** E: AB AU BH BU CR CZ GR HU IT MC RO SK TR UK YU A: CY IN IQ IS LE SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Ankara, İzmir, Manisa, Mersin [Bolkar Mountains (=Bulghar Dag)], Muğla, Şanlıurfa, Trabzon (=Trapezunt) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

#### *Ocyopus (Pseudocypus) orientis* Smetana & Davies, 2000

**Material examined:** Beypınarı 1, 09.XI.2008, (1♂), 21.VI.2009, (1♂), *Pinus nigra*, *Vicia villosa*, pitfall trap; Koçere Stream 1, 19.VII.2009, stream bed, pitfall trap, (1♂); *Abies equi-trojani* Natural Reserve, 18.X.2009, *Abies equi-trojani*, *Digitaria sanguinalis*, pitfall trap, (3♂♂); Koçere Stream 2, 06.IX.2009, (2♂♂), 27.VI.2010, (1♂), *Abies equi-trojani*, *Fagus orientalis*, under stone; Altıparmak, 21.VI.2009, *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap, (1♂); Yedikardeşler, 05.VII.2008, *Abies equi-trojani*, *Pinus nigra*, pitfall trap, (1♂). Totally 11 specimens. **Distribution in the world:** E: GR A: CY IS LE SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Manisa (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

#### *Ocyopus (Pseudocypus) sericeicollis* (Ménétriés, 1832)

**Material examined:** Nanekarı Hill, 06.VI.2009, rocky field, *Sideritis trojana*, aspirator, (1♀), 04.VII.2009, (11♂♂ 13♀♀), 06.IX.2009, (1♂), rocky field, *Sideritis trojana*, pitfall trap; Sarıkız Road, 14.VI.2008, (2♂♂), 05.VII.2008, (1♀), 06.VI.2009, (3♂♂), *Pinus nigra*, pitfall trap, 06.VI.2009, (1♀), 04.VII.2009, (3♂♂ 3♀♀), *Pinus nigra*, under stone; Çeyiz Stream, 31.V.2008, (1♂), 14.VI.2008, (1♂ 1♀), *Abies equi-trojani*, pitfall trap, 31.V.2008, *Abies equi-trojani*, sweeping net, (1♀), 05.VII.2008, *Abies equi-trojani*, bait trap, (1♂); Beypınarı 1, 14.VI.2008, (1♂ 3♀♀), 05.VII.2008, (1♂), 31.VIII.2008, (1♀), 06.VI.2009, (2♂♂ 3♀♀), 21.VI.2009, (9♂♂ 3♀♀), 04.VII.2009, (1♂), 06.IX.2009, (1♀), 18.X.2009, (1♂ 1♀), 23.X.2010, (3♂♂ 3♀♀), *Pinus nigra*, *Vicia villosa*, aspirator; Beypınarı 2, 06.VI.2009, (4♂♂ 1♀), 21.VI.2009, (8♂♂ 3♀♀), *Phaseolus vulgaris*, *Lycopersicon esculentum*, *Capsicum annuum*, pitfall trap; Koçere Stream 1, 21.VI.2009, (2♀♀), 19.VII.2009, (2♂♂ 2♀♀), 06.IX.2009, (4♂♂ 1♀), 18.X.2009, (1♂), 27.VI.2010, (1♀), stream bed, under stone, 27.VI.2010, stream bed, pitfall trap, (3♂♂ 1♀); Büyük Rahat Stream, 21.VI.2009, stream bed, under stone, (1♀); Altıparmak, 02.VI.2009, (3♂♂ 2♀♀), 06.VI.2009, (2♀♀), 21.VI.2009, (3♂♂), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, under stone, 21.VI.2009, (1♂ 1♀), 04.VII.2009, (1♂), *Pinus nigra*, *Anthriscus nemorosa*, *Mentha pulegium*, pitfall trap; Kırlangıç Stream 1, 04.VII.2009, *Quercus* sp., stream bed, sifting, (1♂); Eşek Stream, 18.X.2009, stream bed, under stone, (1♂); Ayı Stream Bridge, 06.IX.2009, *Heracleum platytaenium*, *Urtica urens*, aspirator, (1♂ 1♀); Ayı Stream 2, 09.XI.2008, *Pinus brutia*, *Moenchia mantica* subsp. *mantica*, pitfall trap, (1♀); Yedikardeşler, 31.V.2008, (3♂♂), 31.VIII.2008, (2♀♀), *Abies equi-trojani*, *Pinus nigra*, aspirator, 05.VII.2008, *Abies equi-trojani*, pitfall trap, (5♂♂ 3♀♀); Köprü Stream, 11.VII.2010, stream bed, under stone, (1♀); Kırlangıç Stream 2, 11.VII.2010, stream bed, sifting, (1♂); Havran, Kalabak Village, 10.V.2010, on the ground, aspirator, (1♀). Totally 145

specimens. **Distribution in the world:** E: AB AL AR BE BU FR GB GG GR IT TR A: CY IN SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Ankara, İzmir, Manisa, Şanlıurfa (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

### Genus *Platydracus* Thomson, 1858

#### Subgenus *Platydracus* Thomson, 1858

##### *Platydracus (Platydracus) stercorarius* (Olivier, 1795)

**Material examined:** Beypınarı 1, 13.VIII.2008, (1♀), 06.IX.2009, (3♂♂), *Pinus nigra*, *Vicia villosa*, pitfall trap. Totally 4 specimens. **Distribution in the world:** E: AB AR AU BE BH BU CR CT CZ DE EN FI FR GB GE GG HU IT LA LT LU MC NL NR NT PL PT RO SK SL SP ST SV SZ UK YU A: ES IN KI TM TR WS (Löbl & Smetana, 2004). **Distribution in Turkey:** Rize (İkizdere), Trabzon (Of) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

### Genus *Tasgius* Stephens, 1829

#### Subgenus *Rayacheila* Motschulsky, 1845

##### *Tasgius (Rayacheila) morsitans* (Rossi, 1790)

**Material examined:** *Abies equi-trojani* Natural Reserve, 18.X.2009, *Abies equi-trojani*, *Digitaria sanguinalis*, pitfall trap, (1♂); Çam Çeşme, 06.IX.2009, *Pinus brutia*, *Fagus orientalis*, *Castanea sativa*, pitfall trap, (2♂♂). Totally 3 specimens. **Distribution in the world:** E: AU BE BH BU CR CZ DE FR GB GE GR HU IR IT NL NR PL RO SK SP SV SZ UK YU A: SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Sakarya [Sapanca Lake (=Sabandja)] (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

### Tribe Xantholinini Erichson, 1839

#### Genus *Gauropterus* Thomson, 1860

##### *Gauropterus sanguinipennis* (Kolenati, 1846)

**Material examined:** Koçere Stream 1, 19.VII.2009, stream bed, under stone, (1♂). Totally 1 specimen. **Distribution in the world:** E: AB AR GG GR ST A: IN TM TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Amasya, Ankara, Antalya, Batman, Bayburt, Bilecik, Bingöl, Bitlis, Bursa, Erzurum, Eskişehir, Gaziantep, Hakkari, Hatay, Isparta, İzmir, Kars, Kastamonu, Konya, Malatya, Manisa, Mersin (Bolkar Mountains, Namrun=Çamlıyayla), Muğla, Niğde, Sakarya (Gök Hill), Siirt, Şırnak, Tunceli, Van, Zonguldak (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

### Genus *Gyrophypnus* Leach, 1819

#### Subgenus *Gyrophypnus* Leach, 1819

##### *Gyrophypnus (Gyrophypnus) angustatus* Stephens, 1833

**Material examined:** Ayı Stream 3, 23.X.2010, *Pleurotus* sp., aspirator, (1♂). Totally 1 specimen. **Distribution in the world:** E: AR AU BE BH BU CR CT CZ DE EN FI FR GB GE GG GR HU IC IR IT LA LT MA NL NR PL PT RO SK SL SP ST SV SZ UK YU N: MO MR A: ES TD TR WS NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Amasya, Ankara, Artvin, Aydın, Bayburt, Bitlis, Bolu, Bursa, Erzurum, Giresun, Isparta, İstanbul, İzmir, Kastamonu, Konya, Kütahya, Manisa, Mersin, Ordu, Osmaniye, Rize, Sinop, Zonguldak (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

### Genus *Megalinus* Mulsant & Rey, 1877

##### *Megalinus scutellaris* (Fauvel, 1900)

**Material examined:** Havran, Kalabak Village, 05.XI.2009, on the ground, aspirator, (4♂♂ 3♀♀), Eybek Observation Tower 1, 16.X.2010, *Hydnum repandum*, aspirator, (1♂). Totally 8 specimens. **Distribution in the world:** A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Ankara, Antalya, Çanakkale, Denizli, İzmir, Manisa, Mersin (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

### Genus *Xantholinus* Dejean, 1821

#### Subgenus *Calolinus* Coiffait, 1956

***Xantholinus (Calolinus) rufipennis* Erichson, 1839**

**Material examined:** Havran, Kalabak Village, 05.XI.2009, (5♂♂), 10.V.2010, (1♂), on the ground, aspirator. Totally 6 specimens. **Distribution in the world:** E: AL BH CR GR IT RO A: CY IS LE SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Antalya, Bilecik, Bursa, Çanakkale, Diyarbakır, Gaziantep, Hatay, İstanbul, İzmir, Kahramanmaraş, Kilis, Mardin, Manisa, Mersin, Muğla, Zonguldak (Ereğli, Amaçlar Cave) (Anlaş, 2009). **Remarks:** This species is the first record for Balıkesir fauna.

**RESULTS**

Among the specimens of subfamily Staphylininae, 36 species were identified as belonging to 24 genera and subgenera of 3 tribes. One of them is in tribe Othiini, 31 of them are in tribe Staphylinini, 4 of them are in Xantholinini tribe. Also among the members of tribe Staphylinini, 11 species are in Philonthina, 12 are in Quediina, and 8 are in Staphylinina subtribe. Comparative quantitative distribution of identified species according to tribe and subtribe of Staphylininae subfamily present in Turkey is shown in Table 2. as a result of this study.

Among those, *Q. unicolor* and *Q. henroti* are new records for Turkish fauna. The exact localities of *Q. gemellus*, *Q. nemoralis nemoralis* and *Ocyopus nitens* are given for the first time from Turkey with this study. All of the identified species are also reported for the first time concerning Balıkesir and Kazdağları regional fauna.

The most common and abundant species of the research area are determined as *Ph. concinnus* (267 individuals), *O. sericeicollis* (145 individuals), *Q. levicollis* (103 individuals), *Ph. nitidicollis* (99 individuals), *O. curtipennis* (94 individuals), *Ph. debilis* (80 individuals) and *Ph. cognatus* (78 individuals). Only one specimen was collected from the species *Q. brevis*, *Q. unicolor* and *G. sanguinipennis*.

During the study respectively 42.03 % (446 individual) of the samples were collected by hand under the stones; 41.94 % (445 individual) by pitfall trap; 7.63 % (81 individual) by sifting; 1.60 % (17 individual) by sweeping net and 1.03 % (11 individuals) by bait traps. Additionally 5.77 % (61 individuals) of the specimens were collected from under barks, vegetation surfaces, carcasses, cow dung and decomposing mushrooms. Hibernation traps were found to be unsuccessful in collecting samples.

**ACKNOWLEDGEMENTS**

The authors would like to thank Dr. Volker ASSING (Hannover, Almanya), Dr. Eduard KHACHIKOV (Rostova, Rusya) and PhD. Assist. Prof. Sinan ANLAŞ (Celal Bayar University, Turkey) for the identification and confirmation of the specimens. We are most grateful to Prof. Dr. Güleendam TÜMEN (Balıkesir University) for the identification of the plant specimens and Survey Engineer M.Sc. Tuna EROL (Yıldız Technical University, Turkey) for drawing of map. Finally many thanks to Balıkesir University for the Research Fund as financial support of this project (2010/41).

**LITERATURE CITED**

- Anlaş, S.** 2007. The present situation of the Staphylinidae fauna of Turkey (Coleoptera). Linzer Biol. Beitr., 39: 5-9.
- Anlaş, S.** 2009. Distributional checklist of the Staphylinidae (Coleoptera) of Turkey, with new and additional records. Linzer Biol. Beitr., 41 (1): 215-342.
- Assing, V.** 2009. On the *Leptusa* species of Turkey. VII. Notes on distribution, a new species, a new synonymy, and additional records (Coleoptera: Staphylinidae: Aleocharinae). Linzer Biol. Beitr., 41 (1): 427-436.
- Assing, V.** 2009a. A revision of *Geostiba* of the Western Palaearctic region. XIX. new species from Turkey and Iran and additional records, with an updated key and a catalogue of the species of the Eastern

Mediterranean, the Caucasus, and adjacent regions (Coleoptera: Staphylinidae: Aleocharinae). Linzer Biol. Beitr., 41 (2): 1191-1246.

**Assing, V.** 2009b. New species, new synonymies, and additional records of *Leptusa* from Turkey and Iran (Col.: Staphylinidae: Aleocharinae). Linzer Biol. Beitr., 41 (2): 1285-1305.

**Assing, V.** 2009c. On the Staphylinidae of Turkey VI. Thirteen new species and additional records (Coleoptera: Staphylinidae). Koleopterologische Rundschau, 79: 117-172.

**Assing, V.** 2010. A revision of *Geostiba* of the Western Palearctic region. XX. Four new species from Turkey and Albania and additional records (Coleoptera: Staphylinidae: Aleocharinae). Linzer Biol. Beitr., 42 (2): 1125-1138.

**Assing, V.** 2010a. A revision of *Leptobium* Casey. VII. Two new species from Turkey and Spain and additional records (Coleoptera: Staphylinidae: Paederinae). Linzer Biol. Beitr., 42 (2): 1037-1043.

**Assing, V.** 2010b. Two new species of *Tetartopeus* from Turkey (Coleoptera: Staphylinidae: Paederinae). Linzer Biol. Beitr., 42 (2): 1063-1071.

**Assing, V.** 2010c. On the Staphylinidae of Turkey VII. Five new species and additional records (Coleoptera: Staphylinidae). Koleopterologische Rundschau, 80: 71-102.

**Bernhauer, M.** 1927. Neue Staphyliniden des paläarktischen Faunengebietes. Koleopterologische Rundschau, 13: 90-99.

**Bernhauer, M.** 1935. Neuheiten der paläarktischen Staphylinidenfauna. Koleopterologische Rundschau, 21: 39-48.

**Bernhauer, M.** 1936. Neuheiten der paläarktischen Staphylinidenfauna. III. Koleopterologische Rundschau, 22: 50-58.

**Bernhauer, M. & Scheerpeltz, O.** 1926. Staphylinidae VI. In: Coleopterorum Catalogus. S. Schenckling (ed.) Pars 82. Junk Publ. 499-988.

**Bernhauer, M. & Schubert, K.** 1910, 1911, 1912, 1914, 1916. Staphylinidae I-II-III-IV-V.- In: Coleopterorum Catalogus. S. Schenckling (ed.) Pars 19, 29, 40, 57, 67. Junk Publ. 1-498.

**Blackwelder, R. E.** 1936. Morphology of the Coleopterous Family Staphylinidae. Smithsonian Miscellaneous Collections, 94 (13): 1-102.

**Boháč, J.** 1982. The larval characters of Czechoslovak species of the genera *Abemus*, *Staphylinus* and *Ocypus*. Studie CSAV. Praha. 96 pp.

**Boháč, J.** 2007. 22nd International Meeting on Biology and Systematics of Staphylinidae. Staatliches Museum für Naturkunde Stuttgart (Germany), 19: 4.

**Bordoni, A.** 1971. Note sugli Xantholinus della Turchia e descrizione di una nuova specie (Col. Staphylinidae). Redia, 52: 679-9.

**Bordoni, A.** 1973. Nuovi stafilinidi della Turchia appartenenti al Museo Civico di Storia Naturale di Verona (Coleoptera). Fragmenta Entomologica, 9 (1): 35-39.

**Bordoni, A.** 1973a. Notes sur les *Xantholinus* de Roumanie et description de nouvelles espèces (Col. Staphylinidae). Analele Științifice ale Universității "Al. I. Cuza" din Iași. Biologie. 19: 149-157.

**Bordoni, A.** 1973b. Nuove specie di Xantholininae della Turchia e del Libano (Coleoptera, Staphylinidae). Fragmenta Entomologica, 9 (3): 179-194.

**Bordoni, A.** 1999. Una nuova specie di *Deliphrosoma* della Turchia (Coleoptera, Staphylinidae). Fragmenta Entomologica, 31 (2): 195-203.

**Bordoni, A.** 2000. *Deliphrosoma lothari* sp.n. della Turchia N-orientale (Coleoptera, Staphylinidae). Beiträge zur Entomologie, 50 (2): 265-269.

**Bordoni, A.** 2003. Una nuova specie di *Gyrophypnus* dell'Asia Minore. (Coleoptera, Staphylinidae). Boll. soc. entomol. ital., 134 (3): 229-232.

- Coiffait, H.** 1972. Coléoptères Staphylinidae de la région paléarctique occidentale I. Généralités, Sousfamilles: Xantholininae et Leptotyphlinae, Supplément à la Nouvelle Revue d'Entomologie. Supplément, 2 (2): 1-651.
- Coiffait, H.** 1974. Coléoptères Staphylinidae de la région paléarctique occidentale. II. Sous famille Staphylininae [sic] Tribus Philonthini et Staphylinini. Supplément à la Nouvelle Revue d'Entomologie, 4 (4): 1-593.
- Coiffait, H.** 1978. Coléoptères staphylinides de la région paléarctique occidentale III. Sous famille Staphylininae, Tribu Quediini. Sous famille Paederinae, Tribu Pinophilini. Nouvelle Revue d'Entomologie, 8: 1-364.
- Ganglbauer, L.** 1905. Coleoptera, Ergebnisse einer naturwissenschaftlichen Reise zum Erdschas-Dagh (Kleinasien), Penther A., Zederbauer E., Annalen des k.k. Naturhistorischen Hofmuseums, 20: 99-464.
- Herman, L. H.** 2001. Catalog of the Staphylinidae (Insecta: Coleoptera). 1758 to the end of the second millennium. Volumes I-VII. Bulletin of the American Museum of Natural History, 265: 1-4218.
- Khachikov, E. A.** 2005. New species of rove-beetles (Coleoptera, Staphylinidae) from the Southern Russia. Caucasian Entomol. Bull., 1 (2): 119-122.
- Khachikov, E. A.** 2006. Novye dannye po morfologii i taksonomii nekotorykh vidov podsemeystva Staphylininae (Coleoptera, Staphylinidae). [New data on the morphology and taxonomy of some species of the subfamily Staphylininae (Coleoptera: Staphylinidae).] 6 pp. Caucasian Entomol. Bull., 2 (2): 177-182.
- Khachikov, E. A.** 2007. Novyj vid roda Siagonium Kirby et Spence, 1815 (Coleoptera, Staphylinidae) iz Kitaja. [A new species of the genus Siagonium Kirby et Spence, 1815 (Coleoptera, Staphylinidae) from China]. Caucasian Entomol. Bull., 3 (2): 102-103.
- Lodos, N.** 1989. Türkiye Entomolojisi IV, Genel Uygulamalı ve Faunistik. Ege Üniversitesi Ziraat Fakültesi Ofset Basım Evi. Bornova, İzmir. 250 pp.
- Lohse, G. A.** 1964. Staphylinidae I. (Micropeplinae bis Tachyporinae). In H. Freude, K. Harde and G. Lohse, Die Käfer Mitteleuropas. Krefeld: Goecke & Evers. 4: 1-264.
- Löbl, I. & Smetana, A.** 2004. Subfamily Staphylininae Catalogue of Palaearctic Coleoptera. Hydrophiloidea, Histeroidea, Staphyliinoidea. Apollo Books. Volume 2, 698 pp.
- Naomi, S.** 1987. Comparative morphology of the Staphylinidae and the allied groups (Coleoptera, Staphyliinoidea). I. Introduction, head sutures, eyes and ocelli. Kontyu Japanese Journal of Entomology, 55 (3): 450-458.
- Naomi, S.** 1987a. Comparative morphology of the Staphylinidae and the allied groups (Coleoptera, Staphyliinoidea). II. Cranial structure and tentorium. Kontyu Japanese Journal of Entomology, 55 (4): 666-675.
- Newton, A.** 1990. Insecta: Coleoptera. Staphylinidae. Adults and larvae. Soil Biology Guide. In D. Dindal (ed.). 1137-1174.
- Paulian, R.** 1941. Les premiers états des Staphylinoides (Coleoptera) étude de morphologie comparée. Mémoires du Muséum National d'Histoire Naturelle (n. sér.), 15: 1-361.
- Pototskaya, V. A.** 1967. Identification Key to larvae Staphylinidae of the European part of the USSR. Izdatel'stvo Nauka. Moskow. 120 pp.
- Sahlberg, J.** 1912-1913. Coleoptera mediterranea orientalia, quae in Aegypto, Palaestina, Syria, Caramanis atque in Anatolia occidentali anno 1904 collegerunt John Sahlberg et Unio Saalas. Öfversigt af Finska Vetenskaps Societetens Förhandlingar, 60 (13): 127-132.
- Scheerpeltz, O.** 1933. Staphylinidae VII. In S. Schenkling (ed.), Coleopterorum Catalogus. Berlin: Junk. 6 (129): 989-1500.
- Scheerpeltz, O.** 1934. Staphylinidae VIII. In S. Schenkling (ed.), Coleopterorum Catalogus. Berlin: Junk. 6 (130): 1501-1881.

- Schillhammer, H.** 2007. First record of *Gabrius* from Laos with description of a new species. *Entomological Problems*, 37 (1): 77-78.
- Schillhammer, H.** 2008. New species and records of *Algon Sharp*. *Koleopterologische Rundschau*, 78: 233-240.
- Schillhammer, H.** 2009. Notes on some West Palaearctic Staphylinini, with description of a new species from Spain. *Koleopterologische Rundschau*, 79: 97-116.
- Schillhammer, H. Snäll, S. Coskun, M. & Jansson, N.** 2007. The West Palaearctic species of *Hesperus* Fauvel 1874 with descriptions of three new species from Turkey (Coleoptera: Staphylinidae: Staphylininae). *Koleopterologische Rundschau*, 77: 123-132.
- Smetana, A.** 1958. *Drabčícoviti-Staphylinidae I. Staphylininae*, (Rád: Brouci-Coleoptera). *Fauna ČSR* 12., NČSAV, Praha. 435 pp.
- Smetana, A.** 1967. Wissenschaftliches Ergebnis der zoologischen Expedition des Nationalmuseum in Prag nach der Türkei. Coleoptera-Staphylinidae, Subfam. Oxytelinae. *Acta Entomologica Musei Nationalis Pragae*, 37: 297-324.
- Smetana, A.** 1967a. Wissenschaftliches Ergebnis der zoologischen Expedition des Nationalmuseum in Prag nach der Türkei. Coleoptera-Staphylinidae, Subfam. Staphylininae. *Acta Entomologica Musei Nationalis Pragae*, 37: 551-564.
- Smetana, A.** 1968. Zur Kenntnis der *Staphylinus* and *Ocypus* Arten Anatoliens (Coleoptera, Staphylinidae). *Acta Faunistica Entomologica Musei Nationalis Pragae*, 13: 155-161.
- Smetana, A.** 1968a. Einige *Staphylinus* und *Ocypus* Arten aus Anatolien (Col., Staphylinidae). *Acta Rerum Naturalium Musei Nationalis Slovaci Bratislava*, 14 (2): 87-90.
- Smetana, A.** 1977. New and interesting *Gabrius*, *Rabigus* and *Philonthus* from Turkey (Coleoptera, Staphylinidae). *Revue suisse de Zoologie*, 84 (4): 791-797.
- Solodovnikov, A.Y.** 2004. Taxonomy and faunistics of some West Palaearctic *Quedius* Stephens subgenus *Raphirus* Stephens (Coleoptera, Staphylinidae, Staphylininae). *Koleopt. Rdsch.*, 74: 221-243.
- Solodovnikov, A.Y.** 2005. New and little known species of *Quedius* from West Palaearctic (Coleoptera, Staphylinidae, Staphylininae). *Zootaxa*, 902: 1-13.
- Stanic, B.** 1999. A description of the pupa of *Philonthus succicola* Thomson, 1860 (Coleoptera: Staphylinidae). *Polskie Pismo Entomologiczne*, 68: 41-46.
- Stanic, B.** 1999a. A description of the pupae of *Quedius fumatus* (Stephens), *Q. humeralis* Stephens, *Q. mesomelinus* (Marsham) and *Q. fuliginosus* (Gravenhorst) (Coleoptera: Staphylinidae: Staphylininae). *Genus*, 10 (1): 47-57.
- Stanic, B.** 2002. A description of the pupae of *Philonthus albipes* (Gravenhorst, 1802) and *Ph. varians* (Paykull, 1789) (Coleoptera: Staphylinidae: Staphylininae), 13 (3): 337-343.
- Stanic, B.** 2004. The pupae of *Ontholestes murinus* (Linnaeus, 1758), *Philonthus rectangulus* Sharp, 1874 and a supplement to the pupal morphology of *Philonthus succicola* Thomson, 1860 (Coleoptera: Staphylinidae), 15 (1): 37-46.
- Stanic, B. & Pietrykowska-Tudruj, E.** 2008. Morphology of developmental stages of *Philonthus fumarius* (Gravenhorst, 1806) (Coleoptera, Staphylinidae) with notes on biology. *Acta Zoologica Academiae Scientiarum Hungaricae*, 54 (3): 213-234.
- Stanic, B. & Pietrykowska-Tudruj, E.,** 2009. Immature stages of *Rabigus tenuis* (Fabricius, 1792) (Coleoptera, Staphylinidae, Staphylininae) with observations on its biology and taxonomic comments. *Belg. J. Zool.*, 139 (1): 22-39.
- Tezcan S. & Amiryan, J.** 2003. The rove beetles (Coleoptera, Staphylinidae) of the ecologically managed cherry orchards of western Turkey. Materials of the IV. Republican youth scientific conference, Urban ecology issues, 83-92, Armenia.
- Tikhomirova, A. L.** 1973. Morphological and ecological features and phylogenesis of Staphylinidae. (Morfoekologicheskie osobennosti i filogenez stafilinid). *Nauka Publ. Moscow*, 5-191.

**Topp, W.** 1978. Bestimmungstabelle für die Larven der Staphylinidae. In: Klausnitzer, B. (ed.) Ordnung Coleoptera (Larven). Bestimmungsbücher zur Bodenfauna Europas. Akademie Verlag, Berlin. Band 10, 304-334.

Table 1. Detailed information of sampling localities.

No	Locality	Coordinate	Altitude	No	Locality	Coordinate	Altitude
1	Sarıköz Hill	26°52'28" E / 39°41'30" N	1720 m.	17	Eşek Stream	26°57'09" E / 39°40'39" N	520 m.
2	Nanekarı Hill	26°52'52" E / 39°42'03" N	1649 m.	18	Ayı Stream Bridge	26°56'15" E / 39°41'17" N	580 m.
3	Sarıköz Road (Çeyiz Stream)	26°53'07" E / 39°42'12" N	1576 m.	19	Ayı Stream 2	26°56'29" E / 39°41'32" N	588 m.
4	Levent Boğazı	26°52'09" E / 39°43'28" N	1367 m.	20	Eğrisu Stream	26°58'20" E / 39°40'25" N	231 m.
5	Beypınarı 1	26°54'37" E / 39°44'29" N	1300 m.	21	Gıldurdak Stream (Kirse Area 1)	26°59'03" E / 39°41'26" N	525 m.
6	Beypınarı 2	26°54'36" E / 39°44'27" N	1294 m.	22	Bozdere (Kirse Area 2)	26°59'28" E / 39°41'55" N	479 m.
7	Koçere Stream 1	26°56'42" E / 39°45'55" N	1252 m.	23	Bozdere (Kirse Area 3)	26°59'37" E / 39°42'02" N	497 m.
8	Büyük Rahat Stream (Kocarahat Stream)	26°55'29" E / 39°44'06" N	1243 m.	24	Çamçeşme Stream	26°59'42" E / 39°42'11" N	500 m.
9	<i>Abies equi-trojani</i> Natural Reserve	26°57'12" E / 39°45'47" N	1376 m.	25	Söbüyurt 1	26°54'12" E / 39°42'48" N	1220 m.
10	Koçere Stream 2	26°56'36" E / 39°45'16" N	1218 m.	26	Şahmelik Area	26°59'06" E / 39°43'35" N	1140 m.
11	Altıparmak (Pazareğrek)	26°53'59" E / 39°44'06" N	1146 m.	27	Darıdere	26°41'35" E / 39°38'30" N	633 m.
12	Kırlangıç Stream 1	26°45'42" E / 39°39'50" N	1120 m.	28	Darıdere Road 2. Stream	26°41'17" E / 39°38'17" N	621 m.
13	Çamçeşme	26°57'37" E / 39°43'56" N	996 m.	29	Domuz Çukuru Road 1	26°42'21" E / 39°40'07" N	652 m.
14	Çamçeşme Stream	26°57'29" E / 39°43'51" N	949 m.	30	Domuz Çukuru Road 2 (Karababa Stream)	26°43'35" E / 39°41'02" N	822 m.
15	Şahmelik	26°58'10" E / 39°43'42" N	941 m.	31	Domuz Çukuru Road 3	26°44'01" E / 39°41'35" N	883 m.
16	Ayı Stream 1	26°56'29" E / 39°41'28" N	582 m.	32	Küçük Stream 1 (Between Kırlangıç and Domuz Çukuru)	26°44'19" E / 39°40'17" N	851 m.



Table 1. Continued.

No	Locality	Coordinate	Altitude	No	Locality	Coordinate	Altitude
33	Küçük Stream 2 (Between Kırlangıç and Domuz Çukuru)	26°44'27" E / 39°40'56" N	851 m.	48	Gelin Rivulet (Hacıarslanlar- Dereyurt)	27°09'09" E / 39°41'31" N	685 m.
34	Hacımevlüt Çeşmesi Road	26°45'03" E / 39°42'19" N	1002 m.	49	Eybek Observation Tower 1	27°08'36" E / 39°41'43" N	762 m.
35	Yedikardeşler	26°57'09" E / 39°46'29" N	1300 m.	50	Eybek Observation Tower 2	27°08'36" E / 39°41'35" N	743 m.
36	Köprü Stream (Avcılar-Kızıtaş)	26°48'53" E / 39°40'51" N	1116 m.	51	Hanlar Üstü	27°09'37" E / 39°42'02" N	800 m.
37	Padişah Pınarı	26°48'45" E / 39°41'27" N	1203 m.	52	Yaşyer 1	27°04'20" E / 39°40'10" N	322 m.
38	Kırlangıç Stream 2	26°46'78" E / 39°41'50" N	1205 m.	53	Yaşyer 2	27°04'03" E / 39°40'22" N	396 m.
39	Dereçatı 1 (Çatal Oluk)	26°46'24" E / 39°38'92" N	600 m.	54	Yaşyer 3	27°03'57" E / 39°40'23" N	446 m.
40	Dereçatı 2 (Drinking water)	26°46'58" E / 39°38'76" N	745 m.	55	Yaşyer Stream 4	27°03'41" E / 39°40'31" N	453 m.
41	Kırlangıç Stream 1	26°46'84" E / 39°41'23" N	1161 m.	56	Musa Hill	27°02'12" E / 39°40'14" N	455 m.
42	Ayı Stream Road	26°55'44" E / 39°42'07" N	785 m.	57	Tahta Köprü Stream	27°01'32" E / 39°40'07" N	287 m.
43	Ayı Stream 3	26°55'22" E / 39°42'48" N	790 m.	58	Şefin Çeşmesi	27°00'53" E / 39°39'59" N	297 m.
44	Söbüyurt 2	26°54'40" E / 39°43'08" N	1130 m.	59	Dalak Suyu Area	26°58'15" E / 39°46'16" N	1325 m.
45	Kavakardı	26°54'59" E / 39°42'53" N	1134 m.	60	Karaçam Observation Tower	26°43'59" E / 39°39'12" N	1237 m.
46	Karayaprak Stream (Eybek Hill)	27°06'00" E / 39°40'19" N	381 m.	61	Havran - Kalabak Village	27°12'25" E / 39°40'39" N	215 m.
47	Kapanca Stream	27°09'49" E / 39°41'17" N	688 m.				

Table 2. Comparative quantitative distribution of identified species according to tribe and subtribe of Staphylininae present in Turkey with the completion of this study (Anlaş, 2009).

Tribe / Subtribe	Number of species in Turkey	Number of species collected in this study
Diachini Casey, 1906	2	-
Othiini Thomson, 1859	10	1
Platyprosopini Lynch Arribálzaga, 1884	1	-
Staphylinini Latreille, 1802	(272)	(31)
Philonthina Kirby, 1837	115	11
Quediina Kraatz, 1857	90	12
Staphylinina Latreille, 1802	67	8
Xantholinini Erichson, 1839	61	4
<b>Total</b>	<b>346</b>	<b>36</b>

Table 3. The status of collecting material for the years 2008-2010.

Tribe / Subtribe	Species	2008	2009	2010	
<b>Xantholinini</b>	<i>Xantholinus rufipennis</i>	-	+	+	
	<i>Gyrophypus angustatus</i>	-	-	+	
	<i>Megalinus scutellaris</i>	-	+	+	
	<i>Gauropterus sanguinipennis</i>	-	+	-	
<b>Othiini</b>	<i>Othius laeviusculus</i>	-	-	+	
<b>Staphylinini / Philonthina</b>	<i>Gabrius anatolicus</i>	-	+	+	
	<i>Gabrius astutus</i>	+	+	+	
	<i>Philonthus cognatus</i>	+	+	-	
	<i>Philonthus concinnus</i>	+	+	+	
	<i>Philonthus coprophilus</i>	-	-	+	
	<i>Philonthus corruscus</i>	+	+	+	
	<i>Philonthus cruentatus</i>	-	+	+	
	<i>Philonthus debilis</i>	+	+	-	
	<i>Philonthus intermedius</i>	+	+	+	
	<i>Philonthus nitidicollis</i>	+	+	+	
	<i>Philonthus rufimanus</i>	-	+	-	
	<b>Staphylinini / Quediina</b>	<i>Quedius levicollis</i>	+	+	+
		<i>Quedius unicolor</i>	-	+	-
		<i>Quedius brevis</i>	-	-	+
<i>Quedius cruentus</i>		+	-	-	
<i>Quedius fissus</i>		-	-	+	
<i>Quedius lateralis</i>		-	+	+	
<i>Quedius acuminatus</i>		-	-	+	
<i>Quedius gemellus</i>		-	+	+	
<i>Quedius henroti</i>		-	+	+	
<i>Quedius nemoralis nemoralis</i>		-	+	+	
<i>Quedius semiobscurus</i>	+	+	-		
<i>Velleius dilatatus</i>	+	-	-		
<b>Staphylinini / Staphylinina</b>	<i>Creophilus maxillosus</i>	-	-	+	
	<i>Platydracus stercorarius</i>	+	+	-	
	<i>Tasgius morsitans</i>	-	+	-	
	<i>Ocypus nitens</i>	+	+	-	
	<i>Ocypus mus</i>	-	-	+	
	<i>Ocypus orientis</i>	+	+	+	
	<i>Ocypus sericeicollis</i>	+	+	+	
	<i>Ocypus curtipennis</i>	+	+	+	
	<b>Total number of species</b>	<b>16</b>	<b>26</b>	<b>25</b>	

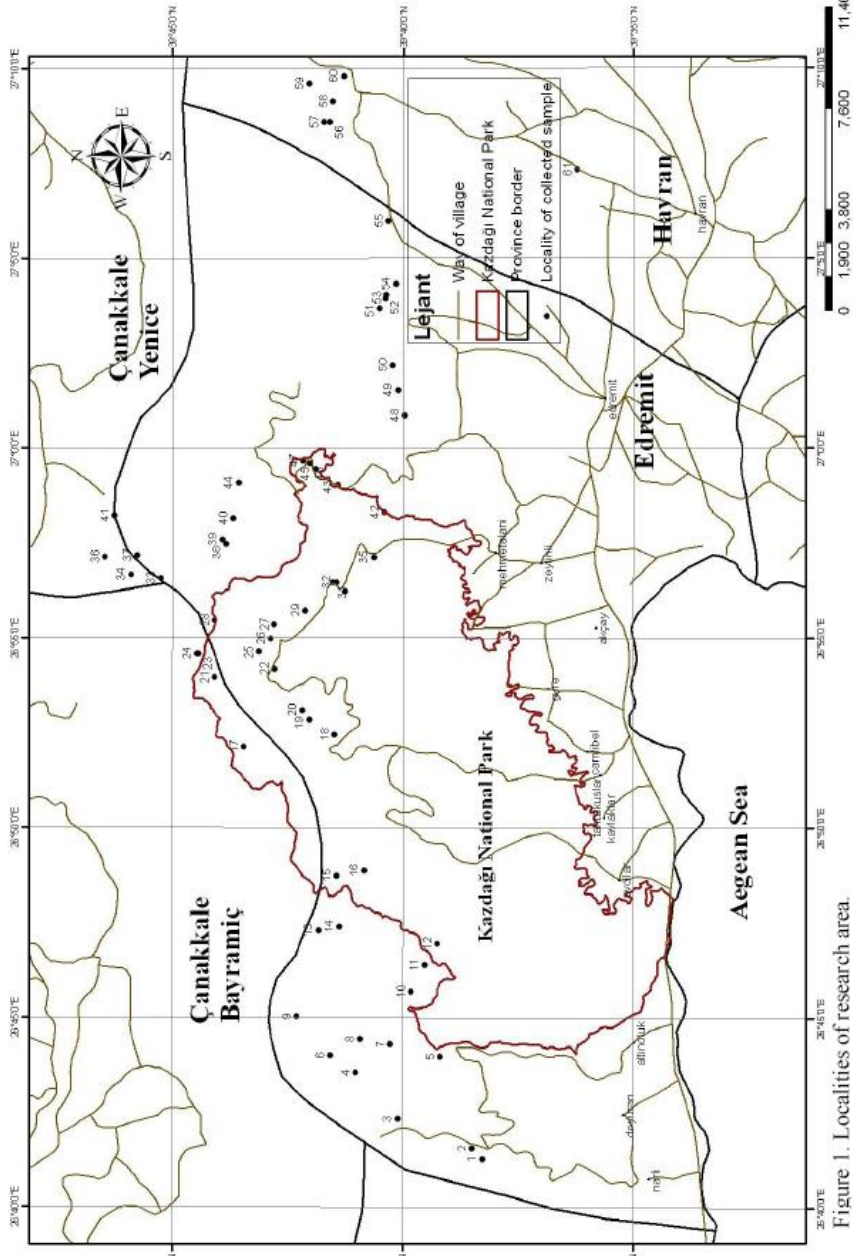


Figure 1. Localities of research area.