

FAUNISTIC STUDIES ON PAEDERINAE (COLEOPTERA: STAPHYLINIDAE) IN MANİSA PROVINCE, TURKEY*

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ABSTRACT: In this study, fauna of Paederinae from Manisa province of Turkey were studied and 35 species belonging to 16 genera were recorded. *Achenium depressum* (Gravenhorst, 1802) and *Pseudolathra tennenbaumi* (Bernhauer, 1932) are recorded from Turkey for the first time. *Leptobium bozdaghense* Assing, 2006; *Scopaeus alaniensis* Coiffait, 1969 and *Sunius pinnatus* Assing, 2006 represented the first record since the description of the species. All species except for *Medon fuscus* (Mannerheim, 1830), *Sunius pinnatus* Assing, 2006 and *Scopaeus cameroni* Coiffait, 1968 were recorded for the first time in Manisa.

KEY WORDS: Paederinae, Staphylinidae, new records, fauna, Manisa, Turkey.

Staphylinidae comprises 3845 genera and 45.707 species worldwide, 1520 of which occur in Turkey (Herman, 2001; Anlaş, 2007). Paederinae is one of the biggest subfamilies of Staphylinidae. A total of 5962 species to 225 genera were recorded in the world (Herman, 2001). Approximately 200 species are currently known from Turkish territory. The subfamily is distributed worldwide and is found in practically all types of ecosystems. Most species appear to be predators.

The fauna of Paederinae of Manisa has been poorly studied. Four species of Paederinae have been recorded from the studied region in the following published works: Frisch (2002), Assing (2004, 2006c).

The aim of this study was to make a contribution to fauna of Paederinae of Manisa and Turkey.

MATERIAL AND METHODS

The material for this study was collected by the first author from different localities in Manisa province (Map 1) between the dates of 2005, March and 2007, August. Materials have been deposited in the Ege University Zoological Museum (=ZDEU-Ent) İzmir, Turkey.

Classification and nomenclature of the subfamily Paederinae suggested by Löbl & Smetana (2004) have been followed in this study.

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 Tadjikistan, 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

In this study, fauna of Paederinae from Manisa Province of Turkey were studied and 35 species belonging to 16 genera were recorded.

Tribe Paederini Fleming, 1821

Subtribe Astenina Hatch, 1957

Genus *Astenus* Dejean, 1833

Astenus lyonessius (Joy, 1908)

Material examined: **Ahmetli:** Yeniköy, 1 ex., 15.IV.2006. **Merkez:** Sakallı, 3 km S, 1 ex., 22.IV.2005. **Distribution in the world:** **E:** AZ BE CZ DE FI FR GB GE GR HU IR IT LT MA PL SK SP ST SV SZ **N:** AG MO MR **A:** TR (Löbl & Smetana, 2004). **Distribution in Turkey:** No locality cited.

Astenus melanurus (Küster, 1853)

Material examined: **Merkez:** Gökçeler, 1 ex., 08.II.2007. **Salihli:** Karaağaç, 2 exs., 04.VII.2006. **Sarıgöl:** Yeniköy, 1 ex., 12.VI.2005. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 08.I.2007; same data, 1 ex., 10.I.2007. **Distribution in the world:** **E:** CR FR GR IT MA PT SK SP **N:** AG EG LB MO TU **A:** CY IN TR UP **AFR ORR** (Löbl & Smetana, 2004). **Distribution in Turkey:** No locality cited.

Astenus procerus (Gravenhorst, 1806)

Material examined: **Demirci:** Irişler, 3 km SE, Büyükkır Tepesi, 1700 m, 1 ex., 15.IV.2006. **Distribution in the world:** **E:** AB AU BE BH BU CR CT CZ DE FI FR GB GG GR HU IT LA LT MA MC NL NR PL PT RO SK SL ST SV SZ UK YU **N:** AG EG MO **A:** CY LE TD TR UZ (Löbl & Smetana, 2004). **Distribution in Turkey:** Izmir (Sahlberg, 1913).

***Astenus thoracicus* (Baudi di Selve, 1857)**

Material examined: Ahmetli: Çaypınar, 1 ex., 14.IV.2006. **Akhisar:** Morahlılar, 3 km SW, 1 ex., 05.IX.2005. **Demirci:** Bardakçı, Türkmen Dağı, 1700 m, 2 exs., 15.IV.2006. **Köprübaşı:** Yenice, 1 km NW, 1 ex., 11.VI.2005. **Kula:** Çarıkmahmutlu, 1 ex., 15.IX.2006; Eroğlu, 2 km S, 1 ex., 15.IX.2006. **Merkez:** Gökçeler, 1 ex., 08.II.2007; Karakoca, 1 ex., 23.XII.2006; Spil Dağı, 38° 33' 44"N, 27° 23' 10"E, 1100 m, 4 exs., 24.VI.2006; same data, 1 ex., 30.IX.2006; Yenice, 1 ex., 09.X.2005. **Salihli:** Bektaşlar, 1 ex., 22.X.2006. **Selendi:** Çortak, 2 exs., 06.I.2007. **Turgutlu:** Baktırlı, 1 ex., 08.VI.2006; Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 20.III.2006. **Distribution in the world:** E: AB GG GR IT A: CY SY TR UZ (Löbl & Smetana, 2004). **Distribution in Turkey:** Izmir (Sahlberg, 1913).

Subtribe Cryptobiina Casey, 1905**Genus *Ochtheophilum* Stephens, 1829*****Ochtheophilum fracticorne* (Paykull, 1800)**

Material examined: Turgutlu: Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 31.VII.2007. **Distribution in the world:** E: AL AU BE BU CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LT NL NR NT PL SK SL SP ST SV SZ UK YU N: AG LB TU A: CY ES FE IN KZ SY TR UZ WS NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Izmir (Tezcan & Amiryran, 2003).

Subtribe Dolicaonina Casey, 1905**Genus *Leptobium* Casey, 1905*****Leptobium assingi* Bordoni, 1994**

Material examined: Gölarmara: Beyler, 4 exs., 18.XI.2006. **Gördes:** Korubaşı, 5 exs., 18.XI.2006. **Distribution in the world:** TR (Löbl & Smetana, 2004; Assing, 2005d). **Distribution in Turkey:** Antakya, Antalya, Gaziantep, Kahramanmaraş (Assing, 2005d).

***Leptobium bozdaghense* Assing, 2006**

Material examined: Ahmetli: Yeniköy, 2 exs., 14.IV.2006. **Turgutlu:** Baktırlı, 3 exs., 11.III.2007; Bozkır, 3 exs., 02.II.2007; Çıkrıkçı, ca38° 28'N, 27° 49'E, 300 m, 1 ex., 20.II.2006; 3 exs., 26.II.2007; Ovacık Yaylası, 2 km W, ca38° 21'N, 27° 51'E, 1000 m, 1 ex., 11.III.2007; Sivrice, 1 ex., 04.III.2006. **Distribution in the world:** TR (Assing, 2006a). **Distribution in Turkey:** Izmir (Assing, 2006a). **Remarks:** Previously, only the holotype of this recently described species was known.

***Leptobium gracile* (Gravenhorst, 1802)**

Material examined: Demirci: Bardakçı, Türkmen Dağı, 1700 m, 25 exs., 15.IV.2006. **Soma:** Hamidiye, 39° 16' 39"N, 27° 45' 50"E, 827 m, 29 exs., 08.IV.2007. **Distribution in the world:** E: AL AU BH BU CR CT CZ FR GE GG GR HU IT PL PT RO SK SL SP ST TR UK YU N: AG MO TU A: CY IN IS TR UZ (Löbl & Smetana, 2004; Assing, 2005d). **Distribution in Turkey:** Adana, Adıyaman, Ankara, Antalya, Balıkesir, Bilecik, Burdur, Bursa, Çankırı, Diyarbakır, Erzincan, Erzurum, Eskişehir, Giresun, Gümüşhane, Hakkari, Isparta, İstanbul, Izmir, Kayseri, Konya, Malatya, Muğla, Samsun, Sivas, Van (Assing, 2005d).

Subtribe Lathrobiina Laporte, 1835**Genus *Achenium* Leach, 1819*****Achenium depressum* (Gravenhorst, 1802)**

Material examined: Demirci: Bardakçı, Türkmen Dağı, 1700 m, 7 exs., 15.IV.2006. **Distribution in the world:** E: AU BE FR GB GE LU NL PL PT RO SP SZ UK (Löbl &

Smetana, 2004). **Remarks:** This species is widely distributed in Europe, but had not been reported from Turkey (Löbl & Smetana, 2004).

***Achenium scimbalooides* Koch, 1937**

Material examined: Soma: Hamidiye, 39° 16' 39"N, 27° 45' 50"E, 827 m, 9 exs., 08.IV.2007. **Distribution in the world: E:** BU GR **A:** TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Çanakkale (Koch, 1937; Coiffait, 1984).

Genus *Domene* Fauvel, 1873

***Domene stilicina* (Erichson, 1840)**

Material examined: Merkez: Bağyolu, 1 ex., 09.X.2005. **Salihli:** Allahdiyen, 1 ex., 27.I.2007. **Selendi:** Pınarlar, 1 ex., 20.V.2007. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 02.I.2006; Ovacık Yaylası, 38° 21' 49"N, 27° 51' 00"E, 1025 m, 1 ex., 04.III.2006. **Distribution in the world: E:** AL GR IT MA **N:** EG LB TU **A:** CY IS JO LE SY TR (Löbl & Smetana, 2004). **Distribution in Turkey:** No locality cited.

Genus *Lobrathium* Mulsant & Rey, 1878

***Lobrathium rugipenne* (Hochhuth, 1851)**

Material examined: Akhisar: Gökçeler, 1,5 km SE, 1 ex., 04.IX.2005; Yeğenoba, 3 exs., 16.XII.2006. **Alaşehir:** Karadağ-Bozdağlar, 1 ex., 01.IV.2006; Kestanederesi, 4 exs., 21.X.2006. **Demirci:** Ören, 1 ex., 16.IV.2006. **Merkez:** Bağyolu, 1 ex., 09.X.2005; Spil Dağı, 38° 33' 44"N, 27° 23' 10"E, 1100 m, 3 exs., 24.IV.2006. **Selendi:** Eskin, 1 ex., 20.V.2006; Pınarlar, 2 exs., 20.V.2006. **Soma:** Yağcılı, 2 exs., 08.IV.2007. **Turgutlu:** Bakırlı, 4 exs., 08.VI.2006; Çatalköprü, 1 ex., 05.VIII.2005; Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 03.V.2005; same data, 1 ex., 12.V.2005; 3 exs., 24.V.2005; 6 exs., 02.VI.2005; 1 ex., 14.VI.2005; 1 ex., 26.VI.2005; 1 ex., 12.X.2005; 1 ex., 12.IV.2006; 4 exs., 25.IV.2006; Ovacık Yaylası, 38° 21' 49"N, 27° 51' 00"E, 1025 m, 3 exs., 14.VII.2007. **Distribution in the world: E:** AL AR BU GG GR ST YU **A:** TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Afyonkarahisar, Antakya, Antalya, Artvin, Burdur, Erzurum, Gümüşhane, İzmir, Muğla, Rize, Zonguldak (Assing, 2007).

Genus *Pseudobium* Mulsant & Rey, 1878

***Pseudobium anaticum* Assing, 2006**

Material examined: Alaşehir: Hacıembelli, Alkan çayı, 1 ex., 20.VIII.2007. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 12.V.2005; same data, 1 ex., 24.VII.2005. **Distribution in the world: TR** (Assing, 2006b). **Distribution in Turkey:** Antalya, Muğla (Assing, 2006b).

Genus *Pseudolathra* Casey, 1905

***Pseudolathra tennenbaumi* (Bernhauer, 1932)**

Material examined: Turgutlu: Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 10.IV.2006. **Distribution in the world: IS** (Löbl & Smetana, 2004). **Remarks:** The species is here reported from Turkey for the first time.

Genus *Scymbalium* Erichson, 1839

***Scymbalium anale* (Nordmann, 1837)**

Material examined: Soma: Hamidiye, 39° 16' 39"N, 27° 45' 50"E, 827 m, 28 exs., 08.IV.2007. **Distribution in the world: E:** AR AU BH BU CR FR GR HU IT PL RO SK ST SZ UK **N:** AG **A:** IQ SY TM TR (Löbl & Smetana, 2004). **Distribution in Turkey:** No locality cited.

Subtribe Medonina Casey, 1905**Genus *Medon* Stephens, 1833*****Medon fuscus* (Mannerheim, 1830)**

Material examined: **Turgutlu:** Çatalköprü, 3 exs., 05.VIII.2005. **Merkez:** Spil Dağı, 38° 32' 35"N, 27° 27' 52"E, 1100 m, 1 ex., 24.IV.2006. **Distribution in the world:** E: AB AL AR AU BE BH BU CR CZ FR GB GE GG GR HU IT LT NL NR PL PT RO SK SL SP ST SV SZ TR UK YU **A:** CH CY IS LE SY TR (Assing, 2004a, b; Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Adıyaman, Amasya, Ankara, Antakya, Antalya, Bitlis, Bingöl, Bolu, Denizli, Isparta, İstanbul, Kahramanmaraş, Kastamonu, Kocaeli, Konya, Mersin, Muğla, Ordu, Osmaniye, Sinop, Tokat, Zonguldak (Assing, 2004a, b).

***Medon lydicus* Bordonì, 1980**

Material examined: **Turgutlu:** Çatalköprü, 2 exs., 05.VIII.2005. **Distribution in the world:** E: BU **A:** TR (Assing, 2004a; Löbl & Smetana, 2004). **Distribution in Turkey:** İzmir, Muğla (Assing, 2004a).

***Medon pythonissa* (Saulcy, 1864)**

Material examined: **Kırkağaç:** Karakurt, 1 ex., 10.III.2007. **Turgutlu:** Çıkrıkçı creek, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 02.III.2006. **Distribution in the world:** E: AR BU GR MC ST UK **A:** CY IS LE SY TR (Assing, 2004a, b; Löbl & Smetana, 2004). **Distribution in Turkey:** Ankara, Antalya, Antakya, Aydın, Balıkesir, Denizli, İstanbul, İzmir, Kahramanmaraş, Konya, Manisa, Mersin, Muğla, Niğde (Assing, 2004a, b).

***Medon semiobscurus* (Fauvel, 1875)**

Material examined: **Salihli:** Bektaşlar, 1 ex., 22.X.2006. **Turgutlu:** Çatalköprü, 1 ex., 05.VIII.2005. **Distribution in the world:** E: GR **A:** IS LE SY TR (Assing, 2004a). **Distribution in Turkey:** Adana, Antakya, Antalya, Bitlis, Bursa, Denizli, Diyarbakır, Isparta, İzmir, Mersin, Muğla, Osmaniye (Assing, 2004a, b).

Genus *Pseudomedon* Mulsant & Rey, 1878***Pseudomedon obsoletus* (Nordmann, 1837)**

Material examined: **Ahmetli:** Yeniköy, 1 ex., 15.IV.2006. **Selendi:** Eskin, 1 ex., 20.V.2006. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 29.IV.2005; same data, 1 ex., 08.VIII.2005; 1 ex., 12.IV.2006; 1 ex., 14.IV.2006; 1 ex., 01.V.2006; Güney, 1 ex., 22.II.2007. **Distribution in the world:** E: AB AL AU AZ BE BH BU CR CT CZ DE EN FI FR GB GE GG GR HU IR IT LA NL NT PL PT RO SK SL SP ST SV SZ UK YU **N:** AG EG MO TU **A:** IN SY TR AFR AUR NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** No locality cited.

Genus *Sunius* Stephens, 1829***Sunius anatolicus* Assing, 1995**

Material examined: **Soma:** Hamidiye, 39° 16' 39"N, 27° 45' 50"E, 827 m., 1 ex., 08.IV.2007. **Distribution in the world:** TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Antalya, Muğla (Assing, 2001a; 2005a, b, c).

***Sunius melanocephalus* (Fabricius, 1793)**

Material examined: **Demirci:** Bardakçı, Türkmen Dağı, 6 exs., 15.IV.2006; İrişler, Büyükkır Tepesi, 1800 m, 2 exs., 16.IV.2006; Minnetler, 2 exs., 16.IV.2006. **Merkez:** Spil Dağı, 38° 33' 44"N, 27° 23' 10"E, 1100 m, 4 exs., 24.IV.2006. **Turgutlu:** Ovacık Yaylası, 38° 21' 49"N, 27° 51' 00"E, 1025 m, 4 exs., 01.V.2007. **Distribution in the world:** E: AU BE BH BU CR CT CZ DE FR GB GE GG GR HU IR IT LA NL PL RO SK SP ST SV SZ UK YU **A:** CH IN TR NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Artvin, Bolu,

Burdur, Erzincan, Istanbul, Kars, Kastamonu, Muğla, Samsun, Sinop, Zonguldak (Assing, 2001a; 2005a, b, c).

***Sunius pinnatus* Assing, 2006**

Material examined: Merkez: Spil Dağı, 38° 33' 20"N, 27° 23' 17"E, 1200 m, 3 exs., 29.III.2007. **Distribution in the world:** TR (Assing, 2006c). **Distribution in Turkey:** Manisa (Assing, 2006c). **Remarks:** This species represented the first record since the description of the species.

Subtribe Paederina Fleming, 1821

Genus *Paederidus* Mulsant & Rey, 1878

***Paederidus rubrothoracicus* (Goeze, 1777)**

Material examined: Kula: Dereköy, Gediz river, 1 ex., 11.VIII.2006. **Soma:** Dualar 2 km N, Bakırçay river, 10 exs., 23.VII.2005. **Distribution in the world:** E: AB AL AR AU BH BU CR CZ FR GB GE GG GR HU IT MC NL PL PT RO SK SL SP ST SZ UK YU A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Konya, Trabzon (Scheerpeltz, 1957; Fagel, 1963).

Genus *Paederus* Fabricius, 1775

***Paederus fuscipes* Curtis, 1826**

Material examined: Akhisar: Gökçeler 1,5 km SE, 3 exs., 04.IX.2005. **Kula:** Dereköy, Gediz river, 1 ex., 15.IX.2006. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 01.V.2006. **Distribution in the world:** E: AB AL AR AU BE BU CR CT CZ DE EN FI FR GB GE GG GR HU IR IT LA LT MC NL NR PL PT RO SK SL SP ST SV SZ UK YU N: AG EG TU A: AF BT ES FUJ HEB HKG HP IN IQ IS JA JO KA KI KZ NC NP PA SC SCH SD SHA SY TAI TD TM TR UP UZ YUN WS **AFR AUR ORR** (Löbl & Smetana, 2004). **Distribution in Turkey:** Izmir, Trabzon (Fagel, 1963; Tezcan & Amiryar, 2003).

Subtribe Scopaeina Mulsant & Rey 1878

Genus *Scopaeus* Erichson, 1839

***Scopaeus alaniensis* Coiffait, 1969**

Material examined: Salihli: Şirinyer, 1 ex., 26.III.2005. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 12.V.2005, same data 1 ex., 23.V.2005; 1 ex., 10.VI.2007. **Distribution in the world:** TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Antalya (Coiffait, 1969; Frisch et al., 2002). **Remarks:** Previously, only the type material of this species from Southern Anatolia had become known, the above specimens represent the first record from western Anatolia.

***Scopaeus bicolor* Baudi di Selve, 1848**

Material examined: Alaşehir: Azitepe, 1 ex., 19.XI.2005. **Demirci:** Köpüler, 2 exs., 16.IV.2006. **Gölmarmara:** Ozanca, 1 ex., 09.VI.2007. **Gördes:** Çağlayan, 1,5 km SW, Gördes creek, 2 exs., 09.VI.2007. **Kırkağaç:** Karakurt, 1 km NW, 1 ex., 10.III.2007. **Kula:** Eroğlu, 2 exs., 22.IV.2007. **Salihli:** Ortaköy, Dibek Dağı, 1 ex., 19.VII.2006. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 20.IV.2005; same data 1 ex., 28.IV.2005; 1 ex., 29.IV.2005; 1 ex., 23.V.2005; 2 exs., 26.V.2005; 7 exs., 02.VI.2005; 1 ex., 25.VIII.2006. **Distribution in the world:** E: AB AL AU BH BU CR CZ GG GR HU IT MC RO SK A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Trabzon (Korge, 1971).

***Scopaeus cameroni* Coiffait, 1968**

Material examined: Gördes: Çiçekli, 3 km NE, 1 ex., 11.VI.2006. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 26.V.2005; same data, 1 ex., 02.VI.2005; 2 exs., 26.VI.2005; Çatalköprü, 2 exs., 30.VI.2005; same data 4 exs., 05.VIII.2005. **Distribution**

in the world: E: BU GR RO TR UK A: TR (Löbl & Smetana, 2004). **Distribution in Turkey:** Afyon, Ankara, Antalya, Aydın, Bolu, Burdur, Bursa, Çankırı, Çorum, Denizli, Erzurum, Gümüşhane, İstanbul Izmir, Kastamonu, Konya, Kütahya, Manisa, Muğla, Sinop, Zonguldak (Frisch, 1997; 2002).

***Scopaeus cariensis* Frisch, 2002**

Material examined: Turgutlu: Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 07.VIII.2005; same data, 1 ex., 10.VI.2007. Çatalköprü, 3 exs., 05.VIII.2005. **Distribution in the world:** TR (Frisch, 2002; Löbl & Smetana, 2004). **Distribution in Turkey:** Izmir, Muğla (Frisch, 2002).

***Scopaeus debilis* Hochhuth, 1851**

Material examined: Turgutlu: Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 07.VIII.2005; same data 1 ex., 10.VI.2007. **Sarıgöl:** Beyharmanı, 1 ex., 17.II.2007. **Distribution in the world:** E: AB AL AR AU BH BU CR CZ FR GG GR HU IT MA PT RO SL SP ST SZ UK N: AG MO TU A: AF CY IN IQ IS KZ LE SY TD TM TR (Frisch, 1999; Frisch et al., 2002; Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Ankara, Antalya, Aydın, Hakkari, İstanbul, Izmir, Kocaeli, Mardin, Mersin, Muğla, Yozgat (Frisch, 1999).

***Scopaeus gracilis* (Sperk, 1835)**

Material examined: Demirci: Köpüler, 2 exs., 16.IV.2006; Büyükkır Tepesi, 1 ex., 16.IV.2006. **Kırkağaç:** Söğütalan, 4 exs., 10.III.2007. **Salihli:** Ortaköy, Dibek Dağı, 1 ex., 04.VII.2006; Poyraz, 1 ex., 04.VII.2006. **Sarıgöl:** Hacıhaliller, 1 km E, 2 exs., 18.XII.2005. **Saruhanlı:** Seyitoba, 1 ex., 08.V.2005. **Soma:** Yağcılı, 4 exs., 08.IV.2007. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 29.IV.2005; same data, 3 exs., 23.V.2005; 4 exs., 26.V.2005; 2 exs., 02.VI.2005; 2 exs., 14.VI.2005; 3 exs., 12.IV.2006; 2 exs., 14.IV.2006; 3 exs., 07.VIII.2006; 1 ex., 24.XI.2006. **Distribution in the world:** E: AB AL AU BE BH BU CR CT CZ FR GB GE GG GR HU IR IT MA MC NL PL PT RO SK SL SP ST SZ UK YU N: AG LB MO TU A: AF CY IN SY TR UZ AFR (Frisch, 1998; Frisch et al., 2002; Löbl & Smetana, 2004). **Distribution in Turkey:** Adana, Antalya, Denizli, Giresun, Hatay, Izmir, Kastamonu, Kayseri, Sivas, Trabzon (Sahlberg, 1913; Frisch, 1998).

***Scopaeus laevigatus* (Gyllenhal, 1827)**

Material examined: Gördes: Karaağaç, 2 km SW, 1 ex., 25.VII.2007. **Selendi:** Eskin, 2 exs., 17.VII.2007. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 26.V.2005; same data, 1 ex., 12.IV.2006; 1 ex., 14.IV.2006; 3 exs., 10.VI.2007. **Distribution in the world:** E: AB AL AU BE BH BU CR CT CZ DE EN FI FR GB GE GG GR HU IT LA LT MC MD NL NR NT PL PT RO SK SL SP ST SV SZ UK YU A: AF CH FE KI KZ TD TM TR UZ WS (Frisch et al., 2002; Löbl & Smetana, 2004). **Distribution in Turkey:** Northern, southern and eastern Anatolia, not locality cited (Frisch, (2006a)).

***Scopaeus minutoides* Coiffait, 1969**

Material examined: Merkez: Spil Dağı, 38° 33' 20"N, 27° 23' 17"E, 1200 m, 3 exs., 29.III.2007. **Distribution in the world:** TR (Löbl & Smetana, 2004; Frisch, 2006b). **Distribution in Turkey:** Antalya, Burdur, İstanbul, Izmir, Muğla (Frisch, 1998; 2006b).

Subtribe Stilicana Casey, 1905

Genus *Rugilus* Leach, 1819

***Rugilus angustatus* (Geoffroy, 1785)**

Material examined: Alaşehir: Karadağ-Bozdağlar, 2 exs., 01.IV.2006. **Distribution in the world:** E: AR AU BE BH BU CT CZ FI FR GB GE GG GR HU IT LA NL NT PL RO SK SP ST SV SZ UK A: CY TR NAR (Löbl & Smetana, 2004). **Distribution in Turkey:** Samsun (Rougemont, 1988).

***Rugilus orbiculatus* (Paykull, 1789)**

Material examined: Merkez: Gökçeler, 1 ex., 08.II.2007. **Turgutlu:** Çıkrıkçı, 38° 28' 24"N, 27° 49' 30"E, 134 m, 1 ex., 28.XI.2006. **Distribution in the world:** E: AB AL AR AU AZ BE BH BU CR CT CZ DE EN FI FR GB GE GG GR HU IR IT LA LT MA MC NL NR NT PL PT RO SK SL SP ST SV SZ TR UK YU N: AG MO MR TU A: CH CY IN IS KI SY TD TR **AUR NAR** (Löbl & Smetana, 2004). **Distribution in Turkey:** Istanbul, Izmir (Rougemont, 1988).

* This study is prepared from a Doctorate Thesis approved by the Institute of Natural Sciences of Ege University on December 2007.

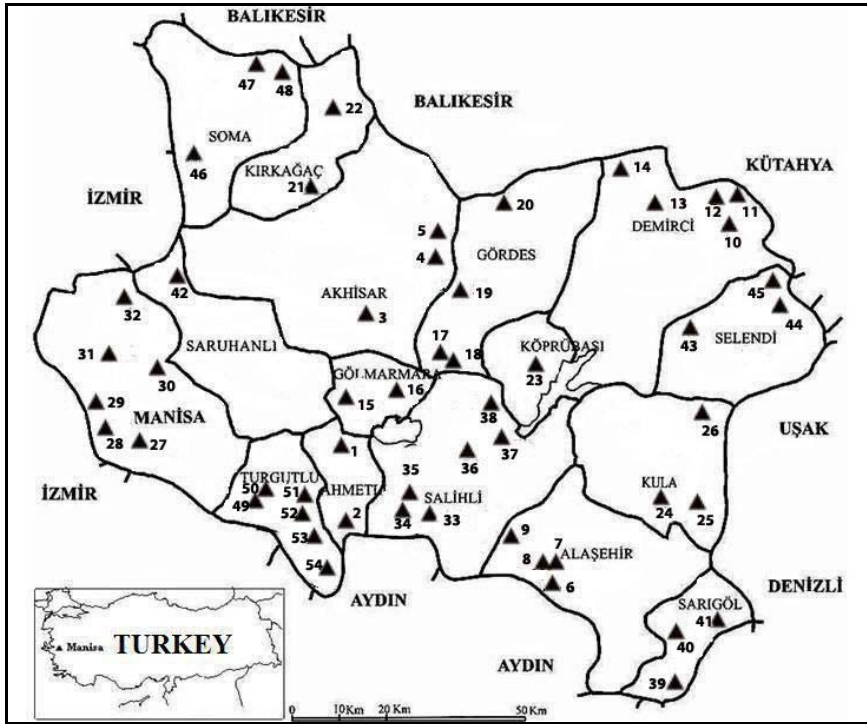
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Map 1. Localities of research area: **Ahmetli:** 1. Çaypınar, 2. Yeniköy. **Akhisar:** 3. Morahılar, 4. Yeğenoba, 5. Gökçeler. **Alaşehir:** 6. Kestanederesi, 7. Azıtepe, 8. Hacıembelli, 9. Karadağ. **Demirci:** 10. Köpüler, 11. Minnetler, 12. İrişler, 13. Ören, 14. Bardakçı. **Gölmarmara:** 15. Ozanca, 16. Beyler, **Gördes:** 17. Çağlayan, 18. Korubaşı, 19. Karaağaç, 20. Çiçekli. **Kırkağaç:** 21. Karakurt, 22. Söğütalan, **Köprübaşı:** 23. Yenice. **Kula:** 24. Çarıkmahmutlu, 25. Eroğlu, 26. Dereköy. **Merkez:** 27. Spil Dağı, 28. Gökçeler, 29. Karakoca, 30. Yenice, 31. Bağıyolu, 32. Sakallı. **Salihli:** 33. Allahdiyen, 34. Şirinyer, 35. Karaağaç, 36. Bektaşlar, 37. Poyraz, 38. Ortaköy. **Sarıgöl:** 39. Beyharmanı, 40. Hacıhaliller, 41. Yeniköy. **Saruhanlı:** 42. Seyitoba. **Selendi:** 43. Çortak, 44. Eskin, 45. Pınarlar. **Soma:** 46. Dualar, 47. Yağcılı, 48. Hamidiye. **Turgutlu:** 49. Bozkır, 50. Çatalköprü, 51. Çıkrıkçı, 52. Güney, 53. Baktırlı, 54. Ovacık Yaylası.