

Contribution to the knowledge of the Scutelleridae (Hemiptera, Heteroptera) fauna of Turkey

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Abstract: This study is based on material of the family Scutelleridae collected from different localities in Turkey between 1969 and 2013. In this study, 13 species of 7 genera belonging to 4 subfamilies (Eurygasterinae, Elvisurinae, Odontoscelinae, Odontotarsinae) from the family Scutelleridae were recorded from Turkey. Among them, *Eurygaster integriceps* Puton, 1881; *Eurygaster maura* (Linnaeus, 1758); and *Odontotarsus purpureolineatus* (Rossi, 1790) have been found to be the most abundant and widespread species. *Phimodera flori* Fieber, 1863 is a new record for the Turkish fauna. In addition, new localities were found for some species that have already been reported in Turkey.

Key words: Heteroptera, Scutelleridae, fauna, *Phimodera flori*, new record, Turkey

1. Introduction

Scutelleridae (or shield bugs) are phytophagous bugs that are found in every zoogeographical zone but are most varied and numerous in the tropics and subtropics; at the present time, we know of 80 genera and 450 species (Göllner-Scheiding, 2006). Scutelleridae are characterized by their scutellum, which entirely covers the abdomen (and to which their name refers); generally the ground color is brown, but some in the tropical zone are brilliantly colored or iridescent and have therefore been called “jewel bugs” (e.g., *Callidea* and *Chrysocoris*). The head is often triangular in front of the eyes, and the 5-jointed antennae are hidden under the lateral edges of the pronotum. The parameres in males are symmetric; in females, the spermatheca consists of a more or less long canal strongly and variously dilated. Scutelleridae are 5–20 mm long. Some (particularly *Eurygaster*) are pests of cultivated grains (wheat, corn, etc.). Generally, Scutelleridae are univoltine and hibernate in the adult stage; several species exhibit maternal care (egg guarding) (Lodos, 1986; Lodos and Önder, 1986).

In terms of fauna, Turkey is one of the most interesting countries located in the West Palearctic region, where most of the insect families exist, including Scutelleridae. Thus, some faunistic studies of the family Scutelleridae have been conducted by foreign and domestic researchers in Turkey. Lodos et al. (1998) described some species of Scutelleridae from the western Black Sea, Central Anatolia, and Mediterranean regions of Turkey. Göllner-Scheiding

(2006) and Önder et al. (2006) recorded 39 species or subspecies of 9 genera from the family Scutelleridae from Turkey.

Some faunistic studies on this family in Turkey were made by Puton (1892), Puton and Noulhier (1895), Horváth (1906), Gadeau de Kerville (1939), Hoberlandt (1955), Wagner (1959), Seidenstücker (1958, 1972), Seidenstücker and Josifov (1963), Linnavuori (1965), Tuatay et al. (1972), Öncüer and Kivan (1995), Lodos et al. (1998), Göllner-Scheiding (1986, 1990), Koçak and Babaoğlu (2005), Abbas and Önder (1991), Kıyak et al. (2004), Karsavuran et al. (2008), Fent and Aktaş (2009), Kıyak and Akar (2010), Dursun and Fent (2010), Fent (2011), and Gözüaık and Fent (2012).

The aim of this paper is to present new collection and biological data on Scutelleridae in Turkey.

2. Materials and methods

The Scutelleridae material was collected from different localities in Turkey between 1969 and 2013. The insect samples for this study were collected by sweeping plants with an insect net. Provinces of the collected specimens are given in alphabetical order in the following list. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET). The male genitalia of *P. flori*, which is indistinguishable from that of females, was dissected under a microscope and its important morphological characters were examined.

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3. Results

In this study, 13 species of 7 genera belonging to 4 subfamilies (Eurygasterinae, Elvisurinae, Odontoscelinae, Odontotarsinae) from the family Scutelleridae were recorded.

Superfamily **Pentatomioidea**

Family **Scutelleridae**

Subfamily **Elvisurinae**

Genus ***Solenosthedium*** Spinola, 1837

Solenosthedium bilunatum (Lefebvre, 1827)

Material examined: **Mersin:** Erdemli, 8.VII.1992, ♀, Esenpınar, 850 m, 6.IX.2011, ♀.

Subfamily **Eurygasterinae**

Genus ***Eurygaster*** Laporte, 1833

Eurygaster austriaca (Schränk, 1776)

Material examined: **Adana:** Mustafabeyli, 16.V.1969, ♀; **Ankara:** Haymana, 28.VII.1995, ♂, Yenimahalle, 18.VII.1993, ♀; **Antalya:** Korkuteli, Karataş, 967 m, 29.VI.2010, ♂, Yazır, 950 m, 25.VIII.2011, ♀, ♂, Manavgat, 9.VIII.1996, ♂; **Balıkesir:** 14.VIII.2010, 4 ♀♀, ♂; **Bilecik:** Gölpazarı, Dereli, 490 m, 25.VI.2010, ♂; **Erzincan:** Eriç, 10.VIII.2011, ♀; **Erzurum:** Aşkale, Ballıtaş, 2075 m, 9.VI.2013, ♀, Çatören, 1825 m, 9.VI.2013, ♂, Demirkıran, 1780 m, 14.VI.2013, ♀, Karahasan, 1770 m, 9.VI.2013, ♂, İspir, Madenköprübaşı, 7.VII.1996, ♂; **Iğdır:** Tuzluca, Menderes, 1100 m, 23.VI.2010, ♂; **İsparta:** Atabey, 4.VIII.1990, 5 ♀♀, 2 ♂♂, 10.VIII.1990, 4 ♀♀, 4 ♂♂, 16.VIII.1990, ♀, Senirkent, 20.VII.1996, ♂; **İstanbul:** Beykoz, 70 m, 15.VII.2011, ♀, Kemerburgaz, 145 m, 31.VII.2011, ♀; **Kırıkkale:** Çelebi, 14.VIII.2010, 13 ♀♀, 8 ♂♂, Delice, 21.VIII.2010, ♀; **Konya:** Selçuklu, 1016 m, 5.VIII.2011, ♀; **Mersin:** Gülnar, Demirözü, 1300 m, 29.VI.2011, ♀; **Trabzon:** Dorukkiriş, 899 m, 23.VII.2011, ♀, ♂.

Eurygaster dilaticollis Dohrn, 1860

Material examined: **Ankara:** Çankaya, 1000 m, 29.VI.2013, ♀; **Ardahan:** Çamlıçatak, 1800 m, 24.VIII.2012, 2 ♂♂, Çıldır, Eskibeyrehatun, 1955 m, 2.IX.2012, 2 ♀♀, Meryem, 1980 m, 2.IX.2012, ♀, Posof, Akballı, 1766 m, 25.VIII.2012, ♀, Aşık Zülali, 1714 m, 25.VIII.2012, ♂, Baykent, 1804 m, 25.VIII.2012, 2 ♀♀, Kırkköy, 1725 m, 25.VIII.2012, ♂; **Artvin:** Yusufeli, Altıparmak, 1700 m, 12.VI.1997, 2 ♀♀; **Erzurum:** 1850 m, 1.VIII.1979, ♀, 8.VIII.1983, ♀, ♂, Abdurrahmangazi, 2197 m, 1.VIII.2010, ♂, Dumlubaba, Güngörmez, 2500 m, 28.VII.1998, ♀, ♂, Palandöken, 2400 m, 1.VII.1996, 5 ♀♀, 2300 m, 1.VIII.2010, 2 ♀♀, 2200 m, 6.VIII.1996, 3 ♀♀, ♂, University field, 1850 m, 9.VII.1996, ♀, Aşkale, Gökçebük, 1765 m, 18.VII.2012, 4 ♂♂, ♀, Merdiven, 1710 m, 1.VIII.2010, ♂, Çat, 2250 m, 4.VIII.2010, ♀, Aziziye, Ermeçik, 2000 m, 18.VII.2012, 2 ♂♂, 2 ♀♀, Ocak, 1975 m, 18.VII.2012, ♀, Toprakkale, 2151 m, 22.VI.2011, ♀, Hınıs, Kalecik, 2015 m, 16.VI.2013, ♂, İspir, Madenköprübaşı,

1200 m, 20.VII.2009, ♀, Öztoprak, 1380 m, 15.VII.2012, ♂, ♀, Karayazı, Mollabekir, 1930 m, 16.VI.2013, ♀, Pasınler, 12.VI.1996, ♀, Çalıyazı, 2400 m, 10.VII.1997, ♀, Pazaryolu, 1010 m, 7.VIII.2009, ♂, Tekman, Çiçekdağı, 1910 m, 6.VI.2013, ♂, Kilikomi, 1940 m, 16.VI.2012, ♀, Tortum, Serdarlı, 1450 m, 25.VII.2010, ♀; **Kars:** Hanak, 18.IX.1996, ♀, Sarıkamış, 2050 m, 14.VIII.2008, ♀, ♂, Karakurt, 1470 m, 29.VII.2010, ♀; **Konya:** Güneysınır, Gurağaç, 10.VII.1998, ♀.

Eurygaster integriceps Puton, 1881

Material examined: **Adana:** 19.VIII.1990, 3 ♂♂, Reyhanlı, 10.VI.1983, ♀, Tufanbeyli, 23.VII.2011, ♀; **Adıyaman:** Kâhta, 25.VIII.1995, ♀, Elbeyi, 650 m, 28.VI.2011, ♀; **Ankara:** 23.VIII.1995, ♀, Haymana, 5.VII.1995, ♀, Mamak, 16.VI.1990, ♀, Polatlı, 9.VII.1996, 3 ♀♀, 3 ♂♂, Şereflikoçhisar, 10.VIII.1983, 4 ♀♀, 5 ♂♂, 15.VIII.1983, ♀, Yenimahalle, 18.VII.1993, 2 ♀♀, 3 ♂♂; **Antalya:** 11.VIII.1997, ♂, Gazipaşa, 1000 m, 9.VIII.2010, 10 ♀♀, 6 ♂♂, Serik, 27.VII.1993, ♀; **Artvin:** Yusufeli, İshan, 600 m, 16.VI.2010, ♀; **Balıkesir:** 14.VIII.2010, ♂; **Bilecik:** Gölpazarı, Dereli, 490 m, 25.VI.2010, ♂; **Burdur:** Bucak, 1.VIII.1997, ♀; **Diyarbakır:** 25.VI.1969, 3 ♀♀, ♂, Karacadağ, 20.VI.1990, ♀, Bismil, 4.VIII.1994, ♂, Silvan, 4.VII.1990, 2 ♀♀; **Elazığ:** 11.VIII.1995, ♀; **Erzincan:** 1185 m, 10.VI.2010, ♀, 18.VII.1997, ♂, Mercan, 1381 m, 10.VI.2010, ♀, 2 ♂♂; **Erzurum:** 1850 m, 1.VIII.1996, ♀, ♂, 3.VIII.2012, ♀, 8.VIII.1979, ♂, 6.IX.2011, ♀, 25.IX.2010, 3 ♀♀, ♂, 27.IX.2010, ♀, 5.X.2011, ♂, Abdurrahmangazi, 2197 m, 1.VIII.2011, ♂, Börekli, 1995 m, 8.VI.2013, ♂, Gökçeyamaç, 1895 m, 19.VI.2012, ♂, Karagöbek, 2025 m, 19.VI.2012, ♂, Palandöken, 2400 m, 1.VII.1996, ♀, ♂, 1900 m, 7.VI.2013, ♂, Söğütlü, 1853 m, 25.VI.2010, ♀, Umudum, 2100 m, 8.VIII.1991, ♀, University field, 1850 m, 27.VII.2010, ♀, 5.VIII.2011, ♀, 9.VIII.2010, ♂, Aşkale, 1650 m, 10.VI.2013, 2 ♂♂, Abdalcık, 1765 m, 30.V.2013, ♂, Ballıtaş, 2075 m, 9.VI.2013, 2 ♀♀, ♂, Büyükgeçit, 1745 m, 14.VI.2013, ♂, Çayköy, 1876 m, 23.VII.2011, ♂, Demirkıran, 1780 m, 14.VI.2013, ♀, ♂, Gökçebük, 1765 m, 18.VII.2012, 6 ♀♀, 3 ♂♂, Kandilli, 1710 m, 30.V.2013, ♂, 1715 m, 18.VI.2012, ♀, Karahasan, 1770 m, 30.VI.2012, 2 ♀♀, Taşağıl, 1810 m, 14.VI.2013, ♀, ♂, Tazegül, 1745 m, 18.VI.2012, ♂, Yeniköy, 1938 m, 30.V.2013, ♂, Aziziye, 1800 m, 8.X.2009, ♀, 1812 m, 16.VI.2012, ♂, 30.V.2013, ♂, Başçakmak, 1803 m, 13.VI.2013, 2 ♂♂, Çamlıca, 2280 m, 18.VII.2012, 3 ♀♀, 3 ♂♂, Dallıkavak Pass, 2349 m, 20.VII.2011, ♂, Demirgeçit, 1750 m, 30.V.2013, ♂, Ermeçik, 2000 m, 18.VII.2012, 2 ♂♂, Gelinkaya, 1796 m, 24.VI.2012, ♀, Ocak, 1975 m, 18.VII.2012, ♀, ♂, Sorkunlu, 1875 m, 30.V.2013, 3 ♀♀, ♂, Tebrizcik, 1835 m, 30.V.2013, ♀, Yoncalık, 1900 m, 4.VIII.2009, ♀, Çat, 1895 m, 8.VI.2013, ♀, Aşağıçat, 2030 m, 8.VI.2013, 2 ♂♂, Çirişli, 2198 m, 18.VI.2012, 2 ♀♀, 19.VI.2012, ♂, Hınıs, 1750 m, 6.VI.2013, ♀, Akören, 1910

m, 17.VII.2012, 3 ♀♀, Kalecik, 2015 m, 16.VI.2013, ♂, Toprakkale, 1705 m, 16.VI.2013, ♂, Horasan, 1540 m, 1580 m, 22.VI.2009, ♀, 1540 m, 31.V.2013, ♀, 1540 m, 31.V.2013, ♂, Aşağıbademözü, 1798 m, 14.VII.2012, ♂, Çiftlik, 1546 m, 17.VII.2011, ♀, İspir, Çapans, 2150 m, 20.VIII.2009, ♀, Elmalı, 1328 m, 20.VII.2011, ♀, Kirazlı, 1206 m, 20.VII.2011, ♂, Madenköprübaşı, 7.VII.1996, ♂, 1200 m, 20.VII.2009, ♀, Öztoprak, 1724 m, 15.VII.2012, 2 ♀♀, Petekli, 1201 m, 24.VI.2012, ♀, Sütkans, 18.VI.1996, ♀, Yukarı Özbağ, 1190 m, 20.VII.2011, ♀, Karayazı, Mollabekir, 1930 m, 16.VI.2013, ♂, Köprüköy, 1685 m, 26.VI.2010, ♀, 1635 m, 31.V.2013, ♀, Buğdaylı, 1640 m, 20.VI.2012, ♀, ♂, Marifet, 1685 m, 16.VI.2012, ♂, Yapağılı, 1655 m, 20.VI.2012, ♀, Narman, 1565 m, 21.VII.2010, 3 ♂♂, 1900 m, 24.VII.2009, ♀, Alabalık, 1550 m, 19.VI.2012, 2 ♀♀, ♂, Dikmetaş, 2665 m, 17.VII.2010, 2 ♀♀, ♂, Göllü, 1842 m, 30.VI.2012, ♀, İncedere, Kamışözü, 1770 m, 11.VI.2013, 2 ♂♂, Kireçli Pass, 1987 m, 21.VII.2010, ♂, Koçkaya, 1550 m, 19.VI.2012, ♂, Sapanlı, 2040 m, 19.VI.2012, ♂, Yanıktaş, 1638 m, 4.VIII.2009, ♀, Oltu, 17.VI.1996, ♀, 1455 m, 17.VII.2010, ♀, Sarısaz, 5.VII.1997, ♂, Duralar, 1740 m, 1.VII.2012, 2 ♂♂, Tuzlaköy, 1109 m, 30.VII.2011, ♂, Olur, Atlı, 1710 m, 15.VI.2013, 3 ♀♀, Kaban, 1215 m, 19.VII.2012, ♀, ♂, Kaledibi, 1070 m, 1.VII.2012, ♀, Pasinler, Büyükdere, 1759 m, 12.VII.2012, ♂, Çöğender, 1720 m, 17.VI.2012, ♀, ♂, Demirdöven, 1727 m, 29.VII.2010, ♀, 2 ♂♂, Övenler, 1705 m, 17.VI.2012, ♀, 2 ♂♂, Ügümü, 1724 m, 17.VII.2011, ♀, Yiğittaşı, 1755 m, 17.VI.2012, 3 ♂♂, Pazaryolu, 1450 m, 24.VII.2011, ♀, 1010 m, 7.VIII.2009, ♀, ♂, 1430 m, 4.VIII.2012, ♀, ♂, Çiftepınar, 1675 m, 15.VII.2012, ♂, 1742 m, 15.VII.2012, 2 ♂♂, Gülçimen, 1663 m, 20.VII.2011, ♀, Kumaşkaya, 1800 m, 23.VI.2011 m, ♀, Kümbettepe, 1376 m, 24.VI.2012, ♂, Şenkaya, 1815 m, 31.VII.2010, ♂, Sındıran, 1409 m, 17.VII.2010, ♂, Turnalı, 3.VI.1989, ♀, Tekman, Çiçekdağı, 1910 m, 6.VI.2013, 2 ♂♂, Tortum, 1573 m, 21.VII.2010, ♂, 1660 m, 31.VII.2011, 2 ♂♂, Aksukapı, 1750 m, 6.VII.2010, ♀, 5.VIII.2010, 2 ♀♀, 2 ♂♂, Kemer kaya, 1670 m, 19.VI.2012, ♀, Yellitepe, 1730 m, 16.VII.2012, 2 ♂♂, Yukarısivri, 1700 m, 16.VII.2012, ♂, Uzundere, Altınçanak, 1080 m, 29.VI.2013, ♀, Gölbaşı, 1170 m, 29.V.2013, ♂, Iğdır: 19.VII.1997, ♂, Karakoyunlu, 830 m, 23.VI.2010, ♂, Taşburun, 830 m, 23.VI.2010, 2 ♂♂, Süveren, 1000 m, 23.VI.2010, 2 ♂♂, Tuzluca, 900 m, 16.VI.2009, ♂, 17.VI.2009, 2 ♀♀, Mendere, 1100 m, 23.VI.2010, ♀; **Isparta**: Atabey, 10.VIII.1990, ♀; **İstanbul**: 10.VII.1984, ♀; **Kahramanmaraş**: 550 m, 15.VII.2009, 2 ♀♀, 6 ♂♂; **Karaman**: 1033 m, 25.VI.2010, 7 ♀♀, 3 ♂♂; **Kars**: Sarıkamış, 2050 m, 14.VIII.2008, ♂, Susuz, 1680 m, 25.IX.2011, ♀; **Kayseri**: Sarıoğlu, 27.VIII.1997, 3 ♀♀, Sarız, 7.VII.1990, 2 ♂♂, 8.VII.1990, ♀; **Kırşehir**: Özbağ, 20.V.1993, 2 ♀♀, 8.VII.1993, 3 ♀♀, 17.VII.1993, 2 ♀♀, 3.VIII.1993, ♀, 10.VIII.1993, 2 ♀♀, 4 ♂♂, 11.VIII.1993,

♂; **Konya**: 1030 m, 1.VIII.2010, 10 ♀♀, 6 ♂♂, Beyşehir, Gökçimen, 12.VII.1997, ♀, 21.VII.1997, 3 ♀♀, ♂, 26.VII.1997, ♂, Bozkır, 11.VII.1995, ♀, 12.VII.1995, ♀, 11.IX.1993, ♀, Ereğli, 11.VII.2010, 5 ♀♀, ♂, 1020 m, 20.VIII.2009, ♀, Selçuklu, 1016 m, 2.VII.2011, ♂; **Malatya**: 5.VIII.1993, ♀, 19.VIII.1989, ♀, Battalgazi, 695 m, 15.VII.2012, 5 ♀♀; **Mersin**: Gülnar, Demirözü, 1300 m, 28.VI.2011, ♀, Silifke, 14.VII.1997, ♀; **Muğla**: Marmaris, 5.VIII.1993, ♂; **Nevşehir**: Nar, 29.VI.2009, ♀, 26.IX.2009, ♂; **Sakarya**: Erenler, 19.VII.2011, ♂; **Samsun**: Alanlı, 14.V.1967, ♀; **Şanlıurfa**: Viranşehir, Büyükgörömlü, 563 m, 8.VIII.2012, 5 ♀♀; Trabzon: 2.VIII.1993, 3 ♀♀, 14.VIII.1993, ♀; **Tunceli**: Mazgirt, Kalaycı, 1000 m, 28.IV.2010, ♀, 1200 m, 19.VIII.2011, ♀; **Yozgat**: Sorgun, 2.VIII.1990, ♀.

Eurygaster maura (Linnaeus, 1758)

Material examined: **Adana**: 19.VIII.1990, ♀, Yumurtalık, 4.IV.1996, ♀; **Adıyaman**: Kâhta, 25.VIII.1995, 2 ♀♀, ♂, Elbeyi, 650 m, 28.VI.2011, ♀, 3.VII.2011, ♀; **Aksaray**: 1.IX.1996, ♂; **Ankara**: Etimesgut, 15.VII.1990, 3 ♀♀, Mamak, 16.VI.1990, ♀, ♂, 14.VII.1990, ♂, Polatlı, 9.VII.1996, 2 ♀♀, Şereflikoçhisar, 10.VIII.1983, 9 ♀♀, ♂, Yenimahalle, 14.VII.1995, ♀; **Antalya**: Gazipaşa, 1000 m, 9.VIII.2010, 2 ♀♀, Kepez, Odabaşı, 305 m, 24.VI.2012, ♀, Korkuteli, Yazır, 950 m, 25.VIII.2011, ♀, Manavgat, 10.VII.1996, ♂; **Ardahan**: Posof, Baykent, 1804 m, 25.VIII.2012, ♀; **Artvin**: 650 m, 3.VIII.2009, ♂, Yusufeli, Altıparmak, 1700 m, 12.VI.1993, ♀; **Bayburt**: Kopdağı Pass, 2344 m, 12.VIII.2009, ♂; **Bilecik**: Gölpazarı, Dereli, 490 m, 25.VI.2010, ♀; **Denizli**: Serinhisar, 1000 m, 2.IX.2011, ♀; **Diyarbakır**: 15.VI.1969, 3 ♀♀, ♂, 23.VI.1969, 2 ♂♂, 25.VI.1969, 5 ♀♀, 3 ♂♂, Karacadağ, 20.VI.1990, 2 ♀♀; **Erzincan**: 13.VIII.2011, ♀, Refahiye, 1500 m, 20.VI.2009, ♂, Üzümlü, 9.VII.2011, ♂; **Erzurum**: 1850 m, 1.VIII.1996, ♂, Börekli, 1995 m, 8.VI.2013, ♀, ♂, Dutçu, 2000 m, 28.VII.2010, ♂, Güzelyayla, 2000 m, 19.VIII.2009, ♀, Karagöbek, 2025 m, 19.VI.2012, 2 ♀♀, 2 ♂♂, Palandöken, 2400 m, 1.VII.1996, 2 ♀♀, 12.VIII.1995, ♂, 1900 m, 7.VI.2013, ♀, ♂, University field, 1880 m, 5.VIII.2011, ♂, Aşkale, 1800 m, 16.VII.1999, ♂, 1650 m, 10.VI.2013, ♂, Büyükgeçit, 1745 m, 14.VI.2013, 2 ♀♀, Çatören, 1825 m, 9.VI.2013, 3 ♂♂, Demirkıran, 1780 m, 14.VI.2013, ♀, 2 ♂♂, Gökçebük, 1765 m, 18.VII.2012, ♀, 2 ♂♂, Kandilli, 1737 m, 1.VIII.2010, ♂, 1710 m, 30.V.2013, ♀, 1715 m, 18.VI.2012, ♀, ♂, Karahasan, 1770 m, 9.VI.2013, ♀, 2 ♂♂, 1770 m, 30.VI.2012, ♀, Merdiven, 1775 m, 30.V.2013, ♀, Taşağıl, 1810 m, 14.VI.2013, ♀, ♂, Tazegül, 1745 m, 18.VI.2012, ♂, Aziziye, 1812 m, 16.VI.2012, 2 ♀♀, 2 ♂♂, Başçakmak, 1803 m, 13.VI.2013, 2 ♂♂, Çamlıca, 2280 m, 18.VII.2012, ♀, ♂, Demirgeçit, 1750 m, 30.V.2013, 2 ♂♂, Eskipolat, 2005 m, 16.VI.2012, ♂, Gelinkaya, 1790 m, 13.VI.2012, 3 ♀♀, ♂, Ocak, 1975 m, 18.VII.2012, 2 ♀♀, Sorkunlu, 1875 m, 30.V.2013, ♀,

Tebrizcik, 1835 m, 30.V.2013, ♂, Toprakkale, 2151 m, 22.VI.2011, ♂, Yoncalık, 1900 m, 4.VIII.2009, ♀, Çat, 1895 m, 8.VI.2013, ♂, Hınıs, Söğütlü, 1715 m, 6.VI.2013, ♀, Toprakkale, 1705 m, 16.VI.2013, ♀, ♂, Horasan, 1540 m, 31.V.2013, ♀, Aşağı Çamlıkale, 2242 m, 13.VIII.2012, ♀, 2 ♂♂, Çiftlik, 1546 m, 17.VII.2011, ♂, Hacıahmet, 1823 m, 13.VIII.2012, ♀, İspir, Çapans, 1400 m, 20.VIII.2009, 2 ♀♀, Elmalı, 1328 m, 20.VII.2011, ♀, Kirazlı, 1207 m, 24.VII.2011, ♀, 1580 m, 6.VII.2012, ♀, Madenköprübaşı, 7.VII.1996, ♀, Yukarı Özbâğ, 1190 m, 20.VII.2011, ♀, Karayazı, 2360 m, 6.VI.2013, ♀, Mollabekir, 1930 m, 16.VI.2013, ♂, Köprüköy, Buğdaylı, 1640 m, 20.VI.2012, ♀, ♂, Eyüpler, 1745 m, 16.VI.2012, ♀, Yapağlı, 1655 m, 20.VI.2012, ♂, Narman, 1900 m, 24.VI.2009, ♂, Alabalık, 1550 m, 19.VI.2012, ♂, Araköy, 1520 m, 19.VI.2012, 2 ♂♂, Mahmutçavuş, 1560 m, 16.VII.2012, ♀, Sapanlı, 2040 m, 19.VI.2012, ♂, Şehitler, 2000 m, 29.V.2013, ♀, Ünlükaya, 1700 m, 8.VI.2012, ♀, Yanıktaş, 1638 m, 30.VII.2011, ♀, ♂, 4.VIII.2009, 2 ♀♀, Oltu, 1455 m, 17.VII.2010, ♀, Başaklı, 12.IX.1981, ♂, Çamlıbel, 1658 m, 30.VI.2012, ♀, Sütkans, 18.VI.1996, ♀, Yolboyu, 1229 m, 4.VIII.2009, ♀, Olur, 1225 m, 10.VI.2012, ♀, Coşkunlar, 1054 m, 10.VI.2012, ♀, Pasinler, Büyükdere, 1759 m, 12.VIII.2012, ♀, ♂, 1793 m, 17.VI.2012, ♀, Çöğender, 1737 m, 29.VII.2010, ♀, 1720 m, 17.VI.2012, 2 ♀♀, ♂, Övenler, 1705 m, 17.VI.2012, 2 ♀♀, Yiğittaş, 1755 m, 17.VI.2012, ♂, Pazaryolu, 1010 m, 7.VIII.2009, 2 ♀♀, 2 ♂♂, 1430 m, 4.VIII.2012, ♂, Çiftepınar, 1675 m, 15.VII.2012, 2 ♂♂, Şenkaya, 1815 m, 31.VII.2010, ♂, Hoş, 1193 m, 31.VII.2011, ♂, 10.VI.2012, ♀ İkizpınar, 1589 m, 31.VII.2011, 2 ♀♀, ♂, Taht, 1283 m, 31.VII.2011, ♀, ♂, Timurkişla, 1430 m, 14.VII.2012, ♂, Turnalı, 5.IX.1990, ♂, Yaymeşe, 1820 m, 12.VI.2013, ♀, ♂, Tekman, Çiçekdağı, 1810 m, 6.VI.2013, ♂, Işıklar, 1910 m, 11.VI.2013, ♀, Tortum, 1518 m, 31.VII.2010, ♀, ♂, Arılı, 1610 m, 19.VI.2012, ♀, 2 ♂♂, Cihanlı, 1680 m, 28.V.2013, ♀, Kaledibi, 1600 m, 19.VI.2012, ♂, Kemer kaya, 1670 m, 19.VI.2012, ♂, Suyatağı, 1236 m, 21.VII.2012, ♀, Yukarısivri, 1700 m, 16.VII.2013, ♀, Uzundere, Altınçanak, 1080 m, 29.VI.2013, ♂, Gölbaşı, 1170 m, 29.V.2013, ♀; **Iğdır**: 850 m, 20.VI.2009, ♀, Karakoyunlu, Alican, 850 m, 23.VI.2010, 2 ♀♀, Melekli, 850 m, 23.VI.2010, ♀, Süveren, 1000 m, 23.VI.2010, ♂; **Isparta**: Atabey, 4.VIII.1990, ♀, Ayazmana, 1100 m, 30.VII.2011, ♂, Senirkent, 20.VII.1996, ♂, 21.VII.1996, ♀; **Karaman**: 1033 m, 25.VI.2010, 3 ♀♀, ♂; **Kars**: Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀; **Kayseri**: Sarıoğlu, 27.VIII.1997, 3 ♀♀, ♂; **Kırıkkale**: Çelebi, 14.VIII.2010, ♀; **Kırşehir**: Özbâğ, 4.VII.1993, ♀, 5.VIII.1993, ♂, 20.VIII.1993, ♂; **Konya**: 1030 m, 1.VIII.2010, ♀, Beyşehir, Gökçimen, 21.VII.1997, 3 ♀♀, ♂, Ereğli, 11.VI.2010, ♀; **Malatya**: 30.VII.1983, ♂, Battalgazi, 695 m, 15.VII.2012, 3 ♀♀; **Nevşehir**: 1130 m, 15.VIII.2011, ♂; **Sivas**: Kızılırmak, 1185 m, 5.VIII.2012, ♂; **Şanlıurfa**: Viranşehir, Büyükgörmülü, 563 m, 8.VIII.2012,

3 ♀♀; **Tunceli**: Mazgirt, Kalaycı, 1200 m, 19.VIII.2011, ♀, ♂, 25.VIII.2010, ♀, ♂.

Eurygaster testudinaria (Geoffroy, 1785)

Material examined: **Ardahan**: Çamlıçatak Ormanı, 1800 m, 24.VIII.2012, 2 ♂♂, Çıldır, Eskibeyrehatun, 1955 m, 2.IX.2012, ♀, Posof, Aşık Zülali 1714 m, 25.VIII.2012, ♂, Baykent, 1804 m, 25.VIII.2012, ♀, Kırköy, 1725 m, 25.VIII.2012, ♂; **Erzurum**: Aşkale, 1650 m, 10.VI.2013, ♂, Büyükgeçit, 1745 m, 14.VI.2013, ♂, Çatören, 1825 m, 9.VI.2013, ♂, Aziziye, Başçakmak, 1803 m, 13.VI.2013, ♂, Ermecik, 2000 m, 18.VII.2012, ♀, Oltu, Sarısaz, 1388 m, 5.VII.2012, ♀, Olur, Coşkunlar, 1054 m, 10.VI.2012, ♂, Pasinler, Büyükdere, 1790 m, 17.VI.2012, ♂, Pazaryolu, Çiftepınar, 1675 m, 15.VII.2012, ♂, Şenkaya, Gözebaşı, 1940 m, 14.VII.2012, ♀, Turnalı, 1750 m, 25.VI.1996, ♀, Tekman, Işıklar, 1910 m, 11.VI.2013, ♂, Tortum, Kaledibi, 1600 m, 19.VI.2012, ♂.

Genus *Psacasta* Germar, 1839

Subgenus *Psacasta* Germar, 1839

Psacasta (Psacasta) exanthematica (Scopoli, 1763)

Material examined: **Bingöl**: Ilıcalar, İçpınar, Derik Mezrası, Paşa Çeşmesi, 1100 m, 28.V.2006, ♀; **Erzurum**: 1850 m, 1.VIII.1996, ♀, University field, 1850 m, 10.VIII.2010, ♂, Aşkale, 1600 m, 12.VIII.2009, ♀, Kandilli, 1715 m, 18.VI.2012, ♂, Aziziye, Çamlıca, 2280 m, 18.VII.2012, ♀, Köprüköy, Buğdaylı, 1640 m, ♂, Oltu, Ayvalı, 16.VI.2010, ♀, Çamlıbel, 1700 m, 14.VII.1996, ♂; **Konya**: Halkapınar, 1250 m, 20.VI.2010, ♀; **Muş**: 25.VIII.1996, 2 ♀♀; **Tunceli**: Mazgirt, Kalaycı, 1200 m, 12.VIII.2011, ♂.

Subfamily *Odontoscelinae*

Genus *Odontoscelis* Laporte, 1833

Subgenus *Odontoscelis* Laporte, 1833

Odontoscelis (Odontoscelis) fuliginosa (Linnaeus, 1761)

Material examined: **Erzurum**: 1850 m, 20.V.1970, ♀, 14.VI.1970, 2 ♀♀, 2 ♂♂, Aşkale, 1600 m, 12.VIII.2009, ♀, Atlıkonak, 1760 m, 9.VIII.2011, 4 ♀♀, Kavurmaçukur, 2233 m, 5.VII.2012, ♂, Hınıs, 1742 m, 2.VII.2010, ♀, Akören, 1939 m, 17.VII.2012, ♂, Horasan, Çayırözü, 1794 m, 21.VIII.2011, ♂, Oltu, 20.VII.1980, ♀, Pasinler, Büyükdere, 1759 m, 12.VIII.2012, ♀, Tortum, Yukarısivri, 1700 m, 16.VII.2012, ♂.

Subfamily *Odontotarsinae*

Genus *Ellipsocoris* Mayr, 1864

Ellipsocoris trilineatus Mayr, 1864

Material examined: **Erzurum**: Ortadüzü, 1850 m, 12.VII.2009, ♀, Palandöken, 2400 m, 1.VII.1996, ♀, Karayazı, Kırğındere, 2200 m, 17.VI.2012, ♀.

Genus *Odontotarsus* Laporte, 1833

Odontotarsus impictus Jakovlev, 1886

Material examined: **Adıyaman**: Besni, 26.VIII.1994, ♀; **Erzurum**: 1.VIII.1984, ♂, Hınıs, 1750 m, 6.VI.2012, ♂; **Tunceli**: Mazgirt, 914 m, 28.VIII.2009, ♂.

***Odontotarsus purpureolineatus* (Rossi, 1790)**

Material examined: **Adana:** Tufanbeyli, 29.VI.2011, ♂; **Ankara:** Kızılcahamam, Sipahiler, 975 m, 14.VIII.2011, ♂; **Antalya:** Serik, Kayaburnu, 36 m, 29.VI.2012, ♀; **Artvin:** 650 m, 3.VIII.2009, ♀, ♂, Ardanuç, 436 m, 3.VII.2009, ♀, Ferhatlı, 573 m, 15.VI.2010, ♂, Şavşat, 400 m, 16.VI.2010, ♀, Yusufeli, Aşbişen, 28.VI.1996, ♂, İşhan, 600 m, 16.VI.2010, ♀, 2 ♂♂, 27.VI.1996, ♀, Morkaya, 700 m, 15.VI.2010, ♀, Pamukçular, 700 m, 16.VI.2010, ♀; **Bayburt:** Çalidere, 1700 m, 17.VI.2010, ♀, Demirözü, 1650 m, 17.VI.2010, ♀; **Bilecik:** Gölpazarı, 520 m, 26.VII.2010, ♀; **Çanakkale:** Biga, Kumkent, 10 m, 3.IX.2011, ♂; **Erzurum:** 1850 m, 20.VI.1996, ♀, Çiftlik, 1850 m, 15.VII.2009, ♂, 1765 m, 19.VI.2012, ♂, ♀, Dumlubaba, Gökçeyamaç, 1895 m, 19.VI.2012, ♂, Güngörmez, 2500 m, 1.VII.2010, ♂, Palandöken, 2400 m, 1.VII.1996, 3 ♀♀, 3 ♂♂, 29.VII.1996, ♀, 2300 m, 1.VIII.2010, ♀, ♂, 2200 m, 6.VIII.1996, ♀, 2155 m, 22.VII.2012, ♀, University field, 1850 m, 25.VI.2009, ♀, ♂, 9.VII.2007, ♀, 11.VII.2008, ♀, 13.VII.2009, ♂, 22.VII.2009, ♀, 5.VIII.2010, ♂, Aşkale, 1600 m, 8.VII.2009, ♀, 30.VI.2012, ♂, Çatören, 1814 m, 11.VIII.2012, ♀, ♂, Gölören, 1897 m, 18.VII.2012, ♂, Hacıhamza, 12.VIII.1996, ♀, Karahasan, 1770 m, 30.VI.2012, ♀, Koşapınar, 1866 m, 18.VII.2012, ♀, ♂, Küçükgeçit, 1660 m, 19.VI.2012, ♀, Yeniköy, 1905 m, 19.VI.2012, ♀, Aziziye, Eskipolat, 1847 m, 24.VI.2012, ♀, Rizekent, 2088 m, 24.VI.2012, 3 ♀♀, ♂, Yoncalık, 1900 m, 4.VIII.2009, ♀, Çat, Başköy, 2129 m, 18.VII.2012, ♂, Hınıs, 1742 m, 2.VII.2010, ♀, Akören, 1939 m, 17.VII.2012, ♂, Karayazı, Çatalören, 2310 m, 17.VII.2012, ♂, 2313 m, 16.VI.2012, ♂, Mollabekir, 1930 m, 6.VI.2013, ♂, Yukarısöylemez, 1905 m, 17.VII.2012, ♂, Köprüköy, Marifet, 1685 m, 16.VII.2012, ♀, İspir, Devedağı, 2100 m, 12.VII.2001, ♀, Elmalı, 1328 m, 20.VII.2011, ♀, Kirazlı, 1206 m, 20.VII.2011, ♀, Madenköprübaşı, 1292 m, 30.VII.2010, 2 ♀♀, Petekli, 1201 m, 24.VI.2012, 3 ♀♀, Sütkans, 18.VI.1996, 2 ♀♀, Narman, 1557 m, 4.VIII.2009, ♀, Alabalık, 1550 m, 19.VI.2012, ♂, Araköy, 1520 m, 19.VI.2012, ♂, Göllü, 1842 m, 30.VI.2012, ♀, Yanıktaş, 1638 m, 4.VIII.2009, ♀, Oltu, 1455 m, 17.VII.2010, ♀, 1180 m, 24.VII.2009, 2 ♀♀, Anzav Deresi, 5.VII.1995, 2 ♀♀, Çamlıbel, 1700 m, 14.VII.1996, ♀, İğdeli, 1660 m, 30.VI.2012, 3 ♀♀, Kaledibi, 1074 m, 17.VII.2010, ♂, Özdere, 1927 m, 16.VII.2012, ♀, ♂, Sarısaz, 1388 m, 5.VIII.2012, ♂, Sütkans, 25.VI.1996, ♀, Tutmaç, 1860 m, 16.VII.2012, ♀, 1720 m, 16.VII.2012, ♂, Yolboyu, 1135 m, 10.VI.2012, ♂, Olur, 1225 m, 10.VI.2012, ♂, Coşkunlar, 1100 m, 11.VI.1997, 2 ♀♀, 999 m, 19.VII.2012, 3 ♀♀, 5 ♂♂, Kaban, 1215 m, 19.VII.2012, 2 ♂♂, Kaledibi, 1057 m, 4.VIII.2009, ♀, Köprübaşı, 996 m, 6.VII.2012, ♂, Ormanağzı, 955 m, 10.VII.2011, ♀, 951 m, 6.VII.2012, ♀, Süngübayır, 1850 m, 24.VII.1996, ♀, Taşlıköy, 885 m, 6.VII.2012, ♂, Tekeli, 1079 m, 4.VIII.2009, ♀, Pasinler,

13.VI.1996, ♀, 1600 m, 7.VII.2009, ♂, Büyüktüy, 1800 m, 2.VII.2010, ♀, Pazaryolu, Kümbettepe, 1376 m, 24.VI.2012, ♂, Şenkaya, Hoş, 1193 m, 31.VII.2011, 3 ♀♀, İçmesu, 1656 m, 16.VII.2012, ♀, Paşalı, 1586 m, 10.VI.2012, ♀, Tekman, Körsu, 1870 m, 17.VII.2012, 2 ♀♀, Tortum, 1653 m, 15.VI.2010, 2 ♂♂, 1573 m, 21.VII.2010, ♀, ♂, 1600 m, 27.VII.1998, ♀, Arılı, 1610 m, 19.VI.2012, ♀, Çamlıca, 1674 m, 16.VII.2012, 2 ♀♀, ♂, Derekapı, 1400 m, 15.VI.2010, 2 ♂♂, 1285 m, 5.VIII.2010, ♀, Kaledibi, 1600 m, 19.VI.2012, ♂, Yellitepe, 1730 m, 16.VII.2012, ♀, Uzundere, Kirazlı, 1231 m, 21.VII.2012, ♀, 2 ♂♂; **İğdir:** Tuzluca, 900 m, 16.VI.2009, 2 ♀♀, ♂; **Kars:** Kağızman, 1750 m, 22.VI.2010, ♀, Sarıkamış, Akkurt, 1650 m, 13.VIII.2009, ♀, Karakurt, 1500 m, 22.VI.2010, ♀, ♂, 13.VIII.2009, ♀, 3 ♂♂; **Mersin:** Silifke, Sömek, 900 m, 25.VIII.2011, ♀, 4.IX.2011, ♀, Tarsus, 22.VII.1994, ♂, 8.VIII.1994, 2 ♂♂; **Rize:** Fındık, 2.VII.1992, ♀.

***Odontotarsus rufescens* Fieber, 1861**

Material examined: **Adıyaman:** Besni, 29.VII.1993, ♀; **Ankara:** Kızılcahamam, Sipahiler, 975 m, 14.VIII.2011, 2 ♀♀; **Artvin:** Yusufeli, Sebzeciler, 500 m, 16.VI.2010, ♂; **Erzurum:** 1850 m, 9.VII.2012, ♂, 20.VII.1971, ♂, Atatürk University field, 1850 m, 22.VI.2007, ♂, 23.VI.2007, ♀, 26.VI.2008, ♀, 5.VII.2007, ♂, 11.VII.2008, ♂, Karagöbek, 2025 m, 19.VI.2012, ♂, Palandöken, 2400 m, 1.VII.1996, ♂, Aşkale, 1800 m, 16.VII.1999, ♂, Güneyçam, 1600 m, 30.VI.2012, ♀, Hacıhamza, 12.VIII.1996, ♀, Kandilli, 1715 m, 18.VI.2012, ♀, Karahasan, 1770 m, 30.VI.2012, ♂, 1758 m, 11.VIII.2012, ♀, Koşapınar, 1866 m, 18.VII.2012, ♀, Aziziye, Alaca, 1751 m, 5.VII.2012, ♀, Eskipolat, 1847 m, 24.VI.2012, 2 ♂♂, Rizekent, 2070 m, 3.VII.2010, ♂, 2088 m, 24.VI.2012, ♂, Çat, 1914 m, 21.VI.2011, ♂, 1913 m, 23.VII.2011, ♀, Çirişli, 1876 m, 23.VII.2011, ♂, Değirmenli, 1955 m, 14.VIII.2012, ♀, Hınıs, 1955 m, 26.VI.2011, ♀, ♂, 1742 m, 2.VII.2010, ♂, 1750 m, 6.VI.2013, ♂, Akören, 1939 m, 17.VII.2012, 2 ♂♂, Söğütlü, 1715 m, 6.VI.2013, ♂, Yolüstü, 1664 m, 17.VI.2012, ♂, Horasan, Çayırözü, 1794 m, 21.VIII.2011, ♂, İspir, Sütkans, 4.VI.1990, ♀, 18.VI.1996, 2 ♂♂, Karayazı, Alemdağı, 2022 m, 16.VI.2012, ♀, Çatalören, 2313 m, 16.VI.2012, 2 ♂♂, Köprüköy, Ataköy, 26.VI.2011, ♂, Ilcasu, 2238 m, 30.VI.2012, ♀, Güzelhisar, 1955 m, 17.VII.2012, ♀, Narman, Alabalık, 1550 m, 19.VI.2012, 2 ♂♂, Güllü, 1842 m, 30.VI.2012, ♂, Kışlaköy, 1892 m, 13.VIII.2012, ♀, Oltu, Çamlıbel, 1760 m, 11.VI.2013, ♀, Güzelsu, 1221 m, 30.VI.2012, ♀, İğdeli, 1660 m, 30.VI.2012, ♀, Kaledibi, 1070 m, 1.VII.2012, ♂, Orcuk, 1556 m, 6.VII.2012, ♂, Tutlu, 1240 m, 23.VI.2011, ♀, Toklu, 1300 m, 10.VI.2012, ♀, Toklu, 1300 m, 10.VI.2012, ♀, Tutmaç, 1719 m, 16.VI.2012, ♀, 1860 m, 16.VII.2012, ♀, ♂, Yarbaşı, 1784 m, 6.VII.2012, ♀, Yolboyu, 1135 m, 10.VI.2012, ♀, Pasinler, Acı, 1905 m, 22.VII.2012, ♂, Pazaryolu, Kümbettepe, 1376 m, 24.VI.2012, ♀, Tekman,

Körsu, 1984 m, 26.VI.2011, ♀, 1870 m, 17.VII.2012, 2 ♀♀, Tortum, 1661 m, 23.VI.2011, 3 ♂♂, 1600 m, 19.VI.2012, ♂, Arılı, 1610 m, 19.VI.2012, 2 ♀♀, Cihanlı, 1690 m, 28.V.2013, ♀, Kaledibi, 1600 m, 19.VI.2012, ♀, Kemer kaya, 1670 m, 19.VI.2012, ♂, Yukarısivri, 1962 m, 16.VII.2012, ♀, ♂; **Gümüşhane**: Köse, Akbaba, 1710 m, 3.IX.2011, ♀; **İstanbul**: Bakırköy, Şile, 2.VIII.1984, ♂; **Kars**: Kağızman, 9.VII.1980, ♀; **Konya**: University field, 13.VII.1997, ♂; **Mersin**: Erdemli, Üçtepe, 120 m, 12.IX.2012, 3 ♀♀, 2 ♂♂, Tarsus, 8.VIII.1994, ♀; **Muğla**: Yatağan, 24.VIII.1990, ♀.

***Phimodera flori* Fieber, 1863**

Redescription: Body dark brown, elliptical, slightly convex; head subquadrate, less than half the breadth of the pronotum; the clypeus hardly surpassing mandibular plates; eyes prominent; antenna brown, length 1.5 mm (the first segment 0.25 mm, the second 0.25 mm, the third 0.25 mm, the fourth 0.30 mm, the fifth 0.45 mm). The first, second, and third segments of equal length, fourth

segment 2/3 as long as the fifth; pronotum with a transverse furrow anterior part that is transversely rugulose; scutellum covering the whole of the abdomen and almost the whole of the hemelytra, with 2 longitudinal lines, the middle one extending along very dark, the other 2 light color, extending from the anterior border; each with a short, oblique ridge near its other side (Figure 1A); coxa pale brown, femora black, other segments black-brown; pygophore with dorsal margin very broad, covered with fine setae (Figure 1B), ventral rim bearing numerous short stout setae, paramere small, stem drawn out into a blunt apex, a square projection lying below apex forming a shallow hook, 13 to 18 setae found along apical half of stem (Figure 1C), a number of very minute setae found on undersurface of apex, theca large and cylindrical, median penal lobes (Figure 1D) stout cylindrical structures, apically broadly rounded, basally fused together in a U around apex of vesica; length of females 6 mm, males 5 mm.

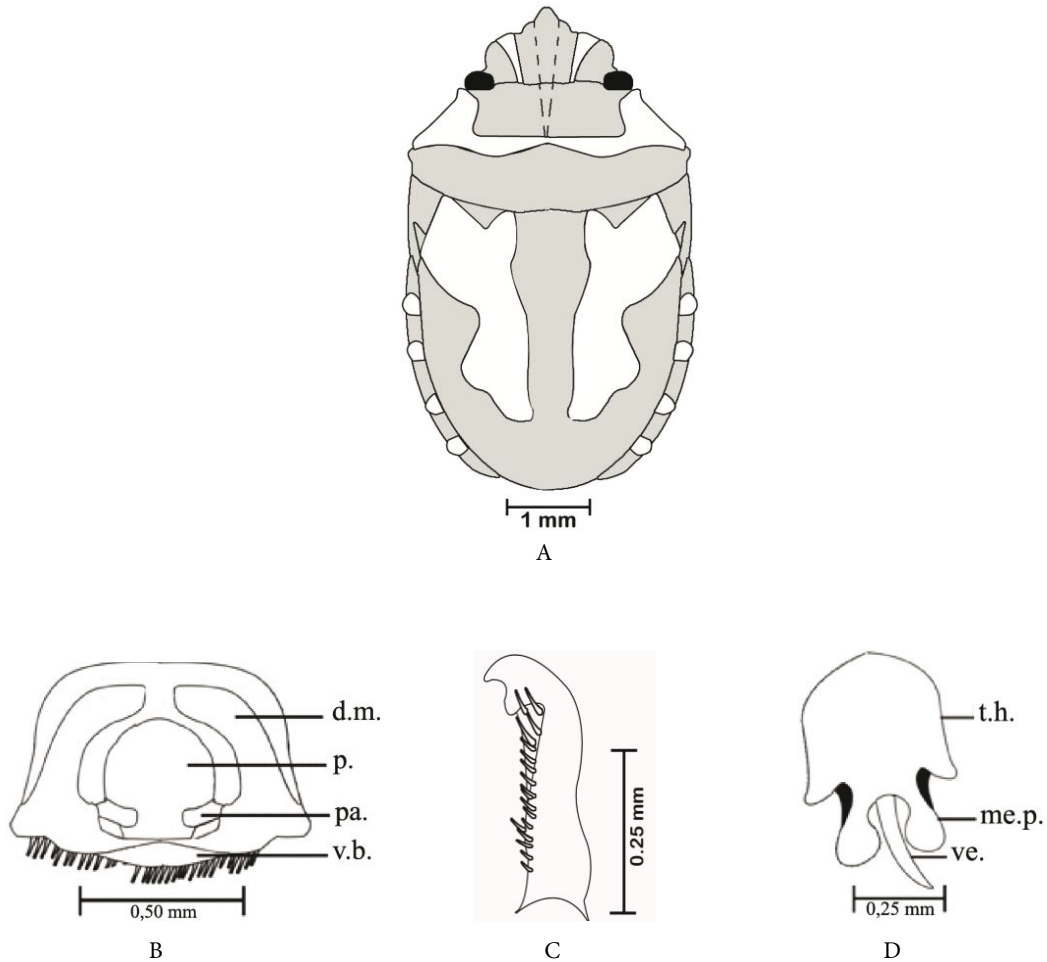


Figure 1. *Phimodera flori* Fieber, 1863; A- dorsal view, B- pygophore (dorsal view), C- paramere (lateral view), D- aedeagus (d.m.: dorsal margin, p.: proctiger, v.b.: ventral border, pa: paramere, t.h.: theca, me.p.: median penal, ve.: vesica).

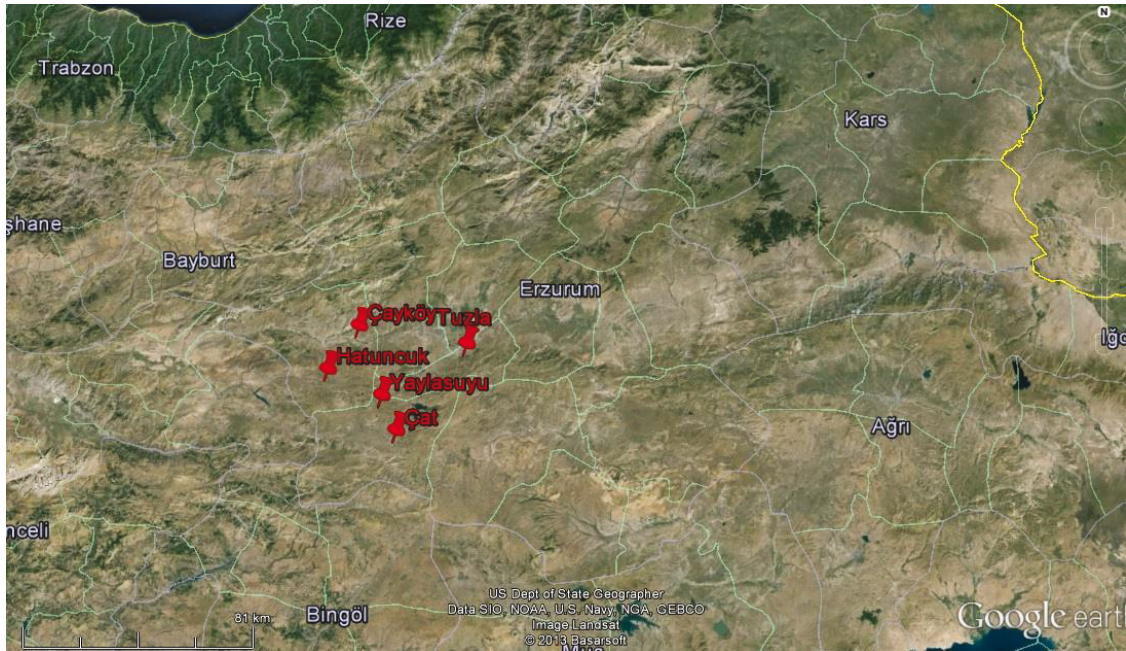


Figure 2. Map distribution in Turkey of *Phimodera flori* Fieber, 1863 (courtesy of Google Earth).

Material examined: **Erzurum:** Aşkale, Çayköy, 1720 m, 21.VI.2011, ♂, Hatuncuk, 1869 m, 5.VII.2012, ♀, ♂, Çat, 1914 m, 21.VI.2011, ♀, 2 ♂♂, Tuzla, 1926 m, 21.VI.2011, ♀, Yaylasuyu, 2331 m, 26.VI.2011, ♂ (Figure 2).

New for the Turkish fauna.

Distribution in Palearctic region: **EUROPE:** Austria, Czech Republic, Denmark, France, Germany, Hungary, Latvia, Poland, Russia (Central European Territory and South European Territory); **ASIA:** Kazakhstan (Asian part), Georgia, Mongolia, Russia East (Siberia, West Siberia) (Kirichenko, 1910; Stichel, 1960; Stys, 1963; Kulik, 1965; Wagner, 1966; Vinokurov and Kanyukova, 1995; Davidová-Vilimová and Král, 2003; Göllner-Scheiding, 2006).

4. Discussion

In this study, 13 species of 7 genera belonging to 4 subfamilies (Eurygasterinae, Elvisurinae, Odontoscelinae, Odontotarsinae) from the family Scutelleridae were recorded from Turkey. Among them, *Eurygaster integriceps* Puton, 1881; *Eurygaster maura* (Linnaeus, 1758); and *Odontotarsus purpureolineatus* (Rossi, 1790) have been found to be the most abundant and widespread species. Separately, *Phimodera flori* Fieber, 1863 is a new record for the Turkish fauna. In addition, new localities

were found for some species that have already been reported in Turkey.

The majority of the species belong to the Mediterranean or Euro-Siberian faunal kingdoms. The collected data are of interest for the national or regional distribution of species (many new localities were added to the known distribution) and they allowed for the discovery of a species new to the Turkish fauna. The data also give indications on the biology of the species (dates of the first or the last caught); the altitudes of the collection stations are greatly indicative, too. All these data contribute to a better knowledge of Turkish fauna and of the ecology of Heteroptera in the northeast of the Mediterranean basin, particularly the data for the least common of these species.

Göllner-Scheiding (2006) and Önder et al. (2006) recorded 39 species or subspecies of 9 genera from the family Scutelleridae from Turkey. As a result of the current study, the total number of species recorded from Turkey to date has been increased to 40 belonging to 9 genera from Scutelleridae, and the distribution of previously known species has broadened.

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