

Contribution to the Knowledge of Heteroptera (Hemiptera) Fauna of Elazığ Province with a New Record for the Fauna of Turkey

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ABSTRACT: : The result of a field research, focused on the suborder Heteroptera and conducted in several localities in Elazığ province in Eastern Anatolian region of Turkey, is presented. A total of 66 species belonging to following families are recorded: Alydidae (1), Berytidae (2), Coreidae (2), Geocoridae (5), Gerridae (1), Heterogasteridae (1), Lygaeidae (4), Miridae (9), Nabidae (1), Oxycarenidae (2), Pachygronthidae (1), Pentatomidae (17), Reduviidae (3), Rhopalidae (8), Rhyparochromidae (2), Scutelleridae (3) and Tingidae (4). Among them, 27 species are recorded from Elazığ for the first time and *Orthops (Montanorthops) pilosulus* Jakovlev, 1877 constitutes a new record for the Heteroptera fauna of Turkey. New records for following four species which were recorded only once from Turkey, are given: *Agatharchus (Agatharchus) ponticus* Belousova, 1999, *Limacocarenum curtulus* Kiritshenko, 1914, *Phytocoris (Eckerleinius) niveatus* Horváth, 1891 and *Reuteria riegeri torosensis* Çerçi, Tezcan & Özgen, 2020. Finally, a checklist of Heteroptera species of Elazığ province, based on previous literature and new records in this paper, is prepared.

KEYWORDS: New record, Turkey, Heteroptera, Elazığ, fauna, contribution.

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Heteroptera Latreille, 1810 is a diverse suborder of Hemiptera Linnaeus, 1758 that consists of phytophagous, zoophagous, and even hematophagous species. It contains more than 45,000 species described worldwide and more than 8,000 of these isolated records of 13 species by Hober-distribute in Palaearctic region (Henry, landt (1952), Wagner (1959, 1962), 2017). According to latest overview by Tezcan (2020), 1536 species of Heteroptera have been recorded from Turkey. Heteroptera fauna of Elazığ province remained unnoticed

Brown & Eralp (1962), Tuatay et al. (1967, 1972) and Seidenstücker (1973, 1975). Extensive field research conducted by F. Önder, N. Lodos, E. Pehlivan and A. Çağatay all around Turkey at this time resulted in recording of 48 species from Elazığ (Önder, 1976, 1980, 1982; Lodos & Önder, 1978, 1980, 1982, 1983; Pehlivan, 1981; Çağatay, 1985). Kıyak (1990) wrote the first and still the most extensive paper that specifically focused on the Heteroptera fauna of Elazığ province, recording 80 additional species. More recently, Matocq et al. (2014), dealing with Heteroptera fauna of Diyarbakır, Mardin and Elazığ provinces, greatly enhanced our knowledge by recording an additional 54 species from this province. The latest faunistic paper dealing predominantly with Heteroptera fauna of Elazığ was Çerçi et al. (2018) which recorded 29 more Heteroptera species from Elazığ. Adding all these species and records by some recent papers (Péricart, 1983, 1984, 1998a,b; Özgen et al., 2005, 2018, 2021; Önder et al., 2006; Bolu et al., 2006; Yıldırım et al., 2011, 2013; Özgen, 2012; Ribes & Pagola-Carte, 2013; Dursun & Fent, 2013; Maral et al., 2013; Yazıcı et al., 2015; Özgen & Dioli, 2018, 2019; Dioli & Özgen, 2019), 266 Heteroptera species were recorded from this province until now. With 27 new species recorded from this province in this paper, the total number of Heteroptera species known from Elazığ rises to 293. A checklist of all these species can be found below.

MATERIAL AND METHODS

The study was conducted in ten localities between 12.09.2020 and 30.09.2020. Continental climate is observed in the studied area, summer season is hot and spring season usually short. Vegetation of studied areas is mostly dominated by *Astragalus* spp., *Quercus* spp., *Crataegus* spp. and annual weeds. Shrubs and *Astragalus* spp. are frequent in Haroğlu and Hazarbaba localities, whereas herbaceous plants are frequent in Sivrice locality.

Fruit plants and perennial plants surround the sampling areas in all localities. During the field work, specimens were mostly collected by sweeping net and at sight. Collection of semi-aquatic species in the localities Sivrice and Hazarbaba were done using a bucket dipped into water. Trapped specimens were filtered by a net and aspirated. Collected specimens were examined in the laboratory by using an Olympus SZX 7 stereomicroscope. Photographs were taken with Nikon D3300 DSLR Camera combined with an 68mm extension tube and a Lomo 3.7X 0.11 Microscope lens. Stacking of images were done by CombineZM.

Ghauri (1978), Péricart (1983, 1984, 1998a, b), Linnavuori (2000), Ribes et al. (2008), Ribes & Pagola-Carte (2013) and Hosseini (2014) were used for identification of species. Examined specimens are preserved in the private collection of the first author (BCIT).

RESULTS

Following 66 species were found in the field research conducted in several localities in Elazığ. Among them, species denoted with a single asterisk (*) indicate the first record from Elazığ and with double asterisks indicate the first record from Turkey.

ALYDIDAE Amyot & Serville, 1843

Camptopus lateralis (Germar, 1817)

Material examined: Elazığ: Haroğlu, 1850m, 28.09.2020, 1 ex.; Palu, 25.09.2020, 1 ex.; Hazarbaba Mountain, 2000m, 23.09.2020, 1 ex. (BCIT)

BERYTIDAE Fieber, 1851

Neides brevipennis Puton, 1895

Material examined: Elazığ: Sivrice (N 38° 27.518' E 39°29.665') (1100–1400m), 12.09.2020, 1 ex.; Palu (N 38°41.054' E 39°57.412') (1100m), 13.09.2020, 1 ex.; Hazarbaba Mountain (2000m), 23.09.2020, 1 ex. (BCIT)

***Neides tipularius (Linnaeus, 1758)**

Material examined: Elazığ: Kozluk (1650m), 20.09.2020, 1 ex. (BCIT)

COREIDAE Leach, 1815**Coreus marginatus (Linnaeus, 1758)**

Material examined: Elazığ: Sivrice, Hazar Santrali, 25.09.2020, 1 ex. (BCIT)

***Gonocerus acuteangulatus (Goeze, 1778)**

Material examined: Elazığ: Sivrice, 26.09.2020, 1 ex.; Hazar Baba Mountain (2000m), 23.09.2020, 1 ex. (BCIT)

GEOCORIDAE Baerensprung, 1860***Geocoris (Geocoris) megacephalus (Rossi, 1790)**

Material examined: Elazığ: Palu, 25.09.2020, 1 ex. (BCIT)

***Geocoris (Geocoris) pubescens (Jakovlev, 1871) (Fig. 1C)**

Material examined: Elazığ: Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 1 ex.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 1 ex. (BCIT)

Geocoris (Piocoris) erythrocephalus erythrocephalus (Lepelletier & Serville, 1825) (Fig. 1D)

Material examined: Elazığ: Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 2 exs.; Gökçebağlar (1100m) (N 38°45.239' E 39°14.654'), 12.09.2020, 1 ex.; Sivrice (1100-1400m) (N 38°27.518' E 39°29.665'), 12.09.2020, 1 ex. (BCIT)

Geocoris (Piocoris) luridus luridus (Fieber, 1844) (Fig. 1F)

Material examined: Elazığ: Palu, 25.09.2020, 1 ex. (BCIT)

Geocoris (Piocoris) putonianus Bergroth, 1892 (Fig. 1E)

Material examined: Elazığ: Hazar Baba Mountain (2000m), 23.09.2020, 5 exs. (BCIT)

GERRIDAE Leach, 1815***Gerris (Gerris) costae fieberi Stichel, 1938**

Material examined: Elazığ: Hazar Baba Mountain (2000m), 23.09.2020, 8 exs. (BCIT)

HETEROGASTERIDAE Stål, 1862***Heterogaster affinis Herrich-Schäffer, 1835**

Material examined: Elazığ: Sivrice, 26.09.2020, 1 ex. (BCIT)

LYGAEIDAE Schilling, 1829**Lygaeus equestris (Linnaeus, 1758)**

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 2 exs. (BCIT)

Nysius helveticus (Herrich-Schäffer, 1850) (Fig. 1A)

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 12 exs; Haroğlu (1850m), 28.09.2020, 3exs; Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 10 exs; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 2 exs; Hazar Baba Mountain (2000m)-26.09.2020, 7 exs.; Hazar Baba Mountain (2000m), 23.09.2020, 3 exs. (BCIT)

***Ortholomus carinatus (Lindberg, 1932) (Fig. 1B)**

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 1 ex.; Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 6 exs; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 5 exs; Hazar Baba Mountain (2000m), 26.09.2020, 1 ex. (BCIT)

Spilostethus saxatilis (Scopoli, 1763)

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 5 exs; Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 1 ex.; Sivrice, 25.09.2020, 1 ex. (BCIT)

MIRIDAE Hahn, 1833**Deraeocoris (Camptobrochis) serenus (Douglas & Scott, 1868) (Fig. 2A)**

Material examined: Elazığ: Kozluk (1650m), 20.09.2020, 1 ex.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 1 ex. (BCIT)

- Deraeocoris (Knightocapsus) lutescens* (Schilling, 1837)**
 Material examined: Elazığ: Karakoçan, 25.09.2020, 1 ex., Hazarbab Mountain (2000m), 23.09.2020, 1 ex. (BCIT)
- Liocoris tripustulatus* (Fabricius, 1781)**
 Material examined: Elazığ: Sivrice, 25.09.2020, 1 ex. (BCIT)
- Malacocoris chlorizans* (Panzer, 1794)**
 Material examined: Elazığ: Hazarbab Mountain (2000m), 23.09.2020, 1 ex. (BCIT)
- ***Orthops (Montanorthops) pilosulus* Jakovlev, 1877 (Fig. 2B)**
 Material examined: Elazığ: Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 4 exs. (BCIT)
- Comments:** This species was originally described from Iran and besides, known from Kazakhstan, Kirgizia, East Siberian region of Russia, Turkmenistan and Uzbekistan (Kerzhner & Josifov, 1999). It is characterized by entirely orange-red coloration and red markings on dorsum. A similar species, *O. (M.) sanguinolentus* (Reuter, 1879) that is also distributed in the same area, is possibly only a synonym of *O. (M.) pilosulus* (see Hosseini, 2014). The species of *Orthops* known from Turkey were recently reviewed by Yazıcı & Yıldırım (2017). Four species belonging to *Orthops* (*Orthops*) and two species belonging to *Orthops* (*Montanorthops*) were recorded (Yazıcı & Yıldırım, 2017). The latter differs from the former by the remarkably deep punctation of pronotum, very short collar hairs and pale spines of tibiae (Hosseini, 2014). The two species of *Montanorthops* recorded from Turkey are *Orthops (M.) forelii* Fieber, 1858 and *O. (M.) montanus* (Schilling, 1837). *Orthops forelii* can be easily distinguished from *O. pilosulus* by the extensive black coloration of dorsum (Ghauri, 1978). *Orthops montanus* is similar to *O. pilosulus* with respect to general orange-red coloration and red markings but differs from it by black calli of pronotum and dark patches of first antennal segment (Ghauri, 1978),
- both of which unicolorous pale in *O. pilosulus*.
- **Phytocoris (Eckerleinius) niveatus* Horváth, 1891 (Fig. 2C-D)**
 Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 6 ex. (BCIT)
- Comments:** A rare species that lives on *Astragalus* sp. and lives in mountain steppes (Linnavuori, 2000). It is known from mountainous regions of Armenia, Azerbaijan, Iran and Turkey (Kerzhner & Josifov, 1999). It was only recorded once in Turkey, from Ağrı by Kiritshenko (1918). This species can be easily distinguished from its congeners by the very characteristic shape of its left paramere which has two adjacent indentations basally [cf. Linnavuori (2000): Fig. 1F-J].
- **Phytocoris (Stictophytocoris) linnavuorii* Kerzhner & Schuh, 1998**
 Material examined: Elazığ: Sivrice (1100-1400m) (N 38°27.518' E 39°29.665'), 12.09.2020, 1 ex.; Hazarbab Mountain (2000m), 23.09.2020, 1 ex. (BCIT)
- **Reuteria riegeri torosensis* Çerçi, Tezcan & Özgen, 2020**
 Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 3 exs (BCIT)
- Comments:** This species was described very recently from Mersin and Kahramanmaraş (Çerçi et al., 2020). It is very similar to *Reuteria serratis* Çerçi, Tezcan & Özgen, 2020, which is known from Siirt, and can only be distinguished from it by the male genital structures (Çerçi et al., 2020).
- NABIDAE A. Costa, 1853**
- **Nabis (Aspilaspis) viridulus* Spinola, 1837 (Fig. 6B)**
 Material examined: Elazığ: Palu, 25.09.2020, 10 exs. (BCIT)
- OXYCARENIDAE Stål, 1862**
- Macroplox fasciata* (Herrich-Schäffer, 1835)**
 Material examined: Elazığ: Haroğlu (1800m)

(N 38°36.989' E 38°54.882'), 14.09.2020, 1 ex.

Oxycareus (Euoxycareus) pallens (Herrich-Schäffer, 1850)

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 2 exs.; Haroğlu (1850m), 28.09.2020, 1 ex; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 1 ex. (BCIT)

PACHYGRONTHIDAE Stål, 1865

Cymophyes ochroleuca Fieber, 1870 (Fig. 1G)

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 1 ex. (BCIT)

PENTATOMIDAE Leach, 1815

Aelia rostrata Boheman, 1852

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 2 exs.; Haroğlu (1850m), 28.09.2020, 6 exs.; Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 1 ex. (BCIT)

***Agatharchus (Agatharchus) ponticus Belousova, 1999 (Fig. 3A-C)**

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 1 ex. (BCIT)

Comments: This species was originally described based on a single male specimen collected from Erzurum by Belousova (1999). It is only known from its holotype and characterized by clypeus shorter than mandibular plates, second antennal segment only 1,2 times as long as the third one (Fig. 3A), evaporatorium of scent glands enlarged (Fig. 3B) and very small size (only 3 mm) of vesica (Fig. 3C) (Ribes & Pagola-Carte, 2013). Although the holotype lacks a median white stripe along pronotum and scutellum; short clypeus, short second antennal segment, large evaporatorium of scent gland and very short vesica confirm that the examined specimen belongs to this species. Following four species of *Agatharchus* (*Agatharchus*) are also known from Turkey: *A. escalerae* Horváth, 1901, *A. herrichii* (Kolenati, 1846), *A. linea* (Klug, 1845) and *A. tritaenia* Horváth, 1897 (Rider, 2006). *Agatharchus tritaenia* and

A. escalerae differ from *A. ponticus* by clypeus as long as jugae, *A. linea* differs by very small evaporatorium of scent gland and *A. herrichii* differs by second antennal segment 1.4–1.8 times as long as third one and the very large vesica (more than 4 mm) (Belousova, 1999).

Ancyrosoma leucogrammes (Gmelin, 1790)

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 1 ex.; Habibuşağı (1000–1300m, (N 38°25.693' E 38°49.214'), 14.09.2020, 1 ex.; Palu (1100m) (N 38°41.054' E 39°57.412'), 13.09.2020, 1 ex.; Sivrice (1100–1400m) (N 38°27.518' E 39°29.665'), 12.09.2020, 1 ex.; Hazarbab Mountain (2000m), 23.09.2020, 1 ex. (BCIT).

Anthemina lunulata (Goeze, 1778) (Fig. 4B)

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 1 ex.; Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 2 ex.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 5 ex. (BCIT).

***Carpocoris (Carpocoris) coreanus Distant, 1899 (Fig. 4A)**

Material examined: Elazığ: Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 1 ex. (BCIT)

Carpocoris (Carpocoris) pudicus (Poda, 1761)

Material examined: Elazığ: Günbaşı/Kozluk (1650m), 01.10.2020, 2 exs.; Haroğlu (1850m), 28.09.2020, 2 exs.; Sivrice (1100–1400m) (N 38°27.518' E 39°29.665'), 12.09.2020, 1 ex.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 2 exs. (BCIT)

Codophila varia (Fabricius, 1787)

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 2 exs.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 1 ex.; Gökçebağlar (1100m) (N 38°45.239' E 39°14.654'), 12.09.2020, 1 ex.; Sivrice, 26.09.2020, 1 ex.; Hazarbab Mountain (2000m), 23.09.2020, 1 ex. (BCIT)

***Dolycoris baccarum* (Linnaeus, 1758) REDUVIIDAE Latreille, 1807**

Material examined: Elazığ: Sivrice, **Callistodema fasciata* (Kolenati, 1857)
25.09.2020, 1 ex. (BCIT)

***Eurydema (Eurydema) ornata* (Linnaeus, 1758)**

Material examined: Elazığ: Palu,
25.09.2020, 1 ex. (BCIT)

Material examined: Elazığ: Kozluk
(1650m), 20.09.2020, 1 ex. (BCIT)

****Coranus (Coranus) tuberculifer* Reuter, 1881*****Eysarcoris ventralis* (Westwood, 1837)**

Material examined: Elazığ: Haroğlu
(1900m) (N 38°36.981' E 38°54.882'),
16.09.2020, 1 ex. (BCIT)

Material examined: Elazığ: Palu,
25.09.2020, 1 ex. (BCIT)

****Neottiglossa leporina* (Herrich-Schäffer, 1830)*****Nagusta goedelii* (Kolenati, 1857)**

Material examined: Elazığ: Haroğlu
(2100m), 21.09.2020, 3 exs.; Haroğlu
(1850m), 28.09.2020, 1 ex.; Haroğlu
(1900m) (N 38°36.981' E 38°54.882'),
16.09.2020, 3 exs. (BCIT)

Material examined: Elazığ: Karakoçan,
25.09.2020, 2 exs.; Sivrice, 26.09.2020, 1
ex. (BCIT)

****Sciocoris (Aposciocoris) macrocephalus* Fieber, 1851****RHOPALIDAE Amyot & Serville, 1843******Agraphopus lethierryi* Stål, 1872**

Material examined: Elazığ: Haroğlu
(2100m), 21.09.2020, 2 exs; Haroğlu
(1850m), 28.09.2020, 1 ex. (BCIT)

Material examined: Elazığ: Haroğlu
(1850m), 28.09.2020, 1 ex. (BCIT)

Sciocoris (Sciocoris) cursitans* cursitans (Fabricius, 1794)**Brachycarenum tigrinus* (Schilling, 1829)**

Material examined: Elazığ: Hazarbaba
Mountain (2000m), 23.09.2020, 1 ex.
(BCIT)

Material examined: Elazığ: Haroğlu
(1900m) (N 38°36.981' E 38°54.882'),
16.09.2020, 2 exs. (BCIT)

****Stagonomus bipunctatus bipunctatus* Linnaeus, 1758*****Chorosoma schillingii* (Schilling, 1829) (Fig. 5A)**

Material examined: Elazığ: Haroğlu
(1850m), 28.09.2020, 1 ex. (BCIT)

Material examined: Elazığ: Kozluk
(1650m), 20.09.2020, 3 exs.; Haroğlu
(1850m), 28.09.2020, 7 exs.; Haroğlu
(2100m), 21.09.2020, 4 exs.; Habibuşağı
(1000-1300m) (N 38°25.693' E 38°
49.214'), 14.09.2020, 3 exs; Sivrice (1100
-1400m) (N 38°27.518' E 39°29.665'),
12.09.2020, 4 exs.; Hazarbaba Mountain
(2000m), 26.09.2020, 2 exs.; Hazarbaba
Mountain (2000m), 23.09.2020, 3 exs.
(BCIT)

****Stagonomus devius* Seidenstücker, 1965 (Fig. 4C)**

Material examined: Elazığ: Haroğlu
(1850m), 28.09.2020, 1 ex. (BCIT)

***Staria lunata* (Hahn, 1835)**

Material examined: Elazığ: Haroğlu
(2100m), 21.09.2020, 1 ex.; Haroğlu
(1850m), 28.09.2020, 1 ex.; Gökçebağlar
(1100m) (N 38°45.239' E 39°14.654'),
12.09.2020, 1 ex.; Sivrice (1100-1400m)
(N 38°27.518' E 39°29.665'), 12.09.2020,
2 exs.; Sivrice, 25.09.2020, 1 ex. (BCIT)

Corizus hyoscyami hyoscyami* (Linnaeus, 1758)***Trochiscocoris hemipterus* (Jakovlev, 1879) (Fig. 4D)**

Material examined: Elazığ: Haroğlu
(1850m), 28.09.2020, 2 exs. (BCIT)

Material examined: Elazığ: Kozluk
(1650m), 20.09.2020, 1 ex.; Haroğlu
(2100m), 21.09.2020, 1 ex.; Günbağı/
Kozluk (1650m), 01.10.2020, 5 exs.;
Haroğlu (1900m) (N 38°36.981' E 38°
54.882'), 16.09.2020, 4 exs.; Sivrice,
25.09.2020, 2 exs. (BCIT)

****Limacocarenum curtulus* Kiritshenko, RHYPAROCHROMIDAE Amyot & Serville, 1843**
1914 (Fig. 5C–D, F)

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 3 exs.; Günbağı/Kozluk (1650m), 01.10.2020, 1 ex. (BCIT)

Comments: This species was originally described from Semarkand, Uzbekistan and recorded from Afghanistan, Iran, Kazakhstan, Kirgizia and Turkey (Göllner-Scheiding, 1978; Ghahari et al., 2012). It was only recorded once in Turkey, from Malatya by Göllner-Scheiding (1978). This species is characterized by remarkable thorn like projections next to antennal base (Fig. 5F). According to Göllner-Scheiding (1978), head of this species is remarkably short when compared to *Rhopalus parumpunctatus* (Fig. 5B, E). But all four specimens that we examined have longer heads (Fig. 5F) when compared to *R. parumpunctatus* (Fig. 5E). It is possible that the Anatolian populations differ from Central Asian populations in this aspect.

***Liorhyssus hyalinus* (Fabricius, 1794)**

Material examined: Elazığ: Kozluk (1650m), 20.09.2020, 6 exs.; Haroğlu (2100m), 21.09.2020, 1 ex.; Günbağı/Kozluk (1650m), 01.10.2020, 4 exs.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 3 exs. (BCIT)

***Maccevetus caucasicus* (Kolenati, 1845)**

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 4 exs.; Haroğlu (1850m), 28.09.2020, 1 ex.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 3 exs.; Sivrice, 26.09.2020, 1 ex.; Hazarbaba Mountain (2000m), 26.09.2020, 2 exs. (BCIT)

***Rhopalus (Rhopalus) parumpunctatus* Schilling, 1829 (Fig. 5B, E)**

Material examined: Elazığ: Kozluk (1650m), 20.09.2020, 2 exs.; Haroğlu (2100m), 21.09.2020, 13 exs.; Haroğlu (1850m), 28.09.2020, 13 exs.; Haroğlu (1900m) (N 38°36.981' E 38°54.882'), 16.09.2020, 3 exs.; Hazarbaba Mountain (2000m), 26.09.2020, 5 exs.; Hazarbaba Mountain (2000m), 23.09.2020, 1 ex. (BCIT)

***Lasiocoris anomalus* (Kolenati, 1845)**

Material examined: Elazığ: Hazarbaba Mountain (2000m), 23.09.2020, 1 ex. (BCIT)

****Xanthochilus minusculus* (Reuter, 1885)**

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 1 ex. (BCIT)

SCUTELLERIDAE Leach, 1815

***Odontotarsus impictus* Jakovlev, 1886**

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 1 ex. (BCIT)

***Odontotarsus robustus* Jakovlev, 1884**

Material examined: Elazığ: Günbağı/Kozluk (1650m), 01.10.2020, 1 ex.; Haroğlu (1850m), 28.09.2020, 1 ex. (BCIT)

***Odontotarsus rufescens* Fieber, 1861**

Material examined: Elazığ: Haroğlu (1850m), 28.09.2020, 2 exs.; Hazarbaba Mountain (2000m), 23.09.2020, 1 ex. (BCIT)

TINGIDAE Laporte, 1832

****Copium adumbratum* (Horváth, 1891) (Fig. 6D)**

Material examined: Elazığ: Haroğlu (1800m) (N 38°36.989' E 38°54.882'), 14.09.2020, 2 exs. (BCIT)

***Elasmotropis testacea selecta* (Horváth, 1891)**

Material examined: Elazığ: Hazarbaba Mountain (2000m), 26.09.2020, 5 exs. (BCIT)

***Monosteira unicostata* (Mulsant & Rey, 1852)**

Material examined: Elazığ: Sivrice, 25.09.2020, 2 exs. (BCIT)

****Stephanitis (Stephanitis) oschanini* Vasiliev, 1935 (Fig. 6C)**

Material examined: Elazığ: Haroğlu (2100m), 21.09.2020, 2 exs.; Karakoçan, 25.09.2020, 3 exs. (BCIT)

Checklist of Heteroptera Species Recorded from Elazığ

Below, a checklist of 293 Heteroptera species recorded from Elazığ is presented. The number of species in each family is given in brackets. Reference for each species refers to the publication in which the corresponding species was recorded from Elazığ for the first time.

Lygocoris (Lygocoris) rugicollis (Fallén, 1807) recorded by Kiyak (1990) and *Anthemina absinthii* (Wagner, 1952) mentioned by Önder et al. (2006) from Elazığ are not included in this checklist as their presence in Elazığ is doubtful, considering their Asiatico-European and West Mediterranean distributions, respectively (Kerzhner & Josifov, 1999; Ribes & Pagola-Carte, 2013).

	Species	Reference
ALYDIDAE (4)		
1	<i>Camptopus bifasciatus</i> Fieber, 1864	(Kiyak, 1990)
2	<i>Camptopus illustris</i> Horváth, 1899	(Pehlivan, 1981)
3	<i>Camptopus lateralis</i> (Germar, 1817)	(Pehlivan, 1981)
4	<i>Camptopus tragacanthae</i> (Kolenati, 1845)	(Pehlivan, 1981)
ANTHOCORIDAE (8)		
5	<i>Anthocoris minki pistaciae</i> Wagner, 1957	(Önder, 1982)
6	<i>Anthocoris nemoralis</i> (Fabricius, 1794)	(Önder, 1982)
7	<i>Anthocoris pilosus</i> (Jakovlev, 1877)	(Önder, 1982)
8	<i>Cardiastethus nazarenius</i> Reuter, 1884	(Önder, 1982)
9	<i>Orius (Orius) niger</i> (Wolff, 1811)	(Önder, 1982)
10	<i>Orius (Heterorius) horvathi</i> (Reuter, 1884)	(Önder, 1982)
11	<i>Orius (Heterorius) minutus</i> (Linnaeus, 1758)	(Önder, 1982)
12	<i>Xylocoris (Arrostelus) flavipes</i> (Reuter, 1875)	(Özgen et al., 2018)
ARTHENEIDAE (5)		
13	<i>Artheneis balcanica</i> (Kormilev, 1938)	(Matocq et al., 2014)
14	<i>Artheneis hyrcanica</i> (Kolenati, 1845)	(Matocq et al., 2014)
15	<i>Artheneis intricata</i> V.G. Putshkov, 1969	(Péricart, 1998a)
16	<i>Artheneis wagneri</i> Ribes, 1972	(Péricart, 1998a)
17	<i>Holcocranum saturejae</i> (Kolenati, 1845)	(Çerçi et al., 2018)
BERYTIDAE (5)		
18	<i>Berytinus (Lizinus) distinguendus</i> (Ferrari, 1874)	(Çerçi et al., 2018)
19	<i>Berytinus (Lizinus) striola</i> (Ferrari, 1874)	(Çerçi et al., 2018)
20	<i>Metacanthus (Cardopostethus) annulosus</i> (Fieber, 1859)	(Matocq et al., 2014)
21	<i>Neides brevipennis</i> Puton, 1895	(Péricart, 1984)
22	<i>Neides tipularius</i> (Linnaeus, 1758)	(this paper)

BLISSIDAE (1)		
23	<i>Dimorphopterus blissoides</i> (Baerensprung, 1859)	(Çerçi et al., 2018)
COREIDAE (16)		
24	<i>Anoplocerus luteus</i> (Fieber, 1861)	(Matocq et al., 2014)
25	<i>Arenocoris waltlii</i> (Herrich-Schäffer, 1835)	(Çerçi et al., 2018)
26	<i>Centrocoris variegatus</i> Kolenati, 1845	(Kıyak, 1990)
27	<i>Coreus marginatus</i> (Linnaeus, 1758)	(Kıyak, 1990)
28	<i>Coriomeris affinis</i> (Herrich-Schäffer, 1839)	(Kıyak, 1990)
29	<i>Coriomeris hirticornis</i> (Fabricius, 1794)	(Kıyak, 1990)
30	<i>Coriomeris subglaber</i> Horváth, 1917	(Kıyak, 1990)
31	<i>Gonocerus acuteangulatus</i> (Goeze, 1778)	(this paper)
32	<i>Gonocerus insidiator</i> (Fabricius, 1787)	(Matocq et al., 2014)
33	<i>Gonocerus juniperi</i> Herrich-Schäffer, 1839	(Çerçi et al., 2018)
34	<i>Haploprocta sulcicornis</i> (Fabricius, 1794)	(Kıyak, 1990)
35	<i>Phyllomorpha lacerata</i> Herrich-Schäffer, 1835	(Kıyak, 1990)
36	<i>Phyllomorpha laciniata</i> (Villers, 1789)	(Kıyak, 1990)
37	<i>Prionotylus brevicornis</i> (Mulsant & Rey, 1852)	(Matocq et al., 2014)
38	<i>Spathocera tenuicornis</i> Jakovlev, 1883	(Kıyak, 1990)
39	<i>Syromastus rhombeus</i> (Linnaeus, 1767)	(Kıyak, 1990)
CYDNIDAE (2)		
40	<i>Canthophorus melanopterus melanopterus</i> (Herrich-Schäffer, 1835)	(Lodos & Önder, 1980)
41	<i>Tritomegas delagrangei</i> (Puton, 1888)	(Matocq et al., 2014)
GEOCORIDAE (5)		
42	<i>Geocoris (Geocoris) megacephalus</i> (Rossi, 1790)	(this paper)
43	<i>Geocoris (Geocoris) pubescens</i> (Jakovlev, 1871)	(this paper)
44	<i>Geocoris (Piocoris) erythrocephalus erythrocephalus</i> (Lepelletier & Serville, 1825)	(Kıyak, 1990)
45	<i>Geocoris (Piocoris) luridus luridus</i> (Fieber, 1844)	(Matocq et al., 2014)
46	<i>Geocoris (Piocoris) putonianus</i> Bergroth, 1892	(Matocq et al., 2014)
GERRIDAE (2)		
47	<i>Aquarius ventralis</i> (Fieber, 1860)	(Yıldırım et al., 2013)
48	<i>Gerris (Gerris) costae fieberi</i> Stichel, 1938	(this paper)
HETEROGASTERIDAE (2)		
49	<i>Heterogaster affinis</i> Herrich-Schäffer, 1835	(this paper)
50	<i>Heterogaster cathariae</i> (Geoffroy, 1785)	(Çerçi et al., 2018)

LYGAEIDAE (12)		
51	<i>Apterola (Apterola) kuenckeli rubicunda</i> (Stål, 1872)	(Çerçi et al., 2018)
52	<i>Horvathiolus superbus</i> (Pollich, 1781)	(Özgen & Dioli, 2019)
53	<i>Lygaeus equestris</i> (Linnaeus, 1758)	(Kıyak, 1990)
54	<i>Lygaeus simulans</i> Deckert, 1985	(Péricart, 1998a)
55	<i>Melanocoryphus albomaculatus</i> (Goeze, 1778)	(Kıyak, 1990)
56	<i>Nysius cymoides</i> (Spinola, 1837)	(Çerçi et al., 2018)
57	<i>Nysius thymi thymi</i> (Wolff, 1804)	(Matocq et al., 2014)
58	<i>Nysius helveticus</i> (Herrich-Schäffer, 1850)	(Özgen et al., 2021)
59	<i>Orsillus depressus</i> (Mulsant & Rey, 1852)	(Péricart, 1998a)
60	<i>Ortholomus carinatus</i> (Lindberg, 1932)	(this paper)
61	<i>Spilostethus pandurus</i> (Scopoli, 1763)	(Kıyak, 1990)
62	<i>Spilostethus saxatilis</i> (Scopoli, 1763)	(Kıyak, 1990)
MIRIDAE (61)		
63	<i>Acetropis (Acetropis) carinata</i> (Herrich-Schäffer, 1841)	(Özgen & Dioli, 2019)
64	<i>Adelphocoris lineolatus</i> (Goeze, 1778)	(Tuatay et al., 1967)
65	<i>Adelphocoris vandalicus</i> (Rossi, 1790)	(Önder et al., 2006)
66	<i>Atractotomus amygdali</i> Wagner, 1960	(Matocq et al., 2014)
67	<i>Alloeomimus kurdus</i> Hoberlandt, 1953	(Özgen et al., 2018)
68	<i>Auchenocrepis reuteri</i> Jakovlev, 1876	(Matocq et al., 2014)
69	<i>Barbarosia decalvata</i> (Seidenstücker, 1962)	(Matocq et al., 2014)
70	<i>Brachycoleus steini</i> Reuter, 1877	(Özgen & Dioli, 2019)
71	<i>Brachycoleus thoracicus</i> Puton, 1892	(Matocq et al., 2014)
72	<i>Calocoris roseomaculatus angularis</i> (Fieber, 1864)	(Önder, 1976)
73	<i>Calocoris roseomaculatus saucius</i> Linnavuori, 1951	(Matocq et al., 2014)
74	<i>Campylomma diversicorne</i> Reuter, 1878	(Önder, 1976)
75	<i>Chlorillus pictoides</i> Wagner, 1963	(Matocq et al., 2014)
76	<i>Closterotomus norwegicus</i> (Gmelin, 1790)	(Çerçi et al., 2018)
77	<i>Closterotomus trivialis</i> (A. Costa, 1853)	(Matocq et al., 2014)
78	<i>Cyphodema instabilis</i> (Lucas, 1849)	(Matocq et al., 2014)
79	<i>Deraeocoris (Camptobrochis) punctulatus</i> (Fallén, 1807)	(Matocq et al., 2014)
80	<i>Deraeocoris (Camptobrochis) serenus</i> (Douglas & Scott, 1868)	(Önder, 1976)
81	<i>Deraeocoris (Deraeocoris) rutilus</i> (Herrich-Schäffer, 1838)	(Önder, 1976)
82	<i>Deraeocoris (Deraeocoris) trifasciatus</i> (Linnaeus, 1767)	(Önder, 1976)
83	<i>Deraeocoris (Knightocapsus) lutescens</i> (Schilling, 1837)	(Matocq et al., 2014)
84	<i>Deraeocoris (Knightocapsus) putoni</i> (Montandon, 1885)	(Çerçi et al., 2018)
85	<i>Dryophilocoris (Camarocypheus) persimilis</i> (Puton, 1895)	(Matocq et al., 2014)

86	<i>Glaucopterum kareli</i> Wagner, 1963	(Önder, 1976)
87	<i>Globiceps (Globiceps) sphaegiformis</i> (Rossi, 1790)	(Özgen & Dioli, 2019)
88	<i>Globiceps (Kelidocoris) horvathi</i> Reuter, 1912	(Çerçi et al., 2018)
89	<i>Grypocoris (Grypocoris) fieberi</i> Douglas & Scott, 1868	(Önder, 1976)
90	<i>Horistus (Primihoristus) orientalis</i> (Gmelin, 1790)	(Matocq et al., 2014)
91	<i>Icodema infuscata</i> (Fieber, 1861)	(Matocq et al., 2014)
92	<i>Liocoris tripustulatus</i> (Fabricius, 1781)	(Önder, 1976)
93	<i>Lygocoris (Lygocoris) perniciosides</i> Seidenstücker, 1957	(Kıyak, 1990)
94	<i>Lygus gemellatus</i> (Herrich-Schäffer, 1835)	(Önder, 1976)
95	<i>Lygus pratensis</i> (Linnaeus, 1758)	(Tuatay et al., 1967)
96	<i>Lygus rugulipennis</i> Poppius, 1911	(Önder, 1976)
97	<i>Macrotylus (Alloeonycha) ancyranus</i> Seidenstücker, 1969	(Matocq et al., 2014)
98	<i>Macrotylus (Alloeonycha) dentifer</i> Wagner, 1969	(Matocq et al., 2014)
99	<i>Macrotylus (Macrotylus) galatinus</i> Seidenstücker, 1968	(Matocq et al., 2014)
100	<i>Macrotylus (Macrotylus) perdictus</i> Kiritshenko, 1938	(Matocq et al., 2014)
101	<i>Macrotylus (Macrotylus) syriacus</i> Wagner, 1963	(Matocq et al., 2014)
102	<i>Malacocoris chlorizans</i> (Panzer, 1794)	(this paper)
103	<i>Megacoelum quercicola</i> Linnavuori, 1965	(Özgen & Dioli, 2018)
104	<i>Oncotylus (Cylindromelus) setulosus</i> (Herrich-Schäffer, 1837)	(Kıyak, 1990)
105	<i>Orthops (Montanorthops) pilosulus</i> Jakovlev, 1877	(this paper)
106	<i>Phytocoris (Eckerleinus) niveatus</i> Horváth, 1891	(this paper)
107	<i>Phytocoris (Stictophytocoris) linnavoorii</i> Kerzhner & Schuh, 1998	(this paper)
108	<i>Plagiognathus bipunctatus bipunctatus</i> Reuter, 1883	(Önder, 1976)
109	<i>Plagiognathus (Plagiognathus) marivanensis</i> Linnavuori, 2010	(Matocq et al., 2014)
110	<i>Platycranus (Platycranus) putoni</i> Reuter, 1879	(Önder, 1976)
111	<i>Platyporus dorsalis</i> Reuter, 1890	(Matocq et al., 2014)
112	<i>Psallus (Apocremnus) skylla</i> Linnavuori, 1994	(Matocq et al., 2014)
113	<i>Psallus (Hyllopsallus) perrisi</i> (Mulsant & Rey, 1852)	(Matocq et al., 2014)
114	<i>Psallus (Phylidea) quercus</i> (Kirschbaum, 1856)	(Özgen & Dioli, 2019)
115	<i>Rauniella ishtar</i> (Linnavuori, 1984)	(Matocq et al., 2014)
116	<i>Reuteria riegeri torosensis</i> Çerçi, Tezcan & Özgen, 2020	(this paper)
117	<i>Rhabdomiris striatellus wagneri</i> Kerzhner & Schuh 1998	(Matocq et al., 2014)
118	<i>Stenodema (Stenodema) turanica</i> Reuter, 1904	(Önder, 1976)
119	<i>Stethoconus pyri</i> (Mella, 1869)	(Özgen et al., 2018)
120	<i>Strongylocoris niger</i> (Herrich-Schäffer, 1835)	(Matocq et al., 2014)

121	<i>Trigonotylus pulchellus</i> (Hahn, 1834)	(Çerçi et al., 2018)
122	<i>Trigonotylus tenuis</i> Reuter, 1893	(Matocq et al., 2014)
123	<i>Tuponia (Chlorotuponia) hippophaes</i> (Fieber, 1861)	(Matocq et al., 2014)
NABIDAE (8)		
124	<i>Nabis (Aspilaspis) viridulus</i> Spinola, 1837	(this paper)
125	<i>Nabis (Nabis) ferus</i> (Linnaeus, 1758)	(Kiyak, 1990)
126	<i>Nabis (Nabis) palifer</i> Seidenstücker, 1954	(Tuatay et al., 1972)
127	<i>Nabis (Nabis) pseudoferus orientarius</i> Remane, 1962	(Kiyak, 1990)
128	<i>Nabis (Nabis) punctatus</i> A. Costa, 1847	(Kiyak, 1990)
129	<i>Nabis (Nabis) rugosus</i> (Linnaeus, 1758)	(Kiyak, 1990)
130	<i>Prostemma (Prostemma) guttula asiaticum</i> Kerzhner, 1968	(Özgen et al., 2021)
131	<i>Prostemma (Prostemma) sanguineum</i> (Rossi, 1790)	(Çerçi et al., 2018)
OCHTERIDAE (1)		
132	<i>Ochterus (Ochterus) marginatus</i> (Latreille, 1804)	(Hoberlandt, 1952)
OXYCARENIDAE (3)		
133	<i>Brachyplax tenuis</i> (Mulsant & Rey, 1852)	(Matocq et al., 2014)
134	<i>Macroplox fasciata</i> (Herrich-Schäffer, 1835)	(Çağatay, 1985)
135	<i>Oxycarenus (Euoxycarenus) pallens</i> (Herrich-Schäffer, 1850)	(Çağatay, 1985)
PACHYGRONTHIDAE (1)		
136	<i>Cymophyes ochroleuca</i> Fieber, 1870	(Matocq et al., 2014)
PENTATOMIDAE (61)		
137	<i>Aelia albovittata</i> Fieber, 1868	(Kiyak, 1990)
138	<i>Aelia alticola</i> Kiritshenko, 1914	(Matocq et al., 2014)
139	<i>Aelia melanota</i> Fieber, 1868	(Wagner, 1959)
140	<i>Aelia rostrata</i> Boheman, 1852	(Kiyak, 1990)
141	<i>Aelia virgata</i> (Herrich-Schäffer, 1841)	(Wagner, 1959)
142	<i>Agatharchus (Agatharchus) ponticus</i> Belousova, 1999	(this paper)
143	<i>Ancyrosoma leucogrammes</i> (Gmelin, 1790)	(Kiyak, 1990)
144	<i>Anthemina lunulata</i> (Goeze, 1778)	(Kiyak, 1990)
145	<i>Anthemina pusio pusio</i> (Kolenati, 1846)	(Kiyak, 1990)
146	<i>Apodiphus amygdali</i> (Germar, 1817)	(Kiyak, 1990)
147	<i>Bagrada (Nitilia) abeillei</i> Puton, 1881	(Matocq et al., 2014)
148	<i>Bagrada (Nitilia) stolidia</i> (Herrich-Schäffer, 1839)	(Matocq et al., 2014)
149	<i>Carpocoris (Carpocoris) coreanus</i> Distant, 1899	(this paper)

150	<i>Carpocoris (Carpocoris) fuscipinus</i> (Boheman, 1851)	(Kıyak, 1990)
151	<i>Carpocoris (Carpocoris) mediterraneus mediterraneus</i> Tamanini, 1958	(Kıyak, 1990)
152	<i>Carpocoris (Carpocoris) melanocerus</i> (Mulsant & Rey, 1852)	(Kıyak, 1990)
153	<i>Carpocoris (Carpocoris) pudicus</i> (Poda, 1761)	(Kıyak, 1990)
154	<i>Carpocoris (Carpocoris) purpureipennis</i> (De Geer, 1773)	(Kıyak, 1990)
155	<i>Chlorochroa (Rhytidolomia) pinicola</i> (Mulsant & Rey, 1852)	(Ribes & Pagola-Carte, 2013)
156	<i>Cnephosa flavomarginata</i> Jakovlev, 1880	(Kıyak, 1990)
157	<i>Codophila varia</i> (Fabricius, 1787)	(Kıyak, 1990)
158	<i>Derula flavoguttata</i> Mulsant & Rey, 1856	(Kıyak, 1990)
159	<i>Dolycoris baccarum</i> (Linnaeus, 1758)	(Kıyak, 1990)
160	<i>Dyroderes umbraculatus</i> (Fabricius, 1775)	(Matocq et al., 2014)
161	<i>Eurydema (Horvatheurydema) fieberi</i> Fieber, 1837	(Matocq et al., 2014)
162	<i>Eurydema (Horvatheurydema) rugulosa</i> (Dohrn, 1860)	(Matocq et al., 2014)
163	<i>Eurydema (Eurydema) ornata</i> (Linnaeus, 1758)	(Kıyak, 1990)
164	<i>Eurydema (Eurydema) laticollis</i> Horváth, 1907	(Çerçi et al., 2018)
165	<i>Eurydema (Eurydema) putoni</i> (Jakovlev, 1877)	(Matocq et al., 2014)
166	<i>Eysarcoris ventralis</i> (Westwood, 1837)	(Kıyak, 1990)
167	<i>Graphosoma (Graphosoma) consimile</i> Horváth, 1903	(Kıyak, 1990)
168	<i>Graphosoma (Graphosoma) melanoxanthum</i> Horváth, 1903	(Kıyak, 1990)
169	<i>Graphosoma (Graphosoma) semipunctatum</i> (Fabricius, 1775)	(Kıyak, 1990)
170	<i>Graphosoma (Graphosoma) stali</i> Horváth, 1881	(Seidenstücker, 1975)
171	<i>Graphosoma (Graphosomella) inexpectatum</i> Carapezza & Jindra, 2008	(Çerçi et al., 2018)
172	<i>Holcogaster fibulata</i> (Germar, 1831)	(Matocq et al., 2014)
173	<i>Mustha spinosula</i> (Lefebvre, 1831)	(Kıyak, 1990)
174	<i>Mustha vicina</i> Hoberlandt, 1997	(Bolu et al., 2006)
175	<i>Neottiglossa leporina</i> (Herrich-Schäffer, 1830)	(this paper)
176	<i>Palomena prasina</i> (Linnaeus, 1761)	(Özgen et al., 2005)
177	<i>Pausias (Pausias) martini</i> (Puton, 1890)	(Bolu et al., 2006)
178	<i>Peribalus (Peribalus) strictus strictus</i> (Fabricius, 1803)	(Matocq et al., 2014)
179	<i>Peribalus (Peribalus) strictus vernalis</i> (Wolff, 1804)	(Kıyak, 1990)
180	<i>Piezodorus lituratus</i> (Fabricius, 1794)	(Kıyak, 1990)
181	<i>Sciocoris (Aposciocoris) luteolus</i> Fieber, 1861	(Lodos & Önder, 1982)
182	<i>Sciocoris (Aposciocoris) macrocephalus</i> Fieber, 1851	(this paper)
183	<i>Sciocoris (Neosciocoris) pallens</i> Klug, 1845	(Kıyak, 1990)
184	<i>Sciocoris (Sciocoris) cursitans cursitans</i> (Fabricius, 1794)	(Lodos & Önder, 1982)

185	<i>Sciocoris (Sciocoris) helferii</i> Fieber, 1851	(Lodos & Önder, 1982)
186	<i>Sciocoris (Sciocoris) ochraceus</i> Fieber, 1861	(Lodos & Önder, 1982)
187	<i>Sciocoris (Sciocoris) sulcatus</i> Fieber, 1851	(Kıyak, 1990)
188	<i>Stagonomus amoenus</i> Brullé, 1832	(Kıyak, 1990)
189	<i>Stagonomus bipunctatus bipunctatus</i> Linnaeus, 1758	(this paper)
190	<i>Stagonomus devius</i> Seidenstücker, 1965	(this paper)
191	<i>Staria lunata</i> (Hahn, 1835)	(Wagner, 1959)
192	<i>Tarisa virescens</i> Herrich-Schäffer, 1851	(Lodos & Önder, 1978)
193	<i>Tholagmus flavolineatus</i> (Fabricius, 1798)	(Kıyak, 1990)
194	<i>Trochiscocoris hemipterus</i> (Jakovlev, 1879)	(this paper)
195	<i>Tshingisella bella</i> Kiritshenko, 1913	(Dioli & Özgen, 2018)
196	<i>Ventocoris (Ventocoris) horvathi</i> (Puton, 1896)	(Dursun & Fent, 2013)
197	<i>Ventocoris (Ventocoris) rusticus</i> (Fabricius, 1781)	(Çerçi et al., 2018)
PYRRHOCORIDAE (3)		
198	<i>Pyrrhocoris apterus</i> (Linnaeus, 1758)	(Kıyak, 1990)
199	<i>Pyrrhocoris marginatus</i> (Kolenati, 1845)	(Çerçi et al., 2018)
200	<i>Scantius aegyptius aegyptius</i> (Linnaeus, 1758)	(Yazıcı et al., 2015)
REDUVIIDAE (13)		
201	<i>Callistodema fasciata</i> (Kolenati, 1857)	(this paper)
202	<i>Coranus (Coranus) griseus</i> (Rossi, 1790)	(Çerçi et al., 2018)
203	<i>Coranus (Coranus) tuberculifer</i> Reuter, 1881	(this paper)
204	<i>Nagusta goedelii</i> (Kolenati, 1857)	(Çerçi et al., 2018)
205	<i>Oncocephalus pilicornis</i> Reuter, 1882	(Çerçi et al., 2018)
206	<i>Oncocephalus squalidus</i> (Rossi, 1790)	(Çerçi et al., 2018)
207	<i>Peirates hybridus</i> (Scopoli, 1763)	(Özgen et al., 2021)
208	<i>Reduvius pallipes</i> Klug, 1830	(Kıyak, 1990)
209	<i>Reduvius testaceus</i> (Herrich-Schäffer, 1845)	(Kıyak, 1990)
210	<i>Rhynocoris (Rhynocoris) ibericus</i> Kolenati, 1857	(Kıyak, 1990)
211	<i>Rhynocoris (Rhynocoris) iracundus</i> (Poda, 1761)	(Kıyak, 1990)
212	<i>Rhynocoris (Rhynocoris) punctiventris</i> (Herrich-Schäffer, 1846)	(Kıyak, 1990)
213	<i>Vachiria deserta</i> (Becker, 1867)	(Önder, 1980)
RHOPALIDAE (19)		
214	<i>Agraphopus lethierryi</i> Stål, 1872	(this paper)
215	<i>Agraphopus suturalis</i> Reuter, 1900	(Kıyak, 1990)
216	<i>Brachycarenum languidus</i> (Horváth, 1891)	(Kıyak, 1990)

217	<i>Brachycarenum tigrinus</i> (Schilling, 1829)	(Pehlivan, 1981)
218	<i>Chorosoma schillingii</i> (Schilling, 1829)	(Pehlivan, 1981)
219	<i>Corizomorpha janowskyi</i> (Jakovlev, 1883)	(Özgen et al., 2021)
220	<i>Corizus hyoscyami hyoscyami</i> (Linnaeus, 1758)	(Kıyak, 1990)
221	<i>Limacocarenum curtulus</i> Kiritschenko, 1914	(this paper)
222	<i>Liorhyssus hyalinus</i> (Fabricius, 1794)	(Kıyak, 1990)
223	<i>Maccevethus caucasicus</i> (Kolenati, 1845)	(Pehlivan, 1981)
224	<i>Maccevethus corsicus corsicus</i> Signoret, 1862	(Kıyak, 1990)
225	<i>Rhopalus (Aeschyntelus) maculatus</i> (Fieber, 1837)	(Wagner, 1962)
226	<i>Rhopalus (Rhopalus) conspersus</i> (Fieber, 1837)	(Çerçi et al., 2018)
227	<i>Rhopalus (Rhopalus) subrufus</i> (Gmelin, 1790)	(Kıyak, 1990)
228	<i>Rhopalus (Rhopalus) parumpunctatus</i> Schilling, 1829	(Pehlivan, 1981)
229	<i>Stictopleurus abutilon</i> (Rossi, 1790)	(Pehlivan, 1981)
230	<i>Stictopleurus pictus</i> (Fieber, 1861)	(Pehlivan, 1981)
231	<i>Stictopleurus punctatonervosus</i> (Goeze, 1778)	(Yıldırım et al., 2011)
232	<i>Stictopleurus subtomentosus</i> (Rey, 1888)	(Matocq et al., 2014)
RHYPAROCHROMIDAE (24)		
233	<i>Aphanus rolandri</i> (Linnaeus, 1758)	(Kıyak, 1990)
234	<i>Beosus quadripunctatus</i> (Müller, 1766)	(Matocq et al., 2014)
235	<i>Beosus maritimus</i> (Scopoli, 1763)	(Kıyak, 1990)
236	<i>Emblethis brachynotus</i> Horváth, 1897	(Kıyak, 1990)
237	<i>Emblethis griseus</i> (Wolff, 1802)	(Kıyak, 1990)
238	<i>Emblethis osmanus</i> Seidenstücker, 1963	(Yazıcı et al., 2015)
239	<i>Gonianotus marginepunctatus</i> (Wolff, 1804)	(Çerçi et al., 2018)
240	<i>Lasiocoris anomalus</i> (Kolenati, 1845)	(Kıyak, 1990)
241	<i>Lasiocoris crassicornis</i> (Lucas, 1849)	(Kıyak, 1990)
242	<i>Megalonotus colon</i> Puton, 1874	(Çerçi et al., 2018)
243	<i>Megalonotus scaurus</i> Seidenstücker, 1973	(Seidenstücker, 1973)
244	<i>Megalonotus sopenus</i> Seidenstücker, 1973	(Seidenstücker, 1973)
245	<i>Neurocladus brachiidens</i> (Dufour, 1851)	(Péricart, 1998b)
246	<i>Pezocoris apicimacula</i> (A. Costa, 1853)	(Özgen & Dioli, 2019)
247	<i>Plinthisus (Plinthisus) longicollis</i> Fieber, 1861	(Çerçi et al., 2018)
248	<i>Proderus bellevoeyi</i> Puton, 1874	(Çerçi et al., 2018)
249	<i>Raglius confusus</i> (Reuter, 1886)	(Kıyak, 1990)
250	<i>Rhyparochromus phoeniceus</i> (Rossi, 1794)	(Kıyak, 1990)

251	<i>Rhyparochromus sanguineus</i> (Douglas & Scott, 1868)	(Çerçi et al., 2018)
252	<i>Scolopostethus thomsoni</i> Reuter, 1875	(Matocq et al., 2014)
253	<i>Tropistethus fasciatus</i> Ferrari, 1874	(Özgen & Dioli, 2019)
254	<i>Xanthochilus minusculus</i> (Reuter, 1885)	(this paper)
255	<i>Xanthochilus quadratus</i> (Fabricius, 1798)	(Kıyak, 1990)
256	<i>Xanthochilus saturnius</i> (Rossi, 1790)	(Kıyak, 1990)
SCUTELLERIDAE (14)		
257	<i>Eurygaster austriaca</i> (Schrank, 1776)	(Brown & Eralp, 1962)
258	<i>Eurygaster integriceps</i> Puton, 1881	(Brown & Eralp, 1962)
259	<i>Eurygaster maura</i> (Linnaeus, 1758)	(Matocq et al., 2014)
260	<i>Irochrotus maculiventris</i> (Germar, 1839)	(Çerçi et al., 2018)
261	<i>Odontoscelis (Odontoscelis) dorsalis</i> (Fabricius, 1798)	(Kıyak, 1990)
262	<i>Odontoscelis (Odontoscelis) fuliginosa</i> (Linnaeus, 1761)	(Kıyak, 1990)
263	<i>Odontoscelis (Odontoscelis) litura</i> (Linnaeus, 1775)	(Matocq et al., 2014)
264	<i>Odontotarsus impictus</i> Jakovlev, 1886	(Kıyak, 1990)
265	<i>Odontotarsus plicatulus</i> Horváth, 1906	(Kıyak, 1990)
266	<i>Odontotarsus robustus</i> Jakovlev, 1884	(Matocq et al., 2014)
267	<i>Odontotarsus rufescens</i> Fieber, 1861	(Kıyak, 1990)
268	<i>Psacasta (Cryptodontus) tuberculata</i> (Fabricius, 1781)	(Özgen, 2012)
269	<i>Psacasta (Psacasta) cypria</i> Puton, 1881	(Kıyak, 1990)
270	<i>Psacasta (Psacasta) exanthematica exanthematica</i> (Scopoli, 1763)	(Kıyak, 1990)
STENOCEPHALIDAE (2)		
271	<i>Dicranocephalus agilis</i> (Scopoli, 1763)	(Kıyak, 1990)
272	<i>Dicranocephalus albipes</i> (Fabricius, 1781)	(Pehlivan, 1981)
TINGIDAE (21)		
273	<i>Catoplatus hilaris</i> Horváth, 1906	(Maral et al., 2013)
274	<i>Catoplatus horvathi</i> (Puton, 1878)	(Kıyak, 1990)
275	<i>Copium adumbratum</i> (Horváth, 1891)	(this paper)
276	<i>Copium teucarii</i> (Host, 1788)	(Lodos & Önder, 1983)
277	<i>Dictyla echii</i> (Schrank, 1782)	(Lodos & Önder, 1983)
278	<i>Dictyla nassata nassata</i> Puton, 1874	(Maral et al., 2013)
279	<i>Dictyla rotundata</i> (Herrich-Schäffer, 1835)	(Lodos & Önder, 1983)
280	<i>Dictyla triconula</i> (Seidenstücker, 1954)	(Lodos & Önder, 1983)
281	<i>Elasmotropis testacea selecta</i> (Horváth, 1891)	(Lodos & Önder, 1983)
282	<i>Lasiacantha hedenborgii</i> (Stål, 1873)	(Maral et al., 2013)
283	<i>Monosteira lobulifera</i> Reuter, 1888	(Lodos & Önder, 1983)

284	<i>Monosteira unicastata</i> (Mulsant & Rey, 1852)	(Lodos & Önder, 1983)
285	<i>Physatocheila confinis</i> Horváth, 1905	(Maral et al., 2013)
286	<i>Physatocheila municeps</i> Horváth, 1903	(Lodos & Önder, 1983)
287	<i>Stephanitis (Stephanitis) oschanini</i> Vasiliev, 1935	(this paper)
288	<i>Stephanitis (Stephanitis) pyri</i> (Fabricius, 1775)	(Lodos & Önder, 1983)
289	<i>Tingis (Tingis) angustata</i> (Herrich-Schäffer, 1838)	(Maral et al., 2013)
290	<i>Tingis (Tingis) auriculata</i> (A. Costa, 1847)	(Maral et al., 2013)
291	<i>Tingis (Tropidocheila) ciliaris</i> (Puton, 1879)	(Péricart, 1983)
292	<i>Tingis (Tingis) grisea</i> Germar, 1835	(Maral et al., 2013)
293	<i>Tingis (Tropidocheila) hellenica hellenica</i> (Puton, 1877)	(Maral et al., 2013)

DISCUSSION

Heteroptera fauna of Elazığ was studied by native and foreign researchers since the beginning of 1950s. Although these studies and the current one reported a total of 293 Heteroptera species, this number most possibly underestimates the true diversity of Heteroptera fauna of Elazığ. Due to its geographical location, Elazığ seems to be a meeting point for European species at their eastern margin of distribution and Central Asian and Turanian species at their western margin of distribution. *Adelphocoris vandalicus*, *Acetropis (Acetropis) carinata*, *Deraeocoris (Deraeocoris) trifasciatus*, *Icodema infuscata*, *Carpocoris (Carpocoris) melanocerus* and *Eurygaster austriaca* are some examples for such European species whereas *Camptopus tragacanthae*, *Stenodema (Stenodema) turanica*, *Prostemma (Prostemma) guttula asiaticum*, *Aelia alticola*, *Tshingisella bella* and *Limnacocarnus curtulus* are some examples for such Central Asian and Turanian species. As demonstrated in this study, a short field research conducted in several localities in a few days could easily allow us to discover more than a dozen new species for the fauna of Elazığ and a new species for the fauna of Turkey. It will not be surprising if a more extensive field research focused on many localities in Elazığ gives birth to many new discoveries for the region, the country and even for science.

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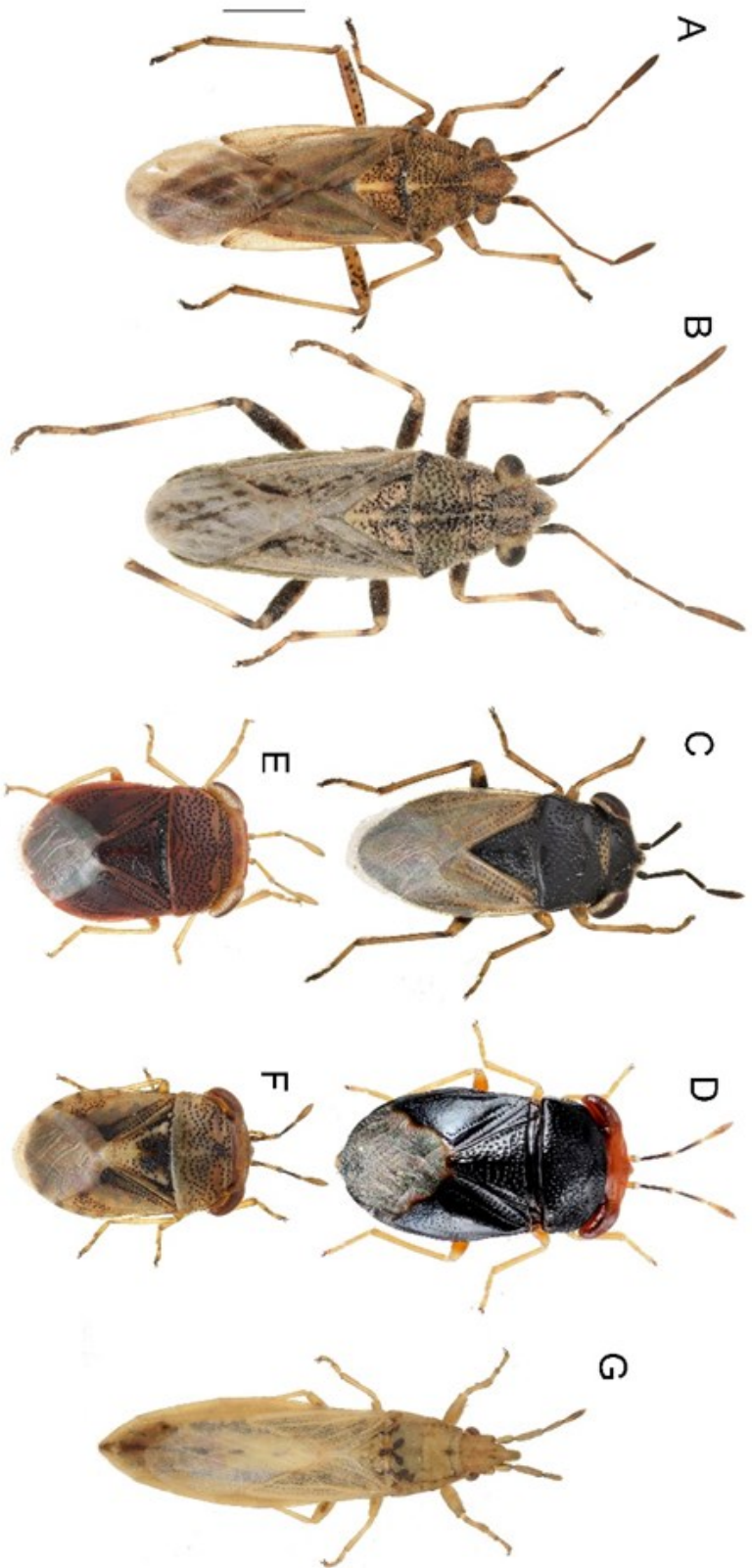


Figure 1A-G. **A**–*Nysius helveticus* (Herrich-Schäffer, 1850), **B**–*Ortholomus carinatus* (Lindberg, 1932), **C**–*Geocoris* (*Geocoris*) *pubescens* (Jakovlev, 1871), **D**–*Geocoris* (*Piocoris*) *erythrocephalus* (Lepelletier & Serville, 1825), **E**–*Geocoris* (*Piocoris*) *putoniid-nus* Bergroth, 1892, **F**–*Geocoris* (*Piocoris*) *luridus* (Fieber, 1844), **G**–*Gymnophyes ochroleuca* Fieber, 1870. (Scale bar 1 mm)

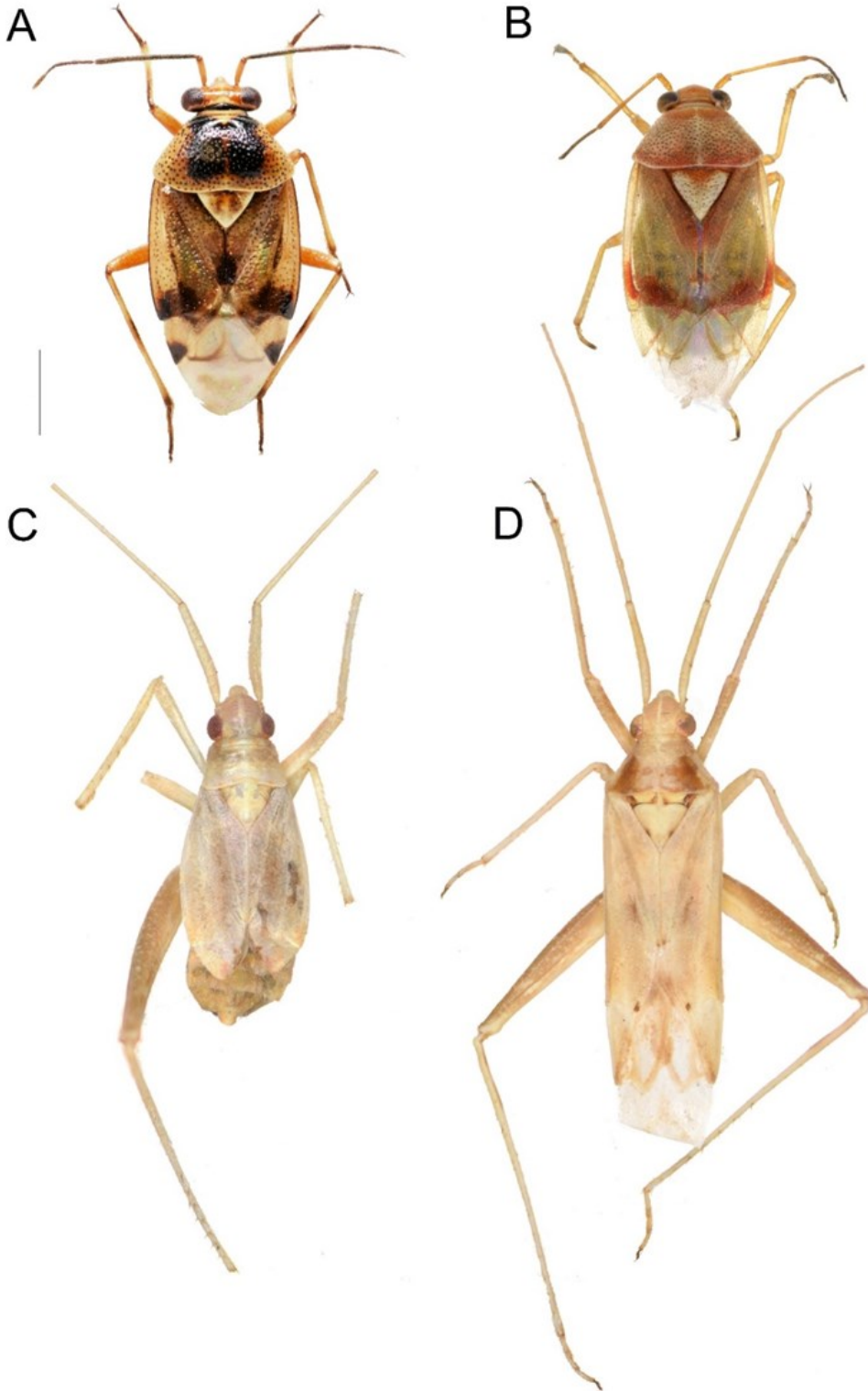


Figure 2A-D. **A-** *Deraeocoris (Camptobrochis) serenus* (Douglas & Scott, 1868), **B-** *Orthops (Montanorthops) pilosulus* Jakovlev, 1877, **C-** *Phytocoris (Eckerleinus) niveatus* Horváth, 1891, female, **D** - *idem*, male. (Scale bar 1 mm)

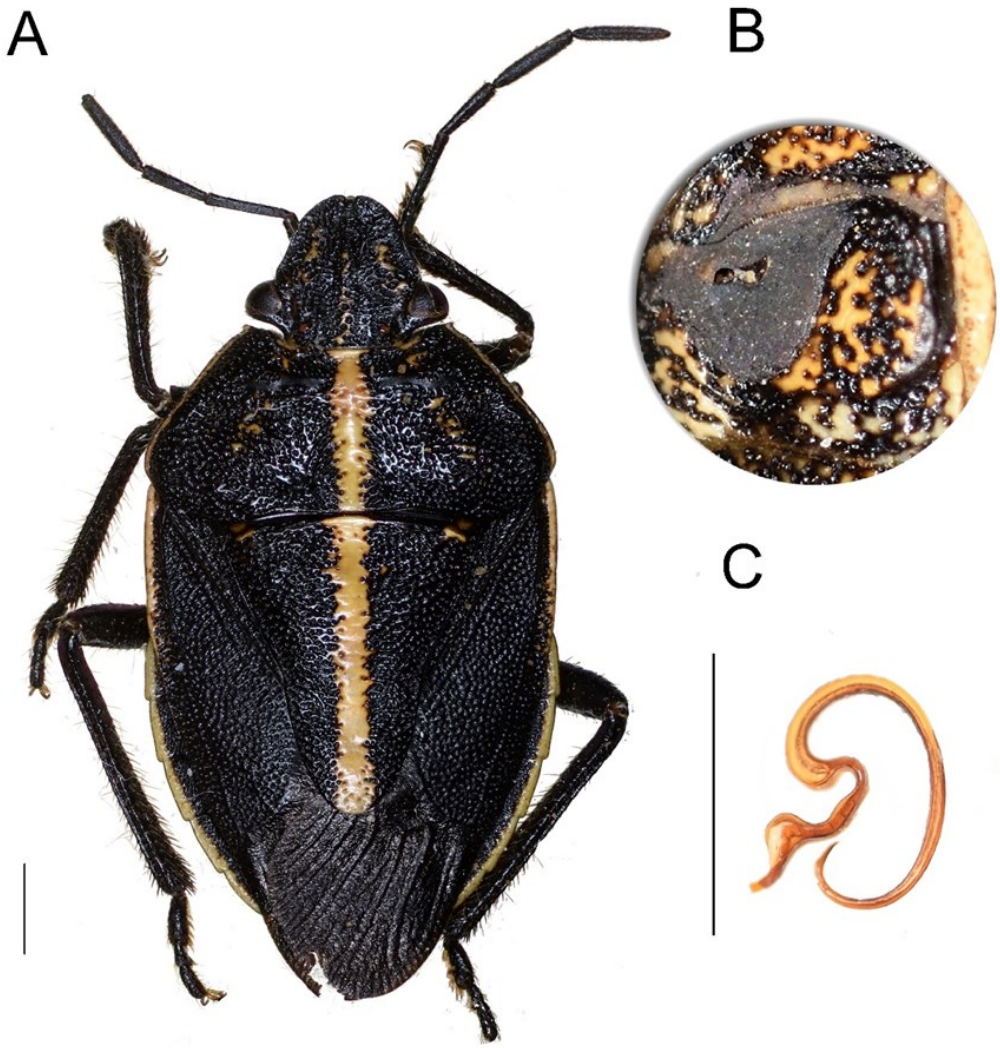


Figure 3A-C. **A-** *Agatharchus (Agatharchus) ponticus* Belousova, 1999, dorsal habitus, male, **B-** *idem*, evaporatory area of scent gland, **C-** *idem*, vesica. (Scale bars 1 mm)

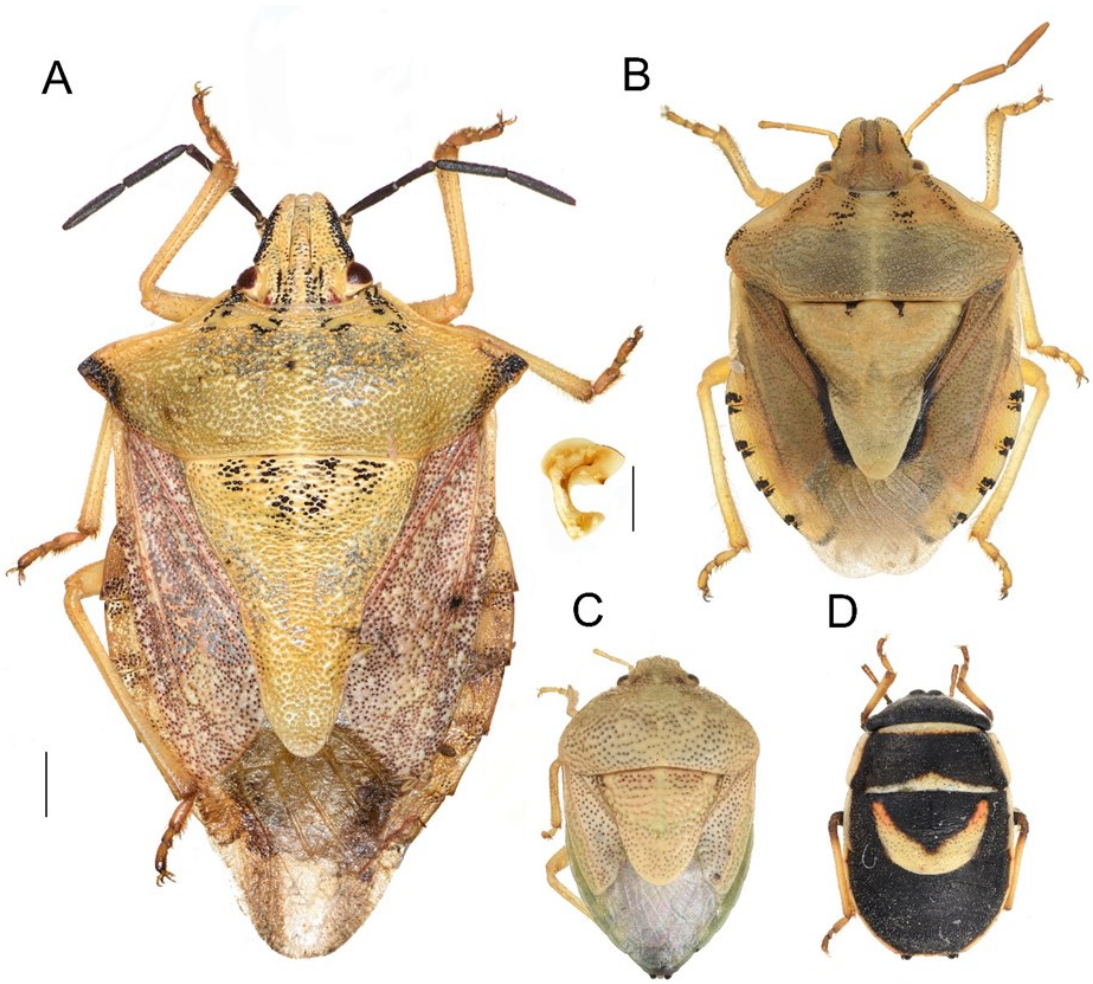


Figure 4A-D. **A-** *Carpocoris (Carpocoris) coreanus* Distant, 1899, its paramere next to it (Scale bar of the paramere 0.5 mm), **B-** *Antheminia lunulata* (Goeze, 1778), **C-** *Stagonomus devius* Seidenstücker, 1965, **D-** *Trochiscocoris hemipterus* (Jakovlev, 1879). (Scale bar 1 mm)

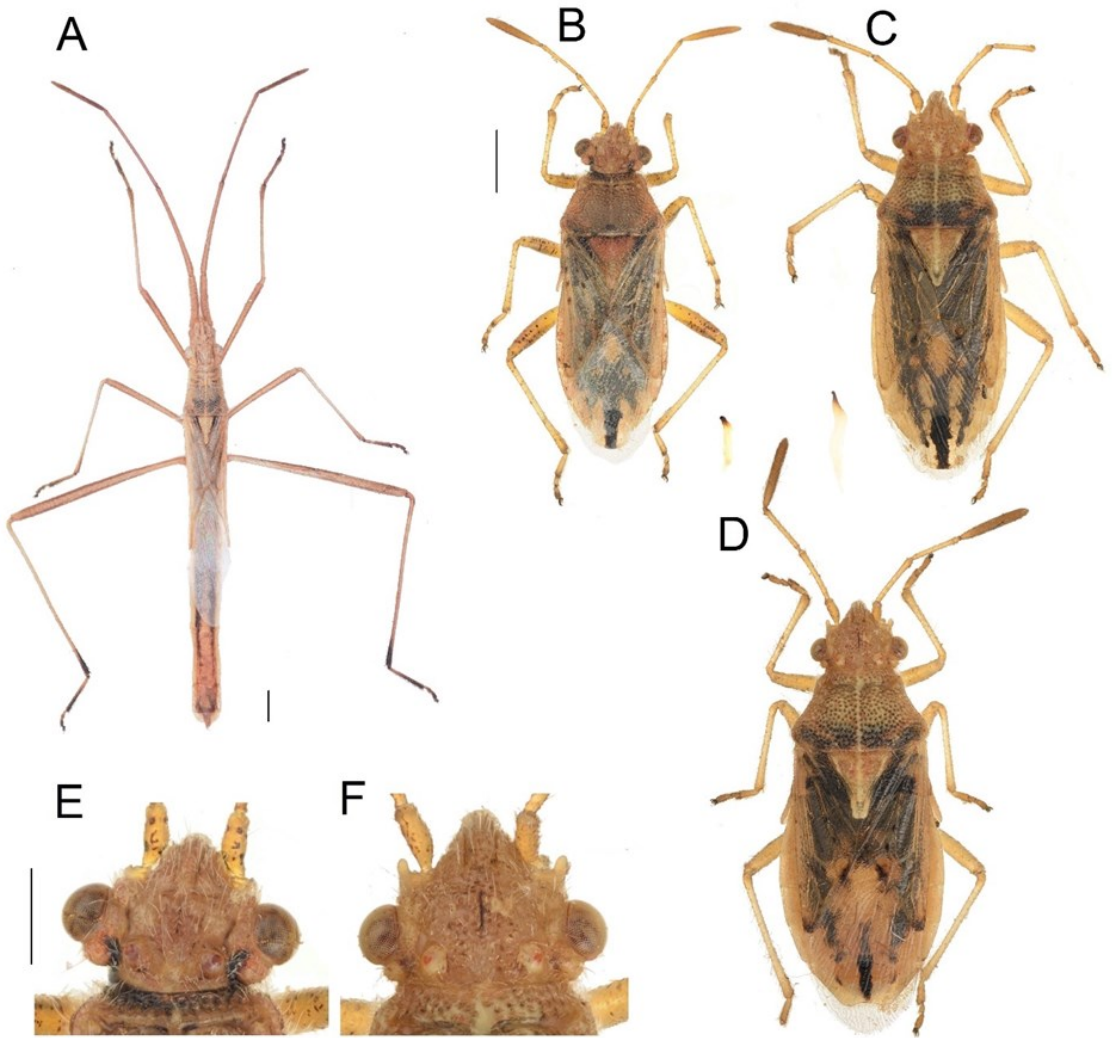


Figure 5A-D. **A-** *Chorosoma schillingii* (Schilling, 1829), (Scale bar 1 mm), **B-** *Rhopalus* (*Rhopalus*) *parumpunctatus* Schilling, 1829, male with left paramere, **C-** *Limacocarenum curtulus* Kiritshenko, 1914, male with left paramere, **D-** *idem*, female, (Scale bar 1 mm), **E** - *Rhopalus* (*Rhopalus*) *parumpunctatus* Schilling, 1829, head, **F** - *Limacocarenum curtulus* Kiritshenko, 1914, head, (Scale bar 0.5 mm).

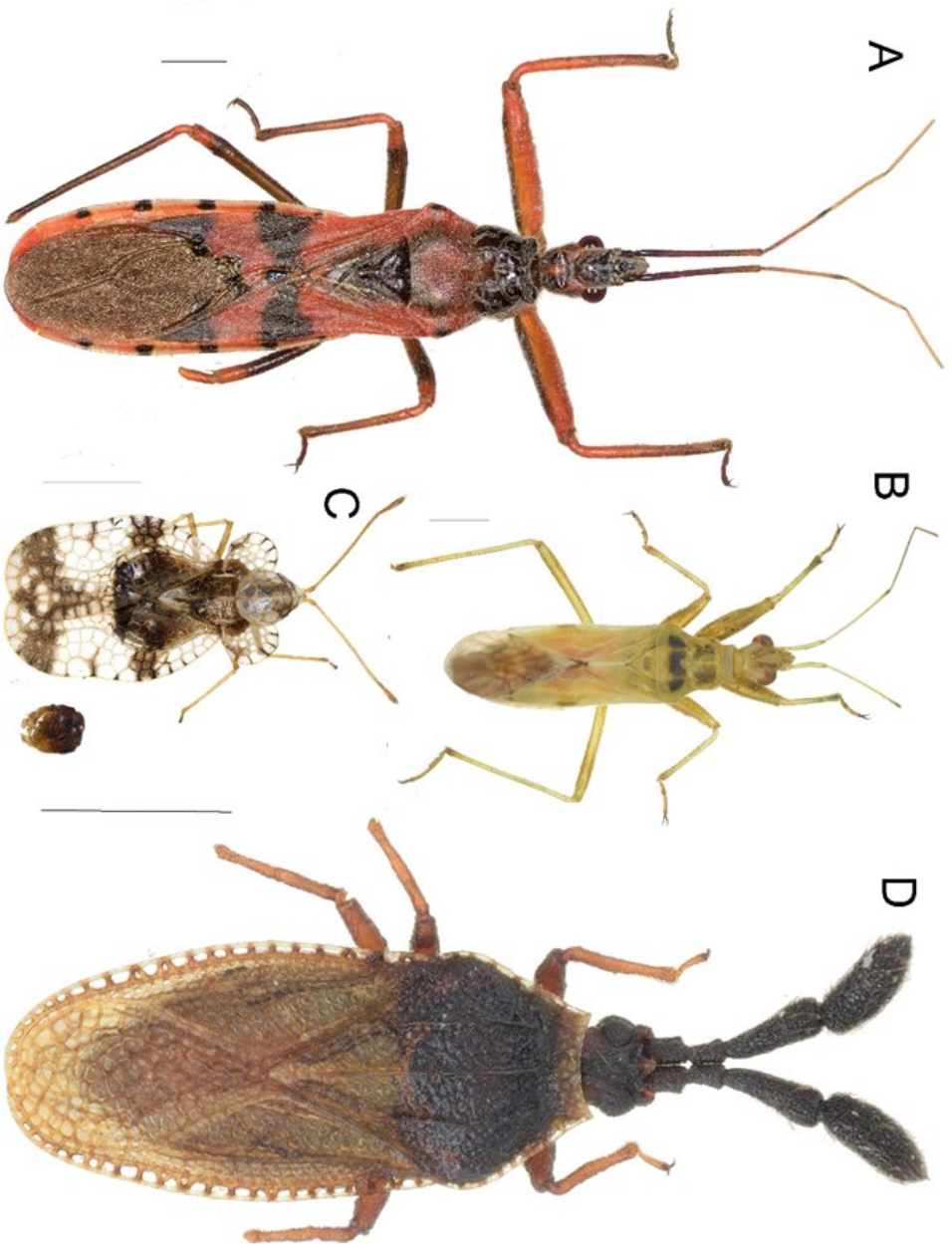


Figure 6A-D. **A-** *Callistodema fasciata* (Kolenati, 1857), **B-** *Nabis (Aspiaspis) viridulus* Spinola, 1837, **C-** *Stephanitis (Stephanitis) oschanini* Vasiliev, 1935 (with pygophore), **D -** *Copium adumbratum* (Horváth, 1891). (Scale bars 1 mm)