

**Studies on the Nepomorpha, Gerromorpha,
Leptopodomorpha, and Miridae excluding Phylini
(Hemiptera: Heteroptera) of Khuzestan and
the adjacent provinces of Iran**

Rauno E. LINNAVUORI

Saukkokuja 10, FIN-21220 Raisio, Finland; e-mail: rauno.linnavuori@kolumbus.fi

Abstract. A list of 127 true bug species belonging to the families Nepidae (1 species), Belostomatidae (1 species), Corixidae (11 species), Notonectidae (3 species), Hydrometridae (1 species), Veliidae (2 species), Gerridae (2 species), Saldidae (3 species), Leptopodidae (1 species), and Miridae (Deraeocorinae, Bryocorinae, Mirinae, Orthotylinae, and Phylinae: Hallodapini and Pilophorini) (102 species) from Khuzestan and adjacent provinces in southern Iran is published. One new species, *Phytocoris (Compsocerochoris) bavanus* sp. nov., is described, and the original description of *Phytocoris (Compsocerochoris) thisbe* Linnavuori, 1999 is complemented. The following 13 species and subspecies of the Miridae are recorded from Iran for the first time: *Deraeocoris (Camptobrochis) pallens atramentarius* Linnavuori, 1975, *Trigonotylus subulifer* Golub, 1989, *Camponotidea fieberi* (Reuter, 1879), *Adelphocoris insignis* Horváth, 1898, *Agnocoris rubicundus* (Fallén, 1807), *Calocoris roseomaculatus angularis* (Fieber, 1864), *Megacoelum irbilanum* Linnavuori, 1988, *Stenotus brevior* Poppius, 1910, *Brachynotocoris viticinus* Seidenstücker, 1954, *Orthotylus (Melanotrichus) nigricollis* Wagner, 1962, *Reuteria jordanica* Carapezza, 2002, *Zanclus alatanus* Hoberlandt, 1956, and *Hallodapus pilosus* Reuter, 1882.

Key words. Heteroptera, Nepidae, Belostomatidae, Corixidae, Notonectidae, Hydrometridae, Veliidae, Gerridae, Saldidae, Leptopodidae, Miridae, faunistics, new species, new records, Iran, Khuzestan

Introduction

The large and diverse territory of Iran harbours rich flora and fauna including the true bugs (Hemiptera: Heteroptera). Extensive research on Iranian true bugs in the past decade revealed 58 new species and subspecies (GOLUB 2006; HEISS 2004; HEISS & LINNAVUORI 2002; LINNAVUORI 1999, 2000a,b, 2004a, 2006, 2008a; LINNAVUORI & HEISS 2008; LINNAVUORI & HOSSEINI

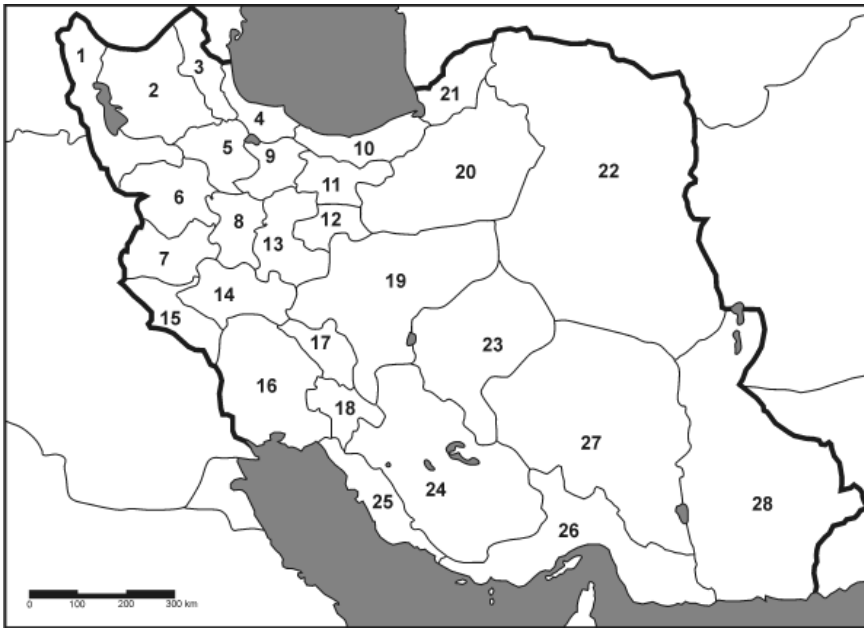


Fig. 1. Provinces of Iran. 1 – West Azerbaijan; 2 – East Azerbaijan; 3 – Ardabil; 4 – Gilan; 5 – Zanjan; 6 – Kurdistan; 7 – Kermanshah; 8 – Hamedan; 9 – Ghazvin; 10 – Mazandaran; 11 – Tehran; 12 – Qom; 13 – Markazi; 14 – Lorestan; 15 – Ilam; 16 – Khuzestan; 17 – Chaharmahal & Bakhtiari; 18 – Kohgiluyeh & Boyerahmad; 19 – Esfahan; 20 – Semnan; 21 – Golestan; 22 – Khorasan; 23 – Yazd; 24 – Fars; 25 – Bushehr; 26 – Hormozgan; 27 – Kerman; 28 – Sistan & Baluchestan (after ALIPANAH & USTJUZHANIN 2005).

1999, 2000a; LIS 2001a,b; MAGNIEN 2006; MOULET 2004; PÉRICART 2007; RÉDEI 2005; RIBES & PAGOLA-CARTE 2007) and hundreds of new records for the fauna of Iran and individual provinces (see, e.g., FALAMARZI et al. 2009; GHAHARI et al. 2008, 2009; GAPON 2007; GOLUB 2002; HEISS 2002; KMENT & JINDRA 2005, 2008; LINNAVUORI 2004b,c, 2007a,b,c, 2008b; LINNAVUORI & HOSSEINI 2000b; LINNAVUORI & MODARRES 1999a,b; MOULET et al. 2008). Despite this remarkable progress, there are still many areas of Iran which were sampled only sporadically and descriptions of additional new taxa are still to be expected.

The Khuzestan province (Fig. 1), total area 64,000 km², is located in the southwest of Iran and borders the Basra Province of Iraq in the west and the Persian Gulf in the south. In the north, east, and south-east it is surrounded by the provinces of Ilam, Lorestan, Chaharmahal & Bakhtiari, Kohgiluyeh & Boyerahmad, Fars, and Bushehr. Khuzestan is divided into two subregions, plains drained by the Karun, Karkheh and Jarahi rivers in the south and west and southern parts of the Zagros mountain ranges in the north and east of the province.

The vegetation of Khuzestan consists of the following six zones (DINARVAND 2003):

1. Vegetation of wetlands and tidal flats. The main plant species are *Typha australis* and *Phragmites australis*. Other plants are, e.g., *Ceratophyllum domesticum*, *Nitraria retusa* and *Scirpus lacustris*.

2. Vegetation of low and salty plains with various dominant species of Chenopodiaceae. Typical plants are, e.g., *Atriplex* spp., *Halocnemum strobilaceum*, *Medicago* spp., *Prosopis farcta*, *Salsola* and *Suaeda* spp.

3. Vegetation of hills and high grounds with trees and shrubs. Characteristic species are, e.g., *Centaurea* spp., *Echinops dichorus*, *Glycyrrhiza glabra*, *Populus euphratica*, *Prosopis koelziana*, *Teucrium polium*, *Trifolium* spp., *Zizyphus spina-christi* and *Z. nummularia*.

4. Vegetation of sand dunes with dominant species *Calligonum intertextum* and *Calotropis procera*. Other species are, e.g., *Artemisia scoparia*, *Citrullus colocynthis*, *Cyperus conglomeratus*, *Plantago ovata*, *Stipagrostis* spp. and *Teucrium oliviereanum*.

5. Vegetation of arid forests on the southern slopes of Zagros Mts. with plants such as *Quercus brantii*, *Cupressus sempervirens*, *Pistacia atlantica*, *P. kinjok*, *Amygdalus scoparia*, *Crataegus curvisepala*, *C. microphylla*, *Olea europaea*, *Rosa canina*, *Salvia* spp., *Salix acmophylla* and *Satureja khuzestanica*.

6. Vegetation of mountainside country pastures with plants such as *Astragalus* spp., *Prangus* spp., *Daphne* spp. and *Tanacetum* spp.

Material and methods

This paper is mainly based on investigations made together with my wife Sakineh Linnavuori in 2006–2008. The main sampling effort was concentrated to Khuzestan, but we visited also the surrounding provinces of Ilam, Lorestan, Chaharmahal & Bakhtiari, Kohgiluyeh & Boyerahmad, Fars, and Bushehr. The collecting trips were also prolonged along the Iraqi border to Kermanshah, Kurdistan, East and West Azerbaijan provinces. A few additional records based on material collected during my earlier field trips are given as well.

The specimens are preserved in the Linnavuori collection (Raisio, Finland), the National Museums and Galleries of Wales (Cardiff, United Kingdom), and the College of Agriculture in the Gilan University (Rasht, Iran). When the exact number of specimens is not given, the following approximations are used: several = 5–16, many = 11–20, and numerous > 20 specimens. Most of the material was collected at light traps.

The system and nomenclature follow ANDERSEN (1995), LINDSKOG (1995), POLHEMUS et al. (1995) and KERZHNER & JOSIFOV (1999).

Results

LIST OF SPECIES

Infraorder Nepomorpha

Family Nepidae

Ranatra unicolor Scott, 1874

Material examined. KHUZESTAN: Shadegan, 1 specimen, 9.–10.vi.2008.

Comments. At light on a shore of a marsh area with *Phragmites* and *Scirpus*. Central-Asian species, extending from south Russia and the Middle East to Korea, China and Japan.

Family Belostomatidae

Lethocerus patruelis (Stål, 1854)

Material examined. KHUZESTAN: Shadegan, 2 specimens, 9.–10.vi.2008.

Comments. At light on a shore of a marsh area with *Phragmites* and *Scirpus*. Extending from south-east Europe and the Middle East to India, Nepal and Burma.

Family Corixidae

Subfamily Micronectinae

Micronecta (Micronecta) anatolica anatolica Lindberg, 1922

Material examined. KHUZESTAN: Andimeshk – Tangvan, several specimens, 9.–10.vi.2008; Zeydoon, 26.–28.iv.2007.

Comments. At light on a bank of a brook with *Phragmites* and other vegetation. Extending from the Middle East and Central Asia to South Asia as far as Vietnam.

Subfamily Cymatiinae

Cymatia rogenhoferi (Fieber, 1864)

Material examined. WEST AZERBAIJAN: Marangalu near Urumiyeh, numerous specimens, 15.–17.vii.2004.

Comments. At light on a shore of a salt marsh. Pontomediterranean, extending to Algeria, Central Europe, the Middle East, Central Asia and India.

Subfamily Corixinae

Corixa affinis Leach, 1817

Material examined. WEST AZERBAIJAN: Marangalu near Urumiyeh, numerous specimens, 15.–17.vii.2004.

Comments. At light on a shore of a salt marsh. Holomediterranean, extending to Central Europe, Northern Africa, the Middle East, Central Asia and India.

Heliocorisa vermiculata (Puton, 1874)

Material examined. KHUZESTAN: numerous specimens from Abadan, 21.–22.iv.2007, 10.–11.vi. 2008; near Ahvaz, Ghazavieh, 7.–8.vi.2005; near Ahvaz, Karun river, 10.–11.vi.2006, 29.iv.–4.v.2007; Ahvaz, Jangieh, 11.–12.vi.2006; near Andimeshk, 19.–20.iv.2007; Bandae-e-Mahshar, 12.–13.vi.2006; near Lali, 6.–8.vi.2007, 6.–7.vi.2008; Ramhormoz, 7.–9.vi.2008; Sadde-e-Dez, 6.–7.vi.2005; Shadegan, 13.–14.vi.2006, 20.–21.iv.2007; Zeydoon, 26.–28.iv.2007. **BUSHEHR:** several specimens from Ab Pakhsh, 25.–26.iv.2007; near Bandar-e-Genaveh, 23.–24.iv.2007. **FARS:** Maharlu, 1 specimen, 15.–16.vi.2006; Takht-e-Jamshid, 1 specimen, 14.–15.vi.2002. **ILAM:** near Eyvan, 1 specimen, 9.–10.vi.2005; Ilam, 1 specimen, 21.–22.vi.2006. **KURDESTAN:** 20 km NE Marivan, 1 specimen, 24.–25.vi.2006.

Comments. Common in pools, brooks and rivers with *Phragmites* and other vegetation. Holomediterranean, extending to North Africa, the Middle East, Central Asia and the Oriental Region.

***Hesperocorixa occulta* (Lundblad, 1929)**

Material examined. FARS: Estahban, 1710 m a.s.l., 1 specimen, 10.–11.vi.1996. SEMNAN: 20 km SW of Biarjomand, 2 specimens, 1996.

Comments. At light near a brook with *Carex* and *Juncus*. Irano-Turanian, also known from the Himalayas.

***Sigara (Eremocorixa) iranica* Lindberg, 1964**

Material examined. FARS: Arzhan, 5 specimens, 19.–20.vi.2008; Bavan near Nur Abad, 1 specimen, 20.–21.vi.2008; Dasht-e-Arzhan, numerous specimens, 16.–17.vi.2002. ILAM: near Eyvan, 1 specimen, 9.–10.vi.2005.

Comments. At light near pools in gardens. Endemic to Iran.

***Sigara (Pseudovermicorixa) nigrolineata nigrolineata* (Fieber, 1848)**

Material examined. KERMANSHAH: Javanrud, 1 specimen, 10.–11.vi.2005. KURDESTAN: 20 km NE of Marivan, 4 specimens, 24.–25.vi.2006. LORESTAN: Kahriz 7 km from Boroujerd, 2 specimens, 8.–9.vi.2006. WEST AZERBAIJAN: 25 km S of Urumiyeh, 2 specimens, 17.vi.2005.

Comments. In pools and slowly flowing brooks. West-Palaeartic, extending to North Africa and the Middle East.

***Sigara (Sigara) assimilis* (Fieber, 1848)**

Material examined. KHUZESTAN: Abadan, 1 specimen, 10.–11.vi.2008; near Ahvaz, several specimens, 29.iv.–1.v.2007; Ahvaz, Ghazavieh, 2 specimens, 7.–8.vi.2005; near Ahvaz, Karun river, several specimens, 10.–11.vi.2006; Bandar-e-Mahshar, 5 specimens, 12.–13.vi.2006; near Ramhormoz, 4 specimens, 7.–9.vi.2005; Shadegan, several specimens, 20.–21.iv.2007, 9.–10.vi.2009. BUSHEHR: Ab Pakhsh, several specimens, 25.–26.iv.2007. EAST AZERBAIJAN: Basmenj, 1 specimen, 14.–15.vii.2004; Saray, 2 specimens, 14.–15.vii.2004. WEST AZERBAIJAN: several specimens from Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–27.vi.2004.

Comments. At salt marshes and in rivers. Pontomediterranean, extending to Central Asia.

***Sigara (Subsigara) samani tigranes* Jansson, 1986**

Material examined. KURDESTAN: Marivan, 3 specimens, 12.–13.vi.2005, 24.–25.vi.2006. LORESTAN: Kahriz 7 km from Boroujerd, 5 specimens, 8.–9.vi.2006.

Comments. At light near lakes and pools. Iranian, known from Iran, Iraq, eastern Turkey and Syria.

***Sigara (Tropocorixa) hoggaria* Poisson, 1929**

Material examined. KHUZESTAN: Abadan, 2 specimens, 10.–11.vi.2008; near Ahvaz, 5 specimens, 29.iv.–1.v.2007; Ahvaz Jangieh, 1 specimen, 11.–12.vi.2006; near Ahvaz, Karun river, 1 specimen, 10.–11.vi.2006; Andimeshk, several specimens, 5.–6.vi.2008; Andimeshk – Tangwan, several specimens, 9.–10.vi.2006; Bagh – Maleh, several specimens, 9.–11.v.2007; Bandar-e-Mashar, 2 specimens, 12.–13.vi.2006; Marun, 5 specimens, 11.–12.vi.2008; near Ramhormoz, several specimens, 7.–9.vi.2008; Sardasht, 2 specimens, 11.–12.vi.2008; Shadegan, 2 specimens, 20.–21.iv.2007; Zeydoon, 1 specimen, 26.–28.iv.2007. BUSHEHR: Ab Pakhsh, 1 specimen, 25.–26.iv.2007. FARS: Baba Arab 50 km SE of Jahram, 1 specimen, 16.–17.vi.2003. MARKAZI: Saveh, 1 specimen, 6.–7.vi.2006.

Comments. At light near brooks and pools with *Phragmites*. Eremian, extending from North Africa to the Middle East, Ethiopia and India.

***Sigara (Vermicorixa) lateralis* (Leach, 1817)**

Material examined. Numerous specimens: **KHUZESTAN:** Abadan, 21.–22.iv.2007; near Ahvaz, 29.iv.–1.v.2007; Ahvaz, Ghazavieh, 7.–8.vi.2005; Ahvaz, Jangieh, 11.–12.vi.2006; near Ahvaz, Karun river, 10.–11.vi.2006; near Andimeshk, 19.–20.iv.2007, 5.–6.vi.2008; Andimeshk – Tangvan, 9.–10.vi.2006; Bagh Malek, 9.–11.v.2007; Behbahan, 27.–28.iv.2007; Dezful, 6.–7.vi.2005; near Marivan, 12.–13.vi.2005, 24.–25.vi.2006; near Ramhormoz, 7.–9.vi.2005; Zeydoon, 26.–28.iv.2007; Sadd-e-Dez, 6.–7.vi.2005; Shadegan, 20.–21.iv.2007, 9.–10.vi.2008. **BUSHEHR:** Ab Pakhs, 25.–26.iv.2007; near Bandar-e-Genaveh, 23.–24.iv.2007. **FARS:** Dasht-e-Arzhan, 16.–17.vi.2002; Farrahsband, 14.–15.vi.2008; Maharlu, 17.–18.vi.2002, 14.–15.vi.2003; 15 km E of Sarvestan, 13.–16.vi.2003; Takht-e-Jamshid, 14.–15.vi.2002. **ILAM:** near Eyvan, 9.–10.vi.2005. **LORESTAN:** near Boroujerd, 4.–5.vi.2005; Kahriz 7 km from Boroujerd, 8.–9.vi.2005. **MARKAZI:** Saveh, 6.–7.vi.2006. **SEMNAN:** 20 km SW of Biarjomand, 13.–14.v.1996; Dasht-e-Arzan, 16.–17.v.1995; Rowyan, 16.–17.vi.2003; Semnan, 16.–17.vii.2005. **WEST AZERBAIJAN:** Kitkeh 50 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh 15.–17.vii.2004; Nushin Sar near Urumiyeh, 15.–17.vi.2005, 25.–26.vi.2006; 25 km S of Urumiyeh, 17.vi.2005. **ZANJAN:** Abbar, 29.ix.–9.x.2000; Mamalan, 29.ix.–9.x.2000.

Comments. Common in pools and slowly flowing brooks and rivers. Holopalaeartic, extending to tropical Africa and India.

Family Notonectidae

Subfamily Anisopinae

***Anisops crinitus* Brooks, 1951**

Material examined. **KHUZESTAN:** near Ahvaz Karun river, 2 specimens, 10.–11.vi.2006; Andimeshk – Tangvan, 1 specimen, 9.–10.vi.2006.

Comments. In brooks with abundant vegetation like *Phragmites* and *Juncus*. Oriental, known from India, Pakistan, Iran, Iraq, Saudi Arabia and an isolated find from Corfu.

***Anisops sardeus sardeus* Herrich-Schaeffer, 1849**

Material examined. **KHUZESTAN:** Ahvaz Jangieh, 1 specimen, 11.–12.vi.2006; near Ahvaz, Karun river, 1 specimen, 10.–11.vi.2006; Dezful, 1 specimen, 6.–7.vi.2005.

Comments. In pools and rivers. Holomediterranean with a wide range in tropical Africa, India and Burma.

Subfamily Notonectinae

***Notonecta (Notonecta) viridis* Delcourt, 1909**

Material examined. **EAST AZERBAIJAN:** Agh Gonbad, 1 specimen, 14.–15.vii.2004. **FARS:** Tang-e-Bostanak, 1650 m a.s.l., 2 specimens, 8.–9.vi.1996. **KERMANSHAH:** near Javanrud, 1 specimen, 10.–11.vi.2005. **WEST AZERBAIJAN:** Marangalu near Urumiyeh, 1 specimen, 25.–27.vii.2004.

Comments. At light on shores of lakes and salt marshes. Holomediterranean, extending to Central Asia, Pakistan and India.

Infraorder Gerromorpha

Family Hydrometridae

***Hydrometra stagnorum* (Linnaeus, 1758)**

Material examined. **FARS:** Tang-e-Bostanak, 1650 m a.s.l., 9 specimens, 8.–9.vi.1996.

Comments. In pools. European, extending to North Africa and Central Asia.

Family Veliidae
Subfamily Microveliinae

***Microvelia (Picaultia) macani* Brown, 1953**

Material examined. KHUZESTAN: Abadan, 2 specimens, 5.–6.vi.2008; Andimeshk, 2 specimens, 5.–6.vi.2008; Andimeshk – Tangvan, 9 specimens, 9.–10.vi.2006.

Comments. In pools with rich vegetation of *Phragmites*, *Juncus* and sedges. Eremian, occurring in the Arabian Peninsula, Israel, Iraq and Iran. The subgeneric placement of the species was revisited by ANDERSEN & WEIR (2003).

Subfamily Veliinae

***Velia (Pseudovelia) affinis affinis* Kolenati, 1857**

Material examined. FARS: Tang-e-Bostanak, 1650 m a.s.l., 16 specimens, 8.–9.vi.1996. SEMNAN: 20 km SW of Biarjomand, 3 specimens, 13.–14.v.1996.

Comments. In brooks. Irano-Turanian.

Family Gerridae

***Gerris (Gerris) costae fieberi* Stichel, 1938**

Material examined. FARS: Estahban, 1710 m a.s.l., 1 specimen, 10.–11.vi.1996; 15 km E of Sarvestan, several specimens, 15.–16.vi.2003; Tang-e-Bostanak, 3 specimens, 1650 m a.s.l., 3 specimens, 8.–9.vi.1996; Zarqan Bamoon Nat. Park, 1650 m a.s.l., several specimens, 13.–14.vi.1996. KOHGLUYEH & BOYERAHMAD: Tang Sorkh 35 km SE of Yasuj, 1 specimen, 18.–19.vi.2003.

Comments. In brooks. Pontomediterranean, extending to Central Asia.

***Gerris (Gerris) thoracicus* Schummel, 1842**

Material examined. FARS: Estahban, 1710 m a.s.l., 1 specimen, 10.–11.viii.1996; 15 km E of Sarvestan, 2 specimens, 15.–16.vi.2003. SEMNAN: Mojen, 2 specimens, 17.–18.vii.2005.

Comments. In pools and brooks. European, extending to North Africa, the Middle East, Central Asia and north India.

Infraorder Leptopodomorpha

Family Saldidae

***Saldula pallipes pallipes* (Fabricius, 1794)**

Material examined. MARKAZI: Saveh, 1 specimen, 6.–7.vi.2006. WEST AZERBAIJAN: Marangalu near Urumiyeh, 5 specimens, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 3 specimens, 25.–27.vii.2006, 25.–26.vii.2006.

Comments. In moist localities near pools. Holarctic.

***Saldula palustris pallidipennis* (Reuter, 1888)**

Material examined. KHUZESTAN: Abadan, 2 specimens, 21.–22.iv.2004; near Ahvaz, several specimens, 29.iv.–1.v.2007; Ahvaz, Ghazavieh, 1 specimen, 7.–8.vi.2007; Ahvaz – Jangieh, 2 specimens, 11.–12.vi.2006; near Ahvaz,

Karun river, 7 specimens, 10.–11.vi.2006; Abadan, 2 specimens, 21.–22.iv.2004; Andimeshk – Tangvan, 1 specimen, 9.–10.vi.2006; Behbahan, 1 specimen, 27.–28.iv.2007; near Lali, 2 specimens, 6.–8.vi.2007; Ramhormoz, 4 specimens, 7.–9.vi.2004; Sardasht, 2 specimens, 11.–12.vi.2004; Shadegan, 10 specimens, 20.–21.iv.2007, 9.–10.vi.2008; Zeydoon, 4 specimens, 26.–28.iv.2007. **BUSHEHR:** Ab Pakhs, several specimens, 25.–26.iv.2007; near Bandar-e-Genaveh, several specimens, 23.–24.iv.2007. **FARS:** Baba Arab 50 km SE of Jahrom, 1 specimen, 16.–17.vi.2003.

Comments. In moist localities with *Juncus*, *Phragmites* and sedges on shores of brooks. Known from the Middle East (e.g., Pakistan). According to J. T. Polhemus (in litt.), *S. pallidipennis* is actually a subspecies of *S. pallipes*, but this taxonomic change was not published yet.

Saldula pilosella pilosella (Thomson, 1871)

Material examined. **FARS:** Maharlu, 2 specimens, 15.–16.vi.2006. **WEST AZERBAIJAN:** Marangalu near Urumiyeh, several specimens, 15.–17.vii.2004.

Comments. In salt marshes on a lake shore. Holopalaeartic.

Family Leptopodidae

Patapius spinosus (Rossi, 1790)

Material examined. **KHUZESTAN:** near Ramhormoz, 1 specimen, 7.–9.vi.2008.

Comments. On the shore of a small stream. Holomediterranean, extending to Central Asia.

Infraorder Cimicomorpha

Family Miridae

Subfamily Cylapinae

Fulvius oxycarenoides (Reuter, 1878)

Material examined. **KURDESTAN:** near Marivan, 1 specimen, 12.–13.vi.2005.

Comments. At light on mountain slopes with fields and small woods. North Mediterranean, extending to the Middle East.

Subfamily Deraeocorinae

Bothynotus pilosus (Boheman, 1852)

Material examined. **LORESTAN:** Kahriz 7 km from Boroujerd, 2 specimens, 8.–9.vi.2006; near Khoram Abad, 1 specimen, 5.–6.vi.2005.

Comments. At light in hilly gardens. Trans-Palaeartic, also known from Canada.

Deraeocoris (Camptobrochis) pallens atramentarius Linnavuori, 1975

Material examined. Many specimens: **KHUZESTAN:** near Ahvaz, 29.iv.–1.v.2007; Ahvaz Ghazavieh, 7.–8.vi.2005; Ahvaz Jangieh, 11.–12.vi.2006; near Ahvaz Karun river, 10.–11.vi.2006; Andimeshk – Tangvan, 9.–10.vi.2006, 5.–8.vi.2008; Bandar-e-Mahshar, 12.–13.vi.2006; Behbahan, 27.–28.iv.2007; Dezful, 6.–7.vi.2005; near Lali,

6.–8.v.2007, 6.–7.vi.2008; near Ramhormoz, 7.–9.vi.2008; Zeydoon, 26.–28.iv.2007. **FARS:** Takht-e-Jamshid, 14.–15.vi.2002. **ILAM:** near Eyvan, 9.–10.vi.2005; Ilam, 8.–9.vi.2005.

Comments. In fields, gardens, riversides and desert habitats. Eremian, known from the Arabian Peninsula and Iraq. **New for Iran.**

Deraeocoris (Camptobrochis) punctulatus (Fallén, 1807)

Material examined. Numerous specimens: **ESFAHAN:** Esfahan, 9.–10.vi.2003; Ghule Sefid, 12.–13.vi.2002. **FARS:** near Fasa, 17.–19.vi.2008; Fasa – Mianjangel, 18.–19.vi.2006; Firuzabad, 15.–16.vi.2008; Khaneh Kat, 16.–17.vi.2006; Maharlu, 15.–16.vi.2006, 16.–17.vi.2008; Takht-e-Jamshid, 14.–15.vi.2002. **ILAM:** near Eyvan, 9.–10.vi.2005; Ilam, 8.–9.vi.2005. **KERMANSHAH:** Chaharzarolya, 22.–23.vi.2006; near Javanrud, 10.–11.vi.2005. **KOHLUYEH & BOYERAHMAD:** Madvan near Yasuj, 11.–12.vi.2003. **KURDESTAN:** near Marivan, 12.–13.vi.2005; near Sanandai, 11.–12.vi.2005. **LORESTAN:** near Boroujerd, 4.–5.vi.2005; Kahriz 7 km from Boroujerd, 8.–9.vi.2006; near Khoram Abad, 5.–6.vi.2005. **MARKAZI:** Saveh, 8.–9.vi.2003. **YAZD:** Ashkazar, 18.–24.vi.1996. **WEST AZERBAIJAN:** Bitas 20 km S of Mahabad, 19.–20.vii.2004; Kitkeh 50 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004; Maregheh, 20.–21.vii.2004; Nushin Sar near Urumiyeh, 25.–27.vi.2006; near Sardasht, 14.–15.vi.2005; 25 km S of Urumiyeh, 17.vi.2005.

Comments. In fields, steppes and hilly meadows. Holarctic.

Deraeocoris (Camptobrochis) serenus (Douglas & Scott, 1868)

Material examined. Numerous specimens: **KHUZESTAN:** near Ahvaz, 20.iv.–1.v.2007; Ahvaz Ghazavieh, 7.–8.vi.2005. **EAST AZERBAIJAN:** Agh Gonbad, 14.–15.vii.2004; Saray, 14.–15.vii.2004. **ESFAHAN:** Esfahan, 9.–10.vi.2003; Shahreza – Semirom, 11.vi.2003. **FARS:** Estahban, 1710 m a.s.l., 10.–11.vi.1996; near Fasa, 17.–19.vi.2008; Fasa – Miangal, 18.–19.vi.2006; Kamfiruz, 15.–16.vi.2002; Khaneh Kat, 16.–17.vi.2006; Maharlu, 17.–18.vi.2002; 15 km E of Sarvestan, 15.–16.vi.2003; Takht-e-Jamshid, 14.–15.vi.2002; Tang-e-Bostanak, 1050 m a.s.l., 8.–9.vi.1996. **KERMAN:** Sar Chesmah, 2235 m a.s.l., 19.v.1996; Shahdad Hemmat-Abad, 250 m a.s.l., 21.v.1996. **KERMANSHAH:** Chaharzarolya, 22.–23.vi.2006. **KOHLUYEH & BOYERAHMAD:** Samiran, 11.–12.vi.2003; Tang Sorkh 35 km SE of Yasuj, 18.–19.vi.2003; Vazag SE of Yahrom, 18.vi.2003. **KURDESTAN:** Sanandai, 11.–12.vi.2005. **MARKAZI:** Saveh, 8.–9.vi.2003. **MAZANDARAN:** Hassan Abad, 15.–16.vii.2002. **YAZD:** Ashkazar, 18.–24.v.1996. **WEST AZERBAIJAN:** Bitar 20 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 25.–27.vi.2006; Nushin Sar near Urumiyeh, 25.–27.vi.2006.

Comments. In gardens, meadows and steppes. Holomediterranean, extending to Central Europe and Central Asia.

Deraeocoris (Deraeocoris) rutilus (Herrich-Schaeffer, 1838)

Material examined. **KHUZESTAN:** Behbahan, 5 specimens, 27.–28.iv.2007.

Comments. In an date-palm garden with rich undergrowth. Pontomediterranean.

Deraeocoris (Knightocapsus) lutescens (Schilling, 1837)

Material examined. **WEST AZERBAIJAN:** Marangalu near Urumiyeh, 1 specimen, 15.–17.vii.2004. **FARS:** Bavan near Nur Abad, 1 specimen, 20.–21.vi.2008; Kamfiruz, 1 specimen, 15.–16.vi.2002; near Nur Abad, 1 specimen, 21.–22.vi.2008; Shul – Sangar, 2 specimens, 17.–18.vi.2003. **KERMANSHAH:** Chaharzarolya, 1 specimen, 22.–23.vi.2006. **KOHLUYEH & BOYERAHMAD:** Tang Sorkh 35 km SE of Yasuj, 1 specimen, 18.–19.vi.2003. **KURDESTAN:** 20 km NE of Marivan, 2 specimens, 24.–25.vi.2006. **LORESTAN:** near Khoram Abad, 1 specimen, 5.–6.vi.2005.

Comments. On deciduous trees such as *Ulmus* and *Quercus* in hilly gardens. Holomediterranean.

Deraeocoris (Plexaris) pilipes (Reuter, 1879)

Material examined. Numerous specimens: **ESFAHAN:** Esfahan, 9.–10.vi.2003. **FARS:** 10 km S of Deh Bid, 2900 m a.s.l., 14.vi.1996; Fasa – Mianjangal, 18.–19.vi.2006; Maharlu, 15.–16.vi.2006; 15 km E of Sarvestan, 15.–16.vi.2003; 10 km W of Shiraz, 16.–17.vi.2002; Shul Sangar, 17.–18.vi.2003; Takht-e-Jamshid, 14.–15.vi.2002; Zarqan, Bamon National Park, 1650 m a.s.l., 13.–14.vi.1996. **KERMANSHAH:** Chaharzabarloya, 22.–23.vi.2006. **KOHLUYEH & BOYERAHMAD:** Samiran, 11.–12.vi.2006. **KURDESTAN:** near Sanandai, 11.–12.vi.2005. **YAZD:** Ashkazar, 18.–24.v.1996. **WEST AZERBAIJAN:** Bitas 20 km S of Mahabad, 19.–20.vii.2004; Kitkeh 50 km S of Mahabad, 19.–20.vii.2004; Nushin Sar near Urumiyeh, 15.–17.vi.2005, 25.–27.vi.2006; 25 km S of Urumiyeh, 17.vi.2005.

Comments. On *Salix*. Irano-Turanian.

Subfamily Bryocorinae
Tribe Dicyphini

Campyloneuropsis pygmaea (Wagner, 1956)

Material examined. **KHUZESTAN:** Bagh Malek, 1 specimen, 9.–11.v.2007; near Lali, 5 specimens, 6.–8.v.2007, 17.–18.vi.2008. **FARS:** Baba Arab 50 km SE of Jahrom, 3 specimens, 16.–17.vi.2003; Fasa – Mianjangal, 1 specimen, 17.–18.vi.2008; Maharlu, 4 specimens, 17.–18.vi.2002; near Nur Abad, 4 specimens, 21.–22.vi.2007; 15 km E of Sarvestan, 1 specimen, 15.–16.vi.2003. **ILAM:** Ilam, 1 specimen, 21.–22.vi.2006.

Comments. On *Hyoscyamus*. At light in gardens near salt lakes and brooks. Eremian, known from Egypt, Israel, Syria, Iraq, Iran, Saudi Arabia, Yemen and Sudan.

Dicyphus (Dicyphus) eckerleini Wagner, 1963

Material examined. **EAST AZERBAIJAN:** Agh Gonbad, 3 specimens, 14.–15.vii.2004; Saray, 1 specimen, 14.–15.vii.2004. **FARS:** Dasht-e-Arzhan, 3 specimens, 12.–13.vi.2003; Tang-e-Bostanak, 1650 m a.s.l., 6 specimens, 1996. **ILAM:** Ilam, 1 specimen, 21.–22.vi.2006. **LORESTAN:** Kahriz 7 km from Boroujerd, 1 specimen, 8.–9.vi.2006.

Comments. On undergrowth in parks and gardens. Recorded on *Cirsium* and *Epilobium hirsutum*. Pontomediterranean.

Macrolophus melanotoma (A. Costa, 1853)

Material examined. **KHUZESTAN:** near Andimeshk, several specimens, 5.–6.v.2007, 6.–8.vi.2008; Bagh Malek, 6 specimens, 9.–13.v.2007; Behbahan, 1 specimen, 27.–28.iv.2007; nezar Ramhormoz, several specimens, 7.–9.vi.2004; Zeydoon, 3 specimens, 26.–28.iv.2007. **FARS:** Bavan near Nur Abad, several specimens, 20.–21.vi.2008; Khaneh Kat, 2 specimens, 16.–17.vi.2006; Maharlu, 1 specimen, 17.–18.vi.2002; Takht-e-Jamshid, 1 specimen, 14.–15.vi.2002. **ILAM:** Ilam, 4 specimens, 21.–22.vi.2006. **WEST AZERBAIJAN:** Kirkeh 50 km S of Mahabad, 1 specimen, 19.–20.vii.2004; 25 km S of Urumiyeh, 1 specimen, 17.vi.2005.

Comments. On undergrowth in deciduous forests and gardens. Holomediterranean.

Macrolophus pygmaeus (Rambur, 1839)

Material examined. Numerous specimens: **KHUZESTAN:** Bagh Malek, 9.–11.v.2007; Behbahan, 27.–28.iv.2007. **FARS:** Baba Arab 50 km SE of Jahrom, 16.–17.vi.2003; Dasht-e-Arzhan, 12.–13.vi.2003; Fasa – Mianjangal, 18.–19.vi.2006; Firuzabad, 15.–16.vi.2008; Kamfiruz, 15.–16.vi.2002; Maharlu, 17.–18.vi.2002; 15 km E of Sarvestan, 15.–16.vi.2003; 10 km W of Shiraz, 16.–17.vi.2002; Shul – Sangar, 17.–18.vi.2003; Takht-e-Jamshid, 14.–16.vi.2002. **ILAM:** near Eyvan, 9.–10.vi.2005; Ilam, 21.–22.vi.2006. **KERMANSHAH:** Chaharzabarloya, 22.–23.vi.2006; near Javanrud, 10.–11.vi.2005. **KOHLUYEH & BOYERAHMAD:** Madvan near Yasuj, 11.–12.vi.2003; Tang Sorkh 35 km SE of Yasuj,

18.–19.vi.2003; Varzag SE of Yahrom, 18.vi.2003. **KURDESTAN**: near Sanandaj, 11.–12.vi.2005, 23.–24.vi.2006. **LORESTAN**: Kahriz 7 km from Boroujerd, 8.–9.vi.2006. **WEST AZERBAIJAN**: Kitkeh 50 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 15.–17.vii.2005, 25.–26.vii.2006.

Comments. In meadows and gardens on herbs such as *Stachys*. Palaeotropical.

Subfamily Mirinae

Tribe Stenodemini

Notostira poppiusi Reuter, 1911

Material examined. **EAST AZERBAIJAN**: Ghareh Chaman, 1 specimen, 14.vii.2004. **WEST AZERBAIJAN**: near Sardasht, 1 specimen, 14.–15.vi.2005.

Comments. In hilly meadows. Irano-Turanian.

Stenodema (Brachystira) calcarata (Fallén, 1807)

Material examined. Several specimens: **KHUZESTAN**: Zeydoon, 26.–28.iv.2007. **EAST AZERBAIJAN**: Basmenj, 14.–15.vii.2004. **FARS**: Dasht-e-Arzhan, 12.–13.vi.2003; Estahban, 1710 m a.s.l., 10.–11.vi.1996; Khaneh Zenyan, 13.–14.vi.2003; Maharlu, 14.–15.vi.2003; Tang-e-Bostanak, 1650 m a.s.l., 8.–9.vi.1996. **KERMANSHAH**: Sar Chesmeh, 2225 m a.s.l., 19.v.1996. **KOHLUYEH & BOYERAHMAD**: Tang Sorkh 35 km E of Yasuj, 18.–19.vi.2003. **WEST AZERBAIJAN**: Marangalu near Urumiyeh, 16.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–26.vi.2006.

Comments. On grasses in meadows and gardens. Holopalaeartic.

Stenodema (Stenodema) pilosa (Jakovlev, 1889)

Material examined. **WEST AZERBAIJAN**: Marangalu near Urumiyeh, many specimens, 15.–17.vii.2004.

Comments. In meadows and gardens near salt marshes on a lake shore. Central-Asian.

Stenodema (Stenodema) turanica Reuter, 1904

Material examined. Many specimens: **EAST AZERBAIJAN**: Agh Gonbad, 14.–15.vii.2004; Saray, 14.–15.vii.2004. **ILAM**: near Eyvan, 9.–10.vi.2005; Ilam, 8.–9.vi.2005. **KERMANSHAH**: Chaharzarolya, 22.–23.vi.2006; Rayen Kheyraabad, 2500 m a.s.l., 21.v.1996. **KOHLUYEH & BOYERAHMAD**: Tang Sorkh 35 km SE of Yasuj, 18.–19.vi.2003; Vazag SE of Yahrom, 18.vi.2003. **WEST AZERBAIJAN**: near Agh Balagh, 19.vii.2004; Kitkeh 50 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 13.–14.vii.2004; near Sardasht, 14.–15.vi.2005. **ESFAHAN**: Esfahan, 9.–10.vi.2003; Shareza – Semiron, 11.vi.2003. **FARS**: Dasht-e-Arzhan, 12.–13.vi.2003; Farrahsband, 14.–15.vi.2008; near Fasa, 17.–19.vi.2008; Fasa – Mianjangal, 18.–19.vi.2006; Kamfiruz, 15.–16.vi.2002; Khaneh Kat, 16.–17.vi.2006; Maharlu, 15.–16.vi.2006, 16.–17.vi.2008; 15 km E of Sarvestan, 15.–16.vi.2003; Tang-e-Bostanak, 1650 m a.s.l., 8.–9.vi.1996.

Comments. On grasses in hilly meadows and gardens. Irano-Turanian.

Teratocoris antennatus (Boheman, 1852)

Material examined. **KHUZESTAN**: Shadegan, 11 specimens, 20.–21.vii.2007. **FARS**: Estahban, 1710 m a.s.l., 1 specimen, 10.–11.vi.1996; Maharlu, 1 specimen, 14.–15.vi.2003.

Comments. Swept from *Cyperus*, *Juncus*, *Phragmites* and *Scirpus* in moist meadows. West-Palaeartic, extending to Central Asia.

Trigonotylus brevipes Jakovlev, 1880

Material examined. KHUZESTAN: Abadan, 1 specimen, 21.–22.iv.2007; near Ahvaz, 2 specimens, 29.iv.–1.v.2007; Shadegan, 10 specimens, 20.–21.iv.2007; Zeydoon, 1 specimen, 26.–28.iv.2007. BUSHEHR: Ab Pakhs, 1 specimen, 25.–26.iv.2007; near Bandar-e-Genaveh, 6 specimens, 23.–24.iv.2007. FARS: Maharlu, 4 specimens, 14.–15.vi.2003, 16.–17.vi.2008.

Comments. On grasses in fields and steppes. Irano-Turanian.

Trigonotylus caelestialium (Kirkaldy, 1902)

Material examined. Numerous specimens: KHUZESTAN: Andimeshk, 5.–6.vi.2008; Bagh Malek, 9.–11.v.2007; near Lali, 6.–8.v.2007; Zeydoon, 26.–28.iv.2007. EAST AZERBAIJAN: Agh Gonbad, 14.–15.vii.2004. ESFAHAN: Esfahan, 9.–10.vi.2003. FARS: Estahban, 1710 m a.s.l., 10.–11.vi.1996; Khaneh Kat, 16.–17.vi.2006; Khaneh Zanyan, 13.–14.vi.2003; Maharlu, 15.–16.vi.2006, 16.–17.vi.2008; Takht-e-Jamshid, 14.–15.vi.2002. KERMANSHAH: Chaharzarolya, 22.–23.vi.2006. KOHGILUYEH & BOYERAHMAD: Madvan near Yasuj, 11.–12.vi.2003; Samirum, 11.–12.vi.2003; Tang Sorkh 35 km SE of Yasuj, 18.–19.vi.2003. KURDESTAN: near Sanandai, 23.–24.vi.2006. WEST AZERBAIJAN: Bitas 20 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–27.vi.2006.

Comments. On grasses in meadows and gardens. Holopalaeartic, also known from North America and Pakistan.

Trigonotylus pulchellus (Hahn, 1834)

Material examined. Many specimens: KHUZESTAN: Zeydoon, 26.–28.iv.2007. EAST AZERBAIJAN: Saray, 14.–15.vii.2004. FARS: Estahban, 1710 m a.s.l., 10.–11.vi.1996; Kamfiruz, 15.–16.vi.2002; Maharlu, 15.–16.vi.2006; Takht-e-Jamshid, 14.–15.vi.2002; Tang-e-Bostanak, 1650 m a.s.l., 8.–9.vi.1996. KERMANSHAH: Chaharzarolya, 22.–23.vi.2006; Shahdad Hammat-Abad, 21.v.1996. KURDESTAN: near Sanandai, 23.–24.vi.2006. WEST AZERBAIJAN: Marangalu near Urumiyeh, 15.–17.vii.2004.

Comments. On grasses in meadows and gardens. West-Palaeartic.

Trigonotylus subulifer Golub, 1989

Material examined. EAST AZERBAIJAN: Saray, 1 female, 14.–15.vii.2004. WEST AZERBAIJAN: Nushin Sar near Urumiyeh, 1 ♂, 25.–27.vi.2006.

Comments. At light in gardens on a lake shore. Central-Asian, known from the Asian part of Kazakhstan, Turkmenistan and Uzbekistan. **New for Iran.**

Trigonotylus tenuis Reuter, 1899

Material examined. Numerous specimens: KHUZESTAN: near Ahvaz, 20.iv.–1.v.2007; Andimeshk, 5.–6.vi.2008; Bagh Malek, 9.–11.v.2007; Behbahan, 27.–28.iv.2007; Dezful, 6.–7.vi.2005; near Lali, 6.–8.v.2007, 6.–7.vi.2008; Sadde-e-Dez, 6.–7.vi.2005; Zeydoon, 26.–28.iv.2007; Shadegan, 20.–21.iv.2007. BUSHEHR: Ab Pakhs, 25.–26.iv.2007; near Bandar-e-Genaveh, 22.–24.iv.2007. EAST AZERBAIJAN: Saray, 14.–15.vii.2004. FARS: Maharlu, 17.–18.vi.2002, 16.–17.vi.2008. GOLESTAN: Alagol, 12.–13.vii.2003. ILAM: near Eyvan, 9.–10.vi.2005. KERMANSHAH: Chaharzarolya, 21.–23.vi.2006; Shahdad Hammat-Abad, 21.v.1996. KURDESTAN: near Sanandai, 23.–24.vi.2006.

Comments. On grasses in meadows. Cosmopolitan in warm regions.

Tribe Herdoniini

Camponotidea fieberi Reuter, 1879

Material examined. WEST AZERBAIJAN: Nushin Sar near Urumiyeh, 1 ♀, 15.–17.vi.2005.

Comments. The collected specimen belongs to var. *simulans* Horváth, 1918. Found, e.g., on *Salvia* and *Vicia* in steppes. Anatolian, known from Greece, Turkey and Iraq. **New for Iran.**

Tribe Mirini

Adelphocoris insignis Horváth, 1898

Material examined. FARS: 10 km W of Shiraz, 5 specimens, 16.–17.vi.2002.

Comments. At light in a garden. Recorded on *Onobrychis alba*. Anatolian, known from Bulgaria, Serbia, and Turkey. **New for Iran.**

Adelphocoris lineolatus (Goeze, 1778)

Material examined. Numerous specimens from EAST AZERBAIJAN: Agh Gonbad, 14.–15.vii.2004; Basmenj, 14.–15.vii.2004; Ghareh Chaman, 14.vii.2004; near Hastrud, 18.vi.2005; Saray, 14.–15.vii.2004. ESEFAHAN: Esfahan, 9.–10.v.2003; Shahreza – Semirom, 11.vi.2003. FARS: Estahban, 1710 m a.s.l., 10.–11.vi.1996; Kamfiruz, 15.–16.vi.2002; Khaneh Zenyan, 13.–14.vi.2003; Maharlu, 14.–15.vi.2003; Shul – Sangar, 17.–18.vi.2003. ILAM: near Eyvan, 5.–6.vi.2005. KERMANSHAH: Chaharzarolya, 22.–23.vi.2006; near Javanrud, 10.–11.vi.2005. KOHGILOUYEH & BOYERAHMAD: Samiran, 11.–12.vi.2003; Tang Sorkh 35 km SE of Yasuj, 18.–19.vi.2003; Vasag SE of Yahrom, 18.vi.2003. KURDESTAN: near Marivan, 12.–13.vi.2005; near Sanandai, 11.–12.vi.2003. LORESTAN: Khoran Abad, 5.–6.vi.2005. MARKAZI: Saveh, 8.–9.vi.2003. WEST AZERBAIJAN: Bitas 20 km S of Mahabad, 19.–20.vii.2004; Kitkeh 50 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 13.–17.vii.2004; Nushin Sar near Urumiyeh, 15.–17.vi.2005, 25.–27.vi.2006; near Piranshar, 14.vi.2005; near Sardasht, 14.–15.vi.2005; 25 km S of Urumiyeh, 17.vi.2005.

Comments. At light in gardens. Known, e.g., on Asteraceae. Holopalaeartic.

Adelphocoris vandalicus (Rossi, 1790)

Material examined. ILAM: near Eyvan, 16 specimens, 9.–10.vi.2005. KERMANSHAH: near Javanrud, 5 specimens, 10.–11.vi.2005. WEST AZERBAIJAN: Marangalu near Urumiyeh, 6 specimens, 15.–17.vii.2004.

Comments. At light in gardens near salt marshes, on a lake shore and on mountain slopes. Known on plants such as *Centaurea*, *Echinops*, *Verbascum* and *Tanacetum*. Holomediterranean.

Agnocoris reclairi (Wagner, 1949)

Material examined. FARS: Tang-e-Bostanak, 1650 m a.s.l., 2 specimens, 8.–9.vi.1996. KURDESTAN: 20 km NE of Marivan, 2 specimens, 24.–26.vi.2005; near Sanandai, several specimens, 11.–12.vi.2005. LORESTAN: near Khoran Abad, 1 specimen, 5.–6.vi.2005.

Comments. At shores of rivers and lakes. Recorded on *Salix*, rarely on *Populus*. Holomediterranean, extending to the Middle East.

Agnocoris rubicundus (Fallén, 1807)

Material examined. FARS: Bavan near Nur Abad, 1 specimen, 20.–21.vi.2008.

Comments. At light in a garden in a mountain slope. Known on *Populus* and *Salix*. Euro-Siberian, also known from North America. **New for Iran.**

Brachycoleus caucasicus (Poppius, 1912)

Material examined. EAST AZERBAIJAN: near Hastrud, 9 specimens, 18.vi.2005. KOHGILUYEH & BOYERAHMAD: Vazag SE of Yasuj, 1 specimen, 18.vi.2003.

Comments. At light in gardens. Known from Azerbaijan and Iran.

Brachycoleus steini Reuter, 1877

Material examined. EAST AZERBAIJAN: near Miyaneh, 1 specimen, 18.vi.2005.

Comments. At light on mountain slopes. Recorded on *Scolymus hispanicus*. Pontomediterranean.

Calocoris roseomaculatus angularis (Fieber, 1864)

Material examined. KURDESTAN: near Suteh, 1 specimen, 13.vi.2005.

Comments. On mountain slopes with Apiaceae and Asteraceae. Pontomediterranean. **New for Iran.**

Charagochilus gyllenhali (Fallén, 1807)

Material examined. FARS: Bavan near Nur Abad, 3 specimens, 20.–21.vi.2008; 10 km W of Shiraz, 2 specimens, 16.–17.vi.2002; Shul – Sangar, 2 specimens, 17.–18.vi.2003. ILAM: near Eyvan, 1 specimen, 9.–10.vi.2005. KOHGILUYEH & BOYERAHMAD: Madvan near Yasuj, 4 specimens, 11.–12.vi.2003; Tang Sarkh 35 km SE of Yasuj, 1 specimen, 18.–19.vi.2003. KURDESTAN: near Sanandaj, 1 specimen, 23.–24.vi.2006; near Suteh, 1 specimen, 13.vi.2005. LORESTAN: Kahriz 7 km from Boroujerd, 1 specimen, 8.–9.vi.2006. WEST AZERBAIJAN: Bites 20 km S of Mahabad, 3 specimens, 18.–20.vii.2004; Marangalu near Urumiyeh, 2 specimens, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 1 specimen, 25.–26.vii.2006.

Comments. At light in gardens. On *Galium*. Holopalaeartic.

Creontiades pallidus (Rambur, 1839)

Material examined. Many specimens: KHUZESTAN: near Ahvaz, 29.iv.–1.v.2007; Ahvaz Ghazavieh, 7.–8.vi.2005; Ahvaz – Jangleh, 11.–12.vi.2006; near Andimeshk, 19.–20.iv.2007, 5.–6.vi.2008; Andimeshk – Tangvan, 9.–10.vi.2006; Bagh Malek, 9.–15.v.2007; Bandar-e-Mahshar, 12.–13.vi.2006; Behbahan, 27.–28.iv.2007; near Lali, 6.–8.v.2007, 6.–7.vi.2008; Ramhormoz, 7.–9.vi.2008; Sadde-e-Daz, 6.–7.vi.2005. BUSHEHR: near Bandar-e-Genaveh, 23.–24.iv.2007. FARS: Fasa – Mianjangal, 18.–19.vi.2006; near Fasa, 17.–19.vi.2008; Kamfiruz, 15.–16.vi.2002; Maharlu, 15.–16.vi.2006. KERMAN: Shahdad Hammet-Abad, 250 m a.s.l., 21.v.1996. MARKAZI: Saveh, 8.–9.vi.2003, 6.–7.vi.2006; 25 km S of Saveh, 20.–21.vi.2003. YAZD: Ahkazar, 18.–24.v.1996.

Comments. At light in gardens, fields and steppes. Known as a pest on cotton. Holomediterranean, widely distributed in the Middle East and the Ethiopian Region.

***Eurystylus bellevoeyi* (Reuter, 1879)**

Material examined. KHUZESTAN: Andimeshk – Tangvan, 1 specimen, 9.–10.vi.2006; Bandar-e-Mahshar, 1 specimen, 12.–13.vi.2006; Lali, 2 specimens, 6.–7.vi.2008; Zeydoon, 6 specimens, 26.–28.iv.2007. FARS: Fasa – Mianjangan, 1 specimen, 18.–19.vi.2006; Maharlu, 2 specimens, 17.–18.vi.2006; Takht-e-Jamshid, 1 specimen, 14.–15.vi.2002. KERMAN: Kerman, 1 specimen, 22.–23.v.1996; Sar Chesmeh, 2225 m a.s.l., 1 specimen, 19.v.1996; Shahdad Hammat – Abad, 250 m a.s.l., several specimens, 21.v.1996. YAZD: Ashkazar, 2 specimens, 18.–24.v.1996.

Comments. On plants such as *Zygophyllum* spp. and alfalfa in fields, salt marshes and desert habitats. Eremian with a wide distributional range in the Holomediterranean and Sudanese subregions.

***Horistus bimaculatus* (Jakovlev, 1884)**

Material examined. KERMAN: Sar Chesmeh, 2225 m a.s.l., 2 specimens, 19.v.1996.

Comments. On mountain slopes. Anatolian, known from Azerbaijan, Turkey, and Iran.

***Liocoris tripustulatus* (Fabricius, 1781)**

Material examined. FARS: Dasht-e-Arzan, 5 specimens, 16.–17.vi.2002; Tang-e-Bostanak, 1 specimen, 8.–9.vi.1996. KERMANSHAH: Chaharzarabolya, 8 specimens, 22.–23.vi.2006.

Comments. On *Urtica* spp. in gardens and deciduous forests. Euro-Siberian.

***Lygidolon laevigatum* Reuter, 1907**

Material examined. BUSHEHR: Ab Pakhsh, 1 specimen, 25.–26.iv.2007.

Comments. Known on *Acacia* and *Tamarindus indicus*. Holo-Sudanese, known from Saudi Arabia, Yemen and the Hormozgan province of Iran.

***Lygus gemellatus gemellatus* (Herrich-Schaeffer, 1835)**

Material examined. FARS: Maharlu, 1 specimen, 17.–18.vi.2002. KERMAN: Caravanseray-e-Farhadi, 3 specimens, 20.v.1996; Kerman, 1 specimen, 22.–23.v.1996. KURDESTAN: near Sanandai, 5 specimens, 11.–12.vi.2005, 23.–24.vi.2006. LORESTAN: near Khoram Abad, 1 specimen, 5.–6.vi.2005. MARKAZI: Saveh, 3 specimens, 2.–3.vi.2005. YAZD: Ashkazar, 1 specimen, 18.–24.v.1996.

Comments. In steppes and hilly meadows on *Artemisia* spp. Holopalaeartic.

***Lygus pratensis* (Linnaeus, 1758)**

Material examined. Numerous specimens: EAST AZERBAIJAN: Agh Gonbad, 14.–15.vii.2004; Basmenj, 14.–15.vii.2004; Maragleh, 17.–18.vi.2005. ESFAHAN: Esfahan, 9.–10.vi.2003; Shahreza – Semirom, 11.vi.2003. FARS: Dasht-e-Arzan, 12.–13.vi.2003; near Fasa, 17.–19.vi.2008; Fasa – Mianjangan, 18.–19.vi.2006; Kamfiruz, 15.–16.vi.2002; Khameh Zenyan, 13.–14.vi.2003; Maharlu, 17.–18.vi.2002; 15 km E of Sa'adatshahr, 1680 m a.s.l., 6.–7.vi.1996; Shul Sangar, 17.–18.vi.2003; Tang-e-Bostanak, 1600 m a.s.l., 8.–9.vi.1996; Takht-e-Jamshid, 14.–15.vi.2002. KERMAN: Caravanseray-e-Farhadi, 20.v.1996; Rayan Kheyraabad, 2500 m a.s.l., 21.v.1996. KERMANSHAH: Chaharzarabolya, 22.–23.vi.2006; near Javanrud, 10.–11.vi.2006. KOHGIUYEH & BOYERAHMAD: Madvan near Yasuj, 11.–12.vi.2003; Yazag SE of Jahrom, 18.vi.2003. KURDESTAN: Marivan, 23.–24.vi.2006; near Sanandai, 23.–24.vi.2006. LORESTAN: near Borujerd, 4.–5.vi.2005; Kahriz 7 km from Boroujerd, 8.–9.vi.2006; near Khoram Abad, 5.–6.vi.2005. MARKAZI: Saveh, 8.–9.vi.2003. WEST AZERBAIJAN: Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–27.vi.2006.

Comments. On undergrowth in deciduous forests. Holopalaeartic.

***Lygus rugulipennis* Poppius, 1911**

Material examined. Many specimens: **EAST AZERBAIJAN:** Agh Gonbad, 14.–15.vii.2004; Basmanj, 14.–15.vii.2004; Majareh, 21.–22.vii.1996; Saray, 14.–15.vii.2004. **KERMANSHAH:** Chararzarolya, 22.–23.vi.2006. **LORESTAN:** Kahriz 7 km from Boroujerd, 8.–9.vi.2006; near Khoram Abad, 5.–6.vi.2008. **WEST AZERBAIJAN:** near Agh Balagh, 19.vii.2004; Bitar 20 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–26.vi.2006; Marangalu near Urumiyeh, 15.–17.vii.2004; 25 km S of Urumiyeh, 17.vi.2005.

Comments. In fields and hilly meadows. Pest on wheat. Holopalaeartic.

***Megacoelum brevirostre* Reuter, 1879**

Material examined. Many specimens: **KHUZESTAN:** Ahvaz Ghazavieh, 7.–8.vi.2005; Ahvaz Karun river, 10.–11.vi.2006; near Ramhormoz, 7.–9.vi.2008; Shadegan, 9.–10.vi.2008. **EAST AZERBAIJAN:** Agh Gonbad, 14.–15.vii.2004. **ESFAHAN:** Salafjegan – Dalijan, 9.vi.2003. **FARS:** Maharlu, 14.–15.vi.2003, 16.–17.vi.2008. **KERMAN:** Kerman, 22.–23.v.1996. **MARKAZI:** Saveh, 8.–9.vi.2003. **YAZD:** Ashkazar, 18.–24.v.1996.

Comments. On plants in steppe and desert habitats. At light in gardens. Irano-Turanian, extending from Cyprus to Turkmenistan.

***Megacoelum hormozganicum* Linnavuori, 2004**

Material examined. **KHUZESTAN:** near Ramhormoz, 1 specimen, 7.–9.vi.2009. **FARS:** Bavan near Nur Abad, 6 specimens, 20.–21.vi.2008; near Fasa, 3 specimens, 17.–19.vi.2008; Fasa – Mianjangan, 1 specimen, 18.–19.vi.2006; Maharlu, 7 specimens, 17.–18.vi.2002, 16.–17.vi.2008; 25 km E of Sarvestan, 1 specimen, 15.–16.vi.2003; 10 km W of Shiraz, 16.–17.vi.2002.

Comments. At light in gardens. Endemic to Iran.

***Megacoelum irbilanum* Linnavuori, 1988**

Material examined. **FARS:** 15 km E of Sarvestan, 6 specimens, 15.–16.vi.2003.

Comments. At light in gardens in hilly steppes. In Iraq found on *Quercus aegilops*. Previously known only from Iraq. **New for Iran.**

***Megacoelum tricolor* Wagner, 1953**

Material examined. **KHUZESTAN:** near Ahvaz, 1 specimen, 29.iv.–1.v.2007. **BUSHEHR:** Ab Pakhs, 1 specimen, 13.–14.vi.2008. **FARS:** Khameh Kat, 1 specimen, 16.–17.vi.2006; Maharlu, 6 specimens, 14.–15.vi.2003, 15.–16.vi.2006. **YAZD:** Ashkazar, 5 specimens, 18.–24.v.1996.

Comments. At light in date-palm gardens close to a salt lake and river. Known from Iran and Iraq.

***Orthops (Montanorthops) pilosulus* Jakovlev, 1877**

Material examined. **KERMAN:** Caravanseray-e-Farhali, 1 specimen, 20.v.1996; Raviz Shahabieh, 1800 m a.s.l., 3 specimens, 24.v.1996.

Comments. In hilly steppes, found on *Pteropyrum aucheri*. Irano-Turanian.

Orthops (Orthops) basalis (A. Costa, 1853)

Material examined. WEST AZERBAIJAN: 50 km S of Mahabad, 1 specimen, 19.–20.vii.2004. MARKAZI: Tafresh, 1 specimen, 7.–8.vi.2006.

Comments. On undergrowth in gardens and deciduous forests. Holomediterranean with a wide distributional range in Europe.

Orthops (Orthops) campestris (Linnaeus, 1758)

Material examined. WEST AZERBAIJAN: Marangalu near Urumiyeh, 2 specimens, 15.–17.vi.2004.

Comments. At light in gardens near salt marshes of a lake. West-Palaeartic.

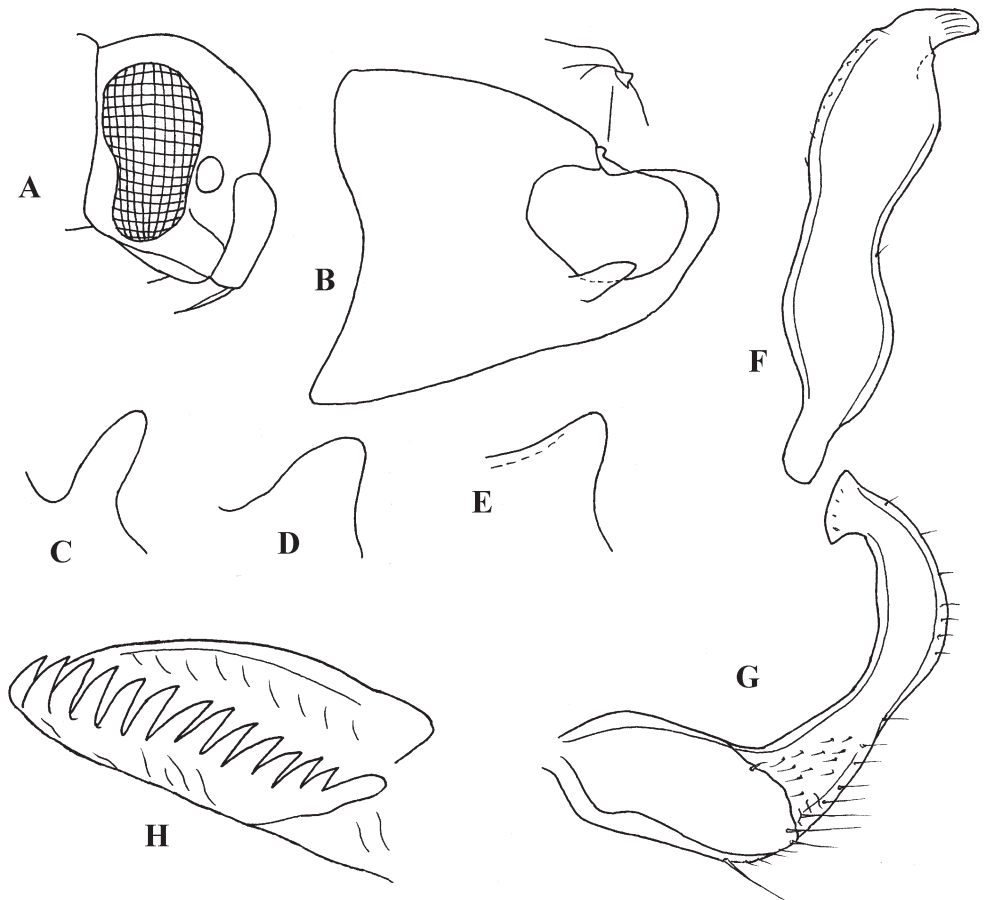


Fig. 2. *Phytocoris arakhne* Linnavuori, 1999. A – male head in lateral view; B – pygophore in dorsal view (specimen from Zarqan); C–E – left lateral process of pygophore (C – ♂ from Zarqan, D – paratype from 7 km NW of Shul, E – ♂ from Zarqan Bamon National Park); F – right paramere; G – left paramere; H – spiculum.

Orthops (Orthops) frenatus (Horváth, 1894)

Material examined. KHUZESTAN: Bagh Malek, 1 specimen, 9.–11.v.2007. ESFAHAN: Shahreza – Semrom, 1 specimen, 11.vi.2003. FARS: Dasht-e-Arzhan, 2 specimens, 12.–13.vi.2003; Shul – Sangar, 2 specimens, 17.–18.vi.2003. ILAM: Ilam, 1 specimen, 8.–9.vi.2005. WEST AZERBAIJAN: Kitkeh 50 km S of Mahabad, 2 specimens, 19.–20.vii.2004; Marangalu near Urumiyeh, 1 specimen, 15.–17.vii.2004.

Comments. In mountain meadows and at light in gardens at riversides and in hilly steppes. Irano-Turanian, recorded from Afghanistan, Armenia, Iran, and Central Asia.

Orthops (Orthops) kalmi (Linnaeus, 1758)

Material examined. WEST AZERBAIJAN: Marangalu near Urumiyeh, 2 specimens, 15.–17.vii.2004.

Comments. At light in gardens near salt marshes. Holopalaeartic.

Phytocoris (Compsocerocoris) amygdali Linnavuori, 1999

Material examined. FARS: Estahban, 1710 m a.s.l., 3 specimens, 10.–11.vi.1996; Maharlou, 1 specimen, 15.–16.vi.2006; 15 km E of Sarvestan, 4 specimens, 15.–16.vi.2003; Shul – Sangar, 1 specimen, 17.–18.vi.2003. YAZD: Ashkazar, 2 specimens, 18.–24.v.1996.

Comments. On mountain slopes on *Amygdalus lycioides*. Endemic to Iran.

Phytocoris (Compsocerocoris) arakhne Linnavuori, 1999

(Fig. 2A–H)

Material examined. FARS: Shul – Sangar, 1 ♂ 1 ♀, 17.–18.vi.2003; Zarqan Bamon National Park, 1 ♂, 13.–14.vi.1996.

Comments. Pygophore (Fig. 2B–E) on the left side with a variable tubercle, which is broad in the type series and in the specimen from Shul – Sangar but narrow in the specimen from Zarqan. At light on mountain slopes with *Amygdalus*, *Astragalus* and *Artemisia*. Endemic to Iran.

Phytocoris (Compsocerocoris) bavanus sp. nov.

(Figs. 3–4)

Type material. HOLOTYPE: 1 ♂, IRAN: FARS: Bavan near Nur Abad, 20.–21.vi.2008. PARATYPES: 3 ♀♀, the same data as holotype. The types will be deposited at the National Museum and Galleries of Wales (Cardiff, United Kingdom).

Description. Length: ♂ 6.0 mm, ♀♀ 6.5 mm.

Colouration. Whitish ochraceous with extensive dark-brown pattern. Vertex and frons with longitudinal median stripe and transverse lateral arcs reddish; apical part of tylus and transverse bands on genae and lora blackish; eyes brownish grey. Antennomere 1 whitish, dorsal part with abundant blackish-brown spots; antennomere 2 pale ochraceous with whitish base and faint subbasal ring; antennomeres 3–4 pale ochraceous, antennomere 3 with small whitish basal ring, antennomere 4 somewhat darker. Rostrum apically darkened. Collar and anterior part of pronotum surrounding calli with faint reddish markings, collar also with two reddish-brown spots; disk brownish with undulating blackish-brown subbasal margin containing four blunt tubercles, the very basal margin whitish. Scutellum largely dark brown

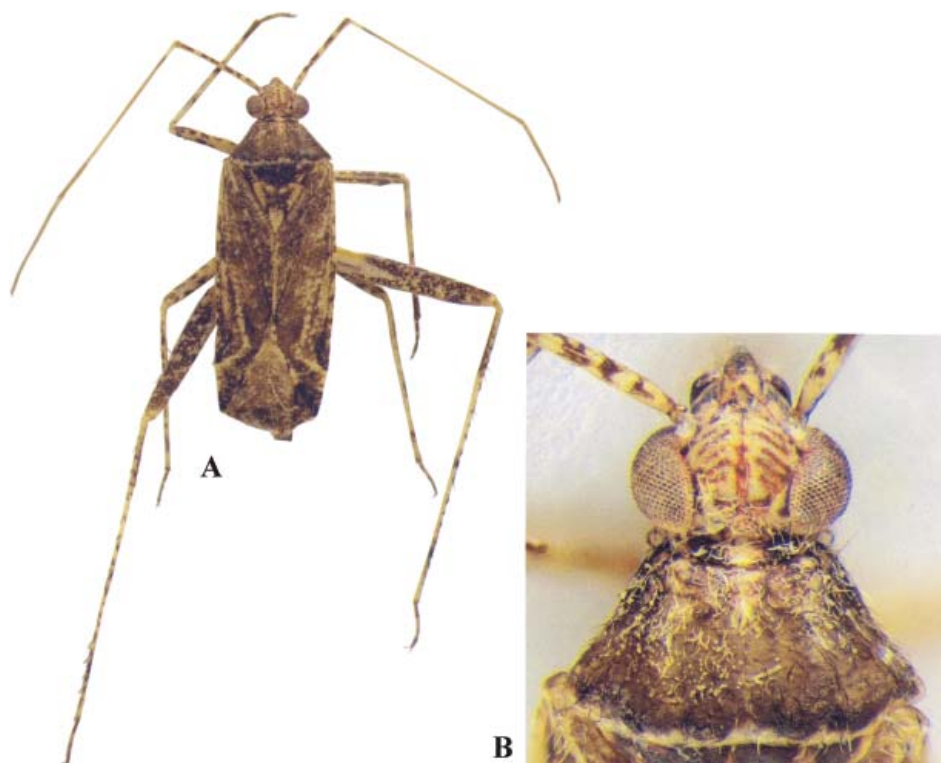


Fig. 3. *Phytocoris bavanus* sp. nov., holotype male. A – habitus, B – dorsal view of head and pronotum.

at base, apical part with dark median spot. Clavus, corium and cuneus largely dark brown, apical part of corium with elongate pale areas; membranes with dense brown irroration, veins pale. Pro-, meso- and metapleura blackish brown, propleura with longitudinal pale stripe, metathoracic scent gland peritremes pale. Ventral surface of abdomen pale, laterally and apically brownish. Legs whitish yellow. Fore femora with irregular longitudinal blackish-brown stripes, apical part of middle femora with blackish-brown spots, apical two-thirds of hind femora blackish brown with pale irroration. Tibiae with numerous dark spots. Tarsi dark brown, hind tarsomere 2 pale.

Structure. Both sexes macropterous. Body 3.5–3.6 times as long as basal width of pronotum. Dorsal surface with short appressed black pubescence and somewhat longer pale hairs. Head 0.6 times as broad as basal width of pronotum, in apical view 1.13 (♂) or 1.17 (♀) times as broad as long, in lateral view in both sexes 0.91 times as long as high with shallow notch between frons and base of tylus; ocular index 1.44 (♂) or 1.46–1.50 (♀). Antennae gracile, proportions between segments 38 : 78 : 43 : ? (♂), 40 : 80 : 45 : 40 (♀), antennomere 1 1.46 (♂) or 1.38–1.54 (♀) times as long as diatone, with pale erect bristles, antennomere 2 in both sexes 3.0 times as long as diatone, and 1.95 (♂) or 1.81–1.82 (♀) times as long as basal width

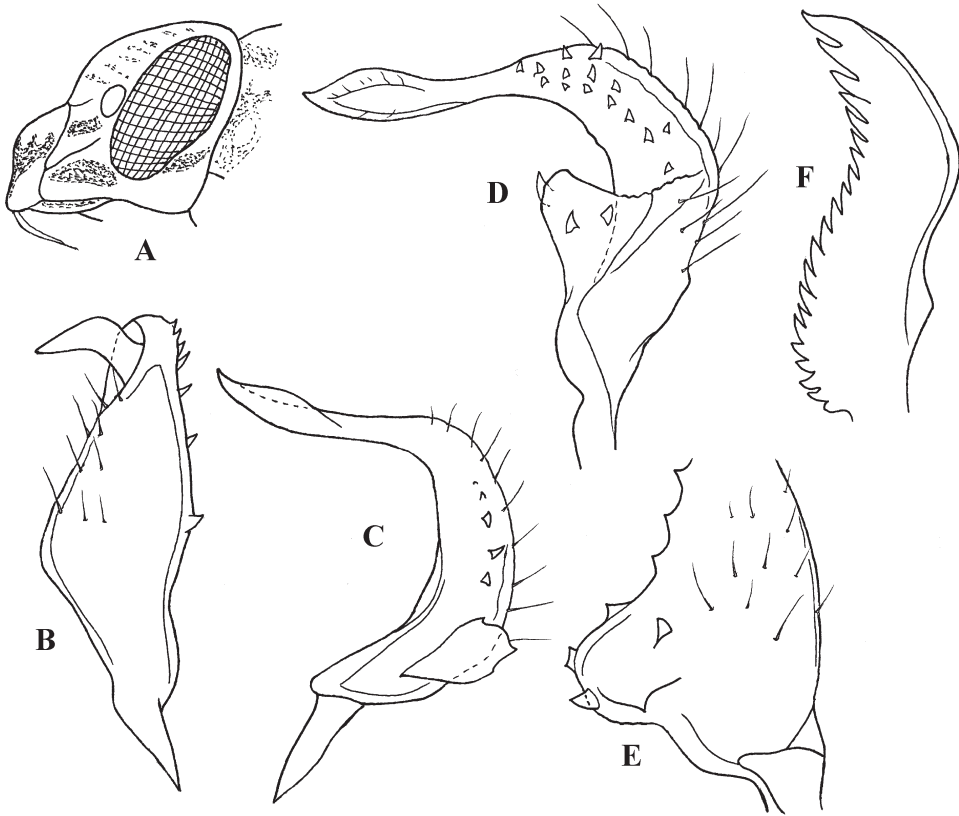


Fig. 4. *Phytocoris bavanus* sp. nov. A – male head in lateral view; B – right paramere; C–D – left paramere in two different views (drawn in glycerine slide mount); E – sensory lobe of the left paramere; F – spiculum.

of pronotum. Rostrum extending to base of venter. Pronotum in both sexes 1.9–2.2 times as long as broad, lateral margins straight, basal margin with four blunt tubercles. Tibial spines arising from small dark spots, short and pale. Male genitalia (Fig. 4B–F). Pygophore without tubercles; left paramere as in Fig. 4C–E; spiculum curved with 21 teeth (Fig. 4F).

Differential diagnosis. The Middle East species of the subgenus *Compsocorocoris* Reuter, 1876 were revised by LINNAVUORI (1999). *Phytocoris bavanus* sp. nov. resembles *Ph. thisbe* Linnavuori, 1999, but it is easily distinguished by the male genitalia. In *Ph. thisbe* (Fig. 5B–F) the left paramere is somewhat T-shaped with a strongly produced sensory lobe and the spiculum is serrate with 11 teeth. Moreover the ocular index of *Ph. thisbe* is 1.12–1.17 (♂) and 1.46 (♀) (see LINNAVUORI (1999: 181–182) and the text below).

Habitat. Collected at light in gardens with rich undergrowth, situated on mountain slopes.

Etymology. Named after the type locality.

Distribution. Endemic to Iran.

***Phytocoris (Compsocerochoris) monoceros* Linnavuori, 1999**

Material examined. KOHGLUYEH & BOYERAHMAD: Vazag SE of Yasuj, 1 specimen, 18.vi.2003.

Comments. On mountain slopes with *Artemisia* and *Astragalus*. Endemic to Iran.

***Phytocoris (Compsocerochoris) stysi* Linnavuori, 2008**

Material examined. KHUZESTAN: near Lali, ♂ (holotype) and 4 ♂♂ 1 ♀ (paratypes), 6.–8.v.2007; Zeydoon, 1 ♂ 1 ♀ (paratypes), 26.–28.iv.2007 (LINNAVUORI 2008a).

Comments. At light on river banks and gardens on mountain slopes. Endemic to Iran.

***Phytocoris (Compsocerochoris) thisbe* Linnavuori, 1999**

(Fig. 5A–H)

Material examined. KHUZESTAN: near Lali, 1 specimen, 6.–8.v.2007. FARS: Tang-e-Bostanak, 1680 m a.s.l., 2 specimens, 8.–9.vi.1998. BUSHEHR: near Bandar-e-Genaveh, 1 specimen, 23.–24.iv.2007. ILAM: Ilam, 14 specimens, 8.–9.vi.2005. KERMANSHAH: Chaharzabarloya, 1 specimen, 22.–23.vi.2006; Javanrud, 1 specimen, 10.–11.vi.2005. WEST AZERBAIJAN: near Sardasht, 1 specimen, 14.–15.vi.2005.

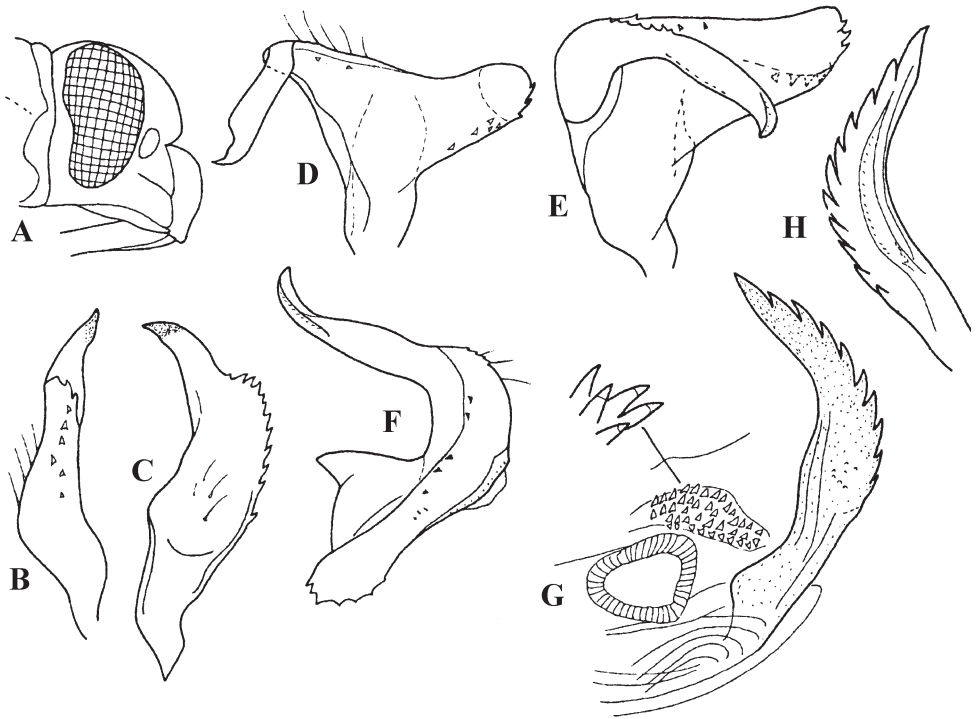


Fig. 5. *Phytocoris thisbe* Linnavuori, 1999. A – male head in lateral view; B–C – right paramere; D–F – left paramere in different views; G – aedeagus; H – spiculum (after LINNAVUORI 1999).

Comments. This species was described by LINNAVUORI (1999) on the basis of male holotype from a western slope of Deno Mts. in the Fars province (18.–19.viii.1976, Borumand & Pazuki lgt., deposited in National Museum, Prague). In this single specimen only antennomere 1 was present. The new specimens allow for some additions to the original description. Their dark body colouration and colouration of antennae resembles *Ph. bavanus* sp. nov. The ocular index ranges between 1.12–1.17 (♂) / 1.46 (♀). Proportions between the antennomeres are as 40 : 84 : 45 : 40 (♂) / 40 : 81 : 49 : ? (♀); antennomere 1 is 1.30–1.42 (♂) / 1.47 (♀) times as long as the diatone and antennomere 2 (♂♀) is 2.63–2.9 times as long as the diatone and 1.67–1.71 (♂) / 1.62 (♀) times as long as the basal width of pronotum. The male genitalia are characteristic (see Fig. 5A–H and LINNAVUORI (1999)).

Collected at light in gardens and forests on mountain slopes and near small streams with *Populus* and *Salix*.

***Phytocoris (Eckerleinius) filomele* Linnavuori, 2000**

Material examined. FARS: Fasa – Mianjangal, 2 specimens, 18.–19.vi.2006. LORESTAN: near Khoram Abad, 5 specimens, 5.–6.v.2005.

Comments. At light in gardens on mountain slopes. Endemic to Iran.

***Phytocoris (Eriamiris) brevidens* Linnavuori, 2000**

Material examined. MARKAZI: Tafresh, 1 specimen, 7.–8.vi.2006.

Comments. At light in gardens. The type from Khorasan was found on *Artemisia* in a hilly steppe. Endemic to Iran.

***Phytocoris (Eriamiris) laios* Linnavuori, 1974**

Material examined. MARKAZI: Saveh, 1 specimen, 8.–9.vi.2003.

Comments. At light in gardens. Endemic to Iran.

***Phytocoris (Eriamiris) tibullus* Linnavuori, 2000**

Material examined. BUSHEHR: near Bandar-e-Genaveh, 21 specimens, 23.–24.iv.2007.

Comments. At light in hilly coastal area of the Persian Gulf with *Acacia* and rich herbaceous vegetation. Endemic to Iran.

***Phytocoris (Ktenocoris) insignis* Reuter, 1876**

Material examined. WEST AZERBAIJAN: Nushin Sar near Urumiyeh, 3 specimens, 25.–26.vii.2006; 25 km S of Urumiyeh, 1 specimen, 17.vi.2005.

Comments. At light in gardens near the shores of Lake Urumiyeh. West-Palaeartic, extending to Central Asia.

***Phytocoris (Ktenocoris) ulmi* (Linnaeus, 1758)**

Material examined. KURDESTAN: near Marivan, 2 specimens, 12.–13.vi.2005.

Comments. On deciduous trees on mountain slopes. West-Palaeartic.

Polymerus (Poeciloscytus) brevicornis (Reuter, 1879)

Material examined. WEST AZERBAIJAN: Marangalu near Urumiyeh, 2 specimens, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 3 specimens, 25.–27.vi.2006.

Comments. At light in gardens near salt marshes. Recorded on *Galium*. Widely distributed from Central and south Europe to Central Asia and Russian Far East.

Polymerus (Poeciloscytus) cognatus (Fieber, 1858)

Material examined. EAST AZERBAIJAN: Saray, 1 specimen, 14.–15.vii.2005. KURDESTAN: Marivan, 1 specimen, 12.–13.vi.2005. WEST AZERBAIJAN: Marangalu near Urumiyeh, 4 specimens, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 7 specimens, 25.–26.vii.2006.

Comments. In gardens near salt marshes and on mountain slopes. Recorded on *Salsola kali*. Holopalaeartic.

Polymerus (Poeciloscytus) lammesi Rinne, 1989

Material examined. KURDESTAN: near Suteh, 9 specimens, 13.vi.2005. WEST AZERBAIJAN: Nushin Sar near Urumiyeh, 3 specimens, 15.–17.vi.2005.

Comments. At light in gardens near Lake Urumiyeh. Also on mountain slopes with *Galium verum*. Extending from southern Finland and Sweden to Central Europe, the Balkan Peninsula and Iran.

Polymerus (Poeciloscytus) vulneratus (Panzer, 1806)

Material examined. ESFAHAN: Esfahan, 6 specimens, 9.–10.vi.2003; Shahreza – Semirum, 4 specimens, 11.vi.2003. FARs: near Fasa, 1 specimen, 17.–19.vi.2001; Takht-e-Jamshid, 2 specimens, 14.–15.vi.2002. MARKAZI: Saveh, 1 specimen, 8.–9.vi.2003. WEST AZERBAIJAN: Marangalu near Urumiyeh, 1 specimen, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 2 specimens, 25.–27.vi.2006.

Comments. In meadows and gardens on *Galium* spp. Also recorded on Chenopodiaceae. Holopalaeartic.

Reuterista villiersi (Wagner, 1968)

Material examined. KHUZESTAN: near Lali, 3 specimens, 6.–8.v.2007; Zeydoon, 4 specimens, 26.–28.iv.2004. BUSHEHR: Ab Pakhs, 3 specimens, 25.–26.iv.2007; near Bandar-e-Genaveh, numerous specimens, 23.–24.iv.2007.

Comments. At light in hilly gardens. Endemic to Iran.

Stenotus brevior Poppius, 1910

Material examined. BUSHEHR: near Bandar-e-Genaveh, numerous specimens, 23.–24.iv.2007.

Comments. At light in hilly coastal area of the Persian Gulf. Eremian. Known from Israel, Saudi Arabia, and Yemen. **New for Iran.**

Subfamily Orthotylinae
Tribe Halticini

***Orthocephalus saltator* (Hahn, 1835)**

Material examined. KURDESTAN: near Suteh, 1 specimen, 13.vi.2005. WEST AZERBAIJAN: Nushin Sar near Urumiyeh, 1 specimen, 15.–17.vi.2005.

Comments. At light on mountain slopes with Asteraceae and Apiaceae and in gardens near Lake Urumiyeh. Recorded on Asteraceae. Holarctic.

Tribe Orthotylini

***Blepharidopterus diaphanus* (Kirschbaum, 1856)**

Material examined. Many specimens: ILAM: near Eyvan, 9.–10.vi.2005. KERMANSHAH: Chaharzarolya, 22.–23.vi.2006. KURDESTAN: Marivan, 24.–25.vi.2006; 20 km NE of Marivan, 24.–25.vi.2006; near Sanandai, 23.–24.vi.2006. WEST AZERBAIJAN: Bitas 20 km from Mahabad, 19.–10.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–27.vi.2006.

Comments. At light in gardens near pools and rivers. On *Salix*. Euro-Siberian.

***Brachynotocoris puncticornis* Reuter, 1889**

Material examined. FARS: Banon Nat. Park, 1650 m a.s.l., 1 specimen, 13.–14.vi.1996. WEST AZERBAIJAN: Bitas 20 km from Mahabad, 9 specimens, 19.–20.vii.2004.

Comments. At light in garden on a river bank. Known on *Fraxinus excelsior*. North Mediterranean.

***Brachynotocoris viticinus* Seidenstücker, 1954**

Material examined. KHUZESTAN: Bagh Malek, many specimens, 9.–11.v.2007; near Lali, many specimens, 6.–8.v.2007; Sade-e-Daz, 1 specimen, 6.–7.vi.2005; Zeydoon, 9 specimens, 26.–28.iv.2007. FARS: Fasa – Mianjangal, many specimens, 18.–19.vi.2006; 15 km E of Sarvestan, many specimens, 15.–16.vi.2003. WEST AZERBAIJAN: Marangalu near Urumiyeh, 1 specimen, 15.–17.vii.2004.

Comments. At light in gardens near rivers and brooks. Known on *Vitex agnus-castus*. Syrio-Anatolian, known from Turkey, Syria, Israel and Iraq. **New for Iran.**

***Malacocoris chlorizans* (Panzer, 1794)**

Material examined. KOHGILOUYEH & BOYERAHMAD: Madvan near Yasuj, 1 specimen, 11.–12.vi.2003. LORESTAN: Kahriz 7 km from Boroujerd, 1 specimen, 8.–9.vi.2006. WEST AZERBAIJAN: near Sardast, 1 specimen, 14.–15.vi.2005.

Comments. At light in hilly gardens. On *Fraxinus* sp. West-Palaeartic.

***Orthotylus (Melanotrichus) caviceps* Wagner, 1971**

Material examined. KURDESTAN: near Sanandai, 1 specimen, 19.–24.vi.2006.

Comments. At light on a river shore with *Populus* and *Salix*. Endemic to Iran.

***Orthotylus (Melanotrichus) fieberi fieberi* Frey-Gessner, 1864**

Material examined. KERMAN: Kerman, 15 specimens, 22.–23.v.1996. WEST AZERBAIJAN: Marangalu near Urumiyeh, 2 specimens, 15.–17.vii.2004.

Comments. At light in gardens near a salt marsh on a lake shore. On *Chenopodium* sp. Irano-Turanian.

***Orthotylus (Melanotrichus) flavosparsus* (C. R. Sahlberg, 1841)**

Material examined. ILAM: near Eyvan, 1 specimen, 9.–10.vi.2005. WEST AZERBAIJAN: Bitas 20 km S of Mahabad, 2 specimens, 19.–20.vii.2004; Marangalu near Urumiyeh, several specimens, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 7 specimens, 25.–27.vi.2006.

Comments. At light in gardens on river shores. On Chenopodiaceae. Holarctic.

***Orthotylus (Melanotrichus) hirtulus* Wagner, 1951**

Material examined. KHUZESTAN: near Ahvaz, several specimens, 29.iv.–1.v.2002; Behbahan, 2 specimens, 27.–28.iv.2007. BUSHEHR: Ab Pakhsh, 1 specimen, 25.–26.iv.2007.

Comments. At light in date-palm gardens near river banks. In Khorasan found on *Anabasis* in salt steppes. Eremian.

***Orthotylus (Melanotrichus) minutus* Jakovlev, 1877**

Material examined. Numerous specimens: FARS: Khaneh Kat, 16.–17.vi.2006; Maharlu, 17.–18.vi.2002. WEST AZERBAIJAN: Bitas 20 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–27.vii.2004.

Comments. At light in gardens on river banks and near salt marshes of a lake. On Chenopodiaceae. Pontomediterranean, extending to Siberia and Central Asia.

***Orthotylus (Melanotrichus) nigricollis* Wagner, 1962**

Material examined. BUSHEHR: near Bandar-e-Genaveh, 1 specimen, 23.–24.iv.2007.

Comments. In a hilly coastal area of the Persian Gulf with rich vegetation. Eremian, known from Iraq and Saudi Arabia. **New for Iran.**

***Orthotylus (Melanotrichus) pusillus* (Reuter, 1883)**

Material examined. KHUZESTAN: Ahvaz Ghazavieh, 2 specimens, 7.–8.vi.2005. BUSHEHR: near Bandar-e-Genaveh, several specimens, 23.–24.iv.2007. FARS: Maharlu, 2 specimens, 17.–18.vi.2002.

Comments. In salt marshes on halophytes such as *Suaeda dendroides* and *Salsola*. Often at light. Eremian, also extending to the Mediterranean subregion and north-eastern Africa.

***Orthotylus (Melanotrichus) viridissimus* Linnavuori, 1961**

Material examined. WEST AZERBAIJAN: Numerous specimens: Bitas 20 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004.

Comments. At light in gardens near salt marshes on a lake shore. On *Artemisia* sp. Irano-Turanian, known from Iran and Turkmenistan.

Orthotylus (Orthotylus) nassatus (Fabricius, 1787)

Material examined. Numerous specimens: **KERMANSHAH:** Chaharzabarolya, 22.–23.vi.2006; near Javanrud, 10.–11.vi.2005. **KOHGILUYEH & BOYERAHMAD:** Madvan near Yasuj, 11.–12.vi.2003; Tang Sorkh 35 km SE of Yasuj, 18.–19.vi.2003. **KURDESTAN:** near Marivan, 12.–13.vi.2005; 20 km NE of Marivan, 24.–25.vi.2006; near Sanandai, 11.–12.vi.2005. **LORESTAN:** Kahriz 7 km from Boroujerd, 8.–9.vi.2006. **WEST AZERBAIJAN:** Kitkeh 50 km S of Mahabad, 19.–20.vii.2004; Marangalu near Urumiyeh, 15.–17.vii.2004; Nushin Sar near Urumiyeh, 25.–26.vi.2006. **ILAM:** near Eyvan, 9.–10.vi.2005.

Comments. At light in gardens. Known on deciduous trees such as *Fraxinus*, *Quercus*, *Salix*, and *Tilia*. West-Palaearctic.

Orthotylus (Parapachylops) putshkovi Josifov, 1974

Material examined. **FARS:** Fasa – Mianjanganl, 6 specimens, 18.–19.vi.2006.

Comments. At light on the shore of a brook with *Vitex agnus-castus* and other bushes. Irano-Turanian, known from Iran and Kyrgyzstan.

Pseudoloxops iranicus Kerzhner, 1962

Material examined. Numerous specimens: **ESFAHAN:** Esfahan, 9.–10.vi.2003. **FARS:** Ashkazar, 18.–24.v.1996; Shul – Sangar, 17.–18.vi.2003; Takht-e-Jamshid, 14.–15.vi.2002; Zarqan Baman Nat. Park, 1650 m a.s.l., 13.–14.vi.1996. **KERMANSHAH:** Chaharzabarolya, 22.–23.vi.2006. **KURDESTAN:** Marivan, 12.–13.vi.2005. **MARKAZI:** Marivan, 12.–13.vi.2006.

Comments. At light in gardens along rivers and brooks and on mountain slopes. On *Fraxinus* sp. Endemic to Iran.

Pseudoloxops sangrudanus Linnavuori, 2006

Material examined. **FARS:** Fasa – Mianjanganl, 2 specimens, 18.–19.vi.2006; Maharlu, 1 specimen, 15.–16.vi.2005; 15 km E of Sarvestan, 2 specimens, 15.–16.vi.2003.

Comments. On deciduous trees in mountain forests. Endemic to Iran.

Reuteria jordanica Carapezza, 2002

Material examined. **ILAM:** Ilam, 3 specimens, 21.–22.vi.2006. **KERMANSHAH:** Chaharzabarolya, 9 specimens, 22.–23.vi.2006. **KOHGILUYEH & BOYERAHMAD:** Madvan near Yasuj, 1 specimen, 11.–12.vi.2006. **KURDESTAN:** 20 km NE of Marivan, 3 specimens, 24.–25.vi.2006.

Comments. At light in gardens in mountain forests. On *Quercus calliprinos*. Formerly known only from Jordan. **New for Iran.**

Zanichius alatanus Hoberlandt, 1956

Material examined. **FARS:** Firuzabad, 1 specimen, 15.–16.vi.2008. **KERMANSHAH:** Chaharzabarolya, 1 specimen, 22.–23.vi.2006; near Javanrud, 1 specimen, 10.–11.vi.2005.

Comments. In moist localities, in Israel found in *Papyrus* swamps. Known from Crete, Turkey, Iraq, Israel and tropical Africa (Nigeria and Central African Republic). **New for Iran.**

***Zanichus breviceps* (Wagner, 1951)**

Material examined. KHUZESTAN: Andimeshk – Tangvan, 1 specimen, 9.–10.vi.2006; Zeydoon, 1 specimen, 26.–28.iv.2007. FARS: near Fasa, 2 specimens, 17.–19.vi.2008; Firuzabad, 2 specimens, 15.–16.vi.2008; Khaneh Kat, 1 specimen, 16.–17.vi.2006; Maharlu, 13 specimens, 15.–16.vi.2006, 16.–17.vi.2008.

Comments. At light in gardens near salt marshes of a lake and on shores of brooks with rich vegetation of *Juncus*, *Phragmites* and *Tamarix*. Known on *Calotropis procera*, also on Malvaceae such as *Abutilon* and *Gossypium*. Eremian, extending from Egypt to Saudi Arabia, Yemen, Iran (Hormozgan province) and the adjacent Sudanese subregion (from Nigeria to Eritrea).

Subfamily Phylinae
Tribe Hallodapini

***Acrorrhinium atricorne* Linnavuori, 2006**

Material examined. Many specimens: FARS: Bavan near Nur Abad, 20.–21.vi.2008; near Fasa, 17.–19.vi.2008; Fasa – Mianjangan, 18.–19.vi.2006; Firuzabad, 15.–16.vi.2008; Maharlu, 17.–18.vi.2002, 16.–17.vi.2008; 10 km W of Shiraz, 16.–17.vi.2002; Tang-e-Bostanak, 8.–9.vi.1998; Takht-e-Jamshid, 14.–15.vi.2002. ILAM: near Eyvan, 9.–10.vi.2005; Ilam, 21.–22.vi.2006. KERMANSHAH: Charzabarloya, 22.–23.vi.2006. KURDESTAN: 20 km NE of Marivan, 24.–26.vi.2006.

Comments. At light in mountain forests and gardens. Endemic to Iran.

***Acrorrhinium conspersum* (Noualhier, 1895)**

Material examined. Numerous specimens: FARS: Bavan near Nur Abad, 21.–22.vi.2008; Estahban, 1710 m a.s.l., 10.–11.vi.1996; near Fasa, 17.–19.vi.2008; Fasa – Mianjangan, 18.–19.vi.2006, 17.–18.vi.2008; Firuzabad, 15.–16.vi.2008; Maharlu, 15.–16.vi.2006, 16.–17.vi.2008; near Nur Abad, 21.–22.vi.2008; 15 km E of Sarvestan, 15.–16.vi.2003; Shuh – Sangar, 17.–18.vi.2003. ILAM: Ilam, 21.–22.vi.2006. KERMANSHAH: Chaharzarbarolya, 22.–23.vi.2006. KURDESTAN: near Marivan, 12.–13.vi.2003; 20 km NE of Marivan, 24.–25.vi.2006. WEST AZERBAIJAN: Kitkeh 50 km S of Mahabad, 19.–20.vii.2004.

Comments. At light in hilly gardens. Recorded on *Juniperus phoenicea*. Syrio-Anatolian, known from Bulgaria, Turkey, Israel, Iraq and Iran.

***Alloeomimus kurdus* Hoberlandt, 1953**

Material examined. KHUZESTAN: Zeydoon, 1 specimen, 26.–28.iv.2007. FARS: 15 km E of Sarvestan, 1 specimen, 15.–16.vi.2003.

Comments. At light in gardens on river banks. Known from Syria, Iraq and Iran.

***Glaphyrocoris iranicus* Linnavuori, 1965**

Material examined. KHUZESTAN: Lali, 7 specimens, 6.–7.vi.2008; near Ramhormoz, 1 specimen, 7.–9.vi.2008. FARS: 10 km S of Deh Bid, 2000 m a.s.l., 1 specimen, 14.vi.1996; near Fasa, 1 specimen, 17.–19.vi.2008; Firuzabad, 4 specimens, 15.–16.vi.2008; Maharlu, 6 specimens, 15.–16.vi.2006, 16.–17.vi.2008. KERMANSHAH: Chaharbarolya, 3 specimens, 22.–23.vi.2006.

Comments. At light in gardens on mountain slopes and near river banks. Endemic to Iran.

Glaphyrocoris puncticollis (Linnavuori, 1965)

Material examined. FARS: 15 km E of Sarvestan, 1 specimen, 15.–16.vi.2003.

Comments. At light in gardens in hilly areas. Endemic to Iran.

Hallodapus costae (Reuter, 1890)

Material examined. KHUZESTAN: Andimeshk, several specimens, 5.–6.vi.2008; Lali, 4 specimens, 6.–7.vi.2008; near Ramhormoz, 2 specimens, 7.–9.vi.2008; Zeydoon, 3 specimens, 26.–28.iv.2007. FARS: near Fasa, 4 specimens, 17.–19.vi.2008; Firuzabad, 1 specimen, 14.–15.vi.2008; 50 km SE of Jahrom, 2 specimens, 16.–17.vi.2006; Maharlou, many specimens, 15.–16.vi.2006, 16.–17.vi.2008; near Nur Abad, 1 specimen, 21.–22.vi.2008.

Comments. At light in gardens on river banks and in hilly slopes. Eremian, known from Egypt, Saudi Arabia, Israel, Iraq, Iran, extending to the Sudanese subregion in tropical Africa.

Hallodapus pilosus (Reuter, 1882)

Material examined. FARS: Khaneh Kat, 1 specimen, 16.–17.vi.2006.

Comments. At light on the shore of a salt lake. Eremian, known from Saudi Arabia and Iraq, extending to the Sudanese subregion. **New for Iran.**

Hallodapus pseudoconcolor (Linnavuori, 1984)

Material examined. KHUZESTAN: Abadan, 1 specimen, 21.–22.iv.2007; near Ahvaz, 2 specimens, 29.iv.–1.v.2007; near Andimeshk, 1 specimen, 5.–6.v.2007. FARS: Fasa – Mianjangal, 1 specimen, 18.–19.vi.2006. MARKAZI: Saveh, 1 specimen, 6.–7.vi.2006.

Comments. At light in date-palm gardens near river banks. Eremian, extending from Iraq to Central Asia.

Hallodapus suturalis (Herrich-Schaeffer, 1837)

Material examined. EAST AZERBAIJAN: Agh Gonbad, 1 specimen, 14.–15.vii.1994; Saray, 1 specimen, 14.–15.vii.2004. FARS: Maharlou, 1 specimen, 17.–18.vi.2002. LORESTAN: Kahriz 7 km from Boroujerd, 1 specimen, 8.–9.vi.2006. WEST AZERBAIJAN: Marangalu near Urumiyeh, 1 specimen, 15.–17.vii. 2004; 25 km S of Urumiyeh, 1 specimen, 17.vi.2005.

Comments. At light in gardens and forested hills and on shores of lakes and rivers. North-Mediterranean, extending to Central Asia.

Laemocoris farsianus Linnavuori, 2004

Material examined. FARS: Estahban, 1718 m a.s.l., 1 specimen, 10.–11.vi.1996; Firuzabad, 5 specimens, 15.–16.vi.2008; Kamfiruz, 1 specimen, 15.–16.vi.2002; Maharlou, 6 specimens, 17.–18.vi.2002, 15.–16.vi.2006, 16.–17.vi.2008.

Comments. At light in gardens on mountain slopes, near a salt lake and near brooks. Endemic to Iran.

***Laemocoris reuteri* Reuter, 1879**

Material examined. FARS: Fasa – Mianjangan, 1 specimen, 18.–19.vi.2006.

Comments. At light in a garden. Eremian, extending from Algeria to Central Asia.

***Paralaemocoris (Laemocorella) linnavuorii* Kerzhner, 1970**

Material examined. FARS: 10 km S of Deh Bid, 2000 m a.s.l., 5 specimens, 14.vi.1996.

Comments. At light in mountain forests and gardens. Known from Azerbaijan and Iran.

***Systemonotus jirandehanus* Linnavuori & Hosseini, 1998**

Material examined. EAST AZERBAIJAN: Maragleh, 1 specimen, 17.–18.vi.2005. MARKAZI: Tafresh, 4 specimens, 7.–8.vi.2006.

Comments. At light in mountain forests and gardens. Endemic to Iran.

***Trichophorella splendida* Linnavuori, 1984**

Material examined. KHUZESTAN: Abadan, 9 specimens, 21.–22.iv.2007, 10.–11.vi.2008; Shadegan, 1 specimen, 20.–21.iv.2007. BUSHEHR: Ab Pakhs, 8 specimens, 25.–26.iv.2007, 13.–14.vi.2008. FARS: Baha Arab 50 km SE of Jahrom, 6 specimens, 16.–17.vi.2003; Farrahsband, 1 specimen, 14.–15.vi.2008; Fasa – Mianjangan, 1 specimen, 18.–19.vi.2006; Firuzabad, 18 specimens, 15.–16.vi.2008.

Comments. At light in gardens near brooks in hilly slopes. Eremian, known from Saudi Arabia, Iraq and Iran.

Tribe Pilophorini

***Pilophorus confusus* (Kirschbaum, 1876)**

Material examined. EAST AZERBAIJAN: Agh Gonbad, 1 specimen, 14.–15.vii.2004; Chareh Chaman, 1 specimen, 14.vii.2004. FARS: Maharlou, 1 specimen, 17.–18.vi.2002.

Comments. At light in gardens on mountain slopes and on the shores of a salt lake. On deciduous trees. Holopalaeartic.

Discussion

Of the 127 identified species, 33 species (26 %) represent the West-Palaeartic, European, Holopalaeartic, Euro-Siberian, and Holarctic elements, 28 species (22.4 %) Anatolian, Caucasian, Central-Asiatic, Irano-Turanian, and Syrio-Anatolian elements, 22 species (17.6 %) Mediterranean element, 21 species (16.8 %) are endemic to Iran, and 18 species (14.4 %) are Eremian, Palaeotropical or cosmopolitan. Finally, one species is Oriental, one cosmopolitan in warm regions and one Holo-Sudanese.

References

- ALIPANAH H. & USTJUZHANIN P. 2005: An annotated list of the Pterophorinae (Oidaemaphorini and Pterophorini) of Iran (Lepidoptera, Pterophorinae). *Entomologica Fennica* **16**: 129–143.
- ANDERSEN N. M. 1995: Infraorder Gerromorpha. Pp. 77–114. In: AUKEMA B. & RIEGER Ch. (eds.): *Catalogue of the Heteroptera of the Palaearctic Region. Vol. 1*. The Netherlands Entomological Society, Amsterdam, xxvi + 222 pp.
- ANDERSEN N. M. & WEIR T. 2003: The genus *Microvelia* Westwood in Australia (Hemiptera: Heteroptera: Veliidae). *Invertebrate Systematics* **17**: 261–348.
- DINARVAND M. 2003: Biodiversity of Agricultural Research Center of Khuzestan. Biodiversity of Plant species in arid zones of southwest of Iran. A study of Khuzestan province. *Seventh International Conference on Development of Dry Lands, Tehran, Iran, 14–17 September 2003*. ICARDA, 10 pp.
- FALAMARZI Sh., ASADI Gh. & HOSSEINI R. 2009: Species inventory, preys and host plants of Anthocoridae sensu lato (Hemiptera: Heteroptera) in Shiraz and its environs (Ira, Fars Province). *Acta Entomologica Musei Nationalis Pragae* **49**: 33–42.
- GAPON D. A. 2007: Taksonomicheskii obzor vida *Promecocoris* Puton, 1886 (Heteroptera, Scutelleridae) s opisaniem stroeniya genitaliy samtsov i samok. (A taxonomic review of *Promecocoris* Puton, 1886 (Heteroptera, Scutelleridae), with a description of male and female genitalia). *Euroasian Entomological Journal* **6**: 57–66 (in Russian, English abstract).
- GHAHARI H., CARPINTERO D. L. & OSTOVAN H. 2009: An annotated catalogue of the Iranian Anthocoridae (Hemiptera: Heteroptera: Cimicomorpha). *Acta Entomologica Musei Nationalis Pragae* **49**: 43–58.
- GHAHARI H., CHÉROT F., OSTOVAN H. & SAKENIN H. 2008: Heteroptera from rice fields and surrounding grasslands of northern Iran (Insecta), with special emphasis on predator species. *Journal of the Entomologic Research Society* **10**: 13–25.
- GOLUB V. B. 2002: On the status, synonymy and distribution of *Stephanitis oschanini* Vasiliev with corrected data on the distribution of *S. pyri* (Heteroptera: Tingidae). *Zoosystematica Rossica* **11**: 154.
- GOLUB V. B. 2006: Dva novykh vida klopov-kruzhevnits roda *Tingis* F. iz Zakavkaz'ya i Sredney Azii (Heteroptera: Tingidae). (Two new species of lace bugs of the genus *Tingis* F. from Transcaucasia and Middle Asia (Heteroptera: Tingidae)). *Russian Entomological Journal* **15**: 123–126.
- HEISS E. 2002: Beitrag zur Kenntnis der Wanzenfauna (Heteroptera) Irans, I. Pp. 87–97. In: GUTLEB B. & WIESER Ch. (eds): *Ergebnisse einer Zoologischen Exkursion in den Nordiran, 2001*. Arthropoda (Lepidoptera, Trichoptera, Neuroptera, Heteroptera, Coleoptera, Opiliones, Araneae, Decapoda) und Vertebrata (Amphibia, Reptilia, Aves, Mammalia). *Carinthia II* **192/112** (2001): 33–140.
- HEISS E. 2004: Beitrag zur Kenntnis der Wanzenfauna Irans, III. Familie Aradidae Brullé, 1836 (Heteroptera). *Carinthia II* **194/114**: 395–412.
- HEISS E. & LINNAVUORI R. E. 2002: Beitrag zur Kenntnis der Wanzenfauna Irans, II. *Carinthia II* **192/112**: 615–632.
- KERZHNER I. M. & JOSIFOV M. 1999: Miridae Hahn, 1833. Pp. 1–572. In: AUKEMA B. & RIEGER Ch. (eds.): *Catalogue of the Heteroptera of the Palaearctic Region. Vol.3*. The Netherlands Entomological Society, Amsterdam, xiv + 577 pp.
- KMENT P. & JINDRA Z. 2005: New and interesting records of true bugs (Heteroptera) from Turkey, southeastern Europe, Near and Middle East. *Acta Entomologica Musei Nationalis Pragae* **45**: 3–16.
- KMENT P. & JINDRA Z. 2008: New records of *Eurydema fieberi* from the Czech Republic with corrections to some previously published records of Palaearctic *Eurydema* species (Hemiptera: Heteroptera: Pentatomidae). *Acta Musei Moraviae, Scientiae Biologicae* **93**: 11–27.
- LINDSKOG P. 1995: Infraorder Leptopodomorpha. Pp. 115–141. In: AUKEMA B. & RIEGER Ch. (eds.): *Catalogue of the Heteroptera of the Palaearctic Region. Vol. 1*. The Netherlands Entomological Society, Amsterdam, xxvi + 222 pp.
- LINNAVUORI R. E. 1999: On the genus *Phytocoris* Fallén (Heteroptera, Miridae, Mirinae) in Iran with remarks on species of the adjacent countries. Part I. *Acta Universitatis Carolinae Biologica* **43**: 163–193.

- LINNAVUORI R. E. 2000a: On the genus *Phytocoris* Fallén (Heteroptera, Miridae, Mirinae) in Iran with remarks on species of the adjacent countries. Part II. *Acta Universitatis Carolinae Biologica* **44**: 73–109.
- LINNAVUORI R. E. 2000b: On the genus *Phytocoris* Fallén (Heteroptera, Miridae, Mirinae) in Iran with remarks on species of the adjacent countries. Part III. *Acta Universitatis Carolinae Biologica* **44**: 163–188.
- LINNAVUORI R. E. 2004a: Heteroptera of the Hormozgan province in Iran. I. Description of new species of the Miridae. *Acta Universitatis Carolinae Biologica* **48**: 3–30.
- LINNAVUORI R. E. 2004b: Heteroptera of the Hormozgan province in Iran. II. Nepomorpha, Gerromorpha, Leptopodomorpha, Cimicomorpha (Nabidae, Anthocoridae, Miridae). *Acta Universitatis Carolinae Biologica* **48**: 85–98.
- LINNAVUORI R. E. 2004c: Heteroptera of the Hormozgan province in Iran. III. Cimicomorpha (Anthocoridae, Cantacaderidae, Tingidae), Pentatomomorpha. *Acta Universitatis Carolinae Biologica* **48**: 273–286.
- LINNAVUORI R. E. 2006: Studies on the Miridae (Insecta: Heteroptera) of Gilan and the adjacent provinces in northern Iran. I. Description of new species. *Acta Universitatis Carolinae Biologica* **49** (2005): 219–243.
- LINNAVUORI R. E. 2007a: Studies on the Miridae (Heteroptera) of Gilan and the adjacent provinces in northern Iran. II. *Acta Entomologica Musei Nationalis Pragae* **47**: 17–56.
- LINNAVUORI R. E. 2007b: Studies on the Lygaeidae s. lat. (Heteroptera) of Gilan and the adjacent provinces in northern Iran. *Acta Entomologica Musei Nationalis Pragae* **47**: 57–75.
- LINNAVUORI R. E. 2007c: Studies on the Piesmatidae, Berytidae, Pyrrhocoridae, Stenocephalidae, Coreidae, Rhopalidae, Alydidae, Cydnidae, and Plataspidae (Heteroptera) of Gilan and the adjacent provinces in northern Iran. *Acta Entomologica Musei Nationalis Pragae* **47**: 77–91.
- LINNAVUORI R. E. 2008a: A new species of the genus *Phytocoris* (Hemiptera: Heteroptera: Miridae) from southern Iran. *Acta Entomologica Musei Nationalis Pragae* **48**: 385–388.
- LINNAVUORI R. E. 2008b: Studies on the Acanthosomatidae, Scutelleridae and Pentatomidae (Heteroptera) of Gilan and the adjacent provinces in northern Iran. *Acta Entomologica Musei Nationalis Pragae* **48**: 1–21.
- LINNAVUORI R. E. & HEISS E. 2008: A new subspecies of Lygaeidae from northern Iran: *Raglius alboacuminatus josifovi* nov. ssp. (Heteroptera, Lygaeidae). Pp. 231–234. In: GROZEVA S. & SIMOV N. (eds.): *Advances in Heteroptera Research. Festschrift for Dr. Michael Josifov*. Pensoft, Sofia, Moscow, 417 pp.
- LINNAVUORI R. E. & HOSSEINI R. 1999: On the genus *Dicyphus* (Heteroptera: Miridae, Dicyphinae) in Iran. *Acta Universitatis Carolinae Biologica* **43**: 155–162.
- LINNAVUORI R. E. & HOSSEINI R. 2000a: On the *Polymerus* subgenus *Poeciloscytus* Fieber (Heteroptera: Miridae, Mirinae) in Iran. *Acta Universitatis Carolinae Biologica* **44**: 189–194.
- LINNAVUORI R. E. & HOSSEINI R. 2000b: *Heteroptera of Guilan with remarks on species of the adjacent areas. Part 1*. Guilan University Publication, Rasht, 94 pp.
- LINNAVUORI R. E. & MODARRES M. 1999a: Studies on the Heteroptera of the Khorasan province in N. E. Iran. II. Cimicomorpha: Miridae. *Entomologica Fennica* **10**: 215–231.
- LINNAVUORI R. E. & MODARRES M. 1999b: Studies on the Heteroptera of the Khorasan province in N. E. Iran. III. Cimicomorpha: Tingidae and Pentatomomorpha: Berytidae. *Entomologica Fennica* **10**: 233–234.
- LIS B. 2001a: *Cantacader iranicus* sp. nov. from Iran with remarks and a key to the West-Palaearctic species of the genus *Cantacader* Amyot et Serville, 1843 (Hemiptera: Tingioidea: Cantacaderidae). *Annales Zoologici* (Warszawa) **51**: 423–428.
- LIS B. 2001b: *Agramma hirta* n. sp. from Iran and new records of some other Palaearctic lace-bugs (Hemiptera: Heteroptera: Tingidae). *Genus* **12**: 425–428.
- MAGNIEN Ph. 2006: A new species from the Near East for the genus *Ochetostethus* Fieber 1860 (Heteroptera, Cydnidae). Pp. 513–516. In: RABITSCH W. (ed.): *Hug the bug – For love of true bugs. Festschrift zum 70. Geburtstag von Ernst Heiss*. *Denisia* **19**: 1–1184.
- MOULET P. 2004: Contribution à l'étude des Stenopodainae paléarctiques (Heteroptera, Reduviidae). *Nouvelle Revue d'Entomologie* (N. S.) **20**: 281–297.
- MOULET P., GHAHARI H., LINNAVUORI R. & OSTOVAN H. 2008: Four new records of Coreoidea (Hemiptera: Heteroptera) from Iran. *Klapalekiana* **44**: 233–235.

- PÉRICART J. 2007: A new species of *Anthocoris* from Iran: *Anthocoris guentheri* n. sp. (Heteroptera: Anthocoridae). Pp. 109–111. In: RENKER C. (ed.): Festschrift zum 70. Geburtstag von Hannes Günther. *Mainzer Naturwissenschaftliche Archiv, Beiheft* **31**: 1–339.
- POLHEMUS J. T., JANSSON A. & KANYUKOVA E. 1995: Infraorder Nepomorpha – water bugs. Pp. 13–75. In: AUKEMA B. & RIEGER Ch. (eds.): *Catalogue of the Heteroptera of the Palaearctic Region. Vol. 1*. The Netherlands Entomological Society, Amsterdam, xxvi + 222 pp.
- RÉDEI D. 2005: A new species of *Stirogaster* from Iran (Heteroptera: Reduviidae: Stenopodainae). *Annales Historico-Naturales Musei Nationalis Hungarici* **97**: 33–39.
- RIBES J. & PAGOLA-CARTE S. 2007: *Brachynema purpureomarginatum* kerzhneri n. ssp. from Iran (Hemiptera: Heteroptera: Pentatomidae), with a key to the «Rassenkreis». *Heteropterus Revista de Entomología* **7**: 19–24