

Studies on the Miridae (Heteroptera) of Gilan and the adjacent provinces in northern Iran.

II. List of species

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Abstract. A list of 204 species of the Miridae from Gilan and the adjacent provinces of Iran is provided. The following 58 species are new for Iran: *Adelphocoris vandalicus* (Rossi, 1790), *Anapus freyi* (Fieber, 1864), *Atractotomus mali* (Meyer-Dür, 1843), *Blepharidopterus angulatus* (Fallén, 1807), *Brachycoleus caucasicus* (Poppius, 1912), *Camptotylus liniae* (Puton, 1881), *Campylomma annulicorne* (Signoret, 1865), *Compsidolon (Apsinthophylus) absinthii* (Scott, 1870), *C. (A.) nanno* Linnavuori, 1971, *Deraeocoris (Deraeocoris) rutilus* (Herrich-Schaeffer, 1839), *D. (D.) trifasciatus* (Linnaeus, 1767), *Ectagela aspera* Linnavuori, 1984, *Ephippiocoris lunatus* Poppius, 1912, *Eumecotarsus milidius* Seidenstücker, 1980, *Europiella albipennis* (Fallén, 1829), *E. alpina* (Reuter, 1875), *E. artemisiae* (Becker, 1864), *E. nigrocunealis* (V. G. Putshkov, 1975), *Euryopicoris nitidus* (Meyer-Dür, 1843), *Excentricus planicornis* (Herrich-Schaeffer, 1836), *Globiceps (Globiceps) coryli* V. G. Putshkov, 1970, *G. (G.) sphaegiformis* (Rossi, 1790), *G. (Kelidocoris) fulvicollis* Jakovlev, 1877, *Halticus apterus apterus* (Linnaeus, 1758), *H. darbandikhanus* Linnavuori, 1984, *H. macrocephalus* Fieber, 1858, *Lepidargyrus putshkovi* Drapolyuk, 1993, *Leptopterna putshkovi* Vinokurov, 1982, *Macrotylus (Alloeonycha) horvathi* (Reuter, 1876), *M. (Macrotylus) talhouki* Wagner, 1976, *Megacoelum infusum* (Herrich-Schaeffer, 1839), *M. pistaciae* V. G. Putshkov, 1976, *Nanopsallus carduellus* (Horváth, 1888), *Oncotylus (Oncotylus) nigdensis* Linnavuori, 1961, *O. (O.) viridiflavus longipes* Wagner, 1954, *Orthocephalus fulvipes* Reuter, 1904, *O. parvulus* Reuter, 1891, *O. saltator* (Hahn, 1835), *O. vittipennis* (Herrich-Schaeffer, 1835), *Orthonotus kiritshenkoi* Josifov, 1964, *Orthops (Orthops) basalis* (A. Costa, 1853), *Orthotylus (Orthotylus) marginalis* Reuter, 1883, *O. (O.) nassatus* (Fabricius, 1787), *O. (O.) populi* Drapolyuk, 1991, *Phytocoris (Ktenocoris) ulmi* (Linnaeus, 1758), *Pilophorus cinnamopterus* (Kirschbaum, 1856), *P. perplexus* (Douglas & Scott, 1875), *Pinalitus cervinus* (Herrich-Schaeffer, 1841), *Plagiognathus (Plagiognathus) zuvandiensis* V. G. Putshkov, 1978, *P. (Zophocnemis) bicolor* (Jakovlev, 1880), *Psallus (Mesopsallus) ambiguus* (Fallén, 1807), *P. (Psallus) cruentatus* (Mulsant & Rey, 1852), *P. (P.) gidajotovi* Drapolyuk, 1987, *P. (P.) salicis* (Kirschbaum, 1856), *P. (P.) varians va-*

rians (Herrich-Schaeffer, 1841), *Salicarus urnammu* Linnavuori, 1984, *Strongylocoris niger* (Herrich-Schaeffer, 1835), and *Thermocoris rivalis rivalis* (Horváth, 1894). The first record of *Compsidolon (Apsinthophylus) nanno* from Jordan is added. One new synonymy is established: *Zanchius breviceps* (Wagner, 1951) = *Z. iranicus* Zheng & Liu, 1993, syn. nov.

Key words. Heteroptera, Miridae, *Zanchius*, Iran, Gilan, Jordan, faunistics, checklist, new records, new synonym

Introduction

This paper is part of a series dealing with the true bug fauna of the Gilan province in northern Iran (LINNAVUORI & HOSSEINI 2000, LINNAVUORI 2006, 2007a,b). It is based on investigations I made together with my wife Sakineh Linnavuori in the province and adjacent areas since 1994.

The Gilan province (Fig. 1) (36°36' – 38°27' N, 48°30' – 50°30' E, total area 14,709 km²) is located on the southern coast of the Caspian Sea and surrounded by the Ardabil, Zanjan, Ghazvin, Tehran, Mazandaran, and Golestan provinces. Some species found in the eastern Khorasan province also have been added. The Gilan province consists of coastal and central plains (-25 m a.s.l. at Astara up to about 1,000 m a.s.l.), which are bordered by the Talesh, Masuleh and Poshtehkuh mountain ranges in the west and the Elburz Mts. in the south (maximum altitude about 3,000 m a.s.l.). The mountain ranges are traversed by the Safid Rud valley in Central Gilan (LINNAVUORI & HOSSEINI 2000).

Owing to the influence of the Caspian Sea and the topography, the climate in Gilan is unique in the Middle East. The annual rainfall is about 1,300 mm in Rasht in the central plain and even surpasses 2,000 mm or more on the sea-facing mountain slopes. The rainfall decreases rapidly on the inland-facing slopes (e.g., the annual rainfall at Rudbar was only 351 mm in 1981), and the climate is semiarid, resembling that of the neighbouring areas of the Zanjan province (LINNAVUORI & HOSSEINI 2000).

Vegetation of Gilan consists of the following five zones:

- 1. The coastal plain.** The sandy shore with halophytes such as *Salsola kali* is bordered with *Alnus glutinosa* zone with dense undergrowth of *Rubus caesius*, *Crataegus* sp. and *Punica granatum*. Other parts of the plain consist of stabilized dunes with planted *Pinus* and *Cupressus* forests and growths of *Centaurea iberica* and *Eryngium coeruleum*, and of coastal meadows and marshes with dense vegetation of *Typha*, *Sparganium*, *Juncus*, *Scirpus*, *Cyperus*, *Carex*, and *Phragmites*, and abundant submerged vegetation such as *Potamogeton* spp.
- 2. The central plain.** The central plain is intensely cultivated with rice, tobacco and tea plantations. The fields are interrupted by gardens and little woods of *Alnus glutinosa*, *Salix* and *Populus* with dense undergrowth of *Rubus caesius*, *Urtica* and *Eupatorium cannabinum*.
- 3. The forest zone.** The sea-facing slopes of the mountains are covered by immense wet subtropical Hyrcanian forests up to the tree line, which varies from 600 m a.s.l. (Deylaman) to 1000 m a.s.l. (Talesh Mts.). Characteristic trees are *Alnus subcordata*, *Carpinus betulus*,

C. orientalis, *Fagus orientalis*, *Quercus castanifolia*, *Ulmus scabra*, *Zelkova carpinifolia*, *Tilia platyphyllos*, *Acer ibericum*, and *A. cappadocicum*.

4. Mountain meadows. Mountain meadows with rich vegetation extend above the tree line, with grasses and herbs such as *Dianthus orientalis*, *D. crinitus*, *Astragalus odoratus*, *A. subsimilis*, *Lotus corniculatus*, *Trifolium pratense*, *T. campestre*, *Vicia villosa*, *Epilobium hirsutum*, *Euphorbia* spp., *Ferula* sp., *Verbascum speciosum*, *Galium odoratum*, *Artemisia herbaalba*, *A. absinthium*, and *Matricaria aurea*. The region is traversed by river valleys with gardens and thickets of *Salix alba*, *Populus nigra* (widespread), *Elaeagnus angustifolia*, *Hippophaes rhamnoides*, *Myricaria germanica* (the Khalkhal area), and *Tamarix* spp. (Ganjeh – Lowshan).

5. Dry hilly steppes. This area extends from Rudbar and Manjil to Gilvan, Sang Rud and Jirandeh. Vegetation, like in the adjacent parts of the Zanjan province, consists of shrubs (*Juniperus polycarpus*, *Pteropyrum aucheri*, *Rosa canina*, *Rhus coriaria*, *Pistacia* sp., and *Rhamnus pallasii*), and grasses and herbs (such as *Astragalus marschallianus*, *Galium gilanicum*, *G. rotundifolium*, *Teucrium polium*, *Verbascum thapsus*, and *Artemisia herbaalba*) (LINNAVUORI & HOSSEINI 2000).

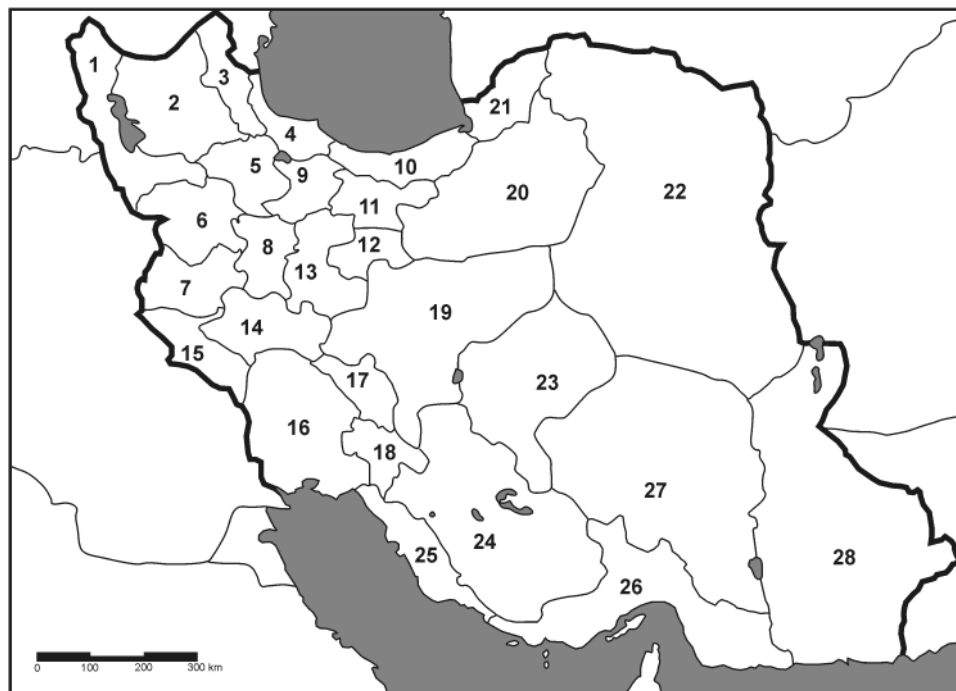


Fig. 1. Provinces of Iran. 1 – West Azerbaijan; 2 – East Azerbaijan; 3 – Ardabil; 4 – Gilan; 5 – Zanjan; 6 – Kurdistan; 7 – Kermanshah; 8 – Hamedan; 9 – Ghazvin; 10 – Mazandaran; 11 – Tehran; 12 – Qom; 13 – Markazi; 14 – Lorestan; 15 – Ilam; 16 – Khuzestan; 17 – Chaharmahal & Bakhtiari; 18 – Kohgiluyeh & 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).

Material and methods

Holotypes of the listed species are deposited in the National Museums and Galleries of Wales (Cardiff, United Kingdom), paratypes and other specimens are deposited in Linnavuori collection (Raisio, Finland) and the College of Agriculture in the Gilan University (Rasht, Iran). If the exact number of the collected specimens is not given, the following approximations are used: several = 5-10, many = 11-20, and numerous = more than 20 specimens. Moreover, photographs of the species described in LINNAVUORI (2006) are reprinted here in colour and better quality. The system and nomenclature follows mainly KERZHNER & JOSIFOV (2001).

Results

LIST OF SPECIES

Subfamily Isometopinae

Isometopus sepehrii Linnavuori, Sarafrazi & Hosseini, 1998

Material examined. GILAN: Lowshan, ♀ (holotype, in the National Museums and Galleries of Wales), 7.vii.1996, R. Hosseini lgt. (in collection of College of Agriculture in the Gilan University); Manjil, 2 specimens (not types), R. Hosseini lgt. (in collection of College of Agriculture in the Gilan University).

Comments. The species was found on *Olea europaea* (R. Hosseini, pers. comm.). Endemic to Iran.

Subfamily Deraeocorinae Tribe Clivinemini

Bothynotus pilosus (Boheman, 1852)

Material examined. GILAN: Manjil, 1 specimen, 16.v.-14.vi.1995; Rustam Abad, 1 specimen, 6.-8.v.2001; Sang Rud, 1 specimen, 19.-20.viii.2003. ARDABIL: Khalkhal – Kivi, 1 specimen, 4.viii.1996. ZANJAN: Jilan Keshe, 1 specimen, 9.-13.x.2000.

Comments. At light in gardens in hills. Trans-Palaeartic, also recorded from Canada.

Tribe Deraeocorini

Deraeocoris (Camptobrochis) punctulatus (Fallén, 1807)

Material examined. Many specimens: GILAN: Dasht-e-Veel, 20.-25.viii.1998; Darreh Dasht, 27.v.-20.vi.1995; Jirandeh, 21.-23.ix.2000; Lowshan, 23.v.1995, 18.-20.viii.2002; Manjil, 8.-10.v.2001; Parudbar, 20.-30.vii.2003, 25.-26.vi.2004; Sang Rud, 30.vi.-1.vii.2000; Tutkaban – Rudbar, 6.-8.vi.2002. ARDABIL: Ganjgah, 9.-10.viii.2002; Khalkhal, 9.-11.viii.1998, 10.-11.viii.2002; Khamas – Kolor, 27.-29.vi.2002; Kivi, 9.-11.viii.2002; 25 km E of Kivi, 7.-9.vii.2002; Majareh, 9.viii.1998; Majareh – Kolor, 21.vii.1996. ZANJAN: Jilan Keshe, 9.-10.x.2000, 26.-27.vi.2004; Mamalan, 12.-14.v.2001, 4.-6.vi.2002; Mamalan – Abbar, 20.-21.vii.2002; Zanjan, 13.-14.vii.2004. TEHRAN: Asara, 13.vii.2002; 10-15 km SE of Firuzkuh, 18.-19.vii.2003; Karadj, 8.-13.vii.2002; Kordan, 14.vii.2002.

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

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

Material examined. Many specimens: GILAN: Anzali, 20.viii.-1.ix.1998; Asalem forest, 2.vii.1996, 13.-15.ix.1998; Darreh Dasht, 27.v.-2.vi.1995; Dasht-e-Veel, 20.-25.viii.1998; Deylaman, 16.-20.vii.1996; Deylaman – Barasar, 23.vii.1996; Ganjeh, 14.v.-13.vi.1995; Lowshan, 23.v.1995; Manjil, 20.-26.ix.1998, 15.-17.ix.2000; Masuleh, 8.-26.vi.2005; Parudbar, 29.-30.vii.2003; Rasht, iv.-v.1995; Rustam Abad – Salan Sar, 13.v.1995, 6.-8.v.2001; Sang Rud – Jirandeh, 31.v.1995, 19.-20.viii.2002; Tutkabon – Rudbar, 29.v.-28.vi.1995, 26.vi.-8.vii.1996. ARDABIL: Gareh Ghaslagh, 27.-28.vii.2004; near Khalkhal, 27.vi.1995, 9.-11.viii.1998. ZANJAN: Abbar, 29.ix.-9.x.2000; Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; Mamalan, 4.-6.vi.2002; Mamalan-Abbar, 20.-21.viii.2002; 25 km E of Zanzan, 13.vii.2004. TEHRAN: Evin, 14.-18.vii.1995; Karadj, 12.-13.vii.2003; Kordan, 14.vii.2002; Shahrestanak, 10.-12.vii.1995. MAZANDARAN: Hassan Abad, 15.-16.vii.2002. GOLESTAN: Talulestan, 15.-16.vii.2003.

Comments. In gardens, steppes and meadows in hills. Holomediterranean.

Deraeocoris (Deraeocoris) rutilus (Herrich-Schaeffer, 1839)

Material examined. GILAN: Deylaman, 1 specimen, 16.-20.vii.1996; Manjil, 3 specimens, 16.v.-14.vi.1995; Rudbar – Tutkabon, 4 specimens, 10.-12.vi.2001, 6.-8.vi.2002; Rustam Abad – Salan Sar, 2 specimens, 6.-8.v.2001; Sang Rud, 1 specimen, 30.vi.-1.vii.2003.

Comments. In hilly steppes. Pontomediterranean. **New for Iran.**

Deraeocoris (Deraeocoris) trifasciatus (Linnaeus, 1767)

Material examined. GILAN: Darreh Dasht, 1 specimen, 27.v.-20.vi.1995; Rustam Abad – Salan Sar, 4 specimens, 6.-8.v.2001.

Comments. On deciduous trees such as *Quercus* and *Crataegus* in hilly areas. Holomediterranean. **New for Iran.**

Deraeocoris (Knightocapsus) lutescens (Schilling, 1837)

Material examined. Many specimens: GILAN: Darreh Dasht, 27.v.-20.vi.1995, 10.vii.1996; Dasht-e-Veel, 20.-25.viii.1998; Gyssom, 11.-18.vi.1995, 30.vi.-2.vii.1996; Jafrud, 31.vii.-1.viii.2002; Jirandeh, 6.-8.vii.1996; Lashte Nesha, 3.xii.2002; Lounak, 20.vii.1996; Nasir Mahaleh, 14.-15.viii.2002; Masuleh, 16.ix.1998, 4.-5.viii.2002; Rasht, iv.-vi.1995, vi.-vii.1996, viii.-ix.1998; Sang Rud, 19.-20.viii.2002. TEHRAN: Evin, 14.-18.vii.1995; Kordan, 14.vii.2002. MAZANDARAN: Chalus, 12.-13.vii.2003; Hassan Abad, 15.-16.vii.2002. GOLESTAN: Gorgan, Mian Dareh, 1.-14.vii.2000; Talulestan, 15.-16.vii.2003.

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

Deraeocoris (Plexaris) pilipes (Reuter, 1879)

Material examined. GILAN: Jirandeh, 1 specimen, 6.-8.vii.1996. ARDABIL: Khalkhal – Kivi, 1 specimen, 4.viii.1996. TEHRAN: Asara, many specimens, 13.vii.2002; Evin, 14.-18.vii.1995; 10-15 km SE of Firuzkuh, 18.-19.vii.2003; Karadj, 12.-13.vii.2002; Kordan, 14.vii.2002; Shahrestanak, 10.-12.vii.1995.

Comments. On *Salix*. Irano-Turanian.

Subfamily Bryocorinae
Tribe Dicyphini

Campyloneuropsis pygmaea (Wagner, 1956)

Material examined. GILAN: Dasht-e-Veel, 1 specimen, 20.-25.vii.1998. ZANJAN: Abbar, 1 specimen, 29.ix.-9.x.2000.

Comments. In gardens, e.g. on *Hyoscyamus*. Eremian, known from Egypt, Israel, Syria, Iraq, Iran, Saudi Arabia, Yemen, and Sudan.

Genus *Dicyphus* Fieber, 1858

The following species found in Iran – *D. (Dicyphus) pallidus* (Herrich-Schaeffer 1836), *D. (D.) deylamanus* Linnavuori & Hosseini, 1999, *D. (D.) eckerleini* Wagner, 1963, *D. (Mesodicyphus) testaceus* Reuter, 1879, *D. (Brachyceroea) orientalis orientalis* Reuter, 1879, and *D. (B.) azadicus* Linnavuori & Hosseini, 1999 – were treated by LINNAVUORI & HOSSEINI (1999).

Dicyphus (Brachyceroea) azadicus Linnavuori & Hosseini, 1999

Material examined. TEHRAN: Azad Bar, ♂ (holotype), 3 ♂♂ (paratypes), 8.-10.vii.1995.

Comments. On *Silene* sp. in a river valley. Endemic to Iran.

Dicyphus (Brachyceroea) orientalis orientalis Reuter, 1879

Material examined. TEHRAN: Azad Bar, 1 specimen, 8.-10.vii.1995; Shahrestanak, 2 specimens, 10.-12.vii.1995.

Comments. On undergrowth in mountain forests. Middle Asia, known from Tajikistan, Uzbekistan, Kazakhstan, and Kyrgyzstan.

Dicyphus (Dicyphus) deylamanus Linnavuori & Hosseini, 1999

Material examined. GILAN: Masuleh, 2 specimens, 4.-5.viii.2002. ARDABIL: Kivi, 1 specimen, 9.-11.viii.2002; Khamas, 1 specimen, 7.-9.vii.2002. ZANJAN: Mamalan – Abbar, 1 specimen, 20.-21.vii.2002. MAZANDARAN: Hassan Abad, 1 specimen, 15.-16.vii.2002.

Comments. On *Stachys*. Endemic to Iran.

Dicyphus (Dicyphus) eckerleini Wagner, 1963

Material examined. TEHRAN: Karadj, 6 specimens, 12.-13.vii.2002.

Comments. On undergrowth in a park. Pontomediterranean.

Dicyphus (Dicyphus) pallidus (Herrich-Schaeffer, 1836)

Material examined. GILAN: Deylaman, 1 specimen, 16.-20.vii.1996.

Comments. On undergrowth in mountain forest. Recorded from several herbs such as *Epilobium*, *Stachys* and *Geranium*. West-Palaeartic, also known from Caucasus.

Macrolophus epilobii V. G. Putshkov, 1978

Material examined. GILAN: Deylaman, several specimens, 20.vii.1996, 16.viii.1998; Parudbar, 1 specimen, 29.-30.vii.2003; Tutkabon – Rudbar, 1 specimen, 29.v.-28.vi.1995.

Comments. On *Epilobium hirsutum*. Known from Armenia, Azerbaijan and the Khorasan province in Iran.

Macrolophus melanotoma (A. Costa, 1853)

Material examined. Several specimens: GILAN: Dasht-e-Veel, 20.-25.viii.1998; Lowshan, 18.-20.viii.2002; Manjil, 30.x.-1.ix.2000; Parudbar, 29.-30.vii.2003, 24.-26.vi.2004; Rustam Abad, 13.v.1995, 23.viii.1998, 6.-8.v.2001;

Tutkabon – Rudbar, 6.-8.vi.2002. ZANJAN: Gilankesh 10 km NW of Gilvan, 26.-27.vi.2004; Mamalan – Abbar, 20.-21.vii.2002. TEHRAN: Karadj, 12.-13.vii.2002.

Comments. On undergrowth in deciduous forests. Holomediterranean.

Macrolophus pygmaeus (Rambur, 1839)

Material examined. Numerous specimens: GILAN: Darreh Dasht, 27.v.-20.vi.1995, 25.-28.viii.1998; Dasht-e-Veel, 25.-26.viii.1998, 8.-9.x.2000, 6.vi.-29.vii.2002; Jirandeh, 21.-23.ix.2000; Manjil, 16.v.-14.vi.1995, 8.-10.v.2001; Parudbar, 29.-30.vii.2000, 25.-26.vi.2004; Rasht, iv.-vi.1995, vi.-viii.1996; Rudbar – Tutkabon, 10.-12.v.2000; Rustam Abad – Salan Sar, 10.ix.2000, 6.-9.v.2001; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: Gareh Ghaslagh, 27.-28.iii.1904; Ganjgeh, 9.-10.viii.2002; near Khalkhal, 9.-11.viii.1998; 25 km E of Kivi, 7.-9.vii.2002. MAZANDARAN: Hasan Abad, 15.-16.vii.2002, TEHRAN: Asara, 13.vii.2002; Evin, 14.-18.vii.1995; Shahrestanak, 10.-12.vii.1995; 5 km N of Karadj, 13.-14.vii.2002; Kordan, 14.vii.2002. ZANJAN: Abbar, 12.-14.v.2001; Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; 8-15 km W of Gilvan, 31.vii.-1.viii.2004; Mamalan, 29.ix.-1.x.2000, 4.-6.vi.2002; Mamalan – Abbar, 20.-21.vii.2002; Zanjan, 13.-14.vii.2004.

Comments. In meadows on herbs such as *Stachys*. West-Palaeartic.

Nesidiocoris tenuis (Reuter, 1898)

Material examined. Several specimens: GILAN: Asalem forest, 13.-15.ix.1997; Anzali, 30.viii.-1.ix.1998; Dasht-e-Veel, 8.-9.ix.2000; Jirandeh, 21.-23.ix.2000; Lowshan, 18.-20.viii.2002; Manjil, 15.-17.ix.2000; Lowshan, 18.-20.viii.2002; Rustam Abad – Salan Sar, 8.-10.ix.2000; Sang Rud, 19.-20.viii.2000. ARDABIL: Kivi, 9.-11.viii.2002. ZANJAN: Jilan Keshe, 9.-13.x.2000; Mamalan – Abbar, 29.ix.-1.x.2000, 20.-21.vii.2002. TEHRAN: Kordan, 14.vii.2002.

Comments. On plants such as Asteraceae, Cucurbitaceae and Solanaceae. Palaeotropical.

Subfamily Mirinae

Tribe Stenodemini

Leptopterna putshkovi Vinokurov, 1982

Material examined. ARDABIL: 20-30 km E of Khalkhal, 1 specimen, 21.vii.1996. TEHRAN: Azad Bar, several specimens, 2410 m a.s.l., 8.-10.vii.1996; Kandovan, several specimens, 2550 m a.s.l., 3.-4.vii.1996.

Comments. On grasses in mountain meadows. Also known from Armenia and Azerbaijan.
New for Iran.

Megaloceroea recticornis (Geoffroy, 1785)

Material examined. GILAN: Masal forest, 5 specimens, 28.vi.1996.

Comments. On undergrowth in deciduous forests. Holarctic.

Notostira elongata (Geoffroy, 1785)

Material examined. Several specimens: ARDABIL: Firuzabad, 9.viii.2002; near Khalkhal, 9.-11.viii.1998, 8.-9.vii.2002, 29.vii.2004; Kivi, 9.-11.viii.2002, 28.-29.vii.2004. TEHRAN: Kordan, 14.vii.2002.

Comments. In meadows in hills. Holopalaeartic.

Notostira poppiusi Reuter, 1911

Material examined. ARDABIL: Majareh – Kolor, 1 specimen, 15.ix.1998. ZANJAN: 20-35 km E of Zanjan, 1 specimen, 13.vii.2004. TEHRAN: Kandovan, 2500 m a.s.l., 4 specimens, 3.-4.vii.1995.

Comments. In hilly meadows. Irano-Turanian.

Stenodema (Brachystira) calcarata (Fallén, 1807)

Material examined. Several specimens: GILAN: Damashk – Bareh Sar, 27.vii.2002; Deylaman, 16.-20.vii.1996; Gys-som, 30.vi.-2.vii.1996; Manjil, 15.v.-14.vi.1995; Masuleh, 6.-26.vi.1995, 2.-28.vii.1996; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: 20-35 km E of Khalkhal, 1.-21.vii.1996, 27.vi.2002; Khalkhal – Kivi, 22.vii.-4.viii.1996, 28.-29.vii.2004; Majareh – Kolor, 2.vii.1996. ZANJAN: 20-35 km E of Zanjan, 13.vii.2004. TEHRAN: Azad Bar, 8.-10.vii.1995; Asara, 13.vii.2002; 10-15 km SE of Firuzkuh, 18.-19.vii.2003; Gachsar, 15.vii.2002; Kandovan, 3.-4.vii.1995.

Comments. On grasses in meadows. Holopalaeartic.

Stenodema (Stenodema) laevigata (Linnaeus, 1758)

Material examined. Several specimens: GILAN: 40-50 km E of Khalkhal, 1.-21.vii.1996; Lounak, 30.v.-24.vi.1995, 20.vii.1996; Masuleh, 6.-26.vi.1995, 28.vii.1996, 4.-5.viii.2002. ARDABIL: 20-30 km E of Khalkhal, 1.-21.vii.1996; Khalkhal – Kivi, 22.vii.-4.viii.1006; Kivi, 9.-11.viii.2002; Majareh – Khalkhal, 22.vii.1996.

Comments. On grasses in meadows. Holopalaeartic.

Stenodema (Stenodema) turanica Reuter, 1904

Material examined. Numerous specimens: GILAN: Damashk – Bareh Sar, 27.vii.2002; Darreh Dasht, 26.-27.vii.2002; Deylaman, 9.v.-24.vi.1995; Lowshan, 18.-20.viii.2002; Manjil, 20.-26.ix.2002; Masuleh, 6.-26.vi.1995, 4.-5.viii.2002; Nasir Mahaleh, 14.-15.viii.2002; Parudbar, 29.-30.vi.2003. ARDABIL: Ganjeh, 9.-10.viii.2002; Gareh Ghaslagh, 27.-28.vii.2004; Khalkhal, 30.vii.1995, 10.-11.viii.2002, 29.vii.2004; 20-30 km E of Khalkhal, 1.-21.vii.1996, Khalkhal – Kivi, 22.vii.-4.viii.1996, 8.-9.viii.2002; Kivi, 8.vii.-11.viii.2002; Khemes, 7.-9.vii.2002; Majareh – Kolor, 21.vii.1996, 15.ix.1998; Maregheh, 20.-21.vii.2004. ZANJAN: Abbar, 28.ix.-9.x.2000; 9-15 km W of Gilvan, 31.vii.-1.viii.2004; Mamalan – Abbar, 20.-21.vii.2002; Zanjan, 13.-14.vii.2004. TEHRAN: Asara, 13.vii.2002; Azad Bar, 8.-10.vii.1995; 10-15 km SE of Firuzkuh, 18.-19.vii.2003, 2.vii.2004; Shahrestanak, 10.-12.vii.1995.

Comments. On grasses in meadows. Irano-Turanian.

Trigonotylus caelestialium (Kirkaldy, 1902)

Material examined. Numerous specimens: GILAN: Asalem, 2.vii.1996, 5.-7.vii.2003; Gyssom, 30.vi.-2.vii.1996; Masuleh, 6.-26.v.1996; Parudbar, 29.-30.vii.2003, 25.-26.vi.2004; Rasht, vi.-vii.1996; Rustam Abad – Salan Sar, 9.-10.viii.2000; Sang Rud, 30.vi.-1.vii.2003; Tutkabon – Rudbar, 22.v.-26.vi.1995. ARDABIL: Gareh Ghaslagh, 27.-28.vii.2004. ZANJAN: Jilan Keshe, 9.-13.x.2000; Zanjan, 13.-14.vii.2004. MAZANDARAN: Chalus, 12.-13.vii.2003; Hassan Abad, 15.-16.vii.2002. GOLESTAN: Gorgan Mian Dareh, 13.-14.vii.2003; Talulestan, 15.-16.vii.2003.

Comments. On grasses in meadows. Palaearctic.

Trigonotylus pulchellus (Hahn, 1834)

Material examined. Several specimens: GILAN: Asalem, 2.vii.1996; Ganjeh, 14.v.-13.vi.1995; Parudbar, 25.-26.vi.2004; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: Firuzabad, 9.viii.2002, 28.vii.2004; Kivi, 9.-11.viii.2002. ZANJAN: Mamalan – Abbar, 20.-21.vii.2002; Zanjan, 13.-14.vii.2004; MAZANDARAN: Chalus, 12.-13.vii.2003. GOLESTAN: Inche Borun, Alagol, 4.-5.vii.2004; Talulestan, 15.-16.vii.2003.

Comments. On grasses in meadows. West-Palaearctic.

Trigonotylus tenuis Reuter, 1893

Material examined. Numerous specimens: GILAN: Anzali, 30.viii.-1.ix.1998; Dasht-e-Veel, 20.-25.viii.1998; Jafrud, 31.vii.-1.viii.2002; Keshfi Lemir 25 km S of Astara, 8.-9.vii.2003; Rasht, vi.-vii.1996, vi.-viii.1998; Sume'eh Sara, 4.-5.viii.1994. ARDABIL: Kivi, 5.vii.2002. ZANJAN: Abbar, 12.-14.v.2001. MAZANDARAN: Chalus, 12.-13.vii.2003;

Hassan Abad, 15.-16.vii.2002. GOLESTAN: Alagol, 12.-13.vii.2003; Gonbad Bakhst-e-Haft, 14.-15.vii.2003; Inche Borun, Alagol, 4.-5.vii.2004.

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

Tribe Mirini

Adelphocoris lineolatus (Goeze, 1778)

Material examined. Many specimens: GILAN: Deylaman, 23.vii.1996; Deylaman – Barasar, 23.vii.1996; Jirandeh, 6.-8.vii.1996; Keshfi Lemir 25 km S of Astara, 8.-9.vii.2003; Manjil, 16.v.-14.vi.1995, 8.-10.v.2001; Masuleh, 6.-26.vii.1995, 26.vii.1996, 4.-5.viii.2002; Parudbar, 25.-26.vi.2004; Rustam Abad, 13.v.1995; Rustam Abad – Salan Sar, 24.vii.1996; Tutkabon – Rudbar, 29.vi.-8.vii.1996, 29.v.-28.vi.1996. ARDABIL: Ganjgah, 9.-10.viii.2002; Gareh Ghaslagh, 27.-28.vii.2004; near Khalkhal, 9.-11.viii.1998, 8.vii.-11.viii.2002; Khalkhal – Kivi, 22.vii.-4.viii.1996, 8.vii.-11.viii.2002, 28.-29.vii.2004; Khemes – Kolor, 27.-29.vi.2002; Majareh, 21.-22.vii.1996, 9.viii.1998; Majareh – Kolor, 21.vii.1996, 15.ix.1998; Ziba Kenar, 7.-10.vi.1995. ZANJAN: Abbar, 29.ix.-9.x.2000; Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; Mamalan, 13.-14.v.2001; Mamalan – Abbar, 20.-21.vii.2002; Zanzan, 13.-14.vii.2004. TEHRAN: Azad Bar, 8.-10.vii.1995; near Firuzkuh, 19.vii.2003, 2.vii.2004; Kandovan, 3.-4.vii.1995; Shahrestanak, 10.-12.vii.1995. MAZANDARAN: Chalus, 12.-13.vii.2003; Hassan Abad, 15.-16.vii.2002. GOLESTAN: Alagol, 12.-13.vii.2003; Baksht-e-Haft, 14.-15.vii.2003.

Comments. On undergrowth in hilly forests and gardens. Holopalaearctic.

Adelphocoris seticornis (Fabricius, 1775)

Material examined. ARDABIL: Khalkhal – Kivi, 1 specimen, 22.vii.-4.viii.1996; Kivi, 1 specimen, 9.-11.viii.2002; Majareh – Kolor, 2 specimens, 21.vii.1996. TEHRAN: Azad Bar, many specimens, 8.-10.vii.1995.

Comments. On Fabaceae such as *Medicago* and *Vicia*. Palaearctic.

Adelphocoris ticinensis (Meyer-Dür, 1843)

Material examined. Many specimens: GILAN: Asalem forest, 13.-15.ix.1998, 5.-7.vii.2002; Gyssom, 11.-18.vi.1995; Jaffrud, 31.vii.-1.viii.2002; Lashte Nesha, 31.vii.2002; Masuleh, 9.vii.1996; Sang Rud, 30.vi.-1.vii.2002; Tutkabon – Rudbar, 2.viii.1998; Ziba Kenar, 7.-10.vi.1995. MAZANDARAN: Hassan Abad, 15.-16.vii.2002.

Comments. On undergrowth in hilly forests. West-Palaearctic.

Adelphocoris vandalicus (Rossi, 1790)

Material examined. Numerous specimens: GILAN: Jirandeh, 26.-27.vii.2002; Manjil, 20.-26.ix.1998, 15.-17.ix.2000; Parudbar, 29.-30.vii.2003, 25.-26.vi.2004; Rustam Abad – Salan Sar, 8.-9.x.2000; Sang Rud, 30.vi.-1.vii.2000, 19.-20.viii.2002. ARDABIL: Firuzabad, 9.viii.2002, 28.vii.2004; near Kivi, 8.vii.-11.viii.2002, 28.-29.vii.2004. ZANJAN: Abbar, 24.ix.-9.x.2000, 12.-14.v.2001; near Gilvan, 20.-21.vii.2002, 26.vi.-1.viii.2004; Mamalan, 29.ix.-1.x.2000, 4.-5.vi.2002.

Comments. On plants such as *Centaurea*, *Echinops*, *Verbascum* and *Tanacetum*. Holomediterranean. **New for Iran.**

Agnocoris reclairei (Wagner, 1949)

Material examined. GILAN: Deylaman, 4 specimens, 16.-20.vii.1996. ARDABIL: Khalkhal, 1 specimen, 30.vii.1996; Majareh – Kolor, 6 specimens, 21.vii.1996. TEHRAN: Shahrestanak, many specimens, 10.-12.vii.1995.

Comments. On *Salix*. Holomediterranean, extending to Turkey, Azerbaijan, Iran, and Iraq.

***Brachycoleus caucasicus* (Poppius, 1912)**

Material examined. TEHRAN: Kandovan, several specimens, 3.-4.vii.1995.

Comments. On gently sloping hillsides with plants such as Asteraceae, *Astragalus*, *Phlomis*, *Thymus* and *Verbascum*. Known from Azerbaijan. **New for Iran.**

***Brachycoleus lineellus* (Jakovlev, 1884)**

Material examined. GILAN: Sang Rud – Jirandeh, 1 specimen, 31.v.1995. ZANJAN: 20-35 km E of Zanjan, 1 specimen, 13.vii.2004. TEHRAN: Azad Bar, 1 specimen, 8.-10.vii.1995.

Comments. In hilly steppes. Anatolian, known from Turkey, Caucasus, Syria, Iraq, and Iran.

***Brachycoleus steini* Reuter, 1877**

Material examined. TEHRAN: Azad Bar, several specimens, 8.-10.vii.1995; Kandovan, 3.-4.vii.1995.

Comments. On *Centaurea* sp. in hilly steppes. Pontomediterranean.

***Charagochilus gyllenhali* (Fabricius, 1807)**

Material examined. Several specimens: GILAN: Darreh Dasht, 27.v.-20.vi.1995; Deylaman, 9.v.-24.vi.1995; Lowshan, 18.-20.viii.2002; near Mahaleh, 14.-15.viii.2002; Manjil, 9.-10.v.2001; Parudbar, 29.-30.vii.2003; Sang Rud, 30.vi.-1.vii.2003; Sang Rud – Jirandeh, 31.v.1995. ARDABIL: Khemes, 7.-9.vii.2002; Majareh – Kolor, 21.vii.1996. ZANJAN: Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; Mamalan, 4.-6.vi.2002; Pircham, 7.-9.x.2000; 20-35 km E of Zanjan, 13.vii.2004. TEHRAN: Asara, 13.vii.2002; near Firuzkuh, 2.vii.2002, 18.-19.vii.2004.

Comments. On *Galium*. Holopalaearctic.

***Charagochilus weberi* Wagner, 1953**

Material examined. ARDABIL: Gareh Ghashlagh, 3 specimens, 23.-26.vii.2004.

Comments. On *Galium*. Known from Central and South Europe, Turkey, Azerbaijan, and the Golestan province in Iran.

***Closterotomus costae* (Reuter, 1888)**

Material examined. Many specimens: GILAN: 10 km W of Asalem, 5.-7.vii.2002; Darreh Dasht, 27.v.-20.vi.1996; Deylaman, 16.-20.vii.1996; Fowman, 6.v.1995; Langarud, 9.v.1995; Lounak, 20.vii.1996; Manjil, 8.-10.v.2001; Masuleh, 6.-26.vi.1995, 9.-28.vii.1996; Rudbar – Tutkabon, 10.-12.v.2001; Rustam Abad – Salan Sar, 6.-8.v.2001.

Comments. On *Heteropappus altaicus* and *Achillea* spp. in deciduous forests. Known from Caucasus, Crimea and Iran.

***Closterotomus rosenzweigi* Linnavuori, 2006**

(Fig. 2)

Material examined. GILAN: Manjil, ♂ (holotype) and 3 paratypes, 8.-10.v.2001.

Comments. On undergrowth in hilly gardens. Endemic to Iran.

***Creontiades pallidus* (Rambur, 1839)**

Material examined. ZANJAN: Abbar, 3 specimens, 9.x.2000. TEHRAN: Kordan, 1 specimen, 14.vii.2002. GOLESTAN: Gonbad Baksh-e-Haft, 1 specimen, 14.-15.vii.2003.

Comments. In fields and steppes; pest of cotton. Holomediterranean, widely distributed in the Middle East and the Ethiopian Region.

***Dichroscythus persicus* Josifov, 1974**

Material examined. Many specimens: GILAN: Manjil, 16.v.-14.vi.1995, 8.-10.v.2001; Parudbar, 25.-26.vi.2004; Sang Rud, 31.v.1995, 4.viii.1998, 19.-20.viii.2002, 30.vi.-1.vii.2003. ZANJAN: Mamalan, 12.-14.v.2000. FARs: 15 km N of Shiraz, 1 specimen, 14.vi.2002.

Comments. On *Juniperus sabina* on hillsides. Irano-Turanian.

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

Material examined. GILAN: Anzali, 1 specimen, 30.viii.-1.ix.1998; 10 km W of Asalem, 1 specimen, 5.-7.vii.2002; Dasht-e-Veel, 2 specimens, 20.-25.viii.1998; Sang Rud, 6 specimens, 19.-20.viii.2002. ZANJAN: Abbar, 1 specimen, 29.ix.-9.x.2000; Jilan Keshe, 2 specimens, 9.-13.x.2000; Kalvim, 2 specimens, 1.x.2000; Mamalan, 1 specimen, 29.ix.-1.x.2000.

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

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

Material examined. Many specimens: GILAN: Asalem forest, 13.ix.1998; Darreh Dasht, 26.-27.vii.2002; Deylaman, 16.-17.vi.1996, 16.viii.1998; Masuleh, 6.-26.vi.1995; Nasir Mahaleh, 14.-15.viii.2002; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: near Khalkhal, 9.-11.ix.1998; Majareh – Kolor, 21.vii.1996. TEHRAN: Asara, 13.vii.2002; Gachsar, 15.vii.2002. MAZANDARAN: Hassan Abad, 15.-16.vii.2002.

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

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

Material examined. Numerous specimens: GILAN: Asalem forest, 13.ix.1998; Darreh Dasht, 27.v.-20.vi.1995, 18.-19.vii.1998, 26.-27.vi.2002; Dasht-e-Veel, 20.-25.viii.1998, 8.-10.ix.2000, 6.-8.vi.2002; Deylaman, 9.v.-24.vi.1995, 16.-20.vii.1996, 16.viii.1998; Deylaman – Barasar, 23.vii.1996; Manjil, 26.vi.1996, 20.-26.ix.1998; Masuleh, 6.-26.vi.1995; Rudbar – Tutkabon, 7.x.2000; Rustam Abad, 23.viii.1998; Rustam Abad – Salan Sar, 24.vii.1996; Sang Rud, 30.vi.-1.vii.2003; Tutkabon – Rudbar, 26.v.-8.vii.1996, 7.x.2000. ARDABIL: Gareh Ghaslegh, 27.-28.vii.2004; Khalkhal, 30.vii.1996; 20-30 km E of Khalkhal, 1.-21.vii.1996. ZANJAN: Abbar, 22.ix.-9.x.2000; Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; Mamalan, 4.-6.vi.2002; Mamalan – Abbar, 20.-21.vii.2002; Zanjan, 13.-14.vii.2004. TEHRAN: near Firuzkuch, 18.-19.vii.2003, 2.vii.2004; Kandovan, 3.-4.vii.1995. MAZANDARAN: Chalus, 16.-17.vii.2002. GOLESTAN: Alagol, 12.-13.vii.2003; Gilankesh, 5.vi.2004; Gonbad Bakhst-e-Haft, 14.-18.vii.2003; Gorgan Mian Dareh, 13.-14.vii.2003; Talulestan, 15.-16.vii.2003.

Comments. On *Artemisia* spp. in steppes and hilly meadows. Holopalaeartic.

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

Material examined. Numerous specimens: GILAN: Dasht-e-Veel, 8.-10.ix.2000; Gyssom, 17.-18.vi.1995; Jirandeh, 26.-27.vii.2002; Manjil, 15.-17.ix.2000, 8.-10.v.2001; Masuleh, 4.-5.viii.2002; Parudbar, 20.-30.vii.2003, 25.-26.vi.2004; Rustam Abad – Salan Sar, 6.-8.v.2001; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: Ganjgah, 9.-10.viii.2002;

Gareh Ghaslagh, 27.-28.vii.2004; near Khalkhal, 1.-26.vii.1996, 9.-11.viii.1998; Khalkhal – Kivi, 4.viii.1998; near Kivi, 8.vii.-11.viii.2002, 28.-29.vii.2004; Majareh – Kolor, 15.ix.1998. ZANJAN: Abbar, 29.ix.-9.x.2000, 12.-14.vi.2001; Gilankesh 15 km NW of Gilvan, 9.-12.x.2000; 26.-27.vi.2004; Mamalan, 12.-14.v.2001, 29.ix.-1.x.2001, 4.-6.vi.2002; Mamalan – Abbar, 20.-21.vii.2002; Pircham, 7.-9.x.2000. TEHRAN: near Firuzkuh, 18.-19.vi.2001, 18.-19.vii.2003, 2.vii.2004; Karadj, 12.-13.vii.2002; Kordan, 14.vii.2002. MAZANDARAN: 6.-7.vii.1995, 15.-16.vii.2002. GOLESTAN: Gorgan Mian Dareh, 13.-14.vii.2003.

Comments. On undergrowth in deciduous forests. Holopalaeartic.

Lygus rugulipennis Poppius, 1911

Material examined. Many specimens: ARDABIL: Ganjgah, 9.-10.viii.2002; Gareh Ghaslagh, 27.-28.vii.2004; near Khalkhal, 30.vii.1996, 9.-11.viii.1998, 8.-9.vii.2002, 20.vii.2004; Khalkhal – Kivi, 4.vii.1996; Kivi, 8.vii.2002, 26.-27.vii.2004; Majareh, 21.-22.vii.1996; Majareh – Khalkhal, 22.vii.1996; Majareh – Kolor, 15.ix.1998. ZANJAN: Zanzan, 13.-14.vii.2004. TEHRAN: Azad Bar, 8.-10.vii.1995; 10-25 km SE of Firuzkuh, 19.vii.2003, 2.vii.2004. GOLESTAN: Gorgan Mian Dareh, 1.-14.vii.2003.

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

Megacoelum brevirostre Reuter, 1879

Material examined. Many specimens: GILAN: Parudbar, 20.-30.vii.2003, 25.-26.vi.2004. ZANJAN: Abbar, 7.-9.x.2000; Mamalan, 20.ix.-1.x.2000.

Comments. At light in olive and *Punica* gardens. Irano-Turanian, extending from Cyprus to Turkmenistan.

Megacoelum infusum (Herrich-Schaeffer, 1839)

Material examined. GILAN: Masuleh, 2 specimens, 6.-26.vi.1995.

Comments. On deciduous trees such as *Quercus* and *Alnus*. West-Palaeartic. **New for Iran.**

Megacoelum pistaciae V. G. Putshkov, 1976

Material examined. GILAN: Sang Rud – Jirandeh, 1 ♂, 25.vi.1996.

Comments. Recorded from *Pistacia vera*. Previously known only from Kyrgyzstan. **New for Iran.**

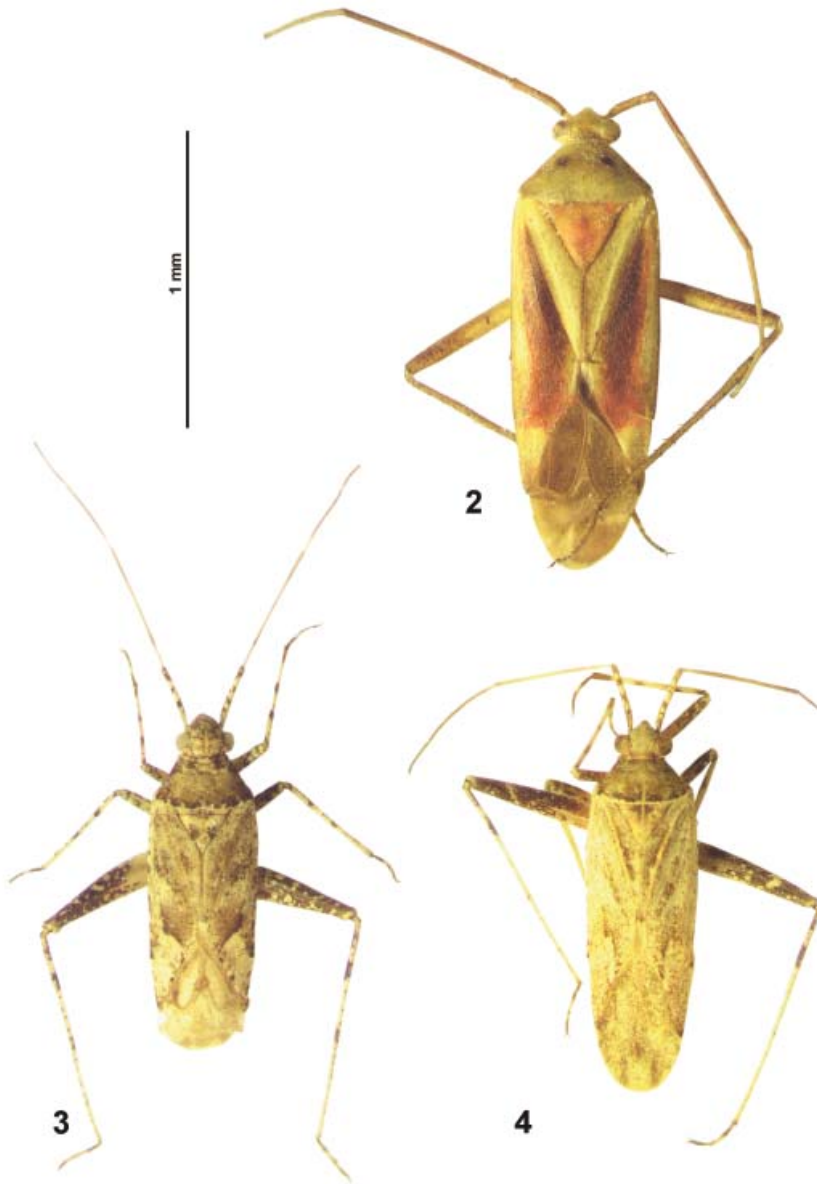
Mermitelocerus schmidti (Fieber, 1836)

Material examined. Several specimens: GILAN: Darreh Dasht, 27.v.-20.vi.1995; Dasht-e-Veel, 27.v.-20.vi.1995; Deylaman, 9.v.-24.vi.1995; Fowman, 6.v.1995; Langarud, 2.v.1995; Masuleh, 6.-26.vi.1995, 3.vii.1996; Masuleh, 6.-26.vi.1995, 3.vii.1996; Rustam Abad – Salan Sar, 6.-8.v.2001; Shaft, 7.v.1995; Ziba Kenar, 7.-10.vi.1995.

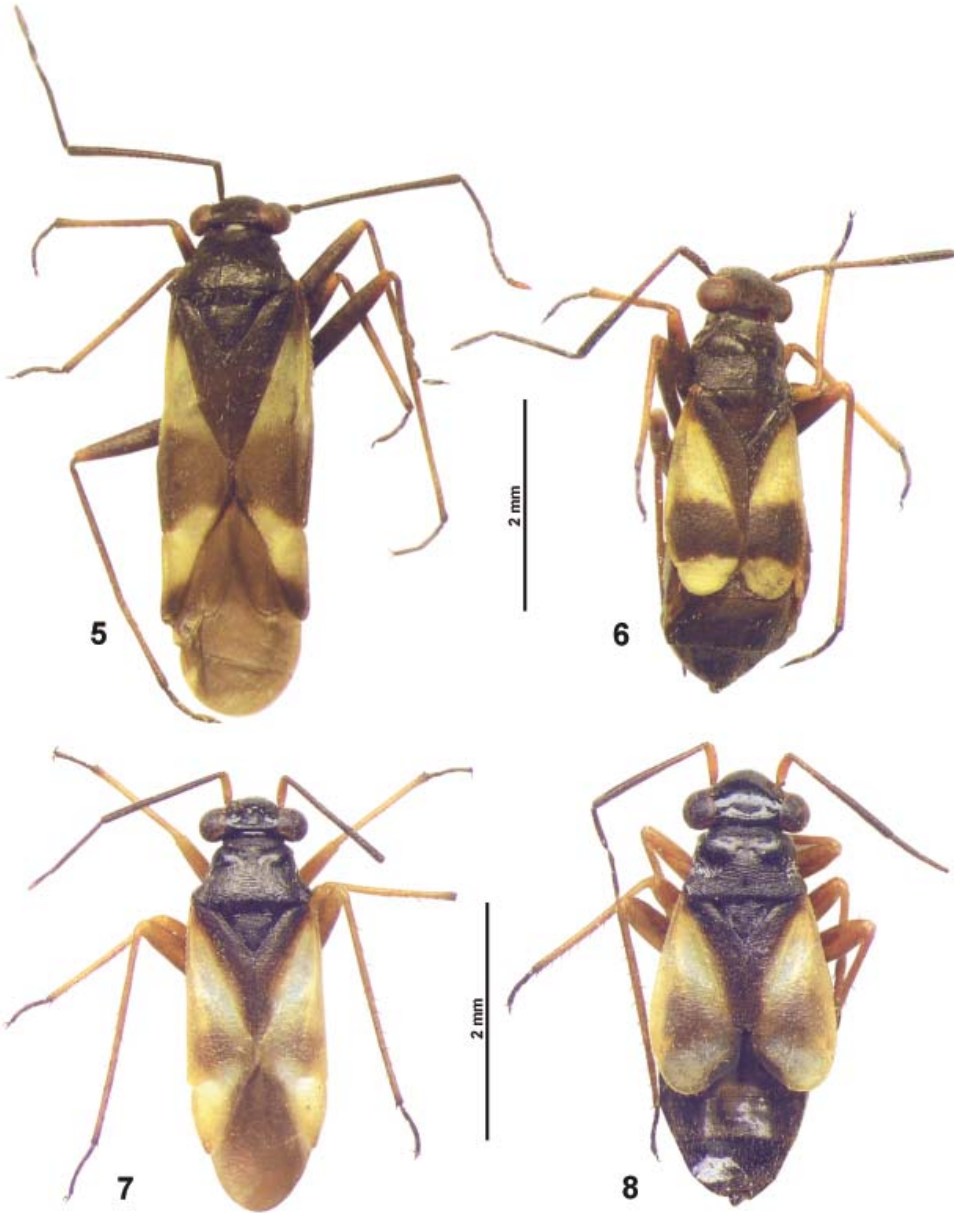
Comments. On *Salix*. Holomediterranean, extending to Turkmenistan.

Orthops (Montanorthops) pilosulus (Jakovlev, 1877)

Material examined. Several specimens: GILAN: Manjil, 8.-10.v.2000; Sang Rud, 21.ix.2000. ZANJAN: Abbar, 28.ix.-9.x.2000; Gilan Keshe, 9.-13.x.2000. TEHRAN: Evin near Tehran, 14.-16.vii.1995; 25 km NE of Firuzkuh, 9.vii.2003. SEMNAN: 20 km SW of Biyarjomand, 13.-14.v.1996.



Figs. 2-4. 2 – *Closterotomus rosenzweigi* Linnavuori, 2006 (male, Iran: Gilan); 3 – *Phytocoris (Compsocerochoris) mirzanus* Linnavuori, 2006 (male, Iran: Khorasan); 4 – *Ph. (C.) sahragardi* Linnavuori, 2006 (male, Iran: Gilan) (after LINNAVUORI 2006).



Figs. 5-8. 5-6 – *Globiceps (Kelidocoris) monticolus* Linnavuori, 2006 (Iran: Gilan): 5 – male; 6 – female. 7-8 – *G. (K.) tragacanthae* V. G. Putshkov, 1978 (Azerbaijan: Nakhichevan): 7 – male; 8 – female (after LINNAVUORI 2006).

Comments. On *Pteropyrum aucheri* in hilly steppes. Irano-Turanian.

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

Material examined. Several specimens: GILAN: Deylaman, 16.-20.vii.1996; Deylaman – Barasar, 23.vii.1996; Ganjeh, 14.v.-13.vi.1995; Jirandeh, 6.-8.vii.1996; Masuleh, 6.-26.vi.1995, 3.-8.vii.1996. ARDABIL: Khalkhal, 30.vii.1996; Khalkhal – Kivi, 4.viii.1996; Majareh – Kolur, 21.vii.1996. ZANJAN: Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004.

Comments. On undergrowth in deciduous forests. Holomediterranean with a wide range in Europe. **New for Iran.**

***Orthops (Orthops) campestris* (Linnaeus, 1758)**

Material examined. GILAN: Masuleh, 1 specimen, 28.vii.1996. ARDABIL: Khalkhal, 1 specimen, 30.vii.1996; 20-30 km E of Khalkhal, 1 specimen, 1.-12.vii.1996. TEHRAN: Azad Bar, 2410 m a.s.l., 5 specimens, 8.-10.vii.1995. MAZANDARAN: Hassan Abad, 1 specimen, 6.-7.vii.1995.

Comments. On undergrowth in deciduous forests. West-Palaeartic.

***Orthops (Orthops) frenatus* (Horváth, 1894)**

Material examined. GILAN: Deylaman, 2 specimens, 16.-20.vii.1996, 18.-20.vii.1998; Deylaman – Barazar, 1 specimen, 23.vii.1996; Jirandeh, 1 specimen, 6.-8.vii.1996. ARDABIL: Khalkhal, 5 specimens, 30.vii.1996, 20.vii.1998; 20-30 km E of Khalkhal, 3 specimens, 1.-21.vii.1996; Majareh – Khalkhal, 1 specimen, 28.vii.1996. TEHRAN: Azad Bar, 1 specimen, 8.-10.vii.1995; Karadj, 2 specimens, 12.-13.vii.2002.

Comments. In mountain meadows. Irano-Turanian, recorded from Armenia, Iran, Afghanistan, and Middle Asia.

***Orthops (Orthops) kalmii* (Linnaeus, 1758)**

Material examined. Numerous specimens: GILAN: Darreh Dasht, 18.-21.viii.1998; Dasht-e-Veel, 20.viii.-11.ix.1998, 8.-10.ix.2000, 27.-29.vii.2002; Ganjeh, 14.v.-13.vi.1995; Lowshan, 18.-20.viii.2002; Manjil, 15.-17.ix.2000; Nasir Masaleh, 14.-15.viii.2002; Sang Rud, 19.-20.viii.2002. ARDABIL: 20-30 km E of Khalkhal, 1.-21.vii.1996; Kivi, 9.-11.viii.2002. ZANJAN: Abbar, 29.viii.-9.x.2000. MAZANDARAN: Qaeshm Shahr, 1.-2.vii.2004. GOLESTAN: Gilankesh, 5.-6.vii.2004; Gorgan Mian Dareh, 13.-14.vii.2003; Talulestan, 15.-16.vii.2004.

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

***Phytocoris* Fallén, 1814**

The following species known from northern Iran – *Ph. (Phytocoris) nitidicollis* Reuter, 1908, *Ph. (Exophytocoris) scitulus scitulus* Reuter, 1908, *Ph. (Compsocerochoris) dashtanus* Linnavuori & Hosseini, 1998, *Ph. (C.) dentistylus* Linnavuori, 1999, *Ph. (Ktenocoris) varipes* Boheman, 1852, *Ph. (K.) insignis* Reuter, 1876, *Ph. (Eckerleinius) elburzanus* Linnavuori, 2000, *Ph. (E.) kandovanus* Linnavuori & Hosseini, 1998, *Ph. (E.) eileithyia* Linnavuori, 1971, and *Ph. (E.) khalkhalicus* Linnavuori & Hosseini, 1998 – were treated by LINNAVUORI (1999, 2000a,b).

***Phytocoris (Compsocerocoris) dashtanus* Linnavuori & Hosseini, 1998**

Material examined. GOLESTAN: Golestan N.P., Tangegol, 2 specimens, 18.-22.v.2001, E. Heiss lgt.

Comments. Endemic to Iran.

***Phytocoris (Compsocerocoris) dentistylus* Linnavuori, 1999**

Material examined. ZANJAN: Jilan Keshe, 1 ♂, 9.-13.x.2000.

Comments. At light in olive garden. Endemic to Iran.

***Phytocoris (Compsocerocoris) sahragardi* Linnavuori, 2006**

(Fig. 4)

Material examined. GILAN: Manjil, ♂ (holotype), 22 paratypes, 8.-10.v.2001; Sang Rud, 1 ♂ (paratype), 30.vi.-1.vii.2003. ZANJAN: Abbar, 1 ♂ (paratype), 12.-14.v.2001; Mamalan, 1 ♂ (paratype), 12.-14.v.2001.

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

Note. The habitus of the holotype of the related *Ph. (C.) mirzanus* Linnavuori, 2006, is reprinted in Fig. 3.

***Phytocoris (Eckerleinius) eileithyia* Linnavuori, 1971**

Material examined. GILAN: Jirandeh, 1 specimen, 21.-23.ix.2000.

Comments. On herbs in mountain steppes. Known from Armenia and Iran.

***Phytocoris (Exophytocoris) scitulus scitulus* Reuter, 1908**

Material examined. Numerous specimens: GILAN: Damashk – Bareh Sar, 27.vii.2002; Darreh Dasht, 12.viii.1998; Dasht-e-Veel, 27.-29.vii.2002; Lowshan, 30.vii.2003; Masuleh, 4.-6.vi.2002; Salan Sar, 23.viii.1998; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: 5-20 km E of Kivi, 8.-9.viii.2003; Majareh, 9.viii.1998. ZANJAN: Abbar, 29.ix.-9.x.2000; Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; Mamalan, 4.-6.vi.2002. TEHRAN: Karadj, 12.-13.vii.2002; Kordan, 14.vii.2002. MAZANDARAN: Chalus, 12.-13.vii.2000; Hassan Abad, 15.-16.vii.2002. GOLESTAN: Talulestan, 15.-16.vii.2003.

Comments. On conifers (*Cupressus* spp., *Juniperus polycarpus*), also found on *Olea europaea*. Pontomediterranean.

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

Material examined. ARDABIL: 25 km E of Kivi, 1 specimen, 7.-9.vii.2003. TEHRAN: Kordan, 1 specimen, 14.vii.2002.

Comments. On undergrowth in mountain forests. Palaearctic, extending to Central Asia.

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

Material examined. ARDABIL: 25 km E of Kivi, 1 specimen, 7.-9.vii.2002.

Comments. On deciduous trees such as *Ulmus*. Western-Palaearctic. **New for Iran.**

***Phytocoris (Ktenocoris) varipes* Boheman, 1852**

Material examined. Several specimens: GILAN: Asara, 8.-9.vii.2003; Dasht-e-Veel, 27.-29.vii.2002; Lowshan, 18.-20.viii.2002; Masuleh, 4.-5.viii.2002; Namak Avaran near Lowshan, 13.-15.x.2000; Nasir Mahaleh, 14.-15.viii.2002; Tutkabon – Rudbar, 5.-7.iii.2002. ZANJAN: Abbar, 29.ix.-9.x.2000; Gilvan, 11.-13.x.2000; Jilan Keshe, 9.-13.x.2000. MAZANDARAN: Chalus, 12.-13.vii.2002; Hassan Abad, 15.-16.vii.2002.

Comments. On undergrowth in mountain forests. West-Palaeartic.

***Phytocoris (Phytocoris) nitidicollis* Reuter, 1908**

Material examined. Several specimens: GILAN: Darreh Dasht, 22.viii.1998; Dasht-e-Veel, 6.-8.vi.2002; Nasir Mahaleh, 14.-15.viii.2002; Rudbar – Tutkabon, 10.-12.v.2001. ARDABIL: 25 km E of Kivi, 7.-9.vii.2002.

Comments. On deciduous trees such as *Crataegus* spp., *Fagus orientalis*, *Quercus castaneifolia* and *Zelkova carpinifolia*. Also known from Caucasus.

***Pinalitus cervinus* (Herrich-Schaeffer, 1841)**

Material examined. Many specimens: GILAN: Darreh Dasht, 27.v.-28.vi.1995, 20.-25.viii.1998; Dasht-e-Veel, 20.-25.viii.1998; 40-50 km E of Khalkhal, 21.vii.1996; Manjil, 16.v.-14.vi.1995, 30.x.-1.xi.2000; Nasir Mahaleh, 14.-15.viii.2002; Rasht, vi.-viii.1996; Salan Sar, 23.viii.1998; Sang Rud, 19.-20.viii.2002; Sang Rud – Jirandeh, 31.v.1995; Tutkabon – Rudbar, 6.-8.vi.2002. ARDABIL: 20-30 km E of Khalkhal, 21.vii.1996; Majareh – Khalkhal, 21.vii.1996.

Comments. On deciduous trees. West-Palaeartic. **New for Iran.**

***Polymerus (Poeciloscytus) brevicornis* (Reuter, 1879)**

Material examined. Several specimens: GILAN: Parudbar, 25.-26.vi.2004; Rustam Abad – Salan Sar, 6.-8.v.2001. ZANJAN: Abbar, 28.ix.-9.x.2000; Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; Mamalan – Abbar, 29.ix.-1.x.2000, 20.-21.vii.2002; Pircham, 7.-9.x.2000. TEHRAN: 10-15 km SE of Firuzkuh, 18.-19.vii.2003.

Comments. On *Galium* spp. in meadows. Widely distributed from Central and South Europe to Middle Asia and Russian Far East.

***Polymerus (Poeciloscytus) cognatus* (Fieber, 1858)**

Material examined. GILAN: Jafrud, 2 specimens, 31.vii.-1.viii.2002; Keshfi Lemir 25 km S of Astara, 1 specimen, 8.-9.vii.2003; Parudbar, 1 specimen, 25.-26.vi.2004; Sang Rud, 19.-20.viii.2002; Tutkabon – Rudbar, 3 specimens, 26.v.-28.vi.1995, 20.vi.-8.vii.1996. ARDABIL: near Khalkhal, 1 specimen, 9.-11.viii.1998; Kivi, 1 specimen, 9.-11.viii.2002; Majareh – Khalkhal, 1 specimen, 26.vii.1996. ZANJAN: Abbar, 1 specimen, 4.v.2001; Mamalan – Abbar, 1 specimen, 20.-21.vii.2002. TEHRAN: Evin, 2 specimens, 14.-18.vii.1995. GOLESTAN: Talulestan, 2 specimens, 15.-16.vii.2003.

Comments. On *Chenopodium album* and other Chenopodiaceae. Holopalaeartic.

***Polymerus (Poeciloscytus) forughae* Linnavuori & Hosseini, 2000**

Material examined. Type material: GILAN: Manjil, ♂ (holotype), 9 ♂♂ and ♀♀ paratypes, 16.v.-14.vi.1995, 26.vi.1996; Sang Rud – Jirandeh, 1 ♀ (paratype), 31.v.1995, in coll. Linnavuori. New material: GILAN: Rustam Abad – Salan Sar, 11 specimens, 6.-8.v.2001. ZANJAN: 20-35 km E of Zanjan, 1 specimen, 10.vii.2004.

Comments. On *Galium* spp. in dry hilly steppes at low altitudes. Endemic to Iran.

Polymerus (Poeciloscytus) lammesi Rinne, 1989

Material examined. TEHRAN: Azad Bar, several specimens, 8.-10.vii.1995.

Comments. On *Galium* spp. in wet mountain meadows at high altitudes. Extending from southern Finland and Sweden to Central Europe and the Balkan Peninsula, also known from the Khorasan province in Iran.

Polymerus (Poeciloscytus) vulneratus (Panzer, 1806)

Material examined. GILAN: Dasht-e-Veel, 6 specimens, 20.-25.viii.1998, 8.-10.ix.2000; Gyssom, 1 specimen, 30.vi.-8.vii.1996; Rustam Abad – Salan Sar, 1 specimen, 8.-10.ix.2000; Tutkabon – Rudbar, several specimens, 25.v.-26.vi.1995, 26.v.-8.vii.1996. ARDABIL: Gareh Ghashlag, 1 specimen, 27.-28.vii.2004; Khalkhal, 2 specimens, 30.vii.1996, 10.-11.viii.2002. ZANJAN: Zanjan, 2 specimens, 13.-14.vii.2004. TEHRAN: Azad Bar, 3 specimens, 10.vii.1995; Shahrestanak, 1 specimen, 10.-12.vii.1995.

Comments. In meadows on *Galium* spp. Also recorded from the Chenopodiaceae. Holo-palaeartic.

Taylorilygus apicalis (Fieber, 1861)

Material examined. GILAN: Rasht, 1 specimen, iv.-vi.1995.

Comments. In hilly steppes on plants such as *Pulicaria* and *Matricaria*. Cosmopolitan in tropical and subtropical regions.

Subfamily Orthotyliinae
Tribe Halticini

Anapus freyi (Fieber, 1864)

Material examined. ARDABIL: Khemes, 1 specimen, 7.-9.vii.2002.

Comments. In meadows in hills. Eastern Palaeartic, extending from Ukraine and southern European Russia to Siberia. **New for Iran.**

Euryopicoris nitidus (Meyer-Dür, 1843)

Material examined. ARDABIL: 20-30 km E of Khalkhal, 1 specimen, 21.vii.1996.

Comments. On grasses in mountain meadows. Palaeartic. **New for Iran.**

Halticus apterus apterus (Linnaeus, 1758)

Material examined. ARDABIL: 20-30 km E of Khalkhal, 2 specimens, 1.-21.vii.1996.

Comments. In mountain meadows. Euro-Siberian. **New for Iran.**

Halticus darbandikhanus Linnavuori, 1984

Material examined. GILAN: Sang Rud – Jirandeh, 1 specimen, 31.v.1995. ARDABIL: Majareh, 2 specimens, 21.-22.vii.1996; Majareh – Khalkhal, 5 specimens, 21.-22.vii.1996. TEHRAN: Shahrestanak, 6 specimens, 10.-12.vii.1995.

Comments. In mountain meadows. So far known only from Iraq. **New for Iran.**

***Halticus macrocephalus* Fieber, 1858**

Material examined. GILAN: Darreh Dasht, numerous specimens, 27.v.-20.vi.1995; Sang Rud – Jirandeh, 1 specimen, 25.vi.1996. TEHRAN: Azad Bar, 1 specimen, 8.-10.vii.1995; Shahrestanak, 1 specimen, 10.-12.vii.1995.

Comments. In meadows in hills. Recorded from *Clematis* and *Carduncellus*. Holomediteranean. **New for Iran.**

***Myrmecophyes alacer* Horváth, 1927**

Material examined. ARDABIL: 20-35 km E of Khalkhal, several specimens, 27.vi.1995, 1.-27.vii.1996. TEHRAN: Azad Bar, numerous specimens, 8.-10.vii.1995; Kandovan, 3.-4.vii.1995.

Comments. In mountain meadows. Known from Azerbaijan, Iran and Turkmenistan.

***Orthocephalus bivittatus* Fieber, 1864**

Material examined. TEHRAN: Azad Bar, numerous specimens, 8.-10.vii.1995; Kandovan, 3.-4.vii.1995.

Comments. On meadows with grasses, Apiaceae and Asteraceae such as *Artemisia* spp. in hills. West-Palaeartic.

***Orthocephalus fulvipes* Reuter, 1904**

Material examined. GILAN: Darreh Dasht, 1 specimen, 26.v.-26.vi.1995; Deylaman – Barasar, 1 specimen, 23.vii.1996; Ganjeh, 2 specimens, 14.v.-13.vi.1995; Manjil, 1 specimen, 16.v.-14.vi.1995; Rustam Abad – Salan Sar, several specimens, 6.-8.v.2003; Sang Rud, 1 specimen, 30.vi.-1.vii.2003.

Comments. In meadows in hills. Holomediterranean. **New for Iran.**

***Orthocephalus modarresi* Linnavuori, 1997**

Material examined. TEHRAN: Kandovan, 3 specimens, 3.-4.vii.1995.

Comments. In mountain meadows with *Astragalus*, *Phlomis*, *Thymus*, *Verbascum*, and *Euphorbia*. Endemic for Iran, also known from the Khorasan province.

***Orthocephalus parvulus* Reuter, 1891**

Material examined. ARDABIL: Khemes, 1 specimen, 7.-9.vii.2002.

Comments. In meadows in hills. Pontomediterranean. **New for Iran.**

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

Material examined. GILAN: Deylaman – Barasar, 1 specimen, 23.vii.1996. ARDABIL: 20-30 km E of Khalkhal, 6 specimens, 1.-21.vii.1996; Khemes, 1 specimen, 7.-9.vii.2002.

Comments. In meadows in hills. On Asteraceae such as *Hieracium pilosella*. Holarctic. **New for Iran.**

***Orthocephalus vittipennis* (Herrich-Schaeffer, 1835)**

Material examined. ARDABIL: 20-35 km E of Khalkhal, numerous specimens, 27.vi.1995, 21.vii.1996.

Comments. On Asteraceae such as *Chrysanthemum* spp. in meadows in hills. West-Palaeartic. **New for Iran.**

***Platyporus dorsalis* Reuter, 1890**

Material examined. ARDABIL: Khemes, 1 specimen, 7.-9.vii.2002.

Comments. In meadows in hills. Anatolian, known from Armenia, Iran and Turkey.

***Strongylocoris niger* (Herrich-Schaeffer, 1835)**

Material examined. GILAN: Deylaman – Barasar, 1 specimen, 23.vii.1996.

Comments. Recorded from *Peucedanum* spp. in wet meadows. Pontomediterranean. **New for Iran.**

Tribe Orthotylini

***Blepharidopterus angulatus* (Fallén, 1807)**

Material examined. Several specimens: GILAN: 10 km W of Asalem, 5.-7.vii.2002; Dasht-e-Veel, 10.-12.v.2001, 27.-29.vii.2002; Deylaman, 16.-20.vii.1996; Deylaman – Barasar, 23.vii.1998; 35-50 km E of Khalkhal, 27.vii.1995, 1.-21.vii.1996; Masuleh, 3.viii.1994, 3.vii.1996, 4.-5.viii.2002; Ziba Kenar, 7.-10.vi.1995. TEHRAN: 5 km N of Karadj, 13.-14.vii.2002; Kordan, 14.vii.2002; Shahrestenak, 10.-12.vii.1995. GOLESTAN: Talulestan, 15.-16.vii.2002.

Comments. On deciduous trees such as *Alnus* and *Corylus*. Holarctic. **New for Iran.**

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

Material examined. Several specimens: GILAN: 10 km W of Asalem, 5.-7.vii.2002; Asalem forest, 13.-15.ix.1998; Deylaman, 16.-20.vii.1996; near Mahaleh, 14.-15.viii.2002; Masuleh, 4.-5.viii.2002. ARDABIL: Gareh Ghaslagh, 27.-28.vii.2004; near Khalkhal, 30.vii.1996, 8.-9.vii.2002; Khalkhal – Kivi, 4.viii.1996, 7.-9.vii.2002, 8.-9.viii.2002; Kivi, 8.vii.2002; Majareh – Kolor, 21.vii.1996. TEHRAN: Evin near Tehran, 14.-18.vii.1995; 10-15 km SE of Firuzkuh, 18.-19.vii.2003.

Comments. On *Salix*. Palaearctic.

***Brachynotocoris puncticornis* Reuter, 1880**

Material examined. GILAN: Sang Rud, 1 specimen, 30.vi.-1.vii.2003. TEHRAN: Evin near Tehran, 2 specimens, 14.-18.vii.1995.

Comments. On *Fraxinus rotundifolia*. North Mediterranean, in Iran known from the Khorasan province.

***Excentricus planicornis* (Herrich-Schaeffer, 1836)**

Material examined. TEHRAN: Shahrestenak, many specimens, 10.-12.vii.1995.

Comments. In mountain meadows. Recorded from *Cytisus*. Palaearctic, extending to Central Europe and Central Asia. **New for Iran.**

***Globiceps (Globiceps) coryli* V. G. Putshkov, 1970**

Material examined. GILAN: Damashk, numerous specimens, 30.vii.1996; Darreh Dasht, 27.v.-20.vi.1995, 10.vii.1996; Rustam Abad – Salan Sar, 6.-8.v.2001.

Comments. On deciduous trees (*Corylus*) in forests in hills. Previously known from northern Caucasus. **New for Iran.**

Globiceps (Globiceps) sphaegiformis (Rossi, 1790)

Material examined. ARDABIL: Majareh, 1 ♀, 9.viii.1998.

Comments. In a forest in hills. Recorded from *Fagus* and *Quercus*. Central and South Europe, extending to Turkey and Caucasus. **New for Iran.**

Globiceps (Kelidocoris) fulvicollis Jakovlev, 1877

Material examined. Many specimens: GILAN: Deylaman, 16.-20.vii.1996; Deylaman – Barasar, 23.vii.1996; Masuleh, 3.vii.1996; Rustam Abad – Salan Sar, 6-8.vi.2001. ARDABIL: 20-50 km E of Khalkhal, 1.-21.vii.1996, 27.vi.2002; Khalkhal – Kivi, 22.vii.-4.viii.1996, 27.vi.-9.vii.2002; Majareh – Khalkhal, 22.vii.1996. GOLESTAN: Golestan N.P., Tangegol, 23.-24.v.2001, E. Heiss lgt.

Comments. On deciduous trees in mountain forests. West-Palaeartic. **New for Iran.**

All Iranian specimens are dark-coloured, belonging to the form *cruciatius* Reuter, 1897, which was regarded as a synonym of *G. fulvicollis* by KERZHNER (1964: 740). Since no intermediate forms were found, the form could be a subspecies of *G. fulvicollis*.

Globiceps (Kelidocoris) monticolus Linnavuori, 2006

(Figs. 5-6)

Material examined. GILAN: Sang Rud, ♂ (holotype), ♀ (allotype, in coll. Linnavuori), 30.vi.-1.vii.2003, S. Linnavuori lgt.

Comments. On undergrowth in a *Juniperus* forest in hills. Endemic to Iran.

The habitus figures of male and female of a related species *G. (K.) tragacanthae* V. G. Putshkov, 1978, from Azerbaijan are reprinted in Figs. 7-8.

Malacocoris chlorizans (Panzer, 1794)

Material examined. GILAN: Damashk, 3 specimens, 30.vii.1996; Darreh Dasht, 2 specimens, 25.v.-20.vi.1995, 18.-21.viii.1998; Dasht-e-Veel, 1 specimen, 20.-25.viii.1998; Manjil, 1 specimen, 15.-17.ix.2000; Rasht, 2 specimens, vi.-viii.1996; Sang Rud, 1 specimen, 30.vi.-1.vii.2003. ZANJAN: Jilan Keshe, 1 specimen, 9.-13.x.2000. TEHRAN: Evin near Tehran, several specimens, 14.-18.vii.1995; near Karadj, several specimens, 12.-14.vii.2002; Shahrestanak, 1 specimen, 10.-12.vii.1995.

Comments. On *Fraxinus*. West-Palaeartic, also known from the Khorasan province in Iran.

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

Material examined. Numerous specimens: GILAN: Anzali, 30.viii.-1.ix.1998; 10 km W of Asalem, 3.-7.vii.2002; Darreh Dasht, 18.-21.viii.1998; Dasht-e-Veel, 18.-21.viii.1998, 8.-10.ix.2000, 27.-29.vii.2002; Deylaman, 16.viii.1998; Jafrud, 31.vii.-1.viii.2002; Lowshan, 23.v.1995; Manjil, 20.vi.1996, 20.-26.ix.1998; Parudbar, 29.-30.vii.2003; Rasht, viii.-ix.1998; Tutkaban – Rudbar, 26.vi.-8.vii.1996. ARDABIL: Kivi, 9.-11.viii.2002. ZANJAN: 8-15 km W of Gilvan, 31.vii.-1.viii.2004; Mamalan, 29.ix.-1.x.2000, 12.-14.v.2001, 4.-6.vi.2002; Mamalan – Abbar, 20.-21.vii.2002.

TEHRAN: 10-15 km SE of Firuzkuh, 18.-19.vii.2003; Karadj, 12.-14.vii.2002. GOLESTAN: Gilankesh, 5.-6.vii.2004; Gorgan – Mian Dareh, 1.-14.vii.2003; Talulestan, 15.-16.vii.2003.

Comments. On Chenopodiaceae. Holarctic.

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

Material examined. Many specimens: GILAN: 10 km W of Asalem, 5.-7.vii.2002; Dasht-e-Veel, 6.-8.vi.2002; Parudbar, 28.-30.vii.2003; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: Ganjgeh, 9.-10.viii.2002; near Khalkhal, 9.-11.viii.1998; Kivi, 9.-11.viii.2002. ZANJAN: Mamalan, 4.-6.vii.2002; Mamalan – Abbar, 20.-21.vii.2002. MAZANDARAN: Hassan Abad, 15.-16.vii.2002. GOLESTAN: Gilankesh, 5.-6.vii.2004; Gonbad – Baksht-e-Haft, 14.-15.vii.2003, 4.-5.vii.2004; Inche Borun, Alagol, 4.-5.vii.2004.

Comments. On Chenopodiaceae. Pontomediterranean, extending to eastern Siberia.

***Orthotylus (Melanotrichus) rubidus* (Puton, 1874)**

Material examined. GOLESTAN: Gonbad – Bakhst-e-Haft, 1 specimen, 4.-8.vii.2004.

Comments. On Chenopodiaceae. Holomediterranean.

***Orthotylus (Melanotrichus) turcmenorum* V. G. Putshkov, 1976**

Material examined. GILAN: Manjil, 1 specimen, 8.-10.v.2001; Rudbar – Tutkabon, 2 specimens, 10.-12.v.2001. ZANJAN: Abbar, 7 specimens, 12.-14.v.2000; near Mamalan, 1 specimen, 12.-14.v.2001.

Comments. On *Dendrostellera lesserti*. Irano-Turanian.

***Orthotylus (Orthotylus) eleagni* Jakovlev, 1881**

Material examined. ARDABIL: Firuzabad, 6 specimens, 9.viii.2002; Majareh – Kolor, several specimens, 21.vii.1995. TEHRAN: near Firuzkuh, 1 specimen, 18.-19.vii.2003; Shahrestanak, numerous specimens, 10.-12.vii.1995.

Comments. On *Eleagnus angustifolius*. Known from Ukraine, Middle Asia and Iran.

***Orthotylus (Orthotylus) marginalis* Reuter, 1883**

Material examined. TEHRAN: Shahrestanak, 5 specimens, 10.-12.vii.1995.

Comments. On deciduous trees such as *Alnus*, *Fraxinus* and *Salix*. Euro-Siberian. **New for Iran.**

***Orthotylus (Orthotylus) nassatus* (Fabricius, 1787)**

Material examined. GILAN: Sang Rud, 3 specimens, 30.vi.-1.vii.2003. ARDABIL: Khalkhal – Kivi, 5 specimens, 4.viii.1996, 7.-9.vii.2002; Majareh – Kolor, 2 specimens, 21.vii.1996. ZANJAN: Gilankesh 15 km NW of Gilvan, 1 specimen, 26.-27.vi.2004.

Comments. On deciduous trees such as *Salix*, *Fraxinus*, *Quercus* and *Tilia*. West-Palaeartic. **New for Iran.**

***Orthotylus (Orthotylus) populi* Drapolyuk, 1991**

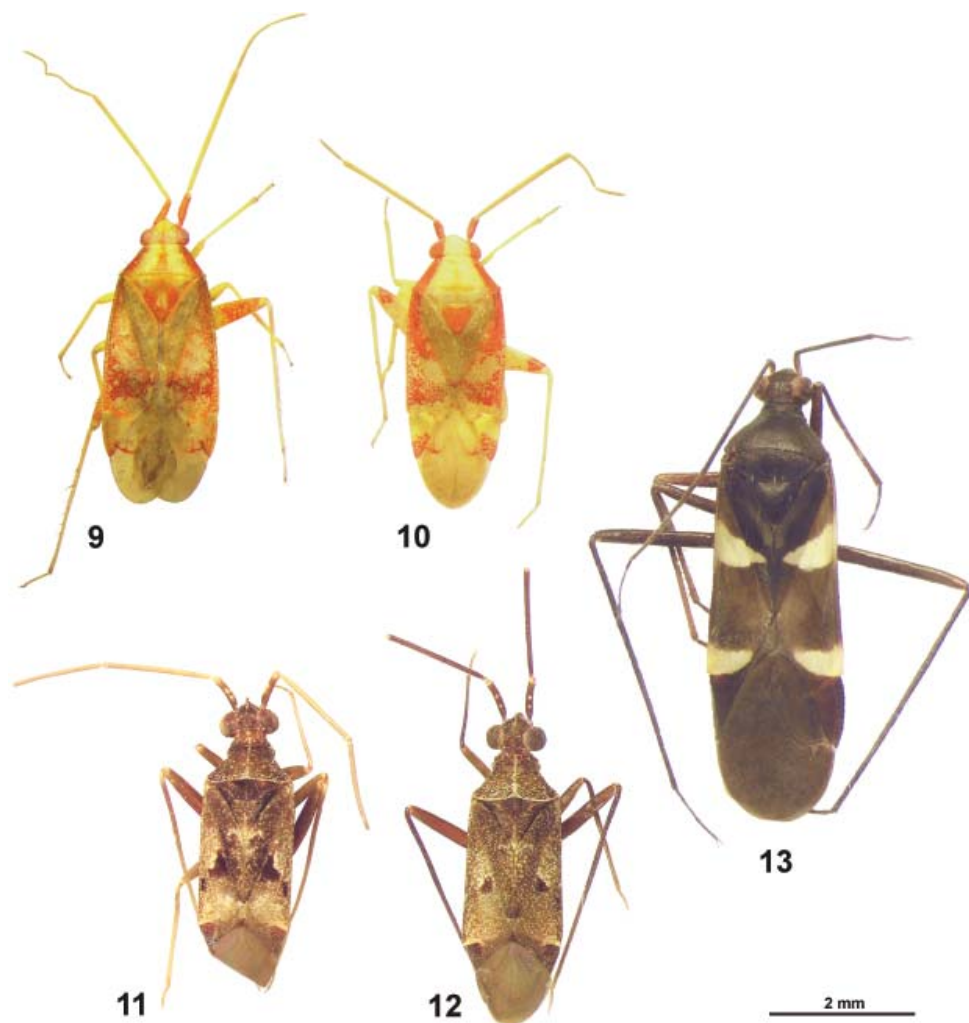
Material examined. GILAN: Deylaman, 1 specimen, 16.-20.vii.1996. ARDABIL: 10 km W of Khalkhal, several specimens, 8.-9.vii.2002; 25 km E of Kivi, several specimens, 7.-9.vii.2002; Majareh – Khalkhal, 2 specimens, 22.vii.1996. TEHRAN: Shahrestanak, several specimens, 10.-12.vii.1995.

Comments. On *Populus*. Previously known only from Azerbaijan. **New for Iran.**

***Orthotylus (Parapachylops) putshkovi* Josifov, 1974**

Material examined. GILAN: Sang Rud – Jirandeh, several specimens, 26.vi.-30.vii.1996. TEHRAN: Evin near Tehran, many specimens, 14.-18.vii.1995; Tehran – Karadj, 12.-13.vii.2002.

Comments. On *Juniperus excelsa* in mountain slopes. Known from Kyrgyzstan and the Khorasan province in Iran.



Figs. 9-13. 9 – *Pseudoloxops iranicus* Kerzhner, 1962 (Iran); 10 – *P. sangrudanus* Linnavuori, 2006 (Iran: Gilan); 11 – *Acrorrhinium conspersum* Noualhier, 1895 (Iran); 12 – *A. atricornis* Linnavuori, 2006 (Iran); 13 – *Systellonotus jirandehanus* Linnavuori & Hosseini, 1998 (male, Iran) (after LINNAVUORI 2006).

***Pseudoloxops iranicus* Kerzhner, 1962**

(Fig. 9)

Material examined. GILAN: Manjil, many specimens, 26.vi.1996. ZANJAN: Gilankesh 15 km NW of Gilvan, 1 specimen, 26.-27.vi.2004. TEHRAN: Evin near Tehran, 4 specimens, 14.-18.vii.1995.

Comments. On *Fraxinus*. Endemic to Iran.

***Pseudoloxops sangrudanus* Linnavuori, 2006**

(Fig. 10)

Material examined. GILAN: Sang Rud, ♂ (holotype), 30.vi.-1.vii.2003; Parudbar, ♂ (paratype), 25.-26.vi.2004.

Comments. Also known from the Fars province in Iran and northern Iraq.

***Reuteria kiritshenkoi* Muminov, 1964**

Material examined. Many specimens: GILAN: Chenar Rudkhan near Shaft, 1.-2.viii.2003; Darreh Dasht, 10.vii.1996; Dasht-e-Veel, 27.-29.vii.2002; Lounak, 20.vii.1996; Masuleh, 4.-5.viii.2002; Nasir Mahaleh, 14.-15.viii.2002; Rasht, vi.-viii.1996; Rustam Abad – Salan Sar, 24.vii.1996; Sang Rud, 30.vi.-1.vii.2003. GOLESTAN: Gorgan Mian Dareh, 13.-14.vii.2003.

Comments. On *Ulmus*. Also known from Azerbaijan and the Khorasan province in Iran.

***Zanchius breviceps* (Wagner, 1951)**

Habrocoris breviceps Wagner, 1951: 153.

= *Zanchius stami* van Doesburg, 1984: 27 (syn. LINNAVUORI 1994: 71).

= *Zanchius iranicus* Zheng & Liu, 1993: 18, **syn. nov.**

Material examined. GILAN: Sang Rud, 1 specimen, 29.-30.vii.2003. TEHRAN: near Karadj, 1 specimen, 13.-14.vii.2002.

Comments. On *Calotropis procera* and also on Malvaceae such as *Abutilon* and *Gossypium*. Eastern parts of the Eremian subregion, extending to Crete and Cyprus in the north and the Sudanese subregion.

According to the original description (ZHENG & LIU 1993), *Z. iranicus* is identical with *Z. breviceps*. Moreover, both taxa are known from the same area (Tehran province).

Subfamily Phylinae

Tribe Pilophorini

***Pilophorus cinnamopterus* (Kirschbaum, 1856)**

Material examined. TEHRAN: Evin, several specimens, 14.-18.vii.1995.

Comments. On *Pinus*. Euro-Siberian. **New for Iran.**

***Pilophorus confusus* (Kirschbaum, 1856)**

Material examined. Many specimens: GILAN: Damashk, 30.vii.-6.viii.1996; Damashk – Bareh sar, 27.vii.2002; Darreh Dasht, 27.v.-20.vi.1995, 10.vii.1996; Deylaman, 16.-20.vii.1996; Gyssom, 11.-16.vi.1995, 30.vi.-2.vii.1996; Masuleh, 6.-26.vi.1995, 28.vii.1996; Rasht, iv.-vi.1995, vi.-viii.1996; Rustam Abad – Salan Sar, 24.vii.1996; Tutkaban – Rudbar, 29.v.-28.vi.1995; Ziba Kenar, 21.vii.-1.viii.2002. ARDABIL: 10 km W of Khalkhal, 8-9.vii.2002; Kivi,

9.-11.viii.2002; Majareh – Khalkhal, 27.vii.1996; Majareh – Kolor, 21.vii.1996. TEHRAN: Evin, 14.-18.vii.1995; Karadj, 12.-13.vii.2002. MAZANDARAN: Chalus, 16.-17.vii.2002; Hassan Abad, 6.-7.vii.1995.

Comments. On deciduous trees, often *Salix*. Holopalaearctic.

***Pilophorus perplexus* (Douglas & Scott, 1875)**

Material examined. GILAN: Masuleh, 3 specimens, 6.-26.vi.1995, 3.vii.1996, 4.-5.viii.2002. TEHRAN: Shahrestanak, 2 specimens, 10.-12.vii.1995.

Comments. On deciduous trees such as *Acer*, *Alnus*, *Fraxinus* and *Quercus*. West-Palaearctic.
New for Iran.

Tribe Hallopadini

***Acrorrhinium atricorne* Linnavuori, 2006**

(Fig. 12)

Material examined. GILAN: Sang Rud, ♂ (paratype), 30.vi.-1.vii.2003. FARS: Tang-e-Bostanak, ♂ (holotype), 2 ♂♂ (paratypes), 8.-9.vi.1996.

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

***Acrorrhinium conspersum* Noualhier, 1895**

(Fig. 11)

Material examined. TEHRAN: Evin, many specimens, 14.-18.vii.1995; Karadj, several specimens, 12.-14.vii.2002.

Comments. At light. Known to occur on *Juniperus phoenicea*. Syrio-Anatolian, known from Bulgaria, Turkey, Israel, Iraq, and Iran.

***Alloeomimus kurdus* Hoberlandt, 1953**

Material examined. GILAN: Tutkabon – Rudbar, 6 specimens, 29.v.-28.vi.1995, 26.vi.-8.vii.1996. ZANJAN: Mamalan – Abbar, 1 specimen, 20.-21.vii.2002.

Comments. Myrmecophilous. On *Prosopis farcta* together with *Camponotus* sp. (Hymenoptera: Formicidae). Known from Syria, Iraq, and Iran.

***Glaphyrocoris iranicus* Linnavuori, 1965**

Material examined. TEHRAN: Karadj, 1 specimen, 12.-13.vii.2002.

Comments. At light in a garden. Endemic to Iran.

***Hallodapus pseudoconcolor* Linnavuori, 1984**

Material examined. GILAN: Parudbar, 4 specimens, 29.-30.vii.2003. ZANJAN: Mamalan – Abbar, 2 specimens, 20.-21.vii.2002.

Comments. At light in hilly steppes. Eremian, extending from Iraq to Middle Asia.

***Hallodapus suturalis* (Herrich-Schaeffer, 1837)**

Material examined. ARDABIL: Ganjgeh, 1 specimen, 9.-10.viii.2002; near Khalkhal, 1 specimen, 9.-11.viii.1998. TEHRAN: Evin, 3 specimens, 14.-18.vii.1995. MARKAZI: 25 km S of Saveh, 2 specimens, 20.-21.vi.2003.

Comments. At light in gardens and forests in hills. Northern Mediterranean, extending to Middle Asia.

***Laemocoris reuteri* Reuter, 1879**

Material examined. GILAN: Manjil, 1 specimen, 20.-26.ix.1998.

Comments. At light in a mountain forest. Eremian, known from North Africa, Iran, and Middle Asia.

***Paralaemocoris linnavuorii* Kerzhner, 1970**

Material examined. Many specimens: GILAN: Jirandeh, 6.-8.vii.1996; Manjil, 16.v.-14.vi.1995; Parudbar, 25.-26.vi.2004; Sang Rud, 19.-20.viii.2002, 30.vi.-1.vii.2003. ZANJAN: Mamalan, 4.-6.vi.2002. TEHRAN: Karadj, 12.-13.vii.2002; Kordan, 14.vii.2002.

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

***Systellonotus jirandehanus* Linnavuori & Hosseini, 1998**

(Fig. 13)

Material examined. GILAN: Sang Rud – Jirandeh, ♀ (holotype), 6.-8.vii.1996, ♀ (paratype), 31.v.1995; Sang Rud, 1 male, 30.vi.-1.vii.2003. ARDABIL: 25 km E of Kivi, 2 ♂♂, 7.-9.vii.2002; Khemes – Kolor, 2 ♂♂, 27.-29.vi.2002. ZANJAN: Mamalan, 2 ♂♂, 13.-14.v.2001.

Comments. In association with *Camponotus* sp. (Hymenoptera: Formicidae) under *Astragalus* sp. and other herbs on a gravelly slope of a hill. Also at light in mountain forests. Endemic to Iran.

Tribe Phylini

***Amblytylus concolor* Jakovlev, 1877**

Material examined. Several specimens: GILAN: Dasht-e-Veel, 10.-12.v.2001; Ganjeh, 14.v.-13.vi.1995; 45-50 km E of Khalkhal, 1.-21.vii.1996; Manjil, 16.v.-14.vi.1995, 8.-10.v.2001; Rustam Abad – Salan Sar, 18.v.1995, 5.-8.v.2001; Sang Rud – Jirandeh, 31.v.1995; Tutkabon – Rudbar, 1.-12.v.2001. ARDABIL: 20-30 km E of Khalkhal, 1.-21.vii.1996; 10 km W of Khalkhal, 8.-9.vii.2001. ZANJAN: Mamalan, 12.-14.v.2001, 4.-6.vi.2002.

Comments. On grasses in steppes. Pontomediterranean.

***Amblytylus delicatus* (Perris, 1857)**

Material examined. GILAN: Manjil, 1 specimen, 16.v.-14.vi.1995.

Comments. In a mountain meadow. Holomediterranean.

***Anonychiella alhagicola alhagicola* (Drapolyuk, 1982)**

Material examined. Many specimens: GILAN: Lowshan, 18.-20.viii.2002; Parudbar, 29.-30.vii.2003, 25.-26.vi.2004; Sang Rud, 19.-20.viii.2002. ZANJAN: near Gilvan, 29.ix.2000; Kalvim, 1.x.2000; Mamalan – Abbar, 20.-21.vii.2002.

Comments. On *Alhagi*. Known from the Khorasan province in Iran and Middle Asia.

***Anonymiella brevicornis* (Reuter, 1879)**

Material examined. ZANJAN: Mamalan – Abbar, 1 specimen, 20.-21.vii.2002. GOLESTAN: Talulestan, 1 specimen, 15.-16.vii.2003.

Comments. Irano-Turanian.

***Aphanophyes richteri richteri* (Wagner, 1957)**

Material examined. Many specimens: GILAN: Lowshan, 23.v.1995, 8.vii.1996, 20.-27.ix.1998, 17.ix.2000, 18.-20.viii.2002; Parudbar, 29.-30.vii.2002, 25.-26.vi.2004. ARDABIL: Firuzabad, 9.viii.2002. ZANJAN: Gilvan, 29.ix.2000; Mamalan – Abbar, 20.-21.vii.2003. TEHRAN: Asara, 13.vii.2002.

Comments. On *Tamarix*. Eremian, extending from North Africa to Iran.

***Atomoscelis onusta* (Fieber, 1861)**

Material examined. Many specimens: GILAN: Dasht-e-Veel, 20.-25.viii.1998; Manjil, 26.vi.1996, 20.-26.ix.1998; Parudbar, 25.-26.vi.2004. ARDABIL: near Khalkhal, 9.-11.viii.1998. ZANJAN: Mamalan, 12.-14.v.2001. TEHRAN: Evin, 14.-16.vii.1995; near Firuzkuh, 18.-19.vii.2003; Karadj, 13.-14.vii.2002.

Comments. In meadows in hills. On *Atriplex*. West-Palaeartic.

***Atractotomus mali* (Meyer-Dür, 1843)**

Material examined. ARDABIL: Khemes, 1 specimen, 7.-9.vii.2002. TEHRAN: Shahrestanak, several specimens, 10.-12.vii.1995.

Comments. On deciduous trees (*Crataegus*, *Malus*, *Pyrus*, *Sorbus*). West-Palaeartic. **New for Iran.**

***Atractotomus* sp. near *magnicornis* (Fallén, 1807)**

Material examined. TEHRAN: Evin, 2 ♀♀, 14.-18.vii.1995.

Comments. At light in a garden.

***Auchenocrepis reuteri* Jakovlev, 1876**

Material examined. Many specimens: GILAN: Dasht-e-Veel, 8.-10.ix.2000; Ganjeh, 14.v.-13.vi.1995; Lowshan, 27.ix.1998; Manjil, 8.-10.v.2001. ARDABIL: Firuzabad, 9.viii.2002, 28.vii.2004. ZANJAN: Abbar, 12.-14.v.2001; Gilvan, 20.ix.2000; Jilan Keshe, 9.-13.x.2000; Mamalan, 12.-14.v.2000. GOLESTAN: Alagol, 12.-13.vii.2003.

Comments. On *Tamarix*. Pontomediterranean.

***Badezorus ferdowsii* Linnavuori, 1997**

Material examined. GILAN: Manjil, 2 specimens, 26.vi.1996; Rasht, 1 specimen, 8.ix.1998. TEHRAN: 10-15 km SE of Firuzkuh, 8 specimens, 18.-19.vii.2003.

Comments. In Khorasan found on *Fraxinus* sp. In gardens. Endemic to Iran.

***Badezorus signaticornis* (Reuter, 1904)**

Material examined. Many specimens: GILAN: Dasht-e-Veel, 20.-25.viii.1998; Manjil, 20.-26.ix.1998; Parudbar,

29.-30.vii.2003; Rasht, vi.-viii.1996; Rudbar – Tutkabon, 10.-13.v.2001. ZANJAN: Abbar, 12.-14.v.2001; Jilan Keshe, 9.-13.x.2000; Mamalan, 12.-14.v.2001.

Comments. In steppes on *Aerva*, *Arnebia* and *Heliotropium*. Eremian (North Africa to Iran), widely distributed also in the Ethiopian and Oriental Regions.

***Badezorus tomentosus* (Reuter, 1904)**

Material examined. TEHRAN: Kordan, 1 specimen, 14.vii.2002.

Comments. On halophytes such as *Heliotropium* in steppes. Eremian, extending from North Africa and the Arabian Peninsula to Iran.

***Camptotylidea sinaitica* (Linnavuori, 1964)**

Material examined. GILAN: Parudbar, 1 specimen, 29.-30.vii.2003.

Comments. On *Haloxylon*. Irano-Turanian, known from Sinai, Iran, Turkmenistan, and Uzbekistan.

***Camptotylus gracilis* Wagner, 1957**

Material examined. ARDABIL: Firuzabad, 1 specimen, 9.viii.2002. GOLESTAN: Inche Borun, Alagol, many specimens, 4.-5.vii.2004.

Comments. On *Tamarix*. Known from Iran and Afghanistan.

***Camptotylus liniae* (Puton, 1881)**

Material examined. Many specimens: ARDABIL: Firuzabad, 28.vii.2004; Khalkhal – Kivi, 4.viii.1996; Kivi, 8.vii.2002. TEHRAN: Asara, 13.vii.2002; Azad Bar, 8.-10.vii.1995; Gachsar, 15.vii.2002.

Comments. On *Tamarix*. Known from southern Russia, Ukraine, Turkey, Azerbaijan, Georgia, Israel, and Jordan. **New for Iran.**

***Camptotylus reuteri* Jakovlev, 1881**

Material examined. GILAN: Ganjeh, 3 specimens, 14.v.-13.vi.1995; Lowshan, several specimens, 8.vii.1996, 27.ix.1996.

Comments. On *Tamarix*. Extending from Greece to North China.

***Campylomma annulicorne* (Signoret, 1865)**

Material examined. GILAN: Rasht, 1 specimen, vi.-viii.1996.

Comments. On *Salix*. West-Palaeartic, extending to Middle Asia, Russian Far East, and Korea. **New for Iran.**

***Campylomma diversicorne* Reuter, 1878**

Material examined. Numerous specimens: GILAN: Dasht-e-Veel, 20.viii.-11.ix.1998, 8.-9.ix.2000, 10.-12.v.2001; Lowshan, 30.vii.-20.viii.2002; Manjil, 20.-26.ix.1998, 16.-17.ix.2000, 5.-10.v.2001; Parudbar, 29.-30.vii.2003, 25.-26.vi.2004; Rasht, viii.-ix.1998; Sang Rud, 4.viii.1998, 21.ix.2000, 19.-20.viii.2002; Tutkabon – Rudbar, 15.ix.2000, 10.-19.v.2001. ARDABIL: Kivi, 9.-11.viii.2002. ZANJAN: Abbar, 29.ix.-9.x.2000, 12.-14.v.2001; Jilan Keshe, 9.-13.x.2000; Kalvim, 1.iii.2000; Mamalan, 12.-14.v.2001, 4.-6.vi.2002; Mamalan – Abbar, 20.-21.vii.2002. TEHRAN: Evin, 14.-18.vii.1995.

Comments. In steppes on plants such as *Artemisia* and *Astragalus*. Irano-Turanian.

***Campylomma simillimum* Jakovlev, 1882**

Material examined. MAZANDARAN: Chalus, 1 specimen, 12.-13.vii.2003.

Comments. In mountain gardens. Extending from Hungary and Bulgaria to Middle Asia.

***Campylomma verbasci* (Meyer-Dür, 1843)**

Material examined. Many specimens: GILAN: Dasht-e-Veel, 20.-25.viii.1998; Manjil, 16.v.-4.vi.1995; Parudbar, 29.-30.vii.2003. ARDABIL: Ganjgeh, 9.-10.viii.2002; Khalkhal, 9.-11.viii.2002; Khalkhal – Kivi, 4.viii.1996; Kivi, 9.-11.viii.2002; Majareh, 21.-22.vii.1996. ZANJAN: Mamalan, 20.-21.vii.2002. TEHRAN: Asara, 13.vii.2002; Azad Bar, 10.vii.1995; Evin, 14.-18.vii.1995; near Firuzabad, 18.-19.vii.2002; Kandovan, 3.-4.vii.1995; Shahrestanak, 10.-12.vii.1995.

Comments. In steppes and in mountain meadows on herbs such as *Verbascum*. Also at light. Holarctic.

***Chlamydatus (Euattus) pullus* Reuter, 1870**

Material examined. Numerous specimens: GILAN: Dasht-e-Veel, 20.-25.viii.1998; Rustam Abad – Salan Sar, 24.vii.1996. ARDABIL: Deylaman, 16.-20.vii.1996; Khalkhal, 9.-11.viii.1996; 20-35 km E of Khalkhal, 27.vi.1995, 1.-21.vii.1996; Khemes, 7.-9.vii.2002; Kivi, 8.vii.2002. TEHRAN: Azad Bar, 8.-10.vii.1995; Shahrestanak, 10.-12.vii.1995.

Comments. In mountain meadows with *Hieracium*, *Achillea*, and *Trifolium*. Holarctic.

***Chlamydatus (Eurymerocoris) evanescens* (Boheman, 1852)**

Material examined. GILAN: Masuleh, several specimens, 3.vii.1996.

Comments. On *Sedum album*. West-Palaeartic.

***Compsidolon (Apsinthophylus) absinthii* (Scott, 1870)**

Material examined. Several specimens: GILAN: Darreh Dasht, 10.vii.1996; Deylaman, 16.-20.vii.1996; Deylaman – Barasar, 23.vii.1996.

Comments. In mountain slopes on *Artemisia absinthium*. Holomediterranean. **New for Iran.**

***Compsidolon (Apsinthophylus) nanno* Linnavuori, 1971**

Material examined. GILAN: Parudbar, 1 specimen, 29.-30.vii.2003. ZANJAN: Abbar, 4 specimens, 29.ix.-9.x.2000. TEHRAN: Karadj, 1 specimen, 12.-13.vii.2002. JORDAN: near Suweilih, 6 specimens, 23.-24.vii.1981, R. Linnavuori lgt.

Comments. In Jordan found on *Salsola vermiculata*. Formerly known only from Spain. **New for Iran and Jordan.**

***Compsidolon (Apsinthophylus) pumilum* (Jakovlev, 1876)**

Material examined. Numerous specimens: GILAN: Dasht-e-Veel, 10.-12.v.2001, 6.-8.v.2002; Manjil, 16.v.-14.vi.1995, 8.-10.v.2001; Parudbar, 25.-26.vi.2004; Rudbar – Tutkabon, 10.-12.v.2002; Rustam Abad – Salan Sar, 6.-8.v.2001; Sang Rud, 30.vi.-1.vii.2003. ZANJAN: Abbar, 12.-14.v.2001; Mamalan, 12.-14.v.2001, 4.-6.vi.2002. TEHRAN: 10-15 km SE of Firuzkuh, 18.-19.vii.2000.

Comments. On *Artemisia* spp. in steppes. Holomediterranean, extending to Middle and Central Asia.

Compsidolon (Compsidolon) elegantulum (Reuter, 1899)

Material examined. TEHRAN: Shahrestanak, 2 specimens, 10.-12.vii.1995.

Comments. On *Parietaria* sp. in a mountain steppe. Syrio-Anatolian.

Compsidolon (Compsidolon) nebulosum (Reuter, 1878)

Material examined. Numerous specimens: TEHRAN: Evin, 14.-18.vii.1995; Karadj, 12.-13.vii.2002; Kordan, 14.vii.2002; Shahrestanak, 10.-12.vii.1995.

Comments. At light and on undergrowth in gardens and deciduous forests. Irano-Turanian.

Ectagela aspera Linnavuori, 1984

Material examined. Several specimens: TEHRAN: Evin, 14.-18.vii.1995; Karadj, 12.-13.vii.2002.

Comments. In hilly gardens. In Tunisia found on *Populus alba*. Recorded from Tunisia and Iraq. **New for Iran.**

Ephippicoris lunatus Poppius, 1912

Material examined. Numerous specimens: GILAN: 10 km W of Asalem, 5.-7.vii.2002. ARDABIL: Khalkhal, 30.vii.1996, 8.-9.vii.2002; Khemes – Kolor, 27.-29.vi.2002; 25 km E of Kivi, 7.-9.vii.2002; Majareh – Khalkhal, 22.vii.1996. TEHRAN: 10-15 km SE of Firuzkuh, 18.-19.vii.2003; Shahrestanak, 10.-12.vii.1995.

Comments. Recorded from *Populus nigra*. At light in mountain forests. Known from Turkey, Caucasus and Middle Asia. **New for Iran.**

Eumecotarsus milidius Seidenstücker, 1980

Material examined. Numerous specimens: ARDABIL: Khalkhal – Kivi, 22.vii.-4.viii.1996, 9.-11.viii.1998; Kivi, 8.vii.2002. TEHRAN: Azad Bar, 8.-10.vii.1995; Gachsar, 15.vii.2002; Shahrestanak, 10.-12.vii.1995.

Comments. On *Myricaria* spp. in river valleys. Known from Turkey and Caucasus. **New for Iran.**

Europiella albipennis (Fallén, 1829)

Material examined. GILAN: Ziba Kenar, 1 ♂, 7.-10.vi.1995.

Comments. On *Artemisia* sp. in a mountain meadow. European. **New for Iran.**

Europiella alpina (Reuter, 1875)

Material examined. ARDABIL: Majareh – Kolor, many specimens, 21.vii.1996. TEHRAN: Azad Bar, many specimens, 8.-10.vii.1995.

Comments. On *Mentha* spp. in mountain areas. Known from Central and South Europe, Turkey, Caucasus, and Middle Asia. **New for Iran.**

Europiella artemisiae (Becker, 1864)

Material examined. Numerous specimens: GILAN: Darreh Dasht, 26.v.-20.vi.1995; Dasht-e-Veel, 20.-25.viii.1998, 10.-12.v.2001; Ganjeh, 14.v.-13.vi.1995; Gyssom, 30.vi.-2.vii.1996; Rasht, iv.-vi.1995, vi.-viii.1996; Rustam Abad,

13.v.1995; Sum'eh Sara, 4.-5.viii.1994; Tutkabon – Rudbar, 29.v.-28.vi.1995, 10.-12.v.2001, 6.-8.vi.2002. MAZANDARAN: Hassan Abad, 6.-7.ii.1995. GOLESTAN: Golestan N.P., Tangebol, 24.-25.x.2003, E. Heiss lgt.

Comments. On *Artemisia* spp. in meadows. Holarctic. **New for Iran.**

Europiella decolor (Uhler, 1893)

Material examined. GILAN: Tutkabon – Rudbar, 3 specimens, 26.v.-8.vii.1996, 10.-12.v.2001. ZANJAN: Mamalan, 1 specimen, 4.-6.vi.2002.

Comments. On *Artemisia*. Holarctic.

Europiella nigrocunealis (V. G. Putshkov, 1975)

Material examined. ARDABIL: 10 km W of Khalkhal, 1 specimen, 8.-9.vii.2002.

Comments. In a mountain meadow. Known from Caucasus. **New for Iran.**

Glaucopterum kareli Wagner, 1963

Material examined. GILAN: Manjil, 1 specimen, 8.-10.v.2001. TEHRAN: Shahrestanak, several specimens, 10.-12.vii.1995.

Comments. On *Elaeagnus angustifolius*. Irano-Turanian.

Lepidargyrus hafezi Linnavuori & Hosseini, 1998

Material examined. GILAN: Sang Rud – Jirandeh, ♂ (holotype), 6 ♂♂ and ♀♀ (paratypes), 25.vi.1996.

Comments. In a mountain meadow. Endemic to Iran.

Lepidargyrus iranicus Muminov, 1962

Material examined. GILAN: Dasht-e-Veel, 1 specimen, 10.-12.v.2001. ARDABIL: Khalkhal, many specimens, 30.vii.1996; Majareh, many specimens, 21.-22.vii.1996.

Comments. In gravelly mountain meadows. Polyphagous, found on *Asperula*, *Scutellaria*, *Hedysarum* and *Stachys*. Irano-Turanian (Azerbaijan, Iran, Turkmenistan).

Lepidargyrus putshkovi Drapolyuk, 1993

Material examined. GILAN: Manjil, 3 ♀♀, 16.v.-14.vi.1995. TEHRAN: Kandovan, 2 ♂♂, 3.-4.vii.1995.

Comments. In mountain meadows. Formerly known only from Azerbaijan. **New for Iran.**

Macrotylus (Alloeonycha) horvathi (Reuter, 1876)

Material examined. GILAN: Parudbar, 1 specimen, 25.-26.vi.2004; Sang Rud, 2 specimens, 30.vi.-1.vii.2003. ARDABIL: Kivi, 1 specimen, 9.-11.viii.2002; 25 km E of Kivi, 1 specimen, 7.-9.vii.2002. ZANJAN: Gilankesh, 15 km NW of Gilvan, several specimens, 26.-27.vi.2004.

Comments. In mountain steppes and forests. Northern Mediterranean, extending to Caucasus. **New for Iran.**

Macrotylus (Alloeonycha) paykullii (Fallén, 1807)

Material examined. Numerous specimens: TEHRAN: Azad Bar 70 km W of Karadj, 2410 m a.s.l., 8.-10.vii.1995; Kandovan, 2550 m a.s.l., 3.-4.vii.1995.

Comments. In mountain steppes. West-Palaeartic.

***Macrotylus (Macrotylus) talhouki* Wagner, 1976**

Material examined. several specimens: TEHRAN: Azad Bar 70 km W of Karadj, 2410 m a.s.l., 8.-10.vii.1995; Kandovan, 2550 m a.s.l., 3.-4.vii.1995 (A. Matocq det.).

Comments. In mountain steppes. Originally described from northern Lebanon. **New for Iran.**

***Megalocoleus mellae* (Reuter, 1876)**

Material examined. Several specimens: GILAN: Darreh Dasht, 27.v.-20.vi.1995; Dasht-e-Veel, 10.-12.vi.2001; Deylaman, 16.-20.vii.1998; Rustam Abad – Salan Sar, 6.-8.vi.2001; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: Khemes – Kolor, 27.-29.vi.2002. ZANJAN: Abbar, 12.-14.vi.2001; Mamalan, 12.-14.v.2002. TEHRAN: Azad Bar, 8.-10.vii.1995; Kandovan, 3.-4.vii.1995; Shahrestanak, 10.-12.vii.1995.

Comments. In hilly meadows. Pontomediterranean. Recorded as *M. molliculus* (Fallén, 1829) in LINNAVUORI & MODARRES (1999: 226). The genus was revised by MATOCQ (2004).

***Megalocoleus molliculus* (Fallén, 1829)**

Material examined. GILAN: Manjil, 1 specimen, 16.v.-14.vi.1995.

Comments. On Asteraceae in hilly meadows. Holopalaeartic.

***Nanopsallus carduellus* (Horváth, 1888)**

Material examined. GILAN: Dasht-e-Veel, 1 specimen, 20.-25.ix.1998; Sang Rud, several specimens, 19.-28.viii.2002, 30.vi.-1.vii.2003. ARDABIL: Khalkhal, 2 specimens, 9.-11.viii.1998; Kivi, 5 specimens, 9.-11.viii.2002. TEHRAN: Evin, 1 specimen, 14.-18.vii.1995; Kordan, 1 specimen, 14.vii.2002.

Comments. In mountain meadows. Recorded from *Cirsium acarna*. Pontomediterranean. **New for Iran.**

***Nasocoris argyrotichus* Reuter, 1879**

Material examined. Several specimens: GILAN: Jirandeh, 21.-23.ix.2000; Lowshan, 18.-20.viii.2002; Manjil, 15.-17.ix.2000, 8.-10.v.2001; Parudbar, 25.-26.vi.2004; Sang Rud, 4.viii.1998, 21.ix.2000, 19.-20.viii.2002, 30.vi.-1.vii.2003. ARDABIL: Ganjgah, 9.-10.viii.2002; Kivi, 9.-11.viii.2002. ZANJAN: Mamalan, 12.-14.v.2001; Zanjaan, 13.-14.vii.2004. TEHRAN: 10-15 km SE of Firuzkuh, 18.-19.vii.2003; Kordan, 14.vii.2002.

Comments. On *Ephedra procera* in hilly steppes. Irano-Turanian.

***Oncotylus (Cylindromelus) setulosus* (Herrich-Schaeffer, 1837)**

Material examined. Many specimens: GILAN: Jirandeh, 6.-8.vii.1996; Masuleh, 4.-5.viii.2002; Parudbar, 25.-26.vi.2004. ARDABIL: Khalkhal, 30.vii.1996; Khalkhal- Kivi, 4.viii.1996; Kivi, 9.-11.viii.2002; Majareh – Khalkhal, 22.vii.1996. ZANJAN: Zanjaan, 13.-14.vii.2004. TEHRAN: Evin, 14.-18.vii.1995; 10-15 km SE of Firuzkuh, 10.-19.iii.2000; Shahrestanak, 10.-12.vii.1995.

Comments. In mountain steppes. Recorded from *Centaurea*. Pontomediterranean, extending to Middle Asia.

***Oncotylus (Oncotylus) nigdensis* Linnavuori, 1961**

Material examined. GILAN: Abbar, 1 specimen, 12.-14.v.2001.

Comments. In mountain meadow. Known from Turkey, Armenia and Azerbaijan. **New for Iran.**

***Oncotylus (Oncotylus) persicus* Reuter, 1879**

Material examined. GILAN: Rustam Abad – Salan Sar, 1 specimen, 6.-8.v.2000. ZANJAN: Abbar, 1 specimen, 12.-14.v.2001; Mamalan, 1 specimen, 12.-14.v.2001.

Comments. In mountain steppes. Endemic to Iran.

***Oncotylus (Oncotylus) viridiflavus longipes* Wagner, 1954**

Material examined. Many specimens: GILAN: Astara, 8-9.vii.2003; Gyssom, 11.-18.vi.1995; Keshfi Lemir, 25 km S of Astara, 8.-9.vii.2003; Sang Rud, 30.vi.-1.vii.2003; Ziba Kenar, 7.-10.vi.1995, 29.vi.1996. ARDABIL: Khalkhal, 30.vii.1996; Majareh – Kolor, 21.vii.1996. ZANJAN: Zanjan, 13.-14.vii.2004.

Comments. In hilly steppes. Known from Turkey. **New for Iran.**

The nominotypical subspecies *O. viridiflavus viridiflavus* (Goeze, 1778) extends from Central and South Europe to Central Asia.

***Oncotylus (Oncotylus) vitticeps* Reuter, 1879**

Material examined. Many specimens: ARDABIL: Khemes – Kolor, 27.-29.vi.2002; 25 km E of Kivi, 7.-9.vii.2002; Majareh – Khalkhal, 29.vii.1996.

Comments. On Asteraceae in mountain steppes. Southern Russia, Ukraine, Iran, and Middle Asia.

***Orthonotus kiritshenkoi* Josifov, 1964**

Material examined. ARDABIL: 20-50 km E of Khalkhal, many specimens, 27.vi.1995, 1.-21.vii.1996.

Comments. In mountain meadows. Known from Azerbaijan. **New for Iran.**

***Orthonotus rufifrons* (Fallén, 1807)**

Material examined. Numerous specimens: GILAN: Darreh Dasht, 26.v.-20.vi.1995, 10.vii.1996; Dasht-e-Veel, 10.-12.v.2001; Deylaman, 16.-20.vii.1996; Deylaman – Barasar, 23.vii.1996; Fowman, 6.v.1995; Lounak, 30.v.-24.vi.1995; Masuleh, 6.-26.vi.1995, 3.vii.1996; Rustam Abad – Salan Sar, 24.vii.1996, 6.-8.v.2001.

Comments. In mountain forests, e.g. on *Urtica*. European, extending to Caucasus, Turkey, and Iran.

***Paredrocoris gilanicus* Linnavuori, 2006**

Material examined. GILAN: Rustam Abad – Salan Sar, ♂ (holotype), 34 ♂♂ and ♀♀ (paratypes), 6.-8.v.2001; Rudbar – Tutkaban, 7 ♂♂ and ♀♀ (paratypes), 10.-12.v.2001. ZANJAN: Abbar, 2 ♂♂ (paratypes), 12.-14.v.2001; Mamalan, 17 ♂♂ and ♀♀ (paratypes), 12.-14.v.2001, 4.-6.iv.2002.

Comments. On *Euphorbia* spp. in mountain slopes. Endemic to Iran.

***Paredrocoris picticornis* Linnavuori, 1997**

Material examined. TEHRAN: Kandovan, holotype (♂), 41 ♂♂ and ♀♀ (paratypes), 3.-4.vii.1995; Azad Bar, 1 ♂ (paratype), 10.vii.1995. (Holotype and paratype deposited in Plant Pests and Diseases Research Institute Tehran, paratypes in coll. Linnavuori).

Comments. On *Euphorbia* spp. in mountain slopes. Endemic to Iran.

***Plagiognathus (Plagiognathus) bipunctatus* Reuter, 1883**

Material examined. Many specimens: GILAN: Deylaman – Barasar, 23.vii.1996; Fowman, 6.v.1995; Ganjeh, 14.v.-13.vi.1995; Manjil, 26.vi.1996, 8.-10.v.2001; Parudbar, 29.-30.vii.2003; Sang Rud – Jirandeh, 31.v.1995. ARDABIL: Ganjgah, 9.-10.viii.2002; Gareh Ghaslagh, 27.-28.vii.2004; 20-30 km E of Khalkhal, 4.viii.1996; Khalkhal – Kivi, 22.vii.-4.viii.1996; Khemes – Kolar, 27.-29.vi.2002; Majareh – Khalkhal, 22.vii.1996. ZANJAN: Abbar, 12.-13.v.2001; Mamalan, 12.-14.v.2001. MAZANDARAN: Chalus, 18.-17.vii.2002, 12.-13.vii.2003; Hassan Abad, 15.-16.vii.2002.

Comments. In hilly steppes and meadows. Pontomediterranean.

***Plagiognathus (Plagiognathus) chrysanthemii* (Wolff, 1864)**

Material examined. ARDABIL: 25 km E of Kivi, 1 specimen, 7.-9.vii.2002.

Comments. In a meadow in hills. Found on *Chrysanthemum*, *Achillea*, *Trifolium*, *Verbascum*, etc. Holopalaeartic.

***Plagiognathus (Plagiognathus) fulvipennis* (Kirschbaum, 1856)**

Material examined. Numerous specimens: GILAN: Darreh Dasht, 27.v.-20.vi.1995; Deylaman, 9.v.-24.vi.1995; Lounak, 30.v.-24.vi.1995; Masuleh, 6.-26.vi.2005. ARDABIL: 10 km W of Khalkhal, 8.-9.vii.2002; Khemes – Kolar, 27.-29.viii.2002; 25 km E of Kivi, 7.-9.vii.2002. TEHRAN: Azad Bar, 10.vii.1995.

Comments. In steppes and meadows in hills. On Asteraceae (*Achillea*, *Heteropappus*, *Centaurea*). Pontomediterranean.

***Plagiognathus (Plagiognathus) zuvandiensis* V. G. Putshkov, 1978**

Material examined. Numerous specimens: GILAN: Darreh Dasht, 26.v.-20.vi.1995, 10.vii.1996; Deylaman, 9.v.-24.vi.1995, 16.-20.vii.1996; Deylaman – Barasar, 23.vii.1996; Ganjeh, 14.v.-13.vi.1995; Manjil, 16.v.-14.vi.1995; Sang Rud – Jirandeh, 31.v.1995. ZANJAN: Abbar, 11-14.v.2001; Gilankesh, 15 m NW of Gilvan, 26.-27.vi.2004; Mamalan, 12.-14.v.2001, 4.-6.vi.2002. TEHRAN: Shahrestanak, 10.-12.vii.1995.

Comments. In mountain meadows and deciduous forests. Known from Azerbaijan. **New for Iran.**

***Plagiognathus (Zophocnemis) bicolor* (Jakovlev, 1880)**

Material examined. ARDABIL: Khemes – Kolar, 2 specimens, 27.-29.vi.2002; Majareh – Khalkhal, 2 specimens, 22.vii.1996.

Comments. In mountain steppes. Known from South Russia, Ukraine, Caucasus, and Kazakhstan. **New for Iran.**

***Pleuroxonotus nasutus* Reuter, 1903**

Material examined. ARDABIL: Khemes – Kolar, 4 specimens, 27.-29.vi.2002.

Comments. In a meadow in hills. Known from Turkmenistan and the Khorasan province in Iran.

***Psallodema kasja* Drapolyuk, 1987**

Material examined. GILAN: Darreh Dasht, numerous specimens, 27.v.-20.vi.1995, 10.vii.1996; Dasht-e-Veel, 1 specimen, 10.-12.v.2001; Lahijan, 1 specimen, 2.v.1995; Rasht, 2 specimens, iv.-vi.1995; Rustam Abad – Salan Sar, 1 specimen, 6.-8.vi.2001.

Comments. On deciduous trees. Known from Azerbaijan and the Golestan province in Iran.

***Psallopsis bisulcis* Linnavuori, 1961**

Material examined. GILAN: Parudbar, 1 specimen, 29.-30.vii.2003. ZANJAN: Abbar, 2 specimens, 29.ix.-9.x.2000; near Gilvan, 1 specimen, 20.-21.vii.2002; Mamalan – Abbar, 1 specimen, 20.-21.vii.2002. GOLESTAN: Alagol, 1 specimen, 12.-13.vii.2003; Gonbad, Bakhsh-e-Haft, 1 specimen, 14.-15.vi.2003.

Comments. On the halophyte *Aellenia subaphylla*. Irano-Turanian, extending from Palestine to Middle Asia.

***Psallopsis caspia* Konstantinov, 1997**

Material examined. ZANJAN: Abbar, 4 specimens, 29.ix.-9.x.2000; Jilan Keshe, 2 specimens, 9.-13.x.2000; Mamalan – Abbar, 5 specimens, 20.-21.vii.2002. GOLESTAN: Gonbad, Bakhsh-e-Haft, 4 specimens, 4.-5.vii.2004. QAZVIN: Qazvin, 1 specimen, 21.vi.2003.

Comments. On halophytes such as *Salsola laricina* and *Kochia* spp. Caspian.

***Psallopsis halostachydis* V. G. Putshkov, 1976**

Material examined. GOLESTAN: Alagol, 6 specimens, 12.-13.vii.2003; Gonbad, Bakhsh-e-Haft, 2 specimens, 12.-13.vii.2003.

Comments. On halophytes such as *Halostachys belangeriana*. Extending from northern Iran to Dagestan and Inner Mongolia.

***Psallopsis similis* Wagner, 1958**

Material examined. ZANJAN: Mamalan, 2 specimens, 12.-14.v.2001. GOLESTAN: Gonbad, Bakhsh-e-Haft, 1 specimen, 14.-15.vii.2003.

Comments. On *Suaeda*. Eremian, extending from Saudi Arabia and Palestine to South Russia, Caucasus and Middle Asia.

***Psallus (Mesopsallus) ambiguus* (Fallén, 1807)**

Material examined. ARDABIL: Khemes – Kolor, 1 specimen, 27.-29.vi.2002.

Comments. In a mountain forest. Recorded from deciduous trees (*Alnus*, *Malus*, *Salix*). European, extending to Turkey and Caucasus. **New for Iran.**

***Psallus (Psallus) cruentatus* (Mulsant & Rey, 1852)**

(Fig. 14)

Material examined. GILAN: Dash-e-Veel, 4 specimens, 10.-12.v.2001; Manjil, 1 specimen, 8.-10.v.2001.

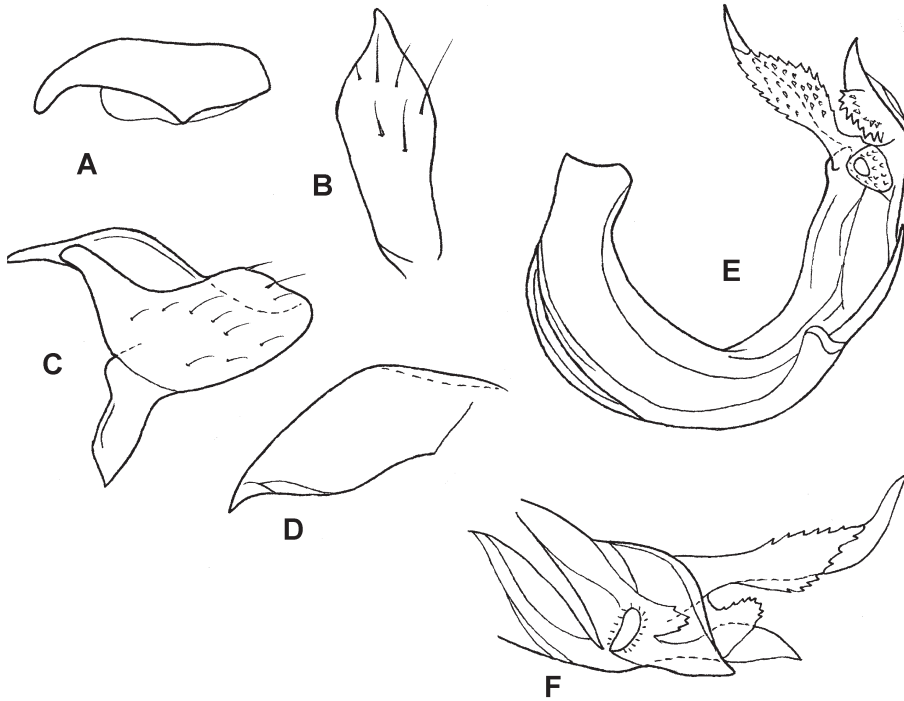


Fig. 14. *Psallus (Psallus) cruentatus* (Mulsant & Rey, 1852), ♂ from Gilan, Dasht-e-Veel: A – claw, B – right paramere, C – left paramere, D – theca, E – vesica (in slide), F – apex of vesica.

Comments. On *Quercus*. At light in mountain forests. Known from Central Europe, South Russia and Caucasus. **New for Iran.**

***Psallus (Psallus) gidajatovi* Drapolyuk, 1987**

Material examined. GILAN: 10 km W of Asalem, 1 specimen, 5.-7.vii.2002.

Comments. At light in mountain forest. Formerly known only from Azerbaijan. **New for Iran.**

***Psallus (Psallus) salicis* (Kirschbaum, 1856)**

Material examined. GILAN: 10 km W of Asalem, 2 specimens, 5.-7.vii.2002; Darreh Dasht, 1 specimen, 10.vii.1996; Gyssom, several specimens, 11.-18.vi.1995, 30.vi.-2.vii.1996; Nasir Mahaleh, 1 specimen, 14.-15.viii.2002.

Comments. On *Alnus*. Also at light. Palearctic. **New for Iran.**

***Psallus (Psallus) varians varians* (Herrich-Schaeffer, 1841)**

(Fig. 15)

Material examined. GILAN: Darreh Dasht, 2 specimens, 23.v.-20.vi.1995. ARDABIL: Khemes, 1 specimen, 7.-9.vii.2002; 25 km E of Kivi, 1 specimen, 7.-9.vii.2002.

Comments. On deciduous trees such as *Quercus* and *Fagus*. European, extending to Turkey and Caucasus. **New for Iran.**

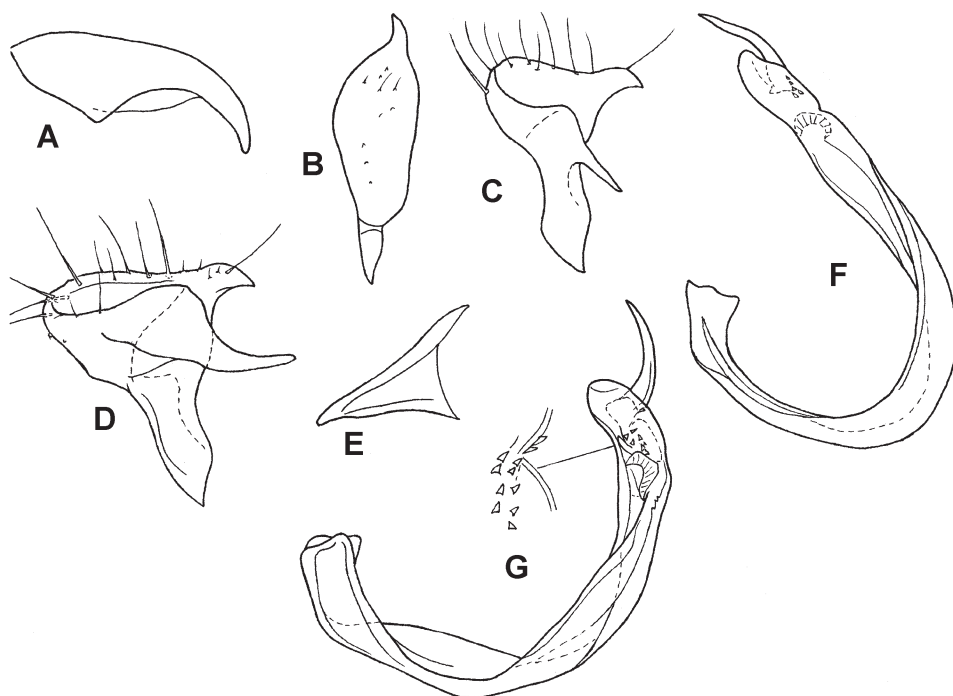


Fig. 15. *Psallus (Psallus) varians varians* (Herrich-Schaeffer, 1841), ♂ from Ardabil, Khemes: A – claw, B – right paramere, C-D – left paramere (in glycerine and slide), E – theca, F-G – vesica (in glycerine and slide).

Salicarus urnammu Linnavuori, 1984

Material examined. Several specimens: GILAN: Tutkaban – Rudbar, 10.-12.v.2001, 6.-8.vi.2002. ARDABIL: 10 km W of Khalkhal, 8.-9.vii.2002; 25 km E of Kivi, 7.-9.vii.2002. TEHRAN: Asara, 13.vii.2002; Shahrestanak, 10.-12.vii.1995.

Comments. On *Salix* spp. in mountain forests. Known from Turkey, Iraq, Azerbaijan and Turkmenistan. **New for Iran.**

Solenoxyphus fuscovenosus Fieber, 1864

Material examined. QAZVIN: Qazvin, many specimens, 21.vi.2003.

Comments. In a hilly steppe. Pontomediterranean.

Solenoxyphus punctipennis (Reuter, 1879)

Material examined. Numerous specimens: GILAN: 10 km W of Asalem, 5.-7.vii.2002; Deylaman, 16.-20.vii.1996; Jirandeh, 6.-8.vii.1996; Manjil, 8.-10.v.2001; Parudbar, 29.-30.vii.2003, 25.-26.vi.2004; Sang Rud, 30.vi.-1.vii.2003. ARDABIL: Ganjgeh, 9.-10.viii.1992; Khalkhal, 9.-11.ix.1998; Khemes – Kolor, 27.-29.vi.2002; 5-20 km E of Kivi, 8.-9.viii.2002. TEHRAN: 10-15 km SE of Firuzkuh, 18.-19.vii.2003; Shahrestanak, 10.-12.vii.1995. GOLESTAN: Alagol, 12.-13.vii.2003; Gonbad, Bakhsh-e-Haft, 14.-15.vii.2003; Gorgan, Mian Dareh, 13.-14.vii.2003. QAZVIN: Qazvin, 21.vi.2003.

Comments. In steppes with grasses, Asteraceae and *Astragalus* spp. Irano-Turanian.

***Stenoparia putoni* Fieber, 1870**

Material examined. GILAN: Tutkabon – Rudbar, 1 specimen, 6.-8.vi.2002.

Comments. In a hilly steppe. Recorded from *Artemisia* and *Matthiola*. Holomediterranean.

***Thermocoris rivalis rivalis* (Horváth, 1894)**

Material examined. ARDABIL: Khemes, 2 specimens, 7.-9.vii.2002. TEHRAN: Kandovan, many specimens, 3.-4.vii.1995.

Comments. In mountain meadows. Recorded from *Alkanna*. Known from Turkey, Caucasus and Iraq. **New for Iran.**

***Tuponia (Chlorotuponia) prasina* (Fieber, 1864)**

Material examined. Numerous specimens: GILAN: Dasht-e-Veel, 8.-9.x.2000; Ganjeh, 14.v.-13.vi.1995; Lowshan, 7.ix.2000, 18.-20.viii.2002; Parudbar, 29.-30.vii.2003; Rasht, iv.-vi.1995; Tutkabon – Rudbar, 6.-8.vi.2002, 25.-26.vi.2004. ARDABIL: near Firuzabad, 28.vii.2004; Khalkhal – Kivi, 4.viii.1996, 9.-11.viii.1998, 6.vii.2002. ZANJAN: Gilankesh 15 km NW of Gilvan, 26.-27.vi.2004; Mamalan, 4.-6.vi.2002. TEHRAN: Gachsar, 15.vii.2002; Karadj, 12.-14.vii.2002. GOLESTAN: Inche Borun, Alagol, 4.-5.vii.2004.

Comments. On *Tamarix* and *Myricaria*. Pontomediterranean, extending to Middle Asia.

***Tuponia (Tuponia) arcuifera* Reuter, 1879**

Material examined. Many specimens: GILAN: Ganjeh, 14.v.-13.vi.1995; Lowshan, 23.v.1995; Parudbar, 25.-26.vi.2004; Tutkabon – Rudbar, 10.-12.v.2001, 6.-8.vi.2002. ARDABIL: Firuzabad, 28.vii.2004; Khalkhal – Kivi, 4.viii.1996, 8.-9.vii.2002. ZANJAN: Abbar, 12.-14.v.2001; Gilankesh, 15 km NW of Gilvan, 26.-27.vi.2004. TEHRAN: Gachsar, 13.vii.2002. MAZANDARAN: Chalus, 16.-17.vii.2002; Hassan Abad, 15.-16.vii.2002.

Comments. On *Tamarix*. Pontomediterranean, extending to Central Asia.

***Tuponia (Tuponia) ayasensis* Wagner, 1963**

Material examined. GILAN: Lowshan, 9 specimens, 8.vii.1996. ZANJAN: Abbar, 2 specimens, 12-14.v.2001; Mamalan, 5 specimens, 12-14.v.2001.

Comments. On *Tamarix*. Syrio-Anatolian.

***Tuponia (Tuponia) dehshorana* Linnavuori, 1997**

Material examined. Several specimens: ZANJAN: Abbar, 12.-14.v.2001. TEHRAN: Asara, 13.vii.2002; Gachsar, 15.vii.2002. KOHGI LUYEH & BOYERAHMAD: Samirun, 11.-12.vi.2003.

Comments. On *Tamarix*. Endemic to Iran.

***Tuponia (Tuponia) elegans* (Jakovlev, 1881)**

Material examined. Several specimens: GILAN: Ganjeh, 14.v.-13.vi.1995; Lowshan, 23.v.1995, 8.vii.1996; Manjil, 8.-10.v.2001; Parudbar, 25.-26.vi.2004. ZANJAN: Gilvan, 29.ix.2000; Mamalan, 12.-14.v.2001, 4.-5.vi.2002. TEHRAN: Karadj Valley 52 km N of Karadj, 1 specimen, 26.vii.1972, D. Gerling lgt.

Comments. On *Tamarix*. Irano-Turanian.

***Tuponia (Tuponia) mixticolor* (A. Costa, 1862)**

Material examined. GILAN: Dasht-e-Veel, 2 specimens, 6.-8.vi.2002; Ganjeh, several specimens, 24.v.-28.vi.1995; Tutkabon – Rudbar, 1 specimen, 6.-8.vi.2002. ZANJAN: Mamalan, 4 specimens, 4.-6.vi.2002.

Comments. On *Tamarix*. Holomediterranean.

***Tuponia (Tuponia) persica* Wagner, 1957**

Material examined. Several specimens: GILAN: Dasht-e-Veel, 10.-12.v.2001; Parudbar, 25.-26.vi.2004. ZANJAN: Abbar, 12.-14.v.2001; Gilvan, 29.ix.2000; Mamalan, 12.-14.ix.2000.

Comments. On *Tamarix*. Eremian, extending from Yemen and Saudi Arabia to Middle Asia.

***Tuponia (Tuponia) subaltera* Drapolyuk, 1980**

Material examined. GILAN: Ganjeh, 2 specimens, 14.v.-13.vi.1995; Lowshan, 4 specimens, 23.v.1995; Tutkabon – Rudbar, 1 specimen, 6.-8.vi.2002. ZANJAN: Abbar, 3 specimens, 12.-14.v.2001; Mamalan, 4 specimens, 12.-14.v.2001.

Comments. On *Tamarix*. Known from the Khorasan province in Iran and Turkmenistan.

***Zakanocoris aceri* V. G. Putshkov, 1970**

Material examined. GILAN: Gyssom, 1 specimen, 30.vi.-10.v.1996; 45-50 km E of Khalkhal, several specimens, 27.vi.1995, 1.-21.vii.1996; Manjil, 1 specimen, 8.-10.v.2001.

Comments. On *Acer monspessulanum*. Known from Caucasus, Turkmenistan, and the Golestan province in Iran.

Discussion

Of the 204 species of Miridae recorded from the Gilan province and adjacent provinces of northern Iran, most (68 species, i.e. 33.3 %) belong to the Anatolian, Caucasian, Middle-Asiatic, and Irano-Turanian elements, 62 species (30.4 %) represent the West-Palaeartic, Holopalaeartic, Euro-Siberian, and Holarctic elements, and 42 species (20.6 %) represent the Mediterranean element. Twenty species (9.8 %) are endemic to Iran. The remaining 12 species are Eremian, Palaeotropical, and cosmopolitan. The result is very different as compared with the Hormozgan province in southern Iran north of the Persian Gulf, where most species (about 45 %) belong to the Eremian element, about 19 % are Mediterranean and 9 % are Irano-Turanian (LINNAVUORI 2004). In other parts of Iran, the number of Eremian species is also considerably higher than in Gilan and the adjacent provinces.

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References

- ALIPANAH H. & USTJUZHANIN P. 2005: An annotated list of the Pterophorinae (Oidaemaphorini and Pterophorini) of Iran (Lepidoptera: Pterophorinae). *Entomologica Fennica* **16**: 129-143.
- DOESBURG P. H. VAN 1984: A new orthotyline mirid (Heteroptera) from Syria. *Zoologische Mededelingen* (Leiden) **59**: 27-34.
- KERZHNER I. M. 1964: Fam. Isometopidae, Fam. Miridae (Capsidae). Pp. 700-765. In: BEI-BIENKO G. Ya. (ed.): *Opereditel' nasekomykh Evropeyskoy chasti SSSR v pyati tomakh. Vol. I. Nizhshie, drevnekrylye, s nepolnym prevrasheniem. [Key to the insects of the European part of the Soviet Union in five volumes. Vol. I. Hemimetabola]*. Nauka, Moskva & Leningrad, 936 pp (in Russian).
- KERZHNER I. M. & JOSIFOV M. 1999: Miridae. Pp. 1-577. In: AUKEMA B. & RIEGER Ch. (eds.): *Catalogue of the Heteroptera of the Palaearctic Region. Cimicomorpha II. Vol. 3*. The Netherlands Entomological Society, Amsterdam, xiv + 577 pp.
- LINNAVUORI R. E. 1994: Orthotylineae of West, Central, and North-East Africa (Heteroptera, Miridae). *Acta Zoologica Fennica* **193**: 1-84.
- 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 of species of the adjacent countries. Part III. *Acta Universitatis Carolinae Biologica* **44**: 163-188.
- LINNAVUORI R. E. 2004: 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. 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 Lygaeidae s. lat. (Heteroptera) of Gilan and the adjacent provinces in northern Iran. *Acta Entomologica Musei Nationalis Pragae* **47**: 57-75.
- LINNAVUORI R. E. 2007b: 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. & HOSSEINI R. 1999: On the genus *Dicyphus* (Heteroptera: Miridae, Dicyphinae) in Iran. *Acta Universitatis Carolinae Biologica* **43**: 155-162.
- LINNAVUORI R. E. & HOSSEINI R. 2000: *Heteroptera of Gilan with remarks on species of the adjacent areas. Part I*. Gilan University Press, Rasht, 94 pp.
- LINNAVUORI R. E. & MODARRES M. 1999: Studies on the Heteroptera of the Khorasan province in N. E. Iran. II. Cimicomorpha: Miridae. *Entomologica Fennica* **9**: 215-231.
- MATOCQ M. 2004: Revue des espèces attribuées au genre *Megalocoleus* Reuter, 1890 (Heteroptera: Miridae). *Annales de la Société Entomologique de France (N. S.)* **40**: 69-101.
- WAGNER E. 1951: Einige neue Miridenarten aus Aegypten (Hemiptera-Heteroptera). *Bulletin de la Société Fouad 1^{er} d'Entomologie* **35**: 153-161.
- ZHENG L.-Y. & LIU G.-Q. 1993: Two new species of genus *Zanchius* (Insecta: Hemiptera: Heteroptera: Miridae). *Reichenbachia* **30**: 17-20.