

## Hemiptera of Iraq. I. Heteroptera, Miridae (Deraeocorinae, Dicyphinae, Mirinae, and Orthotylinae)

Rauno E. Linnavuori

Linnavuori, R. E. 1992: Hemiptera of Iraq. I. Heteroptera, Miridae (Deraeocorinae, Dicyphinae, Mirinae, and Orthotylinae). — Entomol. Fennica 3:223–231.

A list of the species of the Miridae subfamilies Deraeocorinae, Dicyphinae, Mirinae, and Orthotylinae known to occur in Iraq is published. The list contains numerous records new to Iraq.

*Rauno E. Linnavuori, Somersoja, SF-21220 Raisio 22, Finland*

Very few records (Hoberlandt 1949 and 1953, Stichel 1958) on the Miridae fauna of Iraq have been published. During my stay in 1979–1981 at the Ministry of Agriculture in Iraq I had a chance to carry out investigations of the Hemipteran fauna all over the country. An extensive and interesting collection of material was then assembled. The new taxa in the material have been previously described by me (Linnavuori 1984). A complete list of the Deraeocorinae, Dicyphinae, Mirinae, and Orthotylinae is published below. Most of the species are new to Iraq. From the zoogeographical point of view a strong penetration of the Mediterranean element into the steppe and mountain regions in northern Iraq is noticeable. The fauna of the semidesert and desert zone resembles that of the adjacent parts of Saudi Arabia, although several species typical to the main parts of the Arabian deserts seem to be absent, undoubtedly owing to differences in the climatic and edaphic factors.

### Deraeocorinae

#### TERMATOPHYLINI

*Argyrotelaenus simoni* Reuter & Poppius, 1912

Material: Khan Ruhabah, 4 exx, 24.VI.1981, Linnavuori.

Biology: On *Acacia* in a desert wadi.

Distribution: Eremian, known from Egypt, the Sudan, the Arabian Peninsula, and Israel.

#### DERAEOCORINI

*Deraeocoris (Deraeocoris) rutilus* (Herrich-Schäffer, 1838)

Material: Several exx from Al Qosh, 10.V.1981; Aqra, 12.V.1981; Darbandikhan, 13.V.1980; Dukan, 12.VI.1980, Linnavuori.

Biology: In hilly steppes of northern Iraq.

Distribution: Holomediterranean.

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

Material: Shaqlawa, 1 ex, 16.XI.1979; Shaykh Addi, 1 ex, 15.XI.1979, Linnavuori.

Biology: In gardens and hilly steppes of northern Iraq.

Distribution: Holomediterranean; recorded from Iraq (Stichel 1958:799).

*Deraeocoris (Camptobrochis) punctulatus* (Fallén, 1807)

Material: Jalula, 2 exx, 27.XI.1979; Shaykh Addi, 2 exx, 1979, Linnavuori; Sulaymaniya, 1 ex, 27.I.1968, J. Sultan.

Biology: In steppes of northern Iraq.  
Distribution: Euro-Siberian.

*Deraeocoris (Camptobrochis) pallens* Reuter, 1904

Material: Many exx from Ana-Al Qaim, 5.V.1980; Baghdad, V–VIII.1980; Haditha, 13.VIII.1979; Kabaish, 27–28.VI.1980; Mosul, 28.VIII.1980; Sinoni, 8–9.V.1981; Tharthar lake, 2.VI.1980, Linnavuori.

Biology: Common in fields, gardens and desert habitats.

Distribution: Syrio-Anatolian with a wide range in the Arabian Peninsula.

*Deraeocoris (Camptobrochis) lutescens* (Schilling, 1837)

Shaqlawa (Hoberlandt 1953:379).

Distribution: Holomediterranean with a wide range in Central Europe.

#### HYALIODINI

*Stethoconus cyrtopeltis* Flor, 1860

Material: Sarsang, 1 ex, 26–28.VIII.1980, Linnavuori.

Biology: At lamp in a *Quercus* forest.

Distribution: A rare species, extending from the Mediterranean area to the Baltic states, Finland and East Europe.

#### Dicyphinae

*Macrolophus caliginosus* Wagner, 1951

Material: Al Qosh, 1 ex, 17.XI.1979; Aqra, 1 ex, 23.VIII.1980; Salahuddin, 1 ex, 16.XI.1979; Sarsang, 3 exx, 26–28.VIII.1980; Shaykh Addi, 1 ex, 15.XI.1979; Shaqlawa, 1 ex, 16.XI.1979; Zawita, 3 exx, 15.XI.1979, Linnavuori.

Biology: On herbs such as *Epilobium* in moist localities in northern Iraq.

Distribution: Holomediterranean.

*Macrolophus nubilus* (Herrich-Schäffer, 1835)

Material: Al Qosh, 1 ex, 15.VIII.1980; Aqra, 4 exx, 12.V.1981; Jebel Sinjar, 5 exx, 8.V.1981; Sarsang, 4 exx, 26–28.VIII.1980; Zawita, 4 exx, 15.XI.1979; Shaqlawa, 1 ex, 16.XI.1979, Linnavuori.

Biology: On plants in moist localities in northern Iraq.

Distribution: European. Iraq (Stichel 1958: 827).

*Cyrtopeltis (Nesidiocoris) tenuis* Reuter, 1895

Material: Many exx from Ain Al Tamar, 17.VII.1980; Baghdad, V–VII.1980; Mosul, 28.VIII.1980; Tharthar lake, 20.X.1980, Linnavuori.

Biology: On hairy plants such as Solanaceae, Cucurbitaceae and Compositae.

Distribution: Paleotropical. Iraq (Stichel 1958: 827).

*Cyrtopeltis (Campyloneuropsis) khalafi* Seidenstücker, 1964

Material: Ana-Al Qaim, 1 ex, 5.V.1980; Rutba-Al Qaim, 2 exx, 4.V.1980, Linnavuori.

Distribution: Eremian. Originally described from Baghdad (Seidenstücker 1964:239). Later recorded from Saudi Arabia (Linnavuori 1986:129).

*Dicyphus hyalinipennis* (Burmeister, 1835)

Material: Shaqlawa, 1 ex, 16.XI.1979; Zawita, 1 ex, 13.XI.1979, Linnavuori.

Distribution: Holomediterranean; recorded from Shaqlawa (Hoberlandt 1953:380).

#### Mirinae

##### PITHANINI

*Pithanus marshalli* Douglas & Scott, 1868

Material: Many exx from Al Qosh, 10.V.1981; Aqra, 12.V.1981; Brozah, 13.V.1981; Darbandikhan, 13.V.1981; Shaykh Addi, 11.V.1981; Sinoni, 8–9.V.1981; Linnavuori.

Biology: Common in hilly steppes of northern Iraq.

Distribution: Holomediterranean.

##### HERDONIINI

*Camponotidea fieberi* Reuter, 1879

Material: Aqra, several exx, 12.V.1981, Linnavuori.

Biology: In a hilly steppe in northern Iraq.  
Distribution: Pontomediterranean.

## STENODEMINI

*Stenodema calcaratum* (Fallén, 1807)

Material: Ana, 1 ex, 8.X.1979, Linnavuori.

Biology: On *Scirpus* sp. in a valley of a small brook.

Distribution: Euro-Siberian.

*Stenodema turanicum* Reuter, 1904

Material: Many exx from Al Qosh, 10.V.1981; Mosul, 28.VIII.1980; Sarsang, 26–28.VIII.1980; Shaykh Addi, 11.V.1981, Linnavuori.

Biology: On grasses in hilly steppes in northern Iraq.

Distribution: Caspian; recorded from Iraq (Stichel 1958:843).

*Stenodema virens* (Linnaeus, 1767)

Iraq (Stichel 1958:843).

Distribution: Euro-Siberian.

*Trigonotylus pulchellus* (Hahn, 1834)

Material: Many exx from Falluja, 5.X.1979; Muhammadi, 8.X.1979; Sarsang, 26–28.VIII.1980; Sinjar, 7.V.1981; Zawita, 26.VIII.1980; Linnavuori.

Biology: On grasses in fields and gardens.

Distribution: Holomediterranean with a wide range in Central Europe.

*Trigonotylus brevipes* Jakovlev, 1880

Material: Many exx from Basra, 12.IV.1980; Darbandikhan, 13.V.1980; Al Hadr, 6–7.V.1981; Safwan, 12.IV.1980; As Salman, 18.IV.1980; Ukhaidir-Nukhaib, 2.V.1980, Linnavuori.

Biology: On grasses in fields and steppes.

Distribution: Irano-Turanian; Iraq (Stichel 1958:843).

*Trigonotylus pallidicornis* Reuter, 1900

Material: Many exx from Baghdad, IV–V.1980; Darbandikhan, 13.V.1980; Falluja, 5.X.1980; Mosul, 28.VIII.1980; Rawah-Al Hadr, 6.V.1981; Muhammadi, 8.X.1979; As Salman, 18.IV.1980; Sinjar, 7.V.1981; Ukhaidir-Nukhaib, 2.V.1980; Waqisah, 1.V.1980, Linnavuori.

Biology: On grasses such as *Cynodon* in fields, gardens and steppes.

Distribution: Widespread within the Eremian and Sudanese subregions.

## MIRINI

*Phytocoris (Stictophytocoris) meridionalis* Herrich-Schäffer, 1835

Material: Dukan 1♀ apparently of this species, 12.VI.1980, Linnavuori.

Biology: On *Quercus*.

Distribution: Holomediterranean.

*Phytocoris (Stictophytocoris) tristis* Linnavuori, 1965

Material: Sarsang, 2 exx, 26–28.VIII.1980, Linnavuori.

Biology: On *Quercus*.

Distribution: Originally described from Turkey.

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

Material: Gully Ali Beg, 1 ex, 13.VI.1980, Linnavuori.

Biology: On an unidentified deciduous tree in a mountain forest.

Distribution: European.

*Phytocoris (Ktenocoris) tridens* Wagner, 1954

Material: Gully Ali Beg, 3 exx, 13.VI.1980; Qora, 1 ex, 13.VI.1980, Linnavuori.

Biology: On deciduous trees in mountain forests.

Distribution: Previously known from Cyprus.

*Phytocoris (Ktenocoris) poecilus* Wagner, 1962

Material: Az Zubayr, many exx, 14.IV.1980, Linnavuori.

Biology: On *Rhanterium epapposum*.

Distribution: Eremian, known from Libya and southern Israel.

*Phytocoris (Eckerleinus) enmerkar* Linnavuori, 1984

Material: Darbandikhan, ♂ holotype, ♀ paratype, 13.V.1980, Linnavuori.

**Biology:** On an unidentified shrub on dry hill sides.

**Distribution:** Endemic.

*Phytocoris (Eckerleinius) anabasisidis* Linnavuori, 1984

**Material:** Wadi Mandali, ♂ holotype, ♂ paratype, 29.IX.1979; Ain Al Tamar, ♂ paratype, 6.IV.1981, Linnavuori.

**Biology:** On *Anabasis articulatum*.

**Distribution:** Endemic.

*Phytocoris (Eckerleinius) artemisiae* Linnavuori, 1984

**Material:** As Salman, ♂ holotype, 5 paratypes, 5.III.1980, Linnavuori. Other material: Ash Sharqat, 1 ex, 7.IV.1980, Linnavuori.

**Biology:** On *Artemisia herba-alba* in gravelly steppes.

**Distribution:** Endemic.

*Phytocoris (Eriamiris) djerablisus* Linnavuori, 1974

**Type:** Iraq, Djerablis on Euphrates, ♂ holotype, V.1914, Pietschmann, in Mus. Nat. Vienna.

**Material:** Rutba-Al Qaim, 6 exx, 4.V.1980, Linnavuori.

**Biology:** On *Artemisia herba-alba*. In Saudi Arabia found on *Rhanterium epapposum*.

**Distribution:** Known from Iraq and the adjacent parts of Saudi Arabia.

*Phytocoris (Eriamiris) thymi* Linnavuori, 1984

**Material:** Abu Ghar, ♂ holotype, many paratypes, 16.IV.1980; Abu Ghar-Busaya, 5 paratypes, 1.IV.1981, Linnavuori.

**Biology:** On *Thymus bonei* in gravelly wadis. One, apparently casual find on *Zilla spinosa*. In Saudi Arabia found on *Astragalus spinosus*.

**Distribution:** Iraq and the adjacent parts of Saudi Arabia.

*Phytocoris (Eriamiris) lugalbanda* Linnavuori, 1984

**Material:** Ain Al Tamar-Ramadi, ♂ holotype, 7 paratypes, 20.IV.1980, Linnavuori.

**Biology:** On an unidentified shrub in a salt marsh bordering a little oasis.

**Distribution:** Endemic.

*Phytocoris (Eriamiris) gilgamesh* Linnavuori, 1984

**Material:** Ukhaidir-Nukhaib, ♂ holotype, 7.IV.1981; several paratypes from the same locality and Ratawi, 8.IV.1981; 50 km SE of Nasiriyah, 14.IV.1980; Safwan, 30.III.1981, Linnavuori.

**Biology:** On *Anabasis articulata*.

**Distribution:** Iraq and the adjacent parts of Saudi Arabia.

*Phytocoris (Eriamiris) echinopsis* Linnavuori, 1984

**Material:** Nukhaib-km 160, ♂ holotype, several paratypes, 3.V.1980; Sawa lake, 1 paratype, 30.III.1981; As Salman, 1 paratype, 3.IV.1981, Linnavuori.

**Biology:** On *Echinops blanchiana* in a semidesert near Nukhaib.

**Distribution:** Endemic.

*Neosapinnius phytocoroides* Wagner, 1960

**Material:** Numerous exx from Basra, 13.IV.1980; Safwan, 13.IV.1980; As Salman-Takhadid, 17.IV.1980; Az Zubayr, 14.IV.1980, Linnavuori.

**Biology:** On *Rhanterium epapposum* in semideserts.

**Distribution:** Eremian, common in central and eastern parts of Saudi Arabia.

*Creontiades pallidus* (Rambur, 1842)

**Material:** Many exx from Ana, 8.X.1979; Ana-Al Qaim, 9.X.1979; Baghdad, IV-V.1980; Falluja, 5.X.1979; Jebel Sinjar, 14.XI.1979; Muhammadi, 8.X.1979; Nasiriya, 22.X.1979; As Salman-Takhadid, 17.IV.1980; As Samawa, 21.X.1979, Linnavuori.

**Biology:** On plants in fields and desert habitats.

**Distribution:** Eremian with a wide range in the Mediterranean and Sudanese subregions.

*Megacoelum brevirostre* Reuter, 1879

**Material:** Tharthar lake, 2 exx, 2.VI.1980; Az Zubayr, 2 exx, 14.IV.1980, Linnavuori.

Biology: On plants in saline habitats.

Distribution: Irano-Turanian, extending from Cyprus to Turkestan; recorded from Iraq (Stichel 1958:850).

*Megacoelum tricolor* Wagner, 1958

Material: Baghdad, 6 exx, IV–VIII.1980, V–VI.1981; Khan Ruhabah, 2 exx, 6.IV.1981; Tharthar lake, 1 ex, 2.VI.1980; Ukhaydir-Nukhayb, 1 ex, 2.V.1980, Linnavuori.

Biology: In semideserts.

Distribution: Originally described from Iran.

*Megacoelum irbilanum* Linnavuori, 1988

*Megacoelum quercicola* Linnavuori 1984:27–28, nec *M. quercicola* Linnavuori 1965:26–27.

*Megacoelum irbilanum* Linnavuori 1988:1.

Material: Salahuddin, ♂ holotype, 12.VI.1980; Dukan, 5 paratypes, 12.VI.1980, Linnavuori.

Biology: On *Quercus aegilops*.

Distribution: Endemic.

*Adelphocoris bimaculicollis* Lindberg, 1948

Material: Penjwin, 2 exx, 11.VI.1980; Qora, 3 exx, 13.VI.1980, Linnavuori.

Biology: On plants in steppes.

Distribution: Previously known from Cyprus and Israel.

*Calocoris (Calocoris) roseomaculatus saucius* Linnavuori, 1951

Material: Aqra, 1 ex, 12.V.1981; Brozah, 1 ex, 13.V.1981; Al Qosh, 1 ex, 10.V.1981, Linnavuori.

Biology: In hilly steppes of northern Iraq.

Distribution: The nominate form European, the subspecies *saucius* known from Israel.

*Calocoris (Calocoris) instabilis* Fieber, 1861

Material: numerous exx from Aqra, 12.V.1981; Darbandikhan, 13.V.1980; Al Qosh, 10.V.1981, Linnavuori.

Biology: In hilly steppes of northern Iraq.

Distribution: Holomediterranean.

*Calocoris (Calocoris) ishtar* Linnavuori, 1984

Material: Aqra, ♂ holotype, many paratypes, 12.V.1981, Linnavuori; Darbandikhan, 2 paratypes, R. T. Kasnaw.

Biology: On herbaceous plants in meadows on hilly terrain.

Distribution: Endemic.

*Calocoris (Closterotomus) agranus* Linnavuori, 1984

Material: Shaykh Addi, ♂ holotype, 11.V.1981; several paratypes from Aqra, 12.V.1981 and Al Qosh, 10.V.1981, Linnavuori.

Biology: In habitats similar to those of the preceding species.

Distribution: Endemic.

*Calocoris (Reuterista) tegularis* Puton, 1888

Material: Safwan, 1 ex, 30.III.1981, Linnavuori.

Biology: On desert vegetation.

Distribution: Eremian, distributed from Algeria to Saudi Arabia, southern Israel and Iraq.

*Grypocoris fieberi* Douglas & Scott, 1868

Material: Numerous exx from Qora, 10.V.1981; Al Qosh, 10.V.1981; Shaykh Addi, 11.V.1981, Linnavuori.

Biology: In hilly steppes of northern Iraq.

Distribution: Syrio-Anatolian. Recorded from Turkey, Syria and northern Israel.

*Brachycoleus lineellus* Jakovlev, 1883

Material: Numerous exx from Aqra, 12.V.1981; Al Qosh, 10.V.1981; Sinoni, 8–9.V.1981, Linnavuori.

Biology: In hilly steppes of northern Iraq.

Distribution: Anatolian, recorded from Caucasia, Turkey and Iran.

*Brachycoleus thoracicus* Puton, 1892

Material: Aqra, 5 exx, 12.V.1981; Darbandikhan, 6 exx, 13.V.1980; Qora, 1 ex, 13.VI.1980, Linnavuori.

Biology: In hilly steppes of northern Iraq.

Distribution: Syrio-Anatolian.

*Eurystylus bellevoeyi* (Reuter, 1879)

Material: Several exx from Ain Al Tamar-Ramadi, 20.IV.1980; Baghdad, V–VI.1981; Najaf-Shabakah, 1.V.1980; Rutba-Qaim, 9.IV.1981; As Salman-Shabakah, 4.IV.1981; Sawa lake, 19.IV.1980, Linnavuori. Kuwait: Al Jahra, 17.III.1981, Linnavuori.

**Biology:** On plants such as *Zygophyllum* and alf-alfa in fields, salt marshes and desert habitats.

**Distribution:** Eremian with a wide range within the Sudanese and Holomediterranean subregions.

*Liocoris tripustulatus* (Fabricius, 1781)

**Material:** Many exx from Aqra, 29.VIII.1980; Qora, 16.XI.1979; Shaykh Addi, 15.XI.1979; Shaqlawa, 16.XI.1979; Zawita, 15.XI.1979, Linnavuori.

**Biology:** On herbs in moist shady groves in northern Iraq.

**Distribution:** Euro-Siberian. Recorded from Iraq (Stichel 1958:859).

*Taylorilygus pallidulus* (Blanchard, 1852)

**Material:** Falluja, 1 ex, 5.X.1979; Shaykhan, 2 exx, 15.XI.1979; As Zubayr, 4 exx, 14.IV.1980, Linnavuori.

**Biology:** In fields and desert habitats on plants such as *Rhanterium epapposum*.

**Distribution:** Cosmopolitan.

*Lygus pratensis osmanus* Wagner, 1967

**Material:** Aqra, 6 exx, 29.VIII.1980, Linnavuori.

**Biology:** On plants such as *Cyperus* sp., *Epi-lobium hirsutum* and *Mentha longifolia* in a river valley.

**Distribution:** Anatolian, the nominate form *L. pratensis pratensis* (Linnaeus, 1758) Euro-Siberian.

*Agnocoris reclairei* Wagner, 1949

**Material:** Gully Ali Beg, 1 ex, 13.VI.1980; Halabja, 3 exx, 11.VI.1980, Linnavuori.

**Biology:** On *Salix*.

**Distribution:** European.

*Cyphodema humbaba* Linnavuori, 1984

**Material:** Darbandikhan, ♂ holotype, 4 paratypes, 13.V.1980, Linnavuori.

**Biology:** In mountain meadows.

**Distribution:** Endemic.

*Cyphodema rubricum* Seidenstücker, 1954

**Material:** Aqra, 1 ex, 12.V.1981, Linnavuori.

**Biology:** In a hilly steppe.

**Distribution:** Anatolian, recorded from Turkey.

**Orthotylinae**

CHOROSOMELLINI

*Chorosomella jakowlewi* Horváth, 1906

**Material:** Numerous exx from Darbandikhan, 13.V.1980; Al Qosh, 10.V.1981; Sinoni, 8–9.V.1981, Linnavuori.

**Biology:** In hilly steppes of northern Iraq.

**Distribution:** Anatolian, known from Turkey and Crimea.

HALTICINI

*Plagiolytus dispar* Reuter, 1900

**Material:** Numerous exx from Aqra, 12.V.1981; Brozah, 11.V.1981; Darbandikhan, 13.V.1980; Al Qosh, 10.V.1981; Shaykh Addi, 11.V.1981; Sinoni, 8–9.V.1981.

**Biology:** In hilly steppes of northern Iraq.

**Distribution:** Syrio-Anatolian.

*Dimorphocoris seidenstueckeri* Linnavuori 1984

**Material:** Sinoni, ♂ holotype, 11 paratypes, 8–9.V.1981, Linnavuori.

**Biology:** Swept from luxuriant herbaceous vegetation (grasses, Cruciferae, Papilionaceae such as *Trifolium* sp., Labiatae, and Compositae with different thistles) on banks of a small brook.

**Distribution:** Endemic.

*Orthocephalus tenuicornis* (Mulsant & Rey, 1852)

**Material:** Numerous exx from Aqra, 12.V.1981; Brozah 13.V.1981; Darbandikhan, 13.V.1980; Al Qosh, 10.V.1981; Shaykh Addi, 11.V.1981; Sinjar, 7.V.1981; Sinoni, 8–9.V.1981, Linnavuori.

**Biology:** Common in steppes of northern Iraq.

**Distribution:** Holomediterranean.

*Piezocranum corvinum* Puton, 1895

**Material:** Aqra, many exx, 12.V.1981; Sinoni, 2 exx, 8–9.V.1981, Linnavuori.

**Biology:** On thistles and other plants in hilly steppes of northern Iraq.

**Distribution:** Anatolian, recorded from Turkey and Syria.

*Halticus macrocephalus* Fieber, 1858

Material: Numerous exx from Brozah, 13.V.1981; Darbandikhan, 13.V.1980; Al Qosh, 10.V.1981; Shaykh Addi, 11.V.1981; Sinoni, 8–9.V.1981, Linnavuori.

Biology: Common in hilly steppes of northern Iraq.

Distribution: Holomediterranean.

*Halticus darbandikhanus* Linnavuori, 1984

Material: Darbandikhan, ♂ holotype, 7 paratypes, 13.V.1981; Al Qosh, 1 paratype, 10.V.1981, Linnavuori.

Biology: In mountain meadows.

Distribution: Endemic.

*Halticus beganus* Linnavuori, 1984

Material: Gully Ali Beg, ♀ holotype, 7 paratypes, 13.V.1981; Halabja, 1 paratype, 11.VI.1980, Linnavuori.

Biology: On *Bryonia* sp. and *Fraxinus* sp.

Distribution: Endemic.

*Strongylocoris enki* Linnavuori, 1984

Material: Aqra, ♂ holotype, 3 paratypes, 12.V.1981; Al Qosh, 2 paratypes, 10.V.1981; Shaykh Addi, 1 paratype, 11.V.1981, Linnavuori.

Biology: On herbaceous plants in meadows of hilly terrain.

Distribution: Endemic.

## ORTHOTYLINI

*Brachynotocoris cyprius* Wagner, 1960

Material: Khorsabad, several exx, 15.XI.1979, Linnavuori.

Biology: On *Olea europaea*.

Distribution: Pontomediterranean with a southern distribution, known from Cyprus and Israel, and as ssp. *inermis* Linnavuori, from Libya.

*Brachynotocoris viticinus* Seidenstrücker, 1954

Material: Many exx from Aqra, 29.VIII.1980; Halabja, 11.VI.1980; Salahuddin, 13–14.VI.1980, Linnavuori.

Biology: On *Vitex agnus-castus*.

Distribution: Pontomediterranean.

*Orthotylus (Orthotylus) cornupunctus* Ghauri, 1972

Material: Dukan, 6 exx, 12.VI.1980; Jebel Sinjar, 7 exx, 14.XI.1980; Zawita, 1 ex, 15.XI.1979; Linnavuori.

Biology: On *Quercus aegilops*.

Distribution: Endemic (type locality: Sulaymaniya).

*Orthotylus (Orthotylus) prunicola* Linnavuori, 1984

Material: Nukhaib- km 160, ♂ holotype, 1 paratype, 8.IV.1981, Linnavuori.

Biology: On *Prunus arabicus*.

Distribution: Endemic.

*Orthotylus (Orthotylus) priesneri* Schmidt, 1939

*Orthotylus (Orthotylus) priesneri* Schmidt 1939:22.

*Orthotylus (Orthotylus) macrophthalmus* Wagner 1960:93–94 (Linnavuori 1986:144).

Material: Many exx from Khan Ruhabah, 6.IV.1981; Najaf-Shabakah, 23.VI.1981, Linnavuori.

Biology: On *Acacia*.

Distribution: Eremian.

*Orthotylus (Melanotrichus) flavosparsus* (C. Sahlberg, 1842)

Material: Baghdad, many exx, 23.IX.1979, Linnavuori.

Biology: On *Chenopodium album*.

Distribution: Holarctic.

*Orthotylus (Melanotrichus) hirtulus* Wagner, 1951

*Orthotylus (Melanotrichus) hirtulus* Wagner 1951:157–159.  
*Orthotylus (Melanotrichus) haloxyloni* Wagner 1956:5–7 (Linnavuori 1986:145).

*Orthotylus (Melanotrichus) argenteopunctatus* Wagner 1957:87–88 (Linnavuori 1986:145).

*Orthotylus (Melanotrichus) omanensis* Linnavuori 1975:53 (Linnavuori 1986:145).

Material: Many exx from Nukhayb- km 160, 8.IV.1981; Nukhayb-Ratawi, 8.IV.1981; Rawah-Al Hadr, 6.V.1981; Rutba-Al Qaim, 4.V.1980; Safwan, 30.III.1981; Shabakah, 4.IV.1981; Wadi Mandali, 29.III.1979; Ukhaidir-Nukhayb, 2.V.1980, Linnavuori. Kuwait: Al Wafra, 16.III.1981, Linnavuori.

Biology: On *Anabasis articulata*.

Distribution: Eremian (Egypt-Iran).

*Orthotylus (Melanotrichus) arabicus* Wagner, 1962

*Orthotylus (Melanotrichus) arabicus* Wagner 1962:215–216.  
*Orthotylus (Melanotrichus) jordanicus* Wagner 1963:270–272 (Linnavuori 1986:147).

*Orthotylus (Melanotrichus) haloxyloni abbreviatus*  
 Linnavuori 1975:54 (Linnavuori 1986:147).

Material: Many exx from Ain Al Tamar, 17.VII.1980; Al Amarah, 23–24.X.1979; Baghdad, VI–VII.1980; Mosul, 28.VIII.1980; Samawah, 21.X.1979, Linnavuori; Basra, 8.VII.1968, M. Karem.

Biology: On halophytes such as *Salsola oppositifolia*, *Suaeda pruinosa* and *Zygophyllum*.

Distribution: Eremian with an eastern distribution, known from the Arabian Peninsula, Israel, Jordan, and Syria.

*Orthotylus (Melanotrichus) nigricollis* Wagner, 1975

Material: Several exx from Abu Ghar, 16.IV.1980; Ain Al Tamar, 20.IV.1980; Ain Al Tamar- Ramadi, 20.IV.1980; Al Amarah, 23–24.X.1979, Linnavuori.

Biology: On *Suaeda vermiculata*.

Distribution: Eremian, known from Saudi Arabia.

*Pseudoloxops guttulatus* Kerzhner & Muminov, 1975

Material: Sarsang, 1♀ apparently of this species, 26–28.VIII.1980, Linnavuori.

Biology: On deciduous trees in mountain forests.

Distribution: Turkestan.

*Heterotoma meriopterum* (Scopoli, 1763)

*Cimex meriopterum* Scopoli 1963:131–132.

*Capsus (Heterotoma) dalmatinus* Wagner 1950:40–43 (Tamanini 1962:135–141).

Material: Gully Ali Beg, 2 exx, 13.VI.1980, Linnavuori.

Biology: On deciduous trees in a mountain forest.

Distribution: Pontomediterranean.

*Zanchius alatanus* Hoberlandt, 1956

Material: Dukan, 1 ex, 12.VI.1980, Linnavuori.

Distribution: Syrio-Anatolian, recorded from Turkey and Israel.

*Zanchius breviceps* (Wagner, 1951)

Material: Several exx from Ana-Al Qaim, 9.X.1979; Baghdad, IX.1979, V–VIII.1980, Linnavuori.

Biology: On *Abutilon* and *Gossypium*.

Distribution: Eremian, known from Egypt, the Sudan, the Arabian Peninsula, and Israel.

*Globiceps syriacus* Wagner, 1969

Material: Dukan, 1 ex, 12.VI.1980, Linnavuori.

Biology: On undergrowth in a *Quercus* forest.

Distribution: Syrio-Anatolian, known from Turkey and Syria.

## References

- Hoberlandt, L. 1949: Some Hemiptera-Heteroptera collected in North and East Iraq. — Acta Entomol. Mus. Nat. Pragae 25:1–9.
- 1953: Hemipteren-Heteropteren von Shaqlawa in Südkurdistan. — Beitr. Entomol. 8:377–384.
- Ghauri, M. S. K. 1972: A new species of *Orthotylus* from Iraq (Heteroptera, Miridae, Orthotylinae). — Boll. Soc. Entomol. Ital. 104:194–196.
- Linnavuori, R. E. 1965: Studies on the South- and East-mediterranean Hemipterous fauna. — Acta Entomol. Fennica 30:1–35.
- 1974: Hemipterological studies. — Ann. Naturhist. Mus. Wien 78:393–413.
- 1975: Hemiptera of the Sudan, with remarks on some species of the adjacent countries 4. Miridae and Isometopidae. — Ann. Zool. Fennici 12:1–118.
- 1984: New species of Hemiptera Heteroptera from Iraq and the adjacent countries. — Acta Entomol. Fennica 44:1–59.
- 1986: Heteroptera of Saudi Arabia. — Insects of Saudi Arabia 8:31–197.
- 1988: Studies on the Miridae fauna (Heteroptera) of the Middle East. — Ann. Entomol. Fennici 54:1–10.
- Schmidt, K. 1939: Beiträge zur Hemipteren-Fauna Ägyptens I. — Bull. Soc. Fouad 1<sup>er</sup> Entomol. 23:22–30.
- Scopoli, J. A. 1763: Entomologia Carniolica exhibens Insecta Carniolae indigena et distributa in ordines, genera, species, varietates methodo Linnaeana. — Vindobonae 1763(382):131–132.
- Seidenstücker, G. 1964: Beitrag zu *Cyrtopeltis* (Heteroptera, Miridae). — Reichenbachia 3:237–240.
- Stichel, W. 1958: Illustrierte Bestimmungstabellen der Wanzen. II. Europa. — pp. 769–907.
- Tamanini, L. 1962: Osservazioni sul valore specifico e sulle distribuzioni dell' *Heterotoma meriopterum* (Scopoli) e dell' *H. planicornis* (Pallas) (Hemiptera, Heteroptera, Miridae). — Atti Accad. Roveretana Agiati 210, ser. VI, 2:135–141.



- Wagner, E. 1950: *Capsus* (*Heterotoma*) *dalmatinus* n.sp., eine neue Miridenart aus Dalmatien. — Wiener Entomol. Rundsch. 2:40–43.
- 1951: Einige neue Miridenarten aus Ägypten. — Bull. Soc. Fouad I<sup>er</sup> Entomol. 35:153–161.
- 1956: Drei neue Miriden-Arten aus Ägypten und Bemerkungen zu einer bereits bekannten Art. — Bull. Soc. Entomol. Egypte 40:1–9.
- 1957: Heteropteren aus Iran 1954. 2 Teil. Hemiptera-Heteroptera (Familie Miridae). — Jahreshefte Ver. Vaterl. Naturk. Württemberg 112:74–103.
- 1960: Zwei neue Miriden-Arten aus Saudi-Arabien. — Bull. Soc. Entomol. Egypte 44:93–96.
- 1962: Zwei neue *Orthotylus*-Arten aus Arabien. — Bull. Soc. Entomol. Egypte 47:215–218.
- 1963: Zwei neue *Orthotylus*-Arten aus dem Mittelmeergebiet (Hemiptera, Heteroptera, Miridae). — Reichenbachia 1:270–272.

Received 4.II.1992