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AHMAD KATBEH, ATTILIO CARAPEZZA & MAZEN AKKAWI

HETEROPTERA OF JORDAN:
SPECIMENS PRESERVED IN THE UNIVERSITY
OF JORDAN INSECTS MUSEUM
(*Insecta*) (*)

ABSTRACT - KATBEH A., CARAPEZZA A. & AKKAWI M., 2000 - Heteroptera of Jordan: specimens preserved in The University of Jordan Insects Museum (*Insecta*).

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In this paper, which is the first ever devoted to the Heteroptera of Jordan, the authors present the result of the study of the specimens belonging to this order preserved in the collection of the Jordan University Insect Museum (Amman). On the whole nearly 2600 specimens were examined. They proved to belong to 158 different species; 124 of them, marked with an asterisk, are new records for Jordan, thus almost doubling the total number of species known from the country (about 250). After a short introduction on the history and present state of heteropterology in Jordan and surrounding areas, all the examined specimens are listed by species in systematic order. In the conclusion of the work the authors underline that the present knowledge of the Heteroptera of Jordan, though greatly increased, is still far from complete.

KEY WORDS - *Heteroptera*, Jordan.

RIASSUNTO - KATBEH A., CARAPEZZA A. & AKKAWI M., 2000 - Eterotteri della Giordania: esemplari conservati presso lo 'Insects Museum' della 'University of Jordan' (*Insecta*)

Sono stati studiati gli Eterotteri giordani conservati presso lo «University of Jordan Insects Museum» di Amman. Complessivamente sono stati esaminati circa 2600 esemplari appartenenti a 158 specie. 124 di queste, segnalate da un asterisco, sono risultate nuove per la fauna della Giordania, facendo innalzare a circa 250 entità la consistenza complessiva della eterotterofauna giordana. Dopo una breve introduzione nella quale si ripercorrono sinteticamente le tappe fondamentali dell'esplorazione eterotterologica della Giordania e dei paesi vicini, viene presentato l'elenco delle specie studiate; per ognuna di esse vengono forniti dati sulle località di raccolta e indicazioni corologiche, ecologiche e bibliografiche. Nelle considerazioni finali viene messo in rilievo, attraverso il confronto con i dati faunistici di paesi confinanti, come le attuali conoscenze sulla eterotterofauna della Giordania siano da ritenersi ancora estremamente lacunose.

PAROLE CHIAVE - *Heteroptera*, Giordania.

(*) Lavoro presentato dal Socio Accademico Dr. Antonio Galvagni.

INTRODUCTION

Many works have been devoted to the Heteroptera of the geographic area surrounding Jordan, but mentioning all of them would produce a list of several hundreds of titles, which would be out of the scope of the present paper. In addition, early literature dealing with the region needs a careful reconsideration due to later changes in political boundaries. To limit ourselves to the most reliable and comprehensive ones, we may consider first the studies devoted to the Heteropterous fauna of Palestine (BODENHEIMER, 1935; HOBERLANDT, 1952; LINNAVUORI, 1960, 1961, 1962, 1965, 1973; PÉRICART & HALPERIN, 1989; PÉRICART J. *et al.*, 1993), which is nowadays one of the best known ones in the Mediterranean subregion. The Heteroptera of Iraq were investigated in a series of works by LINNAVUORI (1984, 1992, 1993a, 1993b, 1994), who produced also an excellent survey of the fauna of Saudi Arabia (LINNAVUORI, 1986). The Heteroptera of Egypt were treated by PRIESNER & ALFIERI (1953) and LINNAVUORI (1964). As to Syria, there is a faunal list by HARIRI (1971), which is a compilation based on STICHEL (1955-1962), who unfortunately used the denomination «Syria» in the old broad sense, including in it also Palestine, Lebanon and Jordan. NIESER & MOUBAYED (1986) listed the Gerromorpha and Nepomorpha of Lebanon and Syria.

Despite this richness of scientific literature dealing with the Heteroptera of Middle East, very little is known about the specific fauna of Jordan. Early literature starts with GIGLIO TOS (1894), who wrote the first article providing information on the Heteroptera of Jordan, of which he mentions 10 species collected by Dr. E. Festa in the vicinities of Jerash; ROYER (1914), listing the hemipterological results of the scientific expedition of P. De Peyerimhoff in the region at the beginning of 1902, recorded 4 species of Heteroptera collected at Petra. Only in recent times the available data on Jordanian Heteroptera, often single records scattered in literature, have begun to be gathered together with the study of material preserved in Museum and private collections. This is the case of the fundamental revisions of some heteropteran families by J. PÉRICART (1983, 1998) and of the publication, presently in progress, of the Catalogue of the Heteroptera of the Palaearctic Region (AUKEMA & RIEGER, 1995, 1996, 1999). The recent volume 3 of the Catalogue of the Heteroptera of the Palaearctic Region, devoted to the family Miridae (KERZHNER, 1999), contains unpublished records from Jordan based on information from R. Linnavuori. Finally, some new records and descriptions of new species from Jordan (*Phytocoris nabataeus* from Petra; *Phytocoris albolineatus* from Azraq and Petra; *Platycranus jordanicus*

from Azraq, Petra, Tafila and Suweilih; *Tuponia semele* from Wadi Mujib) were published by LINNAVUORI (1984, 1995).

The present article may be regarded as the first scientific paper wholly devoted to the Heteroptera of Jordan. Its aim is to contribute to the knowledge of the Heteroptera of Jordan providing a list of the specimens preserved in the University of Jordan Insects Museum (UJIM) in Amman. Some of these specimens were collected by entomology students from different parts of Jordan since the establishment of the museum in 1976. Some specimens were collected during many field trips conducted through the «Entomofauna of Jordan» research project sponsored by the Deanship of Scientific Research in the University of Jordan, and the «Animal Biodiversity Project», sponsored by the Higher Counsel of Science and Technology.

The following information is provided for each species: number of specimens in the collection, collecting sites in Jordan, general distribution and, if relevant, bibliographical and biological data. Localities are arranged alphabetically; dates are arranged chronologically within each locality by month. Each date is followed by the number of specimens in brackets. The species in the following list are recorded from over 80 sites in Jordan (the coordinates of almost all sites are specified in Appendix 1). An asterisk marks the species recorded for the first time from Jordan.

SPECIES ACCOUNT

FAM. NEPIDAE

**Laccotrepbes fabricii fabricii* Stål, 1868

Mat. (2 exx): Petra 10.XI.1995 (2).

Afrotropical species extending to North Africa and Middle East.

FAM. CORIXIDAE

**Micronecta (Basileonecta) scutellaris scutellaris* (Stål, 1858)

Mat. (5 exx): Ar Rumman 23.X.93 (1), Dayr Alla 19.VI.95 (4);

Paleotropical extending to the warmest areas of the southern Mediterranean subregion.

**Corixa affinis* Leach, 1817

Mat. (1 ex): Ar Rumman 23.X.93 (1).

Euromediterranean-turanian species extending to India.

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

Mat. (7 exx): Ar Rumman 23.X.93 (1), Dayr Alla 19.VI.95 (6);

Palaeartic, with a wide range in tropical Africa and in the Indian subcontinent.

FAM. OCHTERIDAE

**Ochterus marginatus marginatus* (Latreille, 1804)

Mat. (9 exx): Ghawr Kabid 15.X.95 (2), 20.XI.93 (2); Wadi Shua'yb 25.IV.96 (1), 1.V.97 (1), 4.X.95 (1), 26.XI.93 (2).

Paleotropical, extending to the southern part of the Palaeartic region.

FAM. NAUCORIDAE

**Heleocoris minusculus* (Walker, 1870)

Mat. (10 exx): Near the Dead Sea 26.XI.98 (8), 8.XII.95 (2).

Afrotropical species extending to Arabian Peninsula and Middle East.

FAM. NOTONECTIDAE

**Anisops debilis perplexus* Poisson, 1929

Mat. (14 exx): Al Mazar 14.XII.95 (1 nymph); Ar Rumman 23.X.93 (12); Ash Shunah 14.XII.95 (1 nymph).

Afrotropical extending to the S-Mediterranean region.

**Anisops sardeus sardeus* Herrich-Schaeffer, 1849

Mat. (25 exx): Ar Rumman 23.X.93 (25).

Paleotropical with a wide range in southern Palaeartic; a separate subspecies lives in Madagascar.

FAM. MESOVELIIDAE

**Mesovelia vittigera* Horváth, 1895

Mat. (3 exx): Ar Rumman 23.X.93 (3).

Widely distributed element present in the Ethiopian, Oriental and Australian regions, and in the southern part of the Palaeartic region.

FAM. HYDROMETRIDAE

**Hydrometra stagnorum* (Linnaeus, 1758)

Mat. (8 exx): As Salt 1.XII.93 (2); Ash Shawbak 12.XII.98 (2), 16.XII.98 (2), 28.XII.98 (2).

Widespread Turano-euromediterranean element.

FAM. VELIIDAE

**Rhagorelia nigricans nigricans* (Burmeister, 1835).

Mat. (42 exx): Al A'dasiyah 5.X.95 (1); Az Zarqa' 22.XI.?? (5); Dead Sea (water

stream near) 13.I.97 (20); Ghawr Kabid 16.X.95 (5); Wadi Shuay'b 4.X.95 (3), 10.X.95 (2), 11.XI.93 (2), 21.XI.96 (1), 20.X.96 (3).

Afrotropical extending to North Africa and Middle East.

Velia affinis affinis (Kolenati, 1857)

Mat. (39 exx): Ajlun 20.IV.91 (1), Al Mazar 14.XII.95 (1); Ash Shawbak 28.XII.98 (1); Dayr Alla 11.X.95 (1); Ermaimeen 4.V.93 (30); Nahlah 30.IX.93 (1), Wadi as Sir 13.XII.96 (3); Zayy 27.III.97 (1).

Turano-mediterranean element whose range, split into three subspecies, extends from Italy to South Afghanistan; already recorded from Jordan (Amman) by TAMANINI (1970).

FAM. GERRIDAE

Gerris paludum paludum (Fabricius, 1794)

Mat. (15 exx): Dayr Alla 22.X.95 (3); Ghawr Kabid 2.IV.85 (1); Jordan Valley 16.X.95 (4); Na'ur 20.IV.85 (1); North Adasiyah 5.X.95 (1); Wadi Shua'yb 20.IX.95 (1), 4.X.95 (4).

Semiaquatic species distributed in the Palaearctic and Oriental regions; already known from Jordan (ANDERSEN in AUKEMA & RIEGER, 1995).

FAM. SALDIDAE

**Chartoscirta cincta cincta* (Herrich-Schaeffer, 1841)

Mat. (1 ex): Amman 5.XI.96 (1).

Palaearctic species extending to the Afrotropical region.

FAM. TINGIDAE

**Stephanitis pyri* (Fabricius, 1775)

Mat. (2 exx): Yajuz 20.XI.93 (2).

Turano-mediterranean species living on a wide variety of both cultivated and wild trees.

**Dictyla ecbii* (Schrank, 1781)

Mat. (14 exx): Al Jubayhah 5.IV.93 (8), 28.V.94 (1); Jarash 14.IV.94 (3); North Shunah 14.IV.94 (2).

Palaearctic.

FAM. MIRIDAE

**Deraeocoris (Camptobrochis) pallens pallens* (Reuter, 1904)

Mat. (41 exx): Ajlun 11.X.95 (1); Al Bahhath 11.XI.92 (28); Al Bunayyat 25.IV.94 (1); Al Jubayhah 26.VI.93 (1), 30.VI.93 (2), 25.VII.93 (3), 19.IX.93 (3), 20.IX.93 (2), 14.XII.93 (1); As Salt 25.IX.93 (1); As Salt (as Salalem) 11.VI.93 (1); Birayn 3.XI.93 (1); Dayr Alla 17.IV.95 (1); Ghawr Kabid 1.XI.93 (1), 6.XII.93 (1), 8.IV.94 (1).

Irano-anatolian; a separate subspecies, *D. p. atramentarius* Linnaevuori, lives in the Arabian peninsula.

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

Mat. (14 exx): Al A'dasiyah 11.VII.94 (8); Dayr Alla 17.IV.95 (5); North Shunah 14.IV.94 (1).

E-mediterranean.

**Nesidiocoris tenuis* (Reuter, 1895)

Mat. (7 exx): Al Jubayhah 19.IX.93 (1); As Salt 25.IX.93 (1); Ghawr Kabid 27-28.IV.2000 (1), (without date) (4).

Paleotropical species living on hairy plants.

**Trigonotylus pulchellus* (Hahn, 1834)

Mat. (24 exx): Al Jubayhah 30.VI.93 (1), 11.VII.94 (1); Amman 30.VI.99 (1); As Sarw 26.VII.94 (3); Ghawr Kabid 27-28.IV.2000 (7), 6.V.94 (1), 1.XI.93 (5), 24.XI.93 (4), 6.XII.93 (4), 26.VII.94 (3), 15.XI.94 (2).

Widely distributed centroasiatic-euromediterranean species.

**Phytocoris (Ktenocoris) tridens* Wagner, 1954

Mat. (1 ex): Al Jubayhah 28.V.94 (1).

E-mediterranean element whose range extends from Macedonia to Iraq.

**Phytocoris (Exophytocoris) pinihalepensis* (Lindberg, 1948)

Mat. (1 ex): Unknown place 17.XII.88 (1).

E-mediterranean species (Rhodes, Cyprus, Palestine, Syria) living on *Pinus* spp.

**Creontiades pallidus* (Rambur, 1839)

Mat. (38 exx): Amman 8.XI.93 (1); Dhulayl 25.X.93 (2); Ghawr Kabid 27-28.IV.2000 (6), 6.V.94 (2), 2.VII.88 (3), 20.IX.93 (1), 11.X.93 (5), 27.X.91 (1), 1.XI.93 (6), 24.XI.93 (6), 15.XI.94 (2), 20.XII.94 (5); Kurayyimah 3.X.93 (1); Wadi Shua'yb 11.V.84 (1), 11.X.95 (2);

Eremitian, distributed from the Canary islands to Iran, with a wide range in tropical Africa.

Calocoris nemoralis (Fabricius, 1787)

Mat. (7 exx): Al A'dasiyah 11.VII.94 (3); Al Jubayhah 6.IV.94 (1), 16.IV.94 (1); North Shunah 14.IV.94 (1); Zabdah 11.IV.95 (1).

Widespread mediterranean species, already known from Jordan (KERZHNER & JOSIFOV 1999).

**Calocoris roseamaculatus saucius* Linnavuori, 1951

Mat. (5 exx): Ghawr Kabid 23.III.83 (3); Jarash 11.IV.88 (1); Wadi Shu'ayb 21.III.90 (1).

Euromediterranean; the subsp. *saucius* lives in Palestine, Iraq and Iran.

**Closterotomus norwegicus* (Gmelin, 1790)

Mat. (38 exx): Al Fuhays 16.IV.78 (1); Al Jubayhah 3.V.87 (1), 7.V.82 (2), 8.V.82 (1); Ar Rumman 11.IV.88 (1), 22.IV.83 (1); Ar Rumaymin 4.V.93 (6); Dayr Alla IV.87

(1), 17.IV.95 (1), 19.X.95 (1); Dibbin 1.V.93 (1); Irbid 2.IV.94 (3), 15.IV.93 (1); Kafr Asad 11.IV.94 (2); Kurayyimah 27.III.94 (3); Mars'a 23.IV.82 (1), 26.IV.?? (1); Muzayrib 24.IV.95 (2); North Shuuna 14.IV.94 (3); Suwaylih 20.V.82 (3); Zabbdah 24.IV.94 (3).

Originally euromediterranean, but now present in many regions of the world (N America, Australia, etc.) as introduced species.

**Closterotomus putoni* (Horváth, 1888)

Mat. (7 exx): Al Baqa'h 26.IV.93 (1); Jarash 4.IV.96 (1); Kafr Asad 11.IV.94 (1); Marsa' 26.IV.82 (1); Zayy 20.III.97 (3).

E-mediterranean, known from Crete, Anatalia, Lebanon and Palestine.

**Reuterista instabilis* (Fieber, 1861)

Mat. (48 exx): Al Wala 8.IV.82 (1); Ar Rumaymin 4.V.93 (1); Ayra 21.III.94 (1); Dayr Alla 17.IV.95 (2); Ghawr Kabid 17.II.79 (1), 23.II.95 (18), 23.III.88 (8), 27-28.IV.2000 (1), 13.V.97 (1); Jarash 11.IV.88 (1), North Shunah 27.III.97 (1); Wadi Al Mawjib 19.IV.83 (1), Wadi Shu'ayb 20.III.86 (1), 21.III.90 (1), 1.V.97 (1); Zabdah 11.IV.95 (9).

S-mediterranean species whose range extends from Spain to Syria.

**Grypocoris (Grypocoris) fieberi* Douglas & Scott, 1868

Mat. (23 exx): Al A'dasiyah 11.VII.94 (17); Zabdah 11.IV.95 (6).

Syro-anatolian.

**Grypocoris (Turciocoris) amoenus* (Douglas & Scott, 1868)

Mat. (4 exx): Al A'dasiyah 11.VII.94 (3); Zabdah 11.IV.95 (1).

Syro-anatolian.

Eurystylus bellevoeyi (Reuter, 1879)

Mat. (1 ex): Ar Rumman 23.X.92 (1); Ghawr Kabid 27-28.IV.2000 (1).

Eremian species living on Chenopodiaceae; its distribution extends to the Afrotropical and Oriental regions. Its presence in Jordan was already known (KERZHNER & JOSIFOV 1999).

**Dichrooscytus cyprius* Lindberg, 1948

Mat. (3 exx): Dayr Alla 17.IV.95 (3).

E-mediterranean, known from Armenia, Anatolia, Cyprus and Palestine.

**Taylorilygus apicalis* (Fieber, 1861)

Mat. (2 exx): Amman 5.XII.86 (1); Wadi Shu'ayb 11.X.95 (1).

Subcosmopolitan, widely distributed in all the warm regions of the world.

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

Mat. (3 exx): Dhulayl 26.X.93 (1); Tila' Al Ali 1995 (2).

Palaeartic extending to the northern regions of the Indian subcontinent.

**Liocoris tripustulatus* (Fabricius, 1781)

Mat. (1 ex): As Sarw 26. VII.94 (1).

European with a southeast extension reaching the Caucasus regions and Middle East.

Horistus turcomanus (Horváth, 1889)

Mat. (89 exx): Al Jubayhah 15.II.93 (1), 9.III.95 (1), 4.V.85 (1); Al Mushaqqar 22.VI.87 (1); Amman 7.III.96 (1), 4.IV.96 (1), 25.XI.96 (1); Ar Rumman 28.II.88 (16); As Sukhnah 1.IV.?? (1); Ghawr Kabid 27.III.93 (1), 9.III.95 (1); Mahis 22.III.83 (10); North Shunah 14.IV.94 (1); Sakib 18.IV.95 (1); Wadi as Sir 11.V.93 (1); Wadi Shua'yb 12.II.90 (28), 21.II.90 (6); Yajuz 25.IV.94 (16).

Syro-anatolian-iranian species already recorded from Jordan (Jerash, Petra) by RIEGER (1980) and CHÉROT (1997).

**Halloodapus costae* (Reuter, 1890)

Mat. (15 exx): Ghawr Kabid 27-28.IV.2000 (4), 6.V.94 (1), 22.V.95 (10).

Afrotropical species extending to Arabian peninsula and Middle East.

**Tytthus parviceps* Reuter, 1890

Mat. (1 ex): Ghawr Kabid 6.V.94 (1).

Species widespread in the tropical and subtropical regions of the world, occurring also in the southern part of the Mediterranean subregion.

**Badezorus signaticornis* (Reuter, 1904)

Mat. (5 exx): Ghawr Kabid 6.V.94 (5).

Saharo-sindian.

**Plagiognathus bipunctatus* Reuter, 1883

Mat. (32 exx): Ghawr Kabid 27-28.IV.2000 (32).

Turano-mediterranean, not known from N-Africa.

Campylomma unicolor Poppius, 1914

Mat. (1 ex): Ghawr Kabid 6.XII.93 (1).

Eremian species with a saharo-iranian range; already known from Jordan (KERZHNER & JOSIFOV 1999).

**Atomoscelis onusta* (Fieber, 1861)

Mat. (1 ex): Ghawr Kabid 6.XII.93 (1).

Centralasian-mediterranean extending to the Arabian peninsula.

Lepidargyrus syriacus (Wagner, 1956)

Mat. (7 exx): Dayr Alla 17.IV.95 (6); Ghawr Kabid 27-28.IV.2000 (9); Wadi as Sir 14.V.93 (1).

Syro-anatolian species already recorded from Jordan (Abu-Obede, Nahr) by DRAPOLYUK (1993).

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

Mat. (16 exx): Ghawr Kabid 27-28.IV.2000 (5), 22.V.95 (16).

Mediterranean, living on *Quercus* spp.; the species is split into three subspecies whose systematic value is uncertain.

**Oncotylus nigricornis* Saunders, 1876

Mat. (4 exx): Ar Rusayfah 22.IV.96 (1); Dayr alla 17.IV.95 (1); Ghawr Kabid 13.IV.98 (1), 6.V.94 (1).

Mediterranean.

**Maurodactylus nigrigenis* (Reuter, 1890)

Mat. (4 exx): Ghawr Kabid 27-28.IV.2000 (1), 6.V.94 (3).

Turanian-S-Mediterranean.

FAM. NABIDAE

Prostemma guttula asiaticum Kerzhner, 1968

Mat. (5 exx): Al Jubayhah 14.II.78 (1), 1.XI.77 (1); Ghawr Kabid 26.X.93 (1); Na'ur 30.V.82 (1); Wadi As Sir 25.X.85 (1).

Turano-euromediterranean, the subsp. *asiaticum* has a SW Asian range; already known from Jordan (KERZHNER 1981)

**Nabis* (s. str.) *pseudoferus orientarius* Remane, 1962

Mat. (3 exx): Al Jubayhah 21.IV.93 (1); Ghawr Kabid 22.IV.96 (1), 24.XI.93 (1).

Syro-anatolian-iranian subspecies of a turano-euromediterranean species.

**Nabis* (*Tropiconabis*) *capsiformis* Germar, 1838

Mat. (3 exx): Al Jubayhah 21.IV.93 (1); Ghawr Kabid 22.IV.96 (1), 27-28.IV.2000 (2), 24.XI.93 (1).

Widely distributed pansubtropical and tropical element.

FAM. ANTHOCORIDAE

**Orius niger* Wolff, 1811

Mat. (1 ex): Ghawr Kabid 6.V.94 (1).

W-Palaeartic.

FAM. REDUVIDAE

**Pakesia linnavuorii* (Dispons, 1962)

Mat. (32 exx): Abu Sido 16.VI.95 (1), 31.VII.95 (8); Al Jubayhah 8.V.82 (1); Dayr Alla 9.V.95 (10); Ghawr Kabid 9.V.95 (4), 3.VII.95 (3), 11.X.95 (1); Wadi Shu'ayb 26.IX.93 (2), 2.IX.93 (2).

Eremian species known from Middle East and Arabian peninsula.

**Oncocephalus obsoletus* (Klug, 1830)

Mat. (1 ex): Al Muwaqqar 8.V.95 (1).

Eremian species known from saharan Africa, Middle East and Arabian peninsula.

- **Oncocephalus thoracicus* Fieber, 1861
 Mat. (1 ex): Ghawr Kabid 20.IV.98 (1), Ghore Kated 10.V.98 (1).
 Syro-anatolian, known also from Bulgaria.
- **Oncocephalus vesceræ* Dispons, 1965
 Mat. (4 exx): Dead Sea Nursary 12.VIII.94 (1); Ghawr Kabid 9.V.95 (1); Jarash 2.IV.84 (1); Wadi Shu'ayb 26.IX.93 (1).
 S-mediterranean, distributed from North Africa to Iran.
- **Holotrichius rotundatus* Stål, 1874
 Mat. (3 exx): As Salt 11.V.98 (1); Ghawr Kabid 18.III.92 (1), 11.V.94 (1).
 Syro-anatolian.
- **Pasira basiptera* Stål, 1859
 Mat. (1 exx): 1 ex unlabelled.
 Turano-mediterranean.
- **Reduvius pallipes* Klug, 1830
 Mat. (2 exx): As Salt 17.IV.94 (1), 18.VIII.93 (1); Wadi Rum, 26.IV.2000 (1).
 S-mediterranean.
- **Reduvius tabidus* Klug, 1830
 Mat. (1 ex): Ajlun 25.V.99 (1).
 Eremian species with a N-African distribution extending to Middle East and southsaharan Africa (Chad, Mauritania, Nigeria, Sudan).
- **Ectomocoris jordanensis* Linnavuori, 1961
 Mat. (2 exx): Ghawr Kabid 8.IX.97 (1), 2.XI.?? (1).
 Originally described as a subsp. of the afrotropical-arabian *E. quadrimaculatus* (Serville, 1831), it was later raised to specific rank; it is endemic to the Jordan valley.
- **Ectomocoris ululans* (Rossi, 1790)
 Mat. (1 ex): Dead Sea Nursary 12.VIII.94 (1).
 Turano-mediterranean.
- **Peirates strepitans* Rambur, 1839
 Mat. (13 exx): Abu Sido 31.VII.95 (1); Dayr Alla 17.IV.95 (2), 9.V.95 (2); Near the Dead Sea 12.VIII.94 (3), 4.IX.94 (1); Ghawr Kabid 9.V.95 (3); Jordan Valley 30.IV.93 (1).
 Afrotropical-mediterranean.
- **Rhaphidosoma lutescens* Poppius, 1911
 Mat. (4 exx): Al Muwaqqar 27.IX.95 (1); Thiban 20.XI.?? (3).
 Species with a restricted syro-arabian distribution.
- **Rhynocoris bipustulatus* (Fieber, 1861)
 Mat. (1 ex): Jarash 17.V.96 (1).
 E-mediterranean element known from Greece, Cyprus, Syria, Palestine and Sinai.

**Rhynocoris iracundus* (Poda, 1761)

Mat. (14 exx): Al Jubayhah 8.IV.93 (1), 13.IV.94 (1), 14.IV.93 (1), 15.IV.90 (1), 3.V.92 (1); Amman 11.IV.96 (1); As Salt 30.III.?? (1), 24.IV.94 (1); Jarash 29.IV.82 (1), 1.V.93 (1); Na'ur 25.III.93 (1), 2.V.83 (1); Tabarbarw 4.IV.95 (1); Wadi as Sir 3.V.93 (1).

Widespread Centralasian-euromediterranean element.

**Coranus griseus* (Rossi, 1790)

Mat. (31 exx): Al Jubayhah 21.IV.93 (1), 22.IV.93 (1), 8.V.82 (1), 20.VI.93 (1), 15.VII.91 (1), 15.X.92 (3), 7.IX.87 (1), 15.X.92 (1), 20.X.95 (1), 17.XI.87 (1); Amman 17.X.85 (1), 19.XI.92 (1), 17.XII.95 (1); As Salt 5.VI.93 (1), 17.IX.96 (1); Ash Shuwbak 10.VIII.83 (1); Az Zarqa' 3.V.93 (1); Dayr Alla 13.XI.92 (1); Ghawr Kabid 9.IV.93 (1), 23.IV.90 (1), 19.V.98 (1), 2.VII.88 (1), 4.X.95 (1), 5.XI.92 (1); Madaba 12.IV.93 (1); Suwaylih 27.X.87 (1); Tila' al Alli 15.X.87 (1); Wadi as Sir 12.IV.93 (1); Wadi Shua'yb 15.III.86 (1).

Turano-euromediterranean.

**Coranus niger* (Rambur, 1840)

Mat. (3 exx): Ghawr Kabid 17.VII.95 (3).

S-mediterranean, living on Chenopodiaceae in moist places. The Jordanian population of this species is characterized by males having the abdomen unicolorous pale red, with the exception of the pygophore which is black; females show the usual coloration. In absence of morphological differences, this is regarded as a simple colour form without systematic value.

**Coranus tuberculifer* Reuter, 1881

Mat. (2 exx): Jubaha 2.V.98 (1); Ghawr Kabid 21.IV.84 (1).

Mediterranean.

FAM. BERYTIDAE

**Berytinus (Lizinus) geniculatus* (Horváth, 1885)

Mat. (1 ex): As Salt 20.I.94 (1).

Euromediterranean.

**Berytinus (Lizinus) montivagus* (Meyer-Dür, 1841)

Mat. (1 ex): Umm Bottma (Al Mafraq) 15.X.93 (1).

Turano-euromediterranean.

FAM. LYGAEIDAE

Lygaeus creticus Lucas, 1854

Mat. (1 ex): Ghawr Kabid : 7.XI.94 (1).

E-mediterranean, living on *Nerium oleander*; already reported from Jordan (Petra, Wadi Mujib, Wadi Husa) by ROYER (1914) and PÉRICART (1998).

**Lygaeus equestris* (Linnaeus, 1758)

Mat. (9 exx): Al Jubayhah 27.III.96 (1), 14.IV.93 (1), 7.IV.90 (1), 12.VII.88 (1), 23.IX.94 (1), 2.X.95 (1); Al Karak 17.XI.95 (1); Ghawr Kabid 1.III.82 (1); Na'ur 25.III.93 (1).

Common and widespread Palaearctic species.

Spilostethus pandurus (Scopoli, 1763)

Mat. (414 exx): Ajlun 20.X.91 (1); Al Baq'ah 2.VII.92 (1), 22.IX.95 (1); Al Bunayyat 23.III.94 (5), 24.III.94 (2), 27.III.94 (2); Al Fuhays 18.III.84 (1); Al Hummar 4.V.93 (1); Al Jubayhah between March and December (72); Al Karak 7.I.97 (1), 31.I.96 (1), 5.III.95 (1), 11.V.96 (1); Al Karamah 12.III.93 (1), 9.XII.93 (1); Al Kufrayn 3.III.95 (1); Al Mafrag 5.XII.93 (1); Al Muqabalayn 1.IV.95 (1); Al Mushaqqar 8.VI.87 (3), 4.V.87 (1); Al Muwaqqar 4.IV.96 (1), 5.V.96 (1); Amman 3.I.95 (1), 11.III.96 (2), 15.III.94 (1), 21.III.97 (1), 1.IV.94 (2), 2.IV.83 (1), 15.IV.96 (1), 26.IV.96 (1), 3.V.96 (2), 3.V.95 (1), 12.V.96 (2); Ar Ramtha 27.IV.87 (1); As Salt 14.II.95 (1), 27.III.?? (2), 5.IV.97 (1), 11.IV.84 (1), 24.IV.94 (3), 4.VII.?? (2), 22.XI.93 (3), 11.XII.?? (1); Ar Rumman 28.IV.97 (2); As Subayhi 20.IV.96 (1); Ayn Al Muallaqah 3.IV.97 (4); As Salt (As Salalem) 18.IX.93 (1); Ayra 21.III.94 (10); Az Zarqa' 10.III.94 (1), 10.IV.97 (3), 11.V.96 (1); Birayn 14.III.97 (3), 3.IV.97 (1); Dayr Alla 10.III.96 (1), 2.V.86 (1), 5.IX.92 (1), 10.XI.94 (1), 17.X.93 (1), 17.X.91 (1); Near the Dead Sea 29.XII.94 (2), 6.XII.93 (1); Ghawr As Safi 30.I.94 (3), 23.VII.89 (1), 6.XI.95 (2), 15.XI.95 (1), 13.XII.94 (15); Jordan Valley 29.III.94 (2), 27.IX.93 (6), 9.XII.95 (1); Ghawr Kabid 3.I.94 (6), 6.I.91 (2), 17.I.78 (1), 17.I.94 (1), 24.I.94 (7), 6.II.94 (3), 7.II.94 (7), 14.II.90 (18), 1.III.82 (1), 2.III.82 (2), 15.III.90 (1), 21.III.96 (2), 4.IV.85 (1), 4.IV.97 (1), ??IV.92 (5), 10-12.XII.95 (3), 18.IV.96 (2), 20.IV.84 (1), 25.IV.96 (1), 1.V.87 (1), 5.XII.95 (28), 26.XI.93 (2), 27.XI.95 (1), 18.XI.93 (3); Irbid 29.III.94 (1), 10.XI.95 (1); Jarash 28.II.88 (1), 3.III.94 (2), 8.III.97 (1), 3.IV.83 (1), 4.IV.85 (1), 8.IV.97 (1), 22.IV.83 (1), 25.IV.85 (1), 27.IV.84 (1), 3.V.85 (1), 4.V.95 (1), 12.V.83 (1), 19.X.95 (1), 4.XI.93 (3), 11.XI.94 (1); Kurayyimah 17.II.94 (1), 27.III.94 (11); Ma'an 24.XI.93 (1); Madaba 13.III.96 (1), 10.X.94 (1), 31.X.94 (4), 11.XI.94 (1); Mahis 16.III.96 (1), 15.IV.95 (1), 7.V.93 (1), 17.V.88 (1); Na'ur 25.III.93 (1); North Shunah 13.II.97 (4), 27.III.97 (1), 14.IV.94 (2); Sabha 1.V.96 (1); Sahab 3.III.96 (1); Sakib 4.V.95 (1); Suwaylih 3.IV.83 (1), 4.IV.84 (1), 15.V.?? (3), 2.VI.85 (1), 6.VIII.86 (1); Wadi Al Yabis 2.X.95 (1), 5.X.93 (1); Wadi As Sir 15.III.97 (8), 26.III.93 (1), 1.V.96 (1), 9.V.95 (1); Wadi Shu'ayb 5.II.90 (12), 21.II.90 (4), 23.II.96 (1), 20.III.86 (1), 15.IV.88 (1), 12.IV.97 (1), ??IV.97 (4), 24.IV.97 (1) 12.X.91 (1), 26.XI.93 (1), 1.XII.93 (1); Yajuz 15.IV.94 (5), 2.X.93 (1); Zayy 20.III.97 (1).

Paleotropical element extending to the ponto-mediterranean region; it is one of the commonest Heteroptera of Jordan, where it occurs everywhere all the year round; already known from Jordan (PÉRICART, 1998).

Spilostethus longulus (Dallas, 1852)

Mat. (7 exx): Al Muwaqqar 19.III.88 (6); Al Jubayhah 24.X.92 (1).

Eremian species with a saharo-sindian range; in Jordan its host plant is *Calotropis procera* Ait; already reported from Jordan (Aqaba) by PÉRICART (1998).

Spilostethus saxatilis (Scopoli, 1763)

Mat. (1 ex): Al Wala 8.IV.82 (1).

Turano-euromediterranean species; already known from Jordan (PÉRICART, 1998).

Apterola kuenckeli rubicunda Stål, 1872

Mat. (4 exx): North Shunah 20.III.97 (1); Zayy 22.VIII.93 (1); Wadi as Sir 27.XII.96 (2).

Mediterranean species living in xerothermic biotopes; already known from Jordan (PÉRICART, 1998).

**Lygaeosoma sardeum* Spinola, 1837

Mat. (1 ex): As Salt 30.V.93 (1).

Turano-euromediterranean.

Caenocoris nerii (Germar, 1847)

Mat. (10 exx): As Sukhnah 27.II.94 (4); Ash Shawbak 16.XII.98 (2); Ghawr Kabid 7.XI.94 (1).

Paleotropical-S-mediterranean species living on *Nerium oleander*; already known from Jordan (PÉRICART, 1998)

Orsillus maculatus (Fieber, 1861)

Mat. (20 exx): Al Jubayhah 10.III.96 (1), 2.IV.82 (1), 4.IV.93 (1), 10.VII.94 (2), 4.X.92 (1), 28.X.93 (1), 3.XI.93 (1), 28.XI.92 (1), 21.XII.95 (1); Amman 5.III.96 (1), 24.IV.92 (1); Near the Dead Sea 4.IX.94 (1); Dibbin 22.IV.82 (1); Ghawr Kabid 15.X.87 (1); Tabarbawr 8.III.93 (1); Umm Bottma (Mafraq) 4.XI.93 (1); Wadi as Sir 4.V.93 (1); 23.X.?? (1), 2.XII.96 (1).

N-mediterranean element distributed between S-Spain and the Palestinian region; already known from Jordan (PÉRICART, 1998).

Camptocoris longicornis (Puton, 1874)

Mat. (2 exx): Al Karamah 2.XII.93 (1); Ghawr Kabid 6.V.94 (1).

Eremitic species with a saharo-sindian distribution; already known from Jordan (PÉRICART, 1998).

**Nysius cymoides* (Spinola, 1829).

Mat. (54 exx): Ajlun 11.X.95 (1); Al Jubayhah 15.III.93 (1), 16.III.93 (3), 25.IV.93 (17), 4.V.93 (1), 5.V.93 (1), 7.V.93 (2), 8.V.93 (1), 28.VI.94 (2), 12.VIII.87 (1), 19.IX.93 (2), 20.IX.93 (1), 27.IX.95 (1), 20.X.95 (3), 19.X.92 (1), 21.XI.92 (1); Al Karamah 2.XII.93 (1); As Salt 22.IX.93 (4); As Salt (As Salalem) 10.IX.93 (1); Az Zarqa' 13.X.95 (1); Ghawr As Safi 4.XI.92 (1); Ghawr Kabid 27-28.IV.2000 (1), 6.V.94 (3), 6.XII.93 (3); Wadi Shu'ayb 9.V.93 (1).

Turano-mediterranean.

Engistus exsanguis Stål, 1872

Mat. (3 exx): As Simakiyah 14.X.93 (2); Ghawr Kabid 6.XII.93 (1).

Saharo-sindian species living on Chenopodiaceae; already known from Jordan (PÉRICART, 1998).

**Geocoris* (s. str.) *megacephalus* (Rossi, 1790)

Mat. (8 exx): Al Jubayhah 27.X.92 (1), 25.XI.93 (2); Ghawr Kabid 25.XI.93 (1); Irbid 18.XI.93 (2); Tabarbawr 13.XI.92 (2).

Turano-mediterranean extending to the Afrotropical region.

**Geocoris* (*s. str.*) *ater* (Fabricius, 1780)

Mat. (5 exx): Al Jubayhah 22.X.93 (1), 25.XI.93 (2), 22.XII.93 (1); Ghawr Kabid 25.XI.93 (1).

Centroasiatic-euromediterranean.

Geocoris (*s. str.*) *phaeopterus* (Germar, 1837)

Mat. (1 ex): Ghawr Kabid 6.V.94 (1).

Saharo-sindian; already known from Jordan (PÉRICART, 1998).

Geocoris (*Eilatus*) *chloroticus* Puton, 1888

Mat. (4 exx): Ghawr Kabid 6.V.94 (4).

Saharo-sindian; already known from Jordan (PÉRICART, 1998).

**Stenophthalmicus fajoumensis* Costa, 1875

Mat. (1 ex): Ghawr Kabid 17.VII.95 (1).

Xerophilous S-mediterranean species whose distribution extends to Sudan.

Heterogaster urticae (Fabricius, 1775)

Mat. (3 exx): Ar Ramtha 26.IX.93 (1); Ghawr Kabid 26.XI.93 (1); Wadi Shu'ayb 24.IV.94 (1).

Turano-euromediterranean; already known from Jordan (PÉRICART, 1998).

Oxycarenus (*s. str.*) *hyalinipennis* (A. Costa, 1847)

Mat. (80 exx): Amman 8.XII.93 (40); Al Balqa' 24.X.97 (1); Al Jubayhah 27.IX.95 (3), 8.XII.93 (1); Ghawr Kabid 8.IV.94 (25), 7.V.94 (9), 7.V.94 (1).

Pantropical element extending to the Mediterranean region; already known from Jordan (PÉRICART, 1998).

Leptodemus minutus (Jakovlev, 1876)

Mat. (3 exx): Ghawr Kabid 6.V.94 (3).

Turanian-S-mediterranean and saharo-sindian; already known from Jordan (PÉRICART, 1998).

**Scolopostethus pictus* (Schilling, 1829)

Mat. (1 ex): Wadi as Sir 18.XI.96 (1).

Eurosiberian extending to Middle East.

**Lethaeus picipes* (Herrich-Schaeffer, 1850)

Mat. (1 ex): As Subayhi 20.IV.96 (1).

Turano-E-mediterranean.

Lethaeus cribratissimus (Stål, 1858)

Mat. (10 exx): Al Jubayhah 12.IX.93 (2); 12.X.93 (1), 22.XI.93 (1), 25.XI.93 (1); As Salt 20.I.94 (1); As Salalem (As Salt) 3.IX.93 (1); Ghawr Kabid 27.IX.93 (1); North Shunah 20.III.97 (1); Wadi As Sir 1.V.96 (1).

E-mediterranean; already known from Jordan (PÉRICART, 1998).

**Lethaeus fulvovarius* Puton, 1884

Mat. (9 exx): Al Jubayhah 30.XI.92 (1); Near the Dead Sea 12.VII.94 (4), 4.IX.94 (1); Ghawr as Safi 15.XII.95 (2); Ghawr Kabid 3.VII.95 (1).

Saharo-sindian extending to the Afrotropical region.

Camptocera glaberrima (Walker, 1872)

Mat. (1 exx): Ghawr Kabid 6.XII.93 (1).

Paleotropical with a wide mediterranean range; already known from Jordan (PÉRICART, 1998).

Ischnopeza pallipes Puton, 1892

Mat. (10 exx): Al Jubayhah 30.XI.92 (1), 25.XI.93 (3), 30.XI.97 (1); Ar Ramtha 18.XI.93 (2); As Salt 30.IV.93 (1), 13.VIII.93 (1); Ghawr Kabid 4.XII.96 (1).

E-mediterranean.

Emblethis sp.

Mat. (7 exx): Al Jubayhah 20.X.95 (1), 10.XI.92 (1); Amman 13.XI.?? (1); As Salt 7.X.96 (1); Ghawr Kabid 13.IV.?? (1), 4.XII.96 (1); Tabarbawr 13.XI.92 (1).

The availability of females only did not allow a reliable specific identification of the representatives of this difficult genus.

Aphanus rolandri (Linnaeus, 1758)

Mat. (2 exx): As Salt 1.VII.93 (1); Az Zarqa' 6.V.93 (1).

Euromediterranean; already known from Jordan (PÉRICART, 1998).

**Lamprodema maurum* (Fabricius, 1803)

Mat. (1 ex): Abd al Hafiz Farm (Balqa') 15.V.95 (1).

Turano-mediterranean.

**Megalonotus maximus* (Puton, 1895)

Mat. (1 ex): 1 ex unlabelled.

E-mediterranean.

**Beosus quadripunctatus* (Müller, 1766)

Mat. (10 exx): Al Jubayhah 25.XI.93 (5); Amman 20.VIII.93 (2); Ghawr Kabid 26.VII.94 (1), 20.XI.?? (1); As sarw Univ. 26.VII.94 (1).

Turano-mediterranean.

Dieuches syriacus Dohrn, 1860

Mat. (12 exx): Abu Sido 23.X.95 (3); Al Jubayhah 8.V.82 (1); Al Karak 14.X.93 (1); As Salt 2.X.96 (1); As Salt (as Salalem) 10.IX.93 (1). Dayr Alla 15.XI.92 (1), 30.XI.92 (1); Ghawr as Safi 30.I.94 (1); Ghawr Kabid 4.X.93 (1); Jarash 3.V.85 (1).

Saharo-sindian element distributed from Tunisia to Pakistan; already known from Jordan (PÉRICART, 1998).

Aellopus atratus (Goeze, 1778)

Mat. (5 exx): Al Jubayhah 20.III.93 (1); As Salt 30.IV.93 (2), 5.VI.93 (1); Zayy 4.III.93 (1).

Turano-euromediterranean.

FAM. PYRRHOCORIDAE

**Pyrrhocoris apterus* (Linnaeus, 1758)

Mat. (6 exx): Al Jubayhaha 16.XII.87 (1); As Salt 22.XI.96 (1); Az Zarqa' 25.IV.96 (1); Ghawr Kabid 13.IV.?? (1); Jordan Valley 23.X.95 (1); Tila' Al Ali 21.IX.87 (1).

Common and widespread centralasian-euromediterranean element.

Scantius aegyptius aegyptius (Linnaeus, 1758)

Mat. (31 exx): Al Jubayhah 5.III.89 (1), 20.VII.87 (2); Amman 5.X.95 (7); As Salt 20.II.96 (15); Az Zarqa' 4.X.92 (1); Ghawr Kabid 20.XII.93 (1); Irbid (Hwarah) 15.XI.95 (3); Jarash 11.VII.?? (1).

Turano-mediterranean species split into two subspecies: *S. a. rossii* in the northern part of its range and *S. a. aegyptius* in the southern one; already known from Jordan (CARAPEZZA et al. 1999)

FAM. STENOCEPHALIDAE

**Dicranocephalus agilis* (Scopoli, 1763)

Mat. (5 exx): Amman 7.III.96 (1), 30.IX.93 (1); Az Zarqa' 24.X.95 (1); Sakib 4.V.95 (1); Wadi As Sir 11.V.94 (1).

Palaeartic species extending to the Indian subcontinent.

**Dicranocephalus marginatus* (Ferrari, 1874)

Mat. (1 exx): Al Jubayhah 15.V.?? (1).

Irano-turanian.

FAM. COREIDAE

**Gonocerus acuteangulatus* (Goeze, 1778)

Mat. (1 ex): Ar Rumaymin 17.IV.86 (1).

Turano-mediterranean.

**Enoplops disciger* (Kolenati, 1845)

Mat. (81 exx): Al Baqa'h 26.IV.93 (1); Al Jubayhah 12.II.?? (1), 19.III.?? (1), 20.III.95 (1), 21.III.84 (1), 30.III.93 (1), 11.IV.93 (1), 15.IV.90 (1), 23.IV.93 (1), ??V.93 (1); Al Karamah 12.III.93 (2); Amman 3.IV.?? (1); Ar Rusayfah 25.II.93 (1); As Salt 26.III.93 (1), 23.IV.93 (1), 24.IV.94 (1); Dayr Alla 5.I.81 (2), 24.I.81 (1); Ghawr Kabid 5.I.81 (2), 21.I.94 (1), 24.I.81 (1), 7.II.94 (14), 7.II.90 (11), 8.II.82 (1), 18.II.81 (1), 2.III.82 (1), 12.III.88 (3), 30.III.93 (1), 12.IV.?? (1), 12.IV.93 (1), 15.V.93 (1); Kurayyimah 27.III.94 (1); Na'ur 25.III.93 (2); North Shunah 14.IV.94 (1); Tilla' Al Ali May 93 (1); Wadi as Sir 25.III.93 (1), 26.III.93 (2), 11.V.93 (3), 26.V.93 (2); Wadi Shua'yb 12.II.90 (5); Yajus 1.III.96 (1); Zayy 4.III.93 (1), 22.VIII.93 (1), 15.X.93 (1).

E-mediterranean.

**Centrocoris spiniger* (Fabricius, 1781)

Mat. (11 exx): Abu Alandah 5.XI.93 (1); Al Jubayhah 15.IV.90 (2), 20.IV.91 (1), 30.XI.93 (1); Al Mastabah 9.X.95 (1); Al Yazeydiah 10.IV.93 (2); As Salt (as Salalem) 12.IX.93 (1); Barqah 22.IV.82 (1); Jarash 25.IV.?? (1).

Mediterranean.

- **Centrocoris variegatus* Kolenati, 1845
Mat. (2 exx): Jordan Valley 4.X.95 (1); Zayy 5.III.93 (1).
Mediterranean.
- **Phyllomorpha laciniata* (Villers, 1789)
Mat. (2 exx): Amman 10.IV.88 (1), 19.V.82 (1).
Mediterranean.
- **Phyllomorpha lacerata* Herrich-Schaeffer, 1835
Mat. (7 exx): Al Jubayhah 1.VIII.87 (2); Amman 9.IV.82 (1), 16.IV.93 (1), 2.X.86 (1); Jarash 10.VII.98 (1); Na'ur 30.V.82 (1).
E-mediterranean-iranian.
- **Arenocoris waltli* (Herrich-Schaeffer, 1794)
Mat. (1 ex): Dibbin 7.V.92 (1).
Palaeartic.
- **Coriomeris hirticornis* (Fabricius, 1794)
Mat. (2 exx): Al Jubayhah 21.IV.90 (1), 17.IX.85 (1).
Palaeartic.

FAM. ALYDIDAE

- **Camptopus lateralis* (Germar, 1817)
Mat. (6 exx): Al Jubayhah 10.IV.85 (1), 7.IX.87 (1), 9.IX.87 (1), 29.IX.87 (1); Tila' al Alli 21.IX.87 (1), 15.X.87 (1).
Widespread turano-mediterranean element.

FAM. RHOPALIDAE

- **Corizus hyoscyami* (Linnaeus, 1758)
Mat. (5 exx): Al Baqa'h 6.VII.83 (1); Al Jubayhah 3.V.92 (1), 9.IX.87 (1), 12.IX.87 (1), 22.IX.87 (1).
Common and widespread Palaeartic species.
- **Liorhyssus hyalinus* (Fabricius, 1794)
Mat. (45 exx): Al Azraq 9.IV.74 (2); Al Baqa'h 7.X.95 (1); Al Jubayhah 8.V.82 (1), 19.X.92 (1), 15.X.93 (1), 7.II.94 (1), 11.V.94 (1), 31.V.94 (1), 26.VI.93 (2), 29.VI.93 (1); Amman 11.IV.96 (1); Ar Rusayfah 22.IV.96 (5); As Salt : 4.IV.94 (1); Birayn 5.III.93 (1), 14.III.97 (1); Dhulayl 25.X.93 (3); Ghawr Kabid 13.IV.98 (1), 18.IV.98 (9), 27-28.IV.2000 (1), 9.V.96 (2), 17.VII.95 (5), 1.IX.94 (1); Marsa' 22.IV.?? (1); North Shunah 27.III.97 (1); Suwaylih 4.X.?? (1).
Cosmopolitan.
- **Brachycarenum tigrinus* (Schilling, 1829)
Mat. (10 exx): Al Jubayhah 12.III.90 (1), 22.III.87 (1), 28.V.94 (1); Al Kafrayn 33.III.95 (1); Amman 25.X.95 (1); Ar Rusayfah 22.IV.96 (2); Suwaylih 25.IV.93 (1); Umm Qays 26.VI.94 (1); Wadi as Sir 14.X.93 (1).
Holarctic.

**Stictopleurus pictus* (Fieber, 1861)

Mat. (1 ex): As Salt 2.X.96 (1).

Mediterranean.

**Stictopleurus ribauti* Vidal, 1952

Mat. (4 exx): Al Jubayhah 6.VIII.90 (1), 18.IX.89 (1); Ghawr Kabid 18.IV.98 (1); As Salt 4.IV.99 (1).

Eremian species known from Southern Spain, N-Africa, Saudi Arabia and Middle East.

**Maccevethus errans caucasicus* (Kolenati, 1845)

Mat. (30 exx): Al Bahhath 11.XI.92 (1); Al Jubayhah 16.III.81 (1), 7.IV.93 (1), 13.V.91 (1), 14.IV.97 (1), 6.VI.93 (1), 20.VI.93 (1), 26.VI.93 (2), 28.VI.94 (3), 10.VII.88 (2), 11.VII.94 (1), 21.VII.91 (1), 17.X.90 (1), 19.X.92 (2), 25.IX.77 (1), 28.IX.87 (1), 18.XI.93 (1); Al Karak : 13.XI.93 (1); Al Muqabalayn 30.III.95 (1); Ar Ramtha 26.VI.93 (1); Az Zarqa' 2.VII.85 (1); Iraq al Amer 10.IV.93 (1); Jarash 6.II.97 (1); Ma'yn 3.IV.93 (1); Suwaylih 29.IV.84 (1).

The species has a turano-mediterranean range; the typical subspecies is restricted to Spain and N-Africa (KERZHNER, 1998).

FAM. CYDNIDAE

**Fromundus pygmaeus* (Dallas, 1851)

Mat. (157 exx): Ar Rusayfah 3.IV.96 (1), 20.IV.96 (2); Dayr Alla 19.VI.95 (25), 28.IX.95 (12); Ghawr Kabid 22- 29.IV.95 (8), 19.VI.95 (90); Jordan Valley 23.X.95 (9); Kurayyimah 22.X.93 (9); Madaba 31.X.94 (1).

This species, very common and widespread in the whole Oriental region, is recorded also from Korea, Japan, the Australian region, some Pacific islands, Saudi Arabia, Iraq and Cyprus.

**Sebirus cypriacus* (Dohrn, 1860)

Mat. (11 exx): Al Bunayyat 23.VII.94 (1); Al Jubayhah 18.III.96 (1), 20.III.?? (1), 27.III.97 (2), 12.IV.97 (1), As Salt 24.IV.94 (1); Ghawr Kabid 4.X.95 (1); Wadi As Sir 15.IV.93 (1); Zayy 20.III.97 (1), 26.II.93 (1).

E-mediterranean (Anatolia, Syria, Cyprus).

**Sebirus melanopterus* (Herrich-Schaeffer, 1835)

Mat. (35 exx): Al Jubayhah 15.II.93 (2), 28.II.95 (1), 1.III.93 (6), 5.III.96 (1), 6.III.93 (1), 7.IV.93 (1), 8.IV.93 (1), 15.IV.93 (1), 15.IV.95 (1), 23.IV.96 (1), 23.IV.93 (1), ??V.93 (1), 15.V.78 (1), 9.VII.94 (1); Al Mushaqqar 8.VI.87 (1); An Nu'ayyimah 22.VI.85 (1); Ar Rusayfah 3.IV.96 (1); As Salt 3.III.?? (2); Ghawr Kabid 19.III.96 (1), 5.XI.92 (1); Hawwarah 22.XII.95 (2); North Shunah 14.IV.94 (1); Sahab 5.V.93 (1); Tabarbawr 4.IV.93 (1); Wadi al Yabis 5.X.95 (1); Wadi as Sir 26.III.93 (1), 26.IV.93 (1).

Euromediterranean-iranian.

**Byrsinus pilosulus* (Klug, 1845)

Mat. (2 exx): Al Jubayhah ??XI.98 (2).

Turano-mediterranean.

**Aethus pilosus* (Herrich-Schaeffer, 1834)

Mat. (8 exx): Al Jubayhah : 2.I.91 (1), 6.III.93 (2), 21.VI.84 (1), 12.VII.93 (1); 25.IV.94 (2); As Salt (As Salalem)10.IX.93 (1); Muzayrib 3.IV.96 (1); Wadi As Sir 16.XI.93 (1).

Turano-mediterranean.

**Macroscytus brunneus* (Fabricius, 1803)

Mat. (7 exx): Al Jubayhah 6.III.93 (1); Amman 24.II.93 (1); Ar Rusayfah 3.IV.96 (1), 20.IV.96 (1); Ghawr Kabid 15.X.95 (1), 23.X.95 (2).

Paleotropical, with a wide S-Palaeartic range.

**Cydnus aterrimus* (Forster, 1771)

Mat. (6 exx): Al Jubayhah 5.III.95 (1), 15.III.93 (1); Amman 20.III.96 (1); Ghawr Kabid 21.III.95 (1); Jarash 7.V.84 (1); Zayy 20.III.97 (1).

Subcosmopolitan.

FAM. SCUTELLERIDAE

**Solenosthedium ledereri* (Fieber, 1861)

Mat. (1 ex): Ghawr Kabid 25.X.95 (1).

Syro-anatolian element known from Turkey, Cyprus, Syria and Palestine.

**Odontotarsus freyi* Puton, 1882

Mat. (3 exx): Al Jubayhah 10.V.96 (1); Jarash 2.V.96 (1); North Shuna 14.IV.94 (1).

S-mediterranean (Spain, North Africa, Middle East).

**Odontotarsus purpureolineatus* (Rossi, 1790)

Mat. (1 ex): Al Jubayhah 1.V.85 (1).

N-mediterranean, extending from Spain to Syria.

**Odontotarsus rufescens* Fieber, 1861

Mat. (1 ex): Amman 3.X.97 (1).

E-mediterranean species living on *Centaurea* sp.

**Psacasta exanthematica* (Scopoli, 1763)

Mat. (15 exx): Al Jubayhah 2.V.84 (1), 10.VI.7 (1); As Salt 24.IV.94 (10), 26.V.93 (1); Az Zarqa' 27.IV.95 (1); Jarash 22.IV.83 (1).

Turano-euromediterranean species, presently split into several subspecies whose systematic value is uncertain.

**Eurygaster integriceps* Puton, 1881

Mat. (10 exx): Al Jubayhah 2.IV.92 (1), 12.IV.97 (1), 7.V.97 (1), 13.XI.85 (1); Amman 17.V.81 (1), 9.VII.92 (1), 20.X.95 (1); Ghawr Kabid 20.III.93 (1); North Shunah 14.IV.94 (1); Tabarbawr 24.III.93 (1).

E-mediterranean-turanian.

FAM. PENTATOMIDAE

**Coridius viduatus* (Fabricius, 1794)

Mat. (1 exx): Ghawr as Safi 17.XII.78 (1).

Afrotropical extending to Middle East; the species lives on *Citrullus* spp.

**Phyllocephala negus* (Distant, 1900) (= *albicornis* Horváth, 1911)

Mat. (3 exx): Al Baqa'h 4.III.84 (3).

Eremian species with a reduced saharo-sindian distribution, extending from Egypt and Palestine to Pakistan

Ventocoris achivus Horváth, 1889

Mat. (9 exx): Al Mafraq 22.VIII.95 (1); Ar Rumman 22.IV.83 (1); As Salt 23.I.95 (1); Muthalath al Masry 4.III.82 (1), 16.III.82 (1), 16.V.82 (2); Wadi Shu'ayb 10.IV.97 (1), 24.IV.96 (1).

E-mediterranean, whose distribution extends between Greece and Middle East; already known from Jordan (JOSIFOV, 1969).

**Mecidea lindbergi* Wagner, 1954

Mat. (1 ex): Amman 20.IV.98 (1).

Eremian species living on Poaceae in sandy habitats, distributed from Capo Verde and Canary islands to Baluchistan.

Mustha morgani Horváth, 1906

Mat. (1 ex): Wadi Rum 8.III.2000 (1).

Eremian species living on *Anabasis articulata*, known from Egypt, southern Palestine, Jordan and Iran (LINNAVUORI, 1986).

**Dryoderes umbraculatus* (Fabricius, 1775)

Mat. (1 ex): Birayn 5.III.93 (1).

Mediterranean.

**Aelia acuminata* (Linnaeus, 1758)

Mat. (8 exx): Al Jubayhah 10.II.93 (1), 27.II.92 (1), 21.III.87 (2), 4.IV.88 (1), 4.V.96 (1), 31.VII.90 (1); Al Karammah 2.X.95 (1); As Salt (As Salalem) 4.VIII.93 (1); Dayr Alla 28.VIII.?? (1);

Widespread and common Palaearctic element.

**Aeliomorpha sheanensis* Linnavuori, 1965

Mat. (2 exx): Al Jubayhah 9.X.94 (2).

Apparently an endemic element (Palestine, Iraq) with oriental affinities; it is in fact very similar to *A. lineaticollis* (Westwood) from India. LINNAVUORI (1960, 1965, 1993) collected it on Cyperaceae in moist places.

**Eysarcoris ventralis* (Westwood, 1837)

Mat. (17 exx): Al Jubayhah 26.XI.93 (1); 15.XII.93 (1); Al Yadowdah 11.IX.93 (2); Ar Ramthah 19.XI.9 (1); Baq'ah 28.IX.95 (1); Dayr Alla 20.XI.92 (1); Ghawr Kabid 3.VII.95 (1), 17.VII.95 (1), 1.IX.97 (5); Umm Bottma 16.XII.93 (1); Wadi Shu'ayb 26.IX.93 (2).

Paleotropical, widely distributed in the southern Palaearctic region.

**Staria lunata* Hahn, 1835

Mat. (1 ex): As Salt (as Salalem) 8.IX.93 (1).

Mediterranean.

**Holcostethus vernalis* (Wolff, 1804)

Mat. (11 exx): Al Jubayhah 20.II.90 (1), 21.III.89 (1), 8.IV.92 (1), 29.V.74 (1), 7.IX.87 (1); Amman 29.XII.96 (1); Az Zarqa' 15.X.?? (1); Ghawr Kabid 21.II.94 (1); Irbid 20.IV.92 (1); Tabarbowr 29.IV.93 (1); Wadi as Sir 9.V.84 (1).

Palaeartic.

**Carpocoris coreanus* Distant, 1899

Mat. (25 exx): Al Jubayhah 24.III.93 (1), 7.IV.?? (1), 6.VI.88 (1), 6.VI.93 (1), 28.VI.94 (1), 2.VII.94 (1), 22.VII.92 (1), 25.VII.93 (1), 3.VIII.87 (1), 7.IX.87 (1), 20.IX.87 (1), 2.X.90 (1), 22.X.92 (1), 1995 (2); Ar Rumaymin 6.VI.94 (1); Az Zarqa 21.IV.92 (1); Dayr Alla 2.V.86 (1); Ghawr Kabid 1.III.93 (1), 1.IV.94 (1), 15.V.93 (1), 2.X.91 (1); Madaba 2.IX.90 (2); Umm al Jimal 5.XI.92 (1).

Irano-turanian, widely distributed from Middle East to Turkmenistan and Korea.

**Carpocoris mediterraneus mediterraneus* Tamanini, 1958

Mat. exam. (2 exx): Ghawr Kabid 8.II.82 (1); ??? 1-2.V.92 (1).

Mediterranean-turanian extending to Eritrea.

**Codophila maculicollis* (Dallas, 1851)

Mat. (8 exx): Ghawr Kabid 8.II.82 (1), 24.IX.95 (1), 1.X.95 (1), 32.X.97 (1), 5.XII.95 (1), 21.XII.95 (1), 23.XII.95 (1); Wadi Shua'yb 9.V.97 (1).

Eremitic species with a Saharo-sindian range extending from North Africa to Northern India.

**Codophila varia* (Fabricius, 1787)

Mat. (30 exx): Abu Alandah 21.III.93 (2); Abu Sido 6.X.93 (1); Al Jubayhah 20.II.93 (1), 25.II.93 (1), 17.III.81 (2), 28.III.88 (1), 10.VII.88 (1), 7.IX.87 (1), 20.IX.87 (1), 26.IX.87 (7), 17.X.90 (1); Amman 12.III.93 (1); Anjarah 26.IV.93 (1); Az Zlayl 29.X.92 (1); Ar Rumman 6.VI.88 (1); Ghawr Kabid 2.III.82 (1), 24.III.93 (1), 15.X.95 (1); Kurayyimah 27.II.94 (1), 14.IV.94 (1); Wadi as Sir 27.IX.84 (2).

Turano-mediterranean.

**Dolycoris baccarum* (Linnaeus, 1758)

Mat. exam. (54 exx): Ajlun 10.VII.87 (1), 12.VII.87 (1); Al Jubayhah 10.III.90 (1), 10.III.97 (1), 12.III.90 (2), 21.III.79 (1), 21.III.89 (1), 22.III.89 (1), 27.III.?? (1), 27.III.97 (1), 2.IV.94 (1), 4.IV.83 (2), 20.IV.93 (1), 22.IV.97 (1), 24.IV.94 (1), 24.IV.96 (1), 7.V.85 (1), 8.V.88 (1), 11.V.94 (1), 31.V.94 (1), 6.VI.90 (1), 9.VI.93 (1), 12.VI.94 (1), 28.VI.94 (1), 1.VII.91 (2), 2.VII.94 (1), 11.VII.94 (1), 12.VII.88 (1), 15.VII.91 (1), 21.VII.91 (1), 26.VII.92 (1), 7.X.88 (1), 10.X.86 (1), 15.X.92 (1), 12.IX.90 (6), 12.IX.92 (1), 27.IX.92 (1), 27.IX.87 (1), 2.XI.91 (1), 12.XII.95 (1), 14.XII.94 (1); Amman 13.III.96 (1), 4.IV.90 (1), 15.V.85 (1), 16.X.87 (1); Ar Rumaymin 4.V.93 (1); As Salt 23.V.93 (1), 1.VI.93 (1), 5.VI.93 (1), 1.VIII.93 (1); Baqa'h 28.IX.95 (1); Dibbin 1.V.93 (1); Ghawr Kabid 17.I.94 (1), 7.II.94 (2), 8.II.82 (1), 18.II.81 (1), 1.III.82 (1), 2.III.82 (4), 5.III.93 (1), 15.III.86 (1), 20.III.86 (1), 21.III.96 (1), 2.IV.92 (1), 15.IV.?? (1), 21.IV.83 (1), 25.IV.82 (1), 5.V.82 (1), 7.V.86 (1), 20.V.82 (1), 2.VII.94 (1); Irbid 15.X.?? (1); Jarash 14.IV.94 (1), 7.III.90 (1); Madaba 2.IX.90 (9); Mahis 3.V.91 (1); Muthalath al Masry 20.III.82 (6); North Marka 22.X.87 (1); North Shunah 22.III.93 (1), 14.IV.94 (3); Tabarbowr 18.III.93 (1); Wadi Shu'ayb 9.V.97 (1); Yajuz 11.X.86 (1).

Widespread Palaeartic-Indian element.

**Croantha ornatula* (Herrich-Schaeffer, 1842)

Mat. (21 exx): Al Baq'ah 28.IX.95 (1); Al Muwaqqar 8.V.96 (2); As Salt 5.V.95 (1); As Salt (as Salalem) 12.VI.93 (1); Az Zarqa 4.V.96 (1), 11.V.96 (1), 17.V.88 (1); Dayr Alla 10.IV.96 (1); Ghawr Kabid 20.IV.98 (4), 27.IV.92 (1), 4.X.95 (1); Madaba 2.III.96 (1); Marka 5.V.96 (1); Safut 3.V.96 (1); Shafa Badran 6.III.96 (1), 3.V.96 (2).

Turano-mediterranean species living on Chenopodiaceae.

**Brachynema germarii* (Kolenati, 1846).

Mat. (16 exx): Abu Nusayr 15.XI.92 (1); Al Hashimiyah 19.IV.92 (1); Al Jubayhah 14.III.97 (1), 22.III.93 (1); Al Mushaqqar 7.XI.91 (6); Az Zarqa' 20.IV.92 (1); Dayr Alla 19.VI.95 (2); Jordan Valley 17.IV.93 (1); North Shunah 14.IV.94 (1); Wadi Shua'yb 28.III.93 (1).

Centralasian-mediterranean species distributed in steppic biotopes from the Canary islands to Mongolia.

**Stenozygum coloratum* (Klug, 1845)

Mat. (35 exx): Abu Sido 25.IX.95 (1); Al Baqa'h 28.IX.95 (2); Al Jubayhah 27.III.90 (1); Al Khirbah as Samrah 2.VIII.94 (1); Amman 1.X.95 (1), 27.IX.94 (1); Ar Rumman 2.X.95 (1); As Salt 25.IX.96 (1), 29.IX.87 (1), 4.X.87 (1), 9.X.97 (1), 12.X.?? (1), 19.X.97 (1); As Subayhi 20.IV.96 (1); Ghawr Kabid October (1), 29.X.87 (1), 3.XI.97 (7); Irbid 15.VIII.95 (1); Na'ur 2.X.87 (1), 11.X.95 (2); Umm Qays 26.IV.94 (1); Wadi as Sir 29.IV.95 (1), 28.IX.95 (3); Wadi Shu'ayb 4.X.95 (1), 11.X.95 (1).

E-mediterranean, extending to Iran and Eritrea.

**Eurydema ornatum* (Linnaeus, 1758)

Mat. (168 exx): Abu Nusayr 6.IV.93 (1); Abu Sido 6.X.93 (1); Ajlun 9.V.96 (2); Al Aridah 15.III.86 (1), 3.IV.79 (1); Al Baq'ah 6.III.88 (1), 6.V.93 (1); Al Baqurah 15.VII.95 (2); Al Bunayyat 23.III.94 (11), 24.III.94 (4), 27.III.94 (4); Al Fuhays 20.IV.84 (1), 1.V.84 (1), 11.V.84 (1); Al Jubayhah 12.II.93 (1), 15.II.92 (1), 20.II.93 (2), 28.II.93 (5), 28.II.?? (1), 3.III.96 (3), 10.III.96 (1), 13.III.97 (1), 17.III.96 (4), 17.III.81 (1), 20.III.97 (2), 20.III.96 (1), 21.III.89 (12), 26.III.94 (4), 27.III.96 (1), 28.III.88 (3), 30.III.93 (1), 1.V.93 (1), 1.IV.93 (1), 4.IV.88 (5), 7.IV.93 (1), 10.IV.93 (1), 21.IV.90 (1), 5.IV.93 (3), 13.IV.93 (6), 13.IV.97 (2), 14.IV.90 (1), 15.IV.93 (4), 16.IV.93 (1), 22.IV.93 (1), 25.IV.93 (1), 25.IV.84 (2), 26.IV.93 (1), 4.V.96 (1), 6.V.96 (1), 8.V.96 (1), 8.V.89 (1), 13.V.91 (1), 28.V.94 (1), 30.V.85 (1), 31.V.94 (1), 6.VI.93 (2), 7.VI.93 (1), 16.VI.90 (1), 21.VI.84 (3), 20.VIII.94 (1), 13.IX.87 (1), 13.IX.97 (1), 30.IX.87 (1), 5.X.86 (1), 15.X.93 (1); Al Karak 10.IV.96 (1), 11.IV.96 (1), 12.IV.96 (1); Al Mashari'a 14.IV.94 (1); Amman 11.III.96 (1), 10.IV.?? (1), 16.IV.97 (2), 2.X.95 (1); Anjarah 26.IV.93 (6); As Salt 19.II.93 (1), 25.II.?? (1), 1.IV.93 (1), 5.IV.94 (2), 24.IV.94 (1); As Salt 5.IV.94 (1); Az Zarqa' 24.X.95 (1); Biyran 30.XI.93 (1); Dhulayl 31.III.93 (1); Dayr Alla 2.V.86 (1); Gawr as Safi 20.III.93 (1); Ghawr Kabid 7.II.94 (6), 11.III.93 (1), 12.III.96 (2), 21.III.96 (2), 3.V.96 (2); Jarash 2.V.84 (1), 9.XII.87 (1), 28.II.88 (1); Jordan Valley : 29.IV.94 (1); Kurayyimah 27.III.94 (4); Na'ur 25.III.93 (2); Sahab 21.II.96 (1), 4.III.96 (1), 28.III.90 (1); Shafa Badran 3.V.96 (5), 14.V.96 (1); Suwaylih 22.IV.93 (1); Tabarbar 4.IV.93 (1), 4.X.85 (1); Tila' Al Ali ?? .III.93 (1); 14.VI.89 (1); Wadi as Sir 12.IV.93 (1), 26.IV.93 (1), 15.X.95 (1); Wadi Shua'yb 20.III.86 (1); Yajus 28.III.95 (1); 5.IV.94 (1).

Palearctic.

**Eurydema rugulosum* (Dohrn, 1860)

Mat. (31 exx): Al Baqa'h 5.V.93 (1); Al Jubayhah ?? .III.93 (1), 1.IV.93 (1), 10.IV.96 (1), 12.IV.93 (1); Al Quwasimah 20.IV.93 (1); Al Yazidiyah 10.IV.93 (1); Amman

28.II.82 (1); As Salt 21.III.94 (2), 20.IV.93 (1), 24.IV.94 (6); Jarash 4.IV.93 (1), 29.IV.93 (1); Jordan Valley 25.III.93 (1), 29.III.94 (2); Kurayyimah 27.III.94 (3); Suwaylih 29.IV.84 (1); Umm Qays 1.IV.95 (1); Wadi as Sir 26.IV.93 (1); Yajuz 25.IV.94 (3).

E-mediterranean, with a wide range in NE-Africa reaching Eritrea.

**Acrosternum heegeri* Fieber, 1861

Mat. (7 exx): Abu Sido 9.V.95 (2); Al Jubayhah 15.V.?? (1), 3.IX.79 (2), 12.X.85 (1); Amman 1.V.91 (1); As Subayhi 20.IV.97 (1); Dayr Alla 9.V.95 (1); Ghawr Kabid 11.IV.85 (1), 15.V.96 (1), 2.VIII.97 (1); Iraq al Amer 1.IV.97 (1); Jarash 2.II.96 (2); Wadi Shua'yb 24.IV.97 (1); Yajuz 2.X.93 (1).

Turano-mediterranean

**Acrosternum millieri* (Mulsant & Rey, 1836)

Mat. (7 exx): Abu Sido 9.V.95 (3); Al Jubayhah 23.IV.95 (1), 12.X.85 (1); As Salt 24.IV.94 (1); Ghawr Kabid 22.XI.87 (1).

Turano-mediterranean with a wide Sudanese and Arabian range.

**Nezara viridula* (Linnaeus, 1758)

Mat. (18 exx): Al Jubayhah 14.III.97 (1), 2.IV.97 (1), 2.V.82 (1), 5.V.97 (1); Al Yadudah 22.X.92 (1); Amman 30.VI.92 (2); As Salt 7.IV.?? (1); Ayn al Basha 20.IV.94 (1); Dayr Alla 15.III.86 (1); Near the Dead Sea 12.VIII.94 (1); Ghawr Kabid 12.IV.96 (1), 8.VIII.97 (2), 7.X.85 (1), 23.XII.93 (1); Jordan valley 1.V.93 (1); Wadi as Sir 4.X.84 (1).

Cosmopolitan

CONCLUSION

As a result of the examination of nearly 2600 specimens of Jordanian Heteroptera preserved in the entomological collection of the University of Jordan Insects Museum in Amman, 158 different species were identified. 124 of them are recorded for the first time from the country, raising to about 250 taxa the total number of Jordanian Heteroptera known until now. This number, however, doesn't allow to attempt a zoogeographical analysis of the Jordanian fauna of Heteroptera which must be much richer in species.

Jordan is located in the central position of the syro-palestinian area, which is a transitional zone between the Turanian and the Saharo-sindian subregions of the Palaearctic, and between them and the northern afrotropical subregions. In the N-S oriented succession of natural regions of Jordan, elements from all the overmentioned zoogeographical subregions have found suitable environments, characterizing the fauna of the country as particularly rich and composite. This same situation, together with a remarkable comparability of natural environments, is shared with Palestine, whose fauna of Heteroptera should be therefore rather similar to the Jordanian one. A bibliographical search showed

that the Heteroptera of Palestine total nowadays about 900 species. In particular the differences in number of species between the faunas of Palestine and Jordan for the most important systematic categories of Heteroptera, as resulting from literature and from the present work, are shown in the Table below:

	Palestine	Jordan
Infraorder Nepomorpha	31	8
Infraorder Gerromorpha	20	7
Infraorder Leptodomorpha	11	1
Fam. Tingidae	54	16
Fam. Miridae	240	55
Fam. Nabidae	9	5
Fam. Anthocoridae	26	3
Fam. Reduviidae	73	20
Fam. Lygaeidae	174	60
Fam. Coreidae	23	8
Fam. Scutelleridae	22	6
Fam. Pentatomidae	83	23

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Abu Alandah	31°54'N 35° 58'E	Az Zarqa'	31°05'N 36° 06'E
Abu Nusayr	32°05'N 35° 52'E	Birayn	32°15'N 32° 50'E
Ajlun	32°20'N 35° 45'E	Dayr Alla	31°59'N 35° 49'E
Al A'dasiyah	32°40'N 35° 37'E	Dead Sea	31°30'N 35° 30'E
Al Aridah	32°09'N 35° 43'E	Dhulayl	32°09'N 35° 37'E
Al Bahhath	31°54'N 35° 48'E	Dibbin	32°15'N 35° 50'E
Al Baq'ah	32°04'N 35° 51'E	Ghawr Kabid	32°04'N 35° 34'E
Al Bunayyat	31°53'N 35° 53'E	Ghawr as Safi	31°02'N 35° 28'E
Al Fuhays	32°01'N 35° 46'E	Hawwarah	31°42'N 35° 51'E
Al Hashimiyah	32°08'N 36° 07'E	Iraq al Amer	31°55'N 35° 45'E
Al Hummar	32°01'N 35° 49'E	Irbid	32°33'N 35° 51'E
Al Jubayhah	32°01'N 35° 52'E	Jarash	32°17'N 35° 54'E
Al Kafraayn	31°52'N 35° 38'E	Jordan Valley	32°40'N 35° 30'E
Al Karak	31°11'N 35° 42'E	Kafir Asad	32°36'N 35° 43'E
Al Karamah	31°57'N 35° 35'E	Kurayyimah	32°16'N 35° 36'E
Al Khirbah as Samrah	32°11'N 35° 57'E	Madaba	31°43'N 35° 48'E
Al Maфраq	32°21'N 36° 10'E	Ma'in	31°41'N 35° 44'E
Al Mashari'a	30°54'N 35° 33'E	Mahis	31°59'N 35° 46'E
Al Mastabah	32°11'N 35° 51'E	Marka	31°59'N 35° 59'E
Al Mazar	31°49'N 35° 39'E	Muzayrib	32°18'N 35° 41'E
Al Muqabalayn	31°54'N 35° 45'E	Nahlah	32°17'N 35° 50'E
Al Mushaqqar	31°48'N 35° 47'E	Nau'r	31°53'N 35° 50'E
Al Muwaqqar	31°49'N 36° 06'E	North Shunah	32°37'N 35° 36'E
Al Quwasimah	31°55'N 35° 57'E	Petra	30°20'N 35° 26'E
Al Wala	31°39'N 35° 43'E	Sabha	32°20'N 36° 30'E
Al Yadudah	31°51'N 35° 55'E	Safut	32°02'N 35° 50'E
Al Yazidiyah	32°04'N 35° 47'E	Sahab	31°53'N 36° 00'E
Amman	31°57'N 35° 56'E	Sakib	32°17'N 35° 49'E
An Nu'ayyimah	32°25'N 35° 36'E	Shafa Badran	32°05'N 35° 54'E
Anjarah	32°18'N 35° 45'E	Suwaylih	32°02'N 35° 50'E
Ar Ramtha	32°34'N 36° 00'E	Tabarbawr	32°00'N 35° 57'E
Ar Rumman	32°01'N 35° 50'E	Tila' al Ali	32°00'N 35° 52'E
Ar Rumaymin	32°07'N 35° 48'E	Umm Al Jimal	32°36'N 35° 47'E
Ar Rusayfah	32°01'N 36° 03'E	Umm Qays	32°39'N 35° 41'E
As Salt	32°03'N 35° 44'E	Wadi Al Mawjib	31°23'N 35° 51'E
As Simakiyah	31°18'N 35° 48'E	Wadi al Yabis	32°24'N 35° 35'E
As Subayhi	32°09'N 35° 32'E	Wadi As Sarw	32°03'N 35° 47'E
Ash Shunah	32°37'N 35° 36'E	Wadi as Sir	31°57'N 35° 49'E
Ash Shwnbak	32°08'N 36° 04'E	Wadi Shu'ayb	31°54'N 35° 38'E
As Sukhnah	32°08'N 36° 04'E	Yajuz	32°02'N 35° 55'E
Ayn al Mu'allaqah	32°35'N 35° 57'E	Zabdah	32°34'N 35° 40'E
Ayn al Basha	32°04'N 35° 50'E	Zayy	32°06'N 35° 43'E

Tab. I - Collecting sites and their coordinates.

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