

ISSN 0001-561X

ACTA ENTOMOLOGICA FENNICA

R. E. Linnavuori

Heteroptera of Yemen and South Yemen

Vol. 54

1989

©

ANNALES ENTOMOLOGICI FENNICI

Published since 1935, four numbers a year.
Annual subscription FIM 150, in Finland
FIM 120.

Address: Zoological Museum,
P. Rautatiek. 13,
SF-00100 Helsinki, Finland.

ACTA ENTOMOLOGICA FENNICA

Published since 1947, monographs
at irregular intervals.
Price variable.

Publishers

Suomen Hyönteistieteellinen Seura — Entomological Society of Finland —
Societas Entomologica Fennica

Entomologiska Föreningen i Helsingfors — Helsingin Hyönteistieteellinen Yhdistys
— Societas Entomologica Helsingforsiensis

Editorial Board

Chairman: A. Jansson (chief editor)

Other members: K. Heliövaara (assistant editor of Acta), L. Huldén (secretary,
assistant editor), R. Iivarinen (treasurer), H. Krogerus, I. Mannerkoski, H. Silfverberg
(editor of Acta)

Board of Trustees

President: E. Kangas

Other members: O. Biström, I. Teräs, A. Pekkarinen, R. Rosengren (vice president)

Annales Entomologici Fennici publishes scientific papers, notes and reviews based principally on Finnish entomological investigations. Monographs and other longer articles are directed to Acta Entomologica Fennica, articles of mainly Nordic interest to Notulae Entomologicae. Contributors are requested to take into consideration the style and format of articles in recently published volumes. Two copies of each manuscript must be submitted with the original. As modern techniques often allow printing directly from computer diskettes, the editor should be informed if the manuscript is written on a word processor.

The journals are cited selectively by Bibliographie der Pflanzenschutz-Literatur of Biologische Bundesanstalt für Land- und Forstwirtschaft, Biological Abstracts of the Biosciences Information Service, Current Contents (Series Agriculture, Biology & Environmental Sciences) of Institute for Scientific Information, Entomology Abstracts of Information Retrieval Limited, and Review of Applied Entomology (Series A. Agricultural) of the Commonwealth Institute of Entomology.

Heteroptera of Yemen and South Yemen

R. E. Linnavuori

Linnavuori, R. E. 1989: Heteroptera of Yemen and South Yemen. — Acta Entomol. Fennica 54:1–40.

A list is given of 316 species of Heteroptera known to occur in Yemen and South Yemen. The following four new species are described: Pentatomidae: *Gynerica vicaria* sp.n. from Yemen, Lygaeidae: *Plinthisus debaroensis* sp.n. from Eritrea and *Rhyparochromus (Liolobus) sabulicola* sp.n. from South Yemen, and Reduviidae: *Rhinocoris harmonia* sp.n. from Yemen. *Anonychiella abendica* Linnavuori, 1975 is synonymized with *Tuponia subannulata* Wagner, 1973. A lectotype is selected for *Proboscidocoris punctaticollis* Reuter, 1905.

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

Index words: Heteroptera, taxonomy, zoogeography, Yemen and South Yemen

Contents

Introduction	2	Rhopalidae	15
Corixidae	2	Pyrrhocoridae	15
Notonectidae	4	Lygaeidae	15
Naucoridae	4	Berytidae	23
Nepidae	4	Cryptostemmatidae	23
Ochteridae	4	Anthocoridae	23
Veliidae	5	Cimicidae	24
Mesoveliidae	5	Enicocephalidae	24
Hebridae	5	Reduviidae	24
Hydrometridae	5	Nabidae	28
Cydnidae	5	Leptopodidae	28
Thaumastellidae	6	Saldidae	28
Plataspidae	6	Tingidae	28
Pentatomidae	7	Miridae	29
Stenocephalidae	13	Conclusions	36
Coreidae	13	References	36
Alydidae	14		

Introduction

The Heteropteran fauna of Yemen and South Yemen was largely unknown until E. Britton and H. Scott, from the British Museum for Natural History, collected material in the area in 1937–1938. Of this material, the aquatic and subaquatic families were treated by Brown (1951), the Reduviidae by Miller (1954) and the Tingidae by Drake (1957). Representatives of the other families were identified by me, but only the new species were described in “The Hemiptera of the Sudan” (Linnavuori 1971, 1974, 1975a, 1975b, 1977, 1978).

The present article is largely based on the specimens collected on the Britton & Scott Expedition to South-West Arabia and other material preserved in the British Museum. Interesting material, mainly of aquatic Heteroptera, was also collected by members of the Zoological Museum La Specola, Florence, in 1979–1981 in Yemen. In addition, I was able to make a trip to the Lahej-Dhala area in South Yemen in July 1963. Although knowledge of the Heteropteran fauna of South-West Arabia is still far from complete, it is hoped that these results of an examination of the collections will contribute to elucidate the composition of the fauna of this interesting area. The new records for the area are marked with an asterisk.

Abbreviations used for the collections:

BM = British Museum

LC = Coll. R. Linnavuori

MF = Zoological Museum La Specola

MR = Rostock Museum

Corixidae

Micronectinae

Micronecta anatolica Lindberg

Micronecta anatolica Lindberg, 1922:116.

Micronecta yemenensis Brown, 1951:255–256.

Yemen: Majil al Alaf, south of San'a (Brown 1951).

Range: Widespread from Turkey through Iraq and Turkestan to the Himalayas. In Yemen probably a pluvial relict.

Micronecta isis Horvath

Micronecta isis Horvath, 1899a:102.

Material: South Yemen: Lahej, 9–15.VII.1963, Linnavuori, many exx. (LC).

Other records: South Yemen: Huwemi (Brown 1951).

Range: Widespread in tropical Africa. Also known from Egypt, Israel, Iraq and Saudi Arabia.

Corixinae

Corixa affinis Leach

Corixa affinis Leach, 1817:18.

Material: Yemen: 7 exx. from Jabal Nefah ca 4 km W of Ju Amlah, IX.1980, Borri & Poggesi; tra Umm Laylah e Begin, VI–VII.1981, Borri & Poggesi; Wadi Madi 21 km WNW of Sa'dah, 1950 m., XI.1979, Borri, Lanza & Poggesi; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m., XI.1979, Borri, Lanza & Poggesi (MF, LC).

Other records: Yemen: Birkat Qa'Raqq, near Beit as Hauri, 10 miles north of San'a, and Birkat al Bu'r, near Haz, about 16 miles NW of San'a (Brown 1951).

Range: A widespread Palearctic species. In Yemen undoubtedly a pluvial relict.

Sigara marginata (Fieber)

Corisa marginata Fieber, 1851:229.

Material: Yemen: many exx. from Jabal Nefah ca. 4 km W of Ju Amlah, IX.1980, Borri & Poggesi; Ju Amlah ca. 26 km NW of Sa'dah, 2000 m., XI.1980, Borri, Lanza & Poggesi; Wadi Madi 21 km WNW of Sa'dah, 1950 m., XI.1979, Borri, Lanza & Poggesi; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, 1980, Borri & Poggesi; Wadi Yesnam 25 km NW of Ju Amlah, VI–VII.1981, Borri & Poggesi; Umm Laylah e Begin, VI–VII.1981, Borri & Poggesi (MF, LC).

Other records: Yemen: near San'a (Brown 1951).

Range: Apparently the commonest *Sigara* species in Yemen. Otherwise known only from Sinai.

Sigara hoggarica Poisson

Sigara hoggarica Poisson, 1929:91.

Sigara brevixipha Brown, 1951:259.

Material: Yemen: several exx. from Jabal Nefah ca 4 km W of Ju Amlah, IX.1980, Borri & Poggesi; Wadi Ar Akua ca 36 km NW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi; Wadi Madi 21 km WNW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi; Wadi Yesnam ca 25 km NW of Ju Amlah, VI–VII.1981, Borri & Poggesi (MF, LC).

Other records: Yemen: Wadi Dhahr, Imam's Pool. South Yemen: Jebel Jihaf, Wadi Leje (Brown 1951).

Range: Eremian.

Sigara lundbladiana Hutchinson

Sigara lundbladiana Hutchinson, 1932:128.

Material: Yemen: several exx. from Ju Amlah ca 26 km WNW of Sa'dah, 1950 m, XI.1980, Borri, Lanza & Poggesi; Wadi Ar Akua ca 26 km NW of Sa'dah, 1950 m, IX.1980, Borri &

Poggesi; Wadi Madi ca 21 km WNW of Sa'dah, 1900 m, XI.1979, Borri, Lanza & Poggesi; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, XI.1979, Borri, Lanza & Poggesi (MF, LC).

Other records: Yemen: Jebel Jihaf (Brown 1951).

Range: A monticolous species known from Ethiopia, the Kassala province in the Sudan and the Asir province of Saudi Arabia.

Sigara lateralis (Leach)

Corixa lateralis Leach, 1817:17.

Material: Yemen: several exx. from Al Arf ca 80 km S of Sa'dah on the road to Sana'a, VI-VII.1981, Borri & Poggesi; Jabal Nefah 4 km W of Ju Amlah, IX.1980, Borri & Poggesi; Ju Amlah ca 26 km NW of Sa'dah, 1950 m, IX.1980, IX.1980, Borri & Poggesi; Umm Laylah e Begin, VI-VII.1981, Borri & Poggesi (MF, LC).

Other records: South Yemen: Jebel Jihaf, Dhala and Wadi Leje (Brown 1951).

Range: Holomediterranean with a wide range in Central Europe, Central Asia and North Africa.

Notonectidae

Anisopinae

Anisops sardea Herrich-Schaeffer

Anisops sardea Herrich-Schaeffer, 1849:41.

South Yemen: Jebel Jihaf (Brown 1951).

Range: Palearctic. Also in the Mediterranean subregion.

Anisops pellucens Gerstaecker

Anisops pellucens Gerstaecker, 1873:424.

South Yemen: Huwemi (Brown 1951).

Range: Widespread in Africa south of the Sahara, also in Madagascar.

Anisops varia Fieber

Anisops varia Fieber, 1852:483.

Anisops scutellata Fieber, 1852:483.

Anisops hoggarica Poisson, 1929:205.

Material: Yemen: numerous exx. from Al Arf ca 80 km S of Sa'dah, VI-VII.1981, Borri & Poggesi; Jabal Nefah ca 4 km W of Ju Amlah, IX.1980, Borri & Poggesi; Ju Amlah 26 km NW of Sa'dah, 1950 m, IX.1980, Borri & Poggesi (MF, LC).

Other records: Yemen: Wadi Dhahr and mountains west of San'a; South Yemen: Jebel Jihaf (Brown 1951).

The taxonomy of the *varia* complex was treated by Lansbury (1966). *A. scutellata*, generally regarded as a subspecies of *varia* (e.g. in Linnavuori 1981), was

regarded by him as a strict synonym of *A. varia*, while the taxon identified by me as *A. varia varia* was described as a new species, *A. ariva* Lansbury. Males of these species are easily distinguished by the shape of the rostral prongs (illustrations in Lansbury 1966), but owing to considerable individual variability, the females are less easily differentiated. The type series of *A. scutellata* (1♂ and 2♀♀ from the Sinai Peninsula) and *A. varia* (1♀ from Ambukhol, South Africa) preserved in Mus. Berlin were studied by me. The identity of the former taxon is clear. The status of the type specimen of *varia*, unfortunately a female, is more difficult. The specimen has a red apical spot on the pronotum, which is a characteristic of *ariva*, the spot being at most faintly indicated in *A. scutellata*. As *A. scutellata* does occur in South Africa (SW Africa, Kaokoweld, Kowares, 50 miles SE of Ohopoho, 1♂ in Mus. Lund), it seems best to follow the nomenclature proposed by Lansbury, though additional material from the type locality is needed to solve the problem. *A. hoggarica* was originally described as a separate species by Poisson (1929), but later regarded as a subspecies of *A. varia* by the same author (Poisson 1948). This form is usually uniformly pale, but pale specimens are also found elsewhere (specimens from Alexandria, Egypt, and Zaria, in northern Nigeria, were studied in LC). However, in all populations dark specimens with a typical *A. varia* pattern were also found. The pale coloring is undoubtedly an adaptation to sandy desert habitats. The structure of the rostral prongs and the fore legs in males is similar to that of *A. varia*. Since no clear statistical differences were found either, *A. hoggarica* is regarded as a strict synonym of *A. varia*.

A. varia inhabits the Eremian subregion from Algeria to Egypt, Israel and the Red Sea hill region in the Arabian Peninsula (Linnavuori 1971, 1981), but it has also undoubtedly spread along the arid coastal region in East Africa into South Africa. *A. ariva*, on the other hand, is common in the savanna belt of the Sudanese subregion (many specimens from Upper Volta, Niger and the Sudan in LC). It undoubtedly occurs in East Africa too, since I have seen specimens from South Africa (SW Africa, Kaokoweld, Gauko-Otavi, 20 miles SSW of Ohopoho, in Mus. Lund).

Anisops ariva Lansbury

Anisops ariva Lansbury, 1966:42-43.

South Yemen: Wadi Yeshbum (Lansbury 1966)

Range: Holosudanese.

Anisops popovi Lansbury*Anisops popovi* Lansbury, 1966:37–39.

South Yemen: Wadi Yeshbum (Lansbury 1966).
Range: Endemic.

Anisops debilis perplexa Poisson*Anisops debilis perplexa* Poisson, 1929:87.

Material: South Yemen: near Lahej, 9–15.VII.1963, Linnavuori, 1 ex., and Wadi Kebir near Lahej, 13–14.VII.1963, Linnavuori, many exx. (LC).

Other records: Yemen: Hauban near Ta'izz (Brown 1951).
Range: Eremian.

Anisops convexonota Brown*Anisops convexonota* Brown, 1951:250–251.

Material: Yemen: Jabal Nefah ca 4 km W of Ju Amlah, IX.1980, Borri & Poggesi, 1 ex.; Wadi Ar Arkua ca 36 km NW of Sa'dah, 1950 m, XI.1979, IX.1980, Borri & Poggesi, 4 exx.; Wadi Madi ca 21 km WNW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi, 1 ex.; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, XI.1979, Borri & Poggesi, 1 ex. (MF, LC).

Other records: Yemen: Birkat Gheil Masnah, SW of Ma'bar and mountains W of San'a; South Yemen: Jebel Harir (Brown 1951).

Range: Endemic.

Notonectinae

Enithares sobria (Stål)*Notonecta sobria* Stål 1855:89.

Material: Yemen: several exx. from Jabal Nefah ca 4 km W of Ju Amlah, IX.1979, Borri & Poggesi; Ju Amlah ca 26 km NW of Sa'dah, 1950 m, XI.1979, Borri, Lanza & Poggesi; Wadi Ar Arkua ca 36 km NW of Sa'dah, 1950 m, XI.1979, Borri, Lanza & Poggesi; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, IX.1979, Borri, Lanza & Poggesi (MF, LC).

Other records: Yemen: Hauban near Ta'izz; South Yemen: Huwemi, Jebel Harir and Kirsh (Brown 1951).

Range: Widespread in Africa.

Notonecta arabiensis Hungerford*Notonecta arabiensis* Hungerford, 1926:280.

Material: Yemen: Jabal Nefah ca 4 km W of Ju Amlah, VI–VII.1981, Borri & Poggesi, 3 exx.; Ju Amlah, ca 26 km NW of Sa'dah, 1950, XI.1979, Borri, Lanza & Poggesi, 2 exx.; Sana'a, Zenzurist, 2 exx.; Tra Umm Laylah e Begin, VI–VII.1981, Borri & Poggesi, 1 ex.; Wadi Madi ca 21 km WNW of Sa'dah, 1950 m, XI.1979, Borri, Lanza & Poggesi, 2 exx.; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, IX.1979, Borri, Lanza & Poggesi, 4 exx. (MF, LC).

Other records: Yemen: San'a; Birkat Qu Raqqa, near Beit al Hauri; Birkat Gheil Masnah SW of Ma'bar, and Wadi Dhahr (Brown 1951).

Range: A monticolous species known from Yemen and the Asir province in Saudi Arabia.

Naucoridae

Laccocorinae

Heleocoris minusculus (Walker)*Naucoris minusculus* Walker, 1870:2378–2381.

Material: Yemen: many exx. from Ju Amlah ca 26 km NW of Sa'dah, 1950 m, XI.1979, Borri & Poggesi; ca 34 km NW of Sa'dah, VI–VII.1981, Borri & Poggesi; Tra Umm Laylah e Begin, VI–VII.1981, Borri & Poggesi; Wadi Ar Akua ca 36 km NW of Sa'dah, X.1980, VI–VII.1981, Borri & Poggesi; Wadi Madi ca 21 km WNW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, XI.1979, Borri, Lanza & Poggesi; Wadi Sharawa, IX.1980, Borri & Poggesi (MF, LC); South Yemen: Wadi Kebir Near Lahej, 13–14.VII.1963, Linnavuori, several exx. (LC).

Other records: Yemen: near Ta'izz; Wadi Ghailama, tributary of Wadi Siham; Hauban near Ta'izz; South Yemen: several localities (Brown 1951).

Range: A very common species in the Arabian Peninsula, also known from southern Israel and Sinai.

Nepidae

Nepinae

Laccotrephes fabricii Stål*Laccotrephes fabricii* Stål, 1868:134.

Material: Yemen: several exx. from Jabal Nefah ca 4 km W of Ju Amlah, VI–VII.1981, Borri & Poggesi; Ju Amlah ca 26 km NW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi; Tra Umm Laylah e Begin, VI–VII.1981, Borri & Poggesi; Wadi Ar Akua ca 36 km NW of Sa'dah, VI–VII.1981, Borri & Poggesi; Wadi Madi ca 21 km WNW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, VI–VII.1981, Borri & Poggesi; South Yemen; Wadi Kebir near Lahej, 13–14.VII.1963, Linnavuori 2 exx. (LC).

Other records: Yemen: Birkat Qa'Raqqa near Beit al Hauri; San'a; Wadi Jaira; South Yemen: several localities (Brown 1951).

Range: All Africa, the Arabian Peninsula, Israel, the Oriental Region.

Ochteridae

Ochterus marginatus (Latreille)*Acanthia marginata* Latreille, 1804:242.

South Yemen: Jebel Harir; Wadi Dareija (Brown 1951).
Range: Paletropical.

Veliidae**Microveliinae***Tenagovelia sjostedti* Kirkaldy

Tenagovelia sjostedti Kirkaldy, 1910:22.

Yemen: Wadi Dhahr, about 6 miles NW of Sanáa; South Yemen: Tiban River, Wadi Tiban (Brown 1951).

Range: East African.

Xiphoveloidea major major (Poisson)

Microvelia major Poisson, 1926:243.

Material: South Yemen: Wadi Kebir near Lahej, 13–14.VII.1963, Linnavuori, 2 exx. (LC).

Range: Nearly all Africa.

Microvelia arabica Brown

Microvelia arabica Brown, 1951:234–236.

Material: South Yemen: Jebel Harir, 3–4.XI.1937, Scott & Britton, the type series in BM, a paratype in LC.

Range: Endemic.

Rhagoveliinae*Rhagovelia nigricans* (Burmeister)

Velia nigricans Burmeister, 1835:213.

Yemen: Wadi Ghailama, tributary of Wadi Siham (Brown 1951).

Range: All Africa, Israel, Cyprus.

Mesoveliidae*Mesovelia vittigera* Horvath

Mesovelia vittigera Horvath, 1895:160.

Yemen: Hauban near Ta'izz. South Yemen: Huwemi (Brown 1951).

Range: Palearctic.

Hebridae*Hebrus pusillus arabicus* Linnavuori

Hebrus pusillus arabicus Linnavuori, 1971:364.

Material: South Yemen: Wadi Kebir near Lahej, 13–14.VII.1963, Linnavuori, holotype (LC).

Other material: Yemen: Wadi Siham SE of 'Obal; South Yemen: Jebel Harir (Brown 1951).

Range: The Arabian Peninsula, Iraq.

Hydrometridae*Hydrometra scotti* Brown

Hydrometra scotti Brown, 1971:224–226.

South Yemen: Wadi Dareija SW of Dhala (Brown 1951).

Range: Endemic.

Cydnidae**Sehirinae****Sehirus tibialis* (Stål)

Strachia tibialis Stål, 1853:221.

Material: Yemen: Wadi Jaira, tributary of Wadi Siham, 10.III.1938, Scott & Britton, 1 ♀ probably of this species (BM).

Range: East African.

Cydninae**Aethus holothrix* Linnavuori

Aethus holothrix Linnavuori, 1977:37.

Material: South Yemen: Lahej, 9–15.VII.1963, Linnavuori, 1 ♀ probably of this species (LC).

Biology: At lamp in inland dunes.

Range: Previously known from the Sudan.

**Aethus pallidus* (Puton)

Cydnus pallidus Puton in Puton & Lethierry, 1887:298.

Putonisca scutellaris Horvath, 1919:236.

Material: South Yemen: many exx., near Lahej, 9–15.VII.1963, Linnavuori (LC).

Biology: At lamps in inland dunes.

Range: Eremian.

**Aethus lindbergi* Wagner

Aethus lindbergi Wagner 1957b:1.

Material: Yemen, El Kadan, 10.VIII.1967, Deryabin, several exx. (Mus. Leningrad).

Range: Eremian.

**Aethus eremophilus* Linnavuori in press

The species will be described in a forthcoming revision of the Cydnidae of West Africa.

Material: Yemen: Sanaa, 21.X.1930, Jenjourist, 1 paratype (Mus. Leningrad). South Yemen: Aden, male holotype, and Lahej-Dhala road, 2 paratypes, 9–15.VII.1963, Linnavuori (LC).

Range: Also known from the Sudan.

**Aethus holothrix* Linnavuori*Aethus holothrix* Linnavuori, 1977:37.

Material: South Yemen: Lahej, 9–15.VII.1963, Linnavuori, 1♀ probably of this species (LC).

Biology: At lamp in inland dunes.

Range: Eremian.

**Aethus uageranus* Linnavuori*Aethus uageranus* Linnavuori 1982b:27.

Material: South Yemen: Little Aden, IX–XI.1984, Materlik, 1♀ probably of this species (MR).

Range: Previously known from Somalia.

**Aethus pilosulus* (Klug)*Cydnius pilosulus* Klug 1845:t. 13, F. 9.

Material: South Yemen: Little Aden, IX–XI.1984, Materlik, 1 ex. (MR).

Range: Eremian.

Macroscytus brunneus (Fabricius)*Cydnius brunneus* Fabricius, 1803:185.

Material: South Yemen: Al Huseini near Lahej, 26–29.XI.1937, 1 ex.; Dhala, 25.IX.1937, 1 ex.; Wadi Dareija near Dhala, 29–30.IX.1937, Scott & Britton, 1 ex.; Tor-um-Baha, Wadi Ma' Adin 50 miles WNW of Aden, 1.II.1940, Petrie, 1 ex. (BM).

Range: Holomediterranean with a wide range in the Ethiopian and Oriental Regions.

**Geotomus intrusus* Wagner 1957*Geotomus intrusus* Wagner, 1953:474.

Material: South Yemen: Dhala, 25.IX.1937, 1 ex.; Jebel Jihaf, X.1937, Scott & Britton, 1 ex.; near Lahej, 9–15.VII.1963, Linnavuori, 2 exx. (BM, LC).

Biology: At lamp in sandy habitats.

Range: Eremian with an eastern distribution, known from Egypt, the Sudan, Somalia, and Saudi Arabia.

**Cydnius aterrimus* (Foerster)*Cimex aterrimus* Foerster, 1771:71.Material: Yemen: San'a, 2–9.X.1937, Rathjens, 3 exx. (BM).
Range: Holomediterranean.**Chilocoris somalicus* Mancini*Chilocoris somalicus* Mancini, 1939:295–296.

Material: South Yemen: Dhala, IX.1937, 1 ex.; Jebel Harir, 3.XI.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Previously known from Somalia.

Nishadana arabica Horvath*Nishadana arabica* Horvath, 1919:265.

Material: South Yemen: Aden, 1 ex., collector unknown (LC).

Range: Also known from Somalia.

Amaurocoris curtus (Brullé)*Cydnius curtus* Brullé in Webb & Berthelot 1839:81.*Amaurocoris subglaber* Horvath 1919:367.Material: South Yemen: Aden, 1♂ syntype of *A. subglaber*, in Mus. Budapest; Little Aden, IX–XI.1984, Materlik, 1 ex. (MR).

Range: Eremian.

**Amaurocoris orbicularis* Jakovlev*Amaurocoris orbicularis* Jakovlev 1885:10.

Material: South Yemen: Little Aden, IX–XI.1984, Materlik, 1 ex. (MR).

Range: Eremian.

Thaumastellidae

**Thaumastella aradoides* Horvath*Thaumastella aradoides* Horvath, 1886:325.

Material: South Yemen: Lahej-Dhala road, 5–15.VII.1963, Linnavuori, 2 exx. (LC).

Biology: At lamp in a sandy habitat.

Range: Eremian.

Plataspidae

Coptosoma limbatellus Stål*Coptosoma limbatellus* Stål, 1853:212.

Material: South Yemen: Lahej, 31.XII.1939, Petrie, several exx. (BM, LC).

Range: Apparently East African. Previously known from South Africa.

Coptosoma arabicum Linnavuori*Coptosoma arabicum* Linnavuori, 1977:78.

Material: South Yemen: near Dhala, collector unknown, holotype, (LC).

Range: Endemic.

Pentatomidae**Dinidorinae***Coridius viduatus* (Fabricius)

Cimex viduatus 1794:117.

Material: Yemen: San'a, 17.VII.1938, Petrie, some exx.; Usaifira near Ta'izz, 10.VIII.1946, Waterston, 1 ex.; — South Yemen: Wadi Tiban NW of Jebel Jihaf, 21.X.1937, Scott & Britton, 1 ex. (BM).

Range: Nearly all Africa, Israel, Turkey, Iran.

Scutellerinae**Elvisura irrorata* Spinola

Elvisura irrorata Spinola, 1837:359.

Material: Dhufar, 1 ex. (LC).

Range: Holosudanese. The first record from the Arabian Peninsula.

Calidea duodecimpunctata (Fabricius)

Cimex duodecimpunctatus Fabricius, 1798, p. 527.

Material: Yemen: Makhdash in Tihama 15 miles S of Hodeida, 27.II.1946, 1 ex.; — South Yemen: Anad, 13–14.VII.1963, Linnavuori, 1 ex. (BM, LC).

Biology: On Malvaceae.

Range: Holosudanese.

**Alphocoris larinoides* Germar

Alphocoris larinoides Germar, 1839:60.

Material: South Yemen: Anad, 13–14.VII.1963, Linnavuori, 5 exx. (LC).

Biology: On grasses in sandy habitats.

Range: Eremian.

**Irochrotus montandoni* Schouteden

Irochrotus montandoni Schouteden, 1903:88.

Material: Yemen: near Ta'izz on road to Mocha, 20.XII.1937, Scott & Britton, 1 ex. (BM).

Range: North Sudanese; also in Egypt.

Phyllocephalinae*Schyzops aegyptiaca arabica* Ghauri

Schyzops aegyptiaca arabica Ghauri, 1969:601–602.

Material: South Yemen: Lahej (Ghauri 1969); Zingibar, 24.XII.1982, Wranik, 2 exx. (MR).

Range: Endemic.

Phyllocephala negus (Distant)

Basicryptus negus Distant, 1900:224.

Phyllocephala albicornis Horvath, 1911:580 (Linnavuori 1986:49).

Material: South Yemen: Hadramaut, holotype of *B. negus* (BM); Zingibar, IV.1983, Wranik, 3 exx. (MR).

Range: Eremian with a Saharo-Sindian distribution (Egypt–Pakistan).

Podopinae*Tarisa spinifera* Reuter

Tarisa spinifera Reuter, 1901:33.

Material: South Yemen: Sheikh Othman near Aden, Simon, ♂ lectotype and ♀ cotype, (Mus. Helsinki); Sheikh Othman-Lahej, 13–14.VII.1963, numerous exx.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, several exx. (LC).

Biology: On *Salsola battae*.

Range: Endemic.

Tarisa gibbosa (Bolivar)

Coelocoris gibbosus Bolivar, 1879:135.

Tarisa adusta Reuter 1901:45.

Material: South Yemen: Sheikh Othman, ♀ lectotype of *T. adusta*, Simon (Mus. Helsinki).

Range: South Yemen, Ethiopia.

**Tarisa subspinosa* (Germar)

Pentatoma subspinosa Germar, 1839:54.

Tarisa consimilis Reuter, 1891:137–142.

Tarisa fraudatrix Horvath, 1891:76 (Linnavuori 1986:51)

Material: South Yemen: Wadi Hardaba, 11.X.1937, Scott & Britton, 1 ex. (BM).

Range: Eremian.

Tarisa aeliodes (Bolivar)

Coelocoris aeliodes Bolivar, 1897:134.

Tarisa elongata Horvath, 1899b:444.

South Yemen: "South Arabia" (Schouteden 1903).

Range: Distributed along the Red Sea coast. Known from Israel, the Sudan, Ethiopia, and Saudi Arabia.

Pentatominae**Mecidea pallidissima* Jensen-Haarup

Mecidea pallidissima Jensen-Haarup, 1922:8–9.

Material: South Yemen: Anad, Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Range: Eremian.

**Phricodus hystrix* (Germar)*Aradus hystrix* Germar, 1837:134.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, 2 exx.; — South Yemen: Wadi Dareija near Dhala, 6–9.XI.1937, Scott & Britton, 4 exx. (BM, LC).

Biology: On *Indigofera oblongifolia*.

Range: Holosudanese.

Apodiphus integriceps Horvath*Apodiphus integriceps* Horvath, 1888:172.

South Yemen: Aden (Ghuri 1977).

Range: Irano-Turanian. Find from Aden undoubtedly adventitious.

Pseudatelus arabicus (Linnvuori)*Atelocera arabica* Linnavuori, 1975b:35.

Material: Yemen: Yemen, holotype (LC); Hada near San'a, 14.I.1938, Scott & Britton, 1 ex.; San'a, within walls of Bir el Azab, 7900 ft, 1946, Petrie, 2 exx. (BM, LC); — South Yemen: Jebel Harir, 25.X.–6.XI.1937, Scott & Britton 1 ex. (BM, LC).

Range: Endemic.

**Menaccarus cilius* Stål*Menaccarus cilius* Stål, 1864:123.

Material: South Yemen: Jebel Jihaf, 1 ex. (LC).

Range: Eremo-Sahelian. Known from Nigeria, the Sudan (Nubia) and SW Arabia.

Sciocoris monticola Linnavuori*Sciocoris monticola* Linnavuori, 1975b:27–28.

Material: Yemen: El Errein near Haz, about 16 miles NW of San'a, 3.II.1938 1 ex.; Beit Baus near San'a, 28.I.1938, Scott & Britton 1 ex.; — South Yemen: Jebel Jihaf, 4.X.1937, Scott & Britton, holotype (BM, LC).

Range: Endemic.

Sciocoris lineiventris Linnavuori*Sciocoris lineiventris* Linnavuori, 1972a:6–8.

Material: Yemen: some exx. from Ghaiman, about 9 miles SE of San'a, slopes of Jebel Jirwan, ca 9000 ft, 17.II.1938; Summit of Jebel Kohl 15 miles N of San'a, 9300–9500 ft, 1.II.1938, Scott & Britton; — South Yemen: Jebel Jihaf, IX.1937, Scott & Britton (BM, LC).

Range: Mountain areas of Eritrea, Ethiopia and SW Arabia.

Sciocoris othmanus Linnavuori*Sciocoris othmanus* Linnavuori, 1972a:8–10.

Material: South Yemen: Sheikh Othman- Lahej, 9–15.VII.1963, Linnavuori, holotype (LC).

Biology: On *Salsola battae* in inland dunes.

Range: Endemic.

Sciocoris cassiae Linnavuori*Sciocoris cassiae* Linnavuori, 1986:59–60.

Material: South Yemen: Aden, Schweinfurth, holotype (Mus. Helsinki).

Range: Endemic.

Caystrus deserticola Linnavuori*Caystrus deserticola* Linnavuori, 1975b:35.

Material: South Yemen: near Lahej, holotype (LC).

Range: Endemic.

Diploxys orientalis Linnavuori*Diploxys orientalis* Linnavuori, 1982:84–85.

Material: South Yemen: Jebel Jihaf, 21.X.1937, Scott & Britton, 2 exx. (LC, BM).

Range: East African, known from Somalia and Kenya.

**Aeliomorpha griseoflava* (Stål)*Aelia griseoflava* Stål, 1853:218.

Material: Yemen: San'a, Gheil el Alaf, 3.III.1938, Scott & Britton, 1 ex. (BM).

Range: Holosudanese.

**Acoloba lanceolata* (Fabricius)*Aelia lanceolata* Fabricius, 1803: p. 189.

Material: Yemen: Wadi Sabir, N Face of Jebel Sabir, 19.XII.1937, Scott & Britton, 3 exx. (BM, LC).

Range: Holosudanese.

**Adria parvula* (Dallas)*Pentatoma parvula* Dallas, 1851:246.

Material: South Yemen: near Lahej, 9–15.VII.1963, Linnavuori, 2 exx. (LC); — Oman: Dhufar, Jebel Qara, X.1943, Fitzgerald, some exx. (BM, LC).

Biology: At lamp in sandy habitats.

Range: Paleotropical.

**Eysarcoris inconspicuus* (Herrich-Schaeffer)*Pentatoma inconspicuum* Herrich-Schaeffer, 1844:93.

Material: South Yemen: Al Huseini near Lahej, 26.XI.1937, Scott & Britton, many exx. (BM, LC).

Range: Widely distributed within the Palearctic, Ethiopian and Oriental Regions.

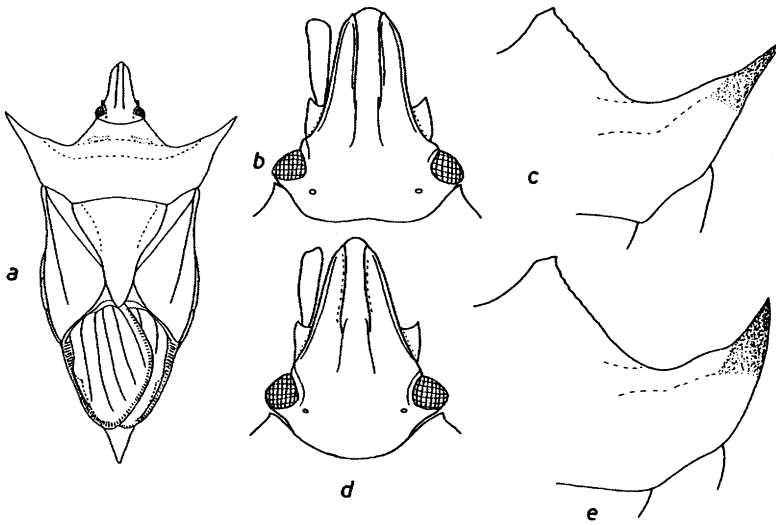


Fig. 1. *Gynenica tellinii* Schouteden (female): a) dorsal view; b) head; c) pronotum. — *G. vicaria* sp.n.: d) head; e) female pronotum.

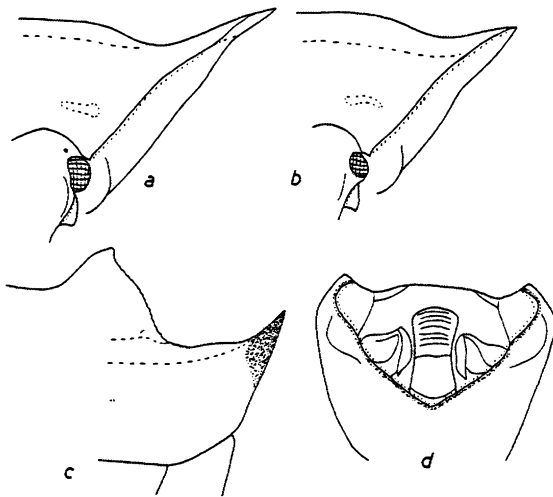


Fig. 2. *Gynenica tellinii* Schouteden: a) female pronotum in frontal view. — *G. vicaria* sp.n.: b) female pronotum in frontal view; c) male pronotum in dorsal view; d) pygofer in dorsal view.

Sepontia misella laticeps Linnavuori

Sepontia misella laticeps Linnavuori, 1975b:47.

Material: South Yemen: Dhala, 25.IX.1937, 1 ex.; Jebel Jihaf, 29.IX.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Also known from Eritrea.

**Carbula marginella* (Thunberg)

Cimex marginellus Thunberg, 1822:4.

Material: South Yemen: Dhala, 12.IX.1937, 3 exx.; Wadi Dareija near Dhala, 29–30.IX.1937, 3 exx.; Wadi Tiban NW of Jebel Jihaf, 21.X.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Holsudanese.

Gynenica tellinii Schouteden

Figs. 1–2.

Gynenica tellinii Schouteden, 1905b:8.

Material: Eritrea: Ghinda, Tellini, ♀ holotype (Mus. Teruren).

Length 11.25 mm. Shiny. Yellow-brown, pale. Head with relatively sparse and fine black puncturing, eyes reddish brown. Antennae reddish brown, 1st joint yellowish brown with dark dots. Pronotum with broad, fairly well-delimited whitish yellow transverse band behind callal area, apices of humeral angles black; puncturing on anterior lobe of disk black, on transverse pale band nearly concolorous, on posterior lobe brown. Scutellum with apex and sides callose, whitish yellow, puncturing brownish; middle of basal part with black punctures. Elytra with brownish puncturing; membrane with veins hyaline. Connexivum pale. Last tergite dark brown with yellowish median stripe. Under surface yellowish with concolorous puncturing, only sides of prothorax and evaporatoria of meso- and metathorax with dark punctures. Femora and tibiae yellow-brown with minute dark dots. Tarsi somewhat infusate.

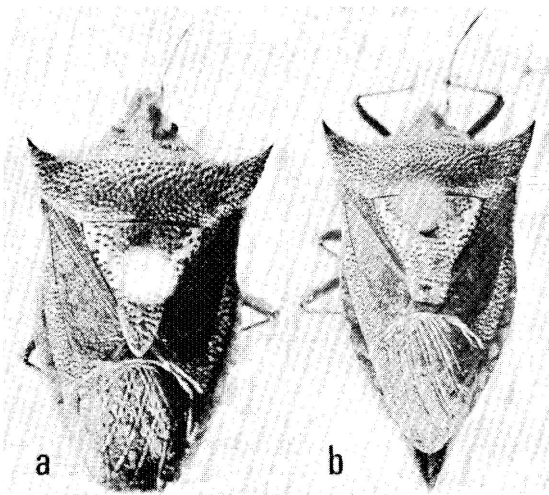


Fig. 3. *Gynenica vicaria* sp.n.: a) male; b) female.

Body relatively elongate. Head $1.12 \times$ as long as broad, lateral margins of genae subparallel apically, recurved laterad basally; upper surface of head convex in middle, moderately rugose, black puncturing fine; ocular index 2.81. Proportions between antennal segments 17:19:24:40:35 (diatone 44.5 units), 3rd joint $1.26 \times$ as long as 2nd. Rostrum extending to base of venter. Humeral angles of pronotum strongly prominent, horn-like, sharp-tipped, directed dorsolaterad, recurved apicad; anterior lobe of disk strongly declining apicad, apical part strongly rugose with relatively dense black puncturing; pale callose band broad, well delimited, relatively sparsely punctate, distance between punctures often greater than diameter of a puncture; posterior lobe flat, coarsely and relatively densely punctate. Scutellum $1.1 \times$ as long as broad, narrowly triangular; sides of basal part broadly callose, provided with a few scattered punctures, middle of disk flat, densely and coarsely punctate; apical part of scutellum callose, puncturing finer and sparser than on basal part. Elytra densely and uniformly punctate. Last tergite (♀) sharply triangular, distinctly longer than broad. Under surface of thorax densely punctate. Puncturing on venter superficial, middle of venter largely impunctate. Structure of scent gland orifices, evaporatoria and legs of the usual type within the genus.

G. tellinii was incorrectly regarded as a member of the genus *Umgababa* Leston by Ahmad & Mohammad (1980). It is, in fact, a typical representative of *Gynenica* Dallas and belongs to the group of species in

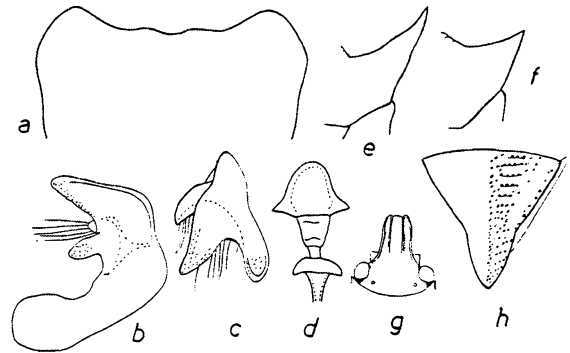


Fig. 4. *Gynenica vicaria* sp.n.: a) pygofer, ventral view; b-c) style; d) spermatheca. — *G. marginella* Dallas: e) female pronotum. — *G. malaisei* Leston (female): f) pronotum; g) head; h) scutellum. After Linnavuori 1975b and 1978, Leston 1953.

which the humeral horns of the pronotum are produced forward. It is undoubtedly a sister species of *G. marginella* Dallas 1851 from South Africa, which differs from *G. tellinii* in the longer, more gracile and more strongly forward produced humeral horns of the pronotum (Fig. 4e). Moreover, according to Leston (1953), the sides of the head are divergent throughout, while in *G. tellinii* they are subparallel apically.

**Gynenica vicaria* sp.n.

Figs. 1-4.

Material: Yemen: Ta'izz, on road to Mocha, ca 4700 ft, 16.XII.1937, ♀ holotype; Ta'izz, lower slopes of Jebel Sabir, ca 4600 ft, 15.XII.1937, Scott & Britton, 1♂ paratype (LC). Additional material from the same localities in BM.

Length ♂ 10.0 mm, ♀ 11.25 mm. Shiny. Ground color somewhat darker than in *G. tellinii*, with golden brown tinge. Head with dense black puncturing. Eyes brown. Antennal segments 1-3 reddish brown, other joints dark brown, 1st joint with dark dots. Whitish transverse band on pronotum concolorously punctate, puncturing on other parts of disk darker than the ground color; apices of humeral horns black. Sides and apex of scutellum callose, middle of base darkened; puncturing dark. Puncturing on exocorium black, on other parts of elytra brown; membrane with veins hyaline. Connexivum pale. Last tergite (♀) blackish with indistinct pale median stripe. Under surface red-

dish or yellowish brown, puncturing darker than the ground color. Femora and bases of tibiae reddish brown with minute dark dots; apices of tibiae and tarsi dark brown.

Body robust than in the preceding species. Head 1.0 (♂) or 1.16 (♀) × as long as broad; sides of genae only slightly insinuated basally; upper surface of head somewhat flatter, strongly rugose, black puncturing coarser and more dense than in *G. tellinii*; ocular index 2.42 (♂), 2.78 (♀). Antennae shorter and thicker than in *G. tellinii*, proportions between joints 16:20:20:35:31 (diatone 12 units) in ♂, 17:21:20:38:34 (diatone 43) in ♀; 2nd and 3rd joints of subequal length. Rostrum extending to base of venter. Humeral horns of pronotum produced forward, nearly horizontal, much broader than in *G. tellinii*; rugosity and black puncturing on anterior margin of disk coarse and dense; pale callose band behind calli narrower, much more coarsely and densely punctate than in *G. tellinii*, puncturing on basal lobe coarse and very dense. Scutellum 1.06–1.1 × as long as broad, narrowly triangular, apical and lateral callosities more densely and coarsely punctate, puncturing on middle of basal part coarse and dense. Exocorium much more coarsely punctate than the rest of elytra. Puncturing on under surface of thorax coarse and dense. Venter also coarsely and densely punctate. Scent gland orifices, evaporatoria and legs of the usual type. Last tergite (♀) sharply triangular, distinctly longer than broad.

Male genitalia and spermatheca in Fig. 4a–d.

Recorded as *G. tellinii* in Linnavuori 1975b. Readily distinguished from that species by the characters mentioned above. *G. malaisei* Leston 1953 from Somalia is smaller, length (♀) 10.0 mm, and uniformly buff. The margins of the head (Fig. 4j–h) are sinuate before the eyes, then parallel, and the 3rd antennal segment is distinctly longer than the 2nd (proportions between joints 11:13:15:30:24).

Agonoscelis arabicus Linnavuori

Agonoscelis arabicus Linnavuori, 1975b:92–93.

Material: South Yemen: Lahej-Dhala road, holotype (LC).
Range: Also known from the Sinai Peninsula.

**Agonoscelis puberula* Stål

Agonoscelis puberula Stål, 1853:216.

Material: Yemen: Ghaiman near San'a, 18.II.1937, Scott & Britton, 2 exx. (BM).
Range: East African.

**Lerida punctata* (Palisot de Beauvois)

Pentatoma punctata Palisot de Beauvois, 1807:84.

Pentatoma pallescens Westwood, 1837:41 (Linnavuori 1986b)

Material: South Yemen: near Dhala, 1 ex. (LC).
Range: Holosudanese.

**Veterna abyssinica* Lethierry

Veterna abyssinica Lethierry, 1881:4–5.

Material: South Yemen: Jebel Jihaf, 29.IX.1937, Scott & Britton, 3 exx. (BM, LC).

Range: Previously known from Ethiopia.

**Halyomorpha distantii* Jeannel

Halyomorpha distantii Jeannel, 1913:71–73.

Material: South Yemen: Dhala, 14.IX.1937, Scott & Britton, 1 ex. (BM).

Range: East African.

Antestia versicolor (Distant)

Halyomorpha versicolor Distant, 1881:271.

Material: Yemen: Sana'a, 1 ex. (LC).

Range: East African.

Antestiopsis intricata (Ghesquière & Carayon)

Antestia intricata Ghesquière & Carayon, 1948:41–58.

Material: South Yemen: Jebel Jihaf, 29.IX.1937, Scott & Britton, 3 exx. (BM, LC).

Range: Widespread in tropical Africa.

Chroantha ornatula (Herrich-Schaeffer)

Cimex ornatulus Herrich-Schaeffer 1842:93

Material: South Yemen: Aden, II.1985, Materlik, 1 ex.; Fartak Mountains, III.1985, Wrantik, 1 ex. (MR).

Range: Holomediterranean.

**Brachynema cinctum* (Fabricius)

Cimex cinctus Fabricius 1775:712.

Material: South Yemen: Little Aden, IX–XI.1984, Materlik, 1 ex. (MR).

Range: Holomediterranean.

Nezara viridula (Linnaeus)

Cimex viridulus Linnaeus, 1758:444.

Material: Yemen: Ju Amlah ca 26 km NW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi, 2 exx. (MF); San'a, XII.1938, Petrie, 1 ex. (BM).

Range: Cosmopolitan.

Acrosternum millierei (Mulsant & Rey)

Nezara millierei Mulsant & Rey, 1866:290.

Material: Yemen: Ju Amlah ca 26 km NW of Sa'dah, 1950 m, VI–VII.1981, 1 ex. (MF); several exx. from Usaifira near Ta'izz, 18.XII.1937; Wadi Sabir N face of Jebel Sabir, 19.XII.1937; Scott & Britton; Wadi Sheriya, tributary of Wadi Jaira, 19.VIII.1946, Waterston (BM); — South Yemen; several exx. from Al Milah, 10.IX.1937, Scott & Britton; Dhala, IX.1942, Petrie, Jebel Harir, 26.X–6.XI.1937; Wadi Tiban NW of Jebel Jihaf, 21.X.1937, Scott & Britton; Wadi Kebir near Lahej, 9–15.VII.1963, Linnavuori (BM, LC).

Range: Holomediterranean with a wide range in the adjacent parts of the Ethiopian Region.

Acrosternum apicale Linnavuori

Acrosternum apicale Linnavuori, 1975b:101–102.

Material: South Yemen: near Lahej, 9–15.VII.1963, Linnavuori, holotype (LC).

Range: SW Arabia.

**Piezodorus rubrofasciatus* (Fabricius)

Cimex rubrofasciatus Fabricius, 1787:293.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, some exx. (BM, LC).

**Piezodorus teretipes* (Stål)

Nezara teretipes Stål, 1864:198.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, several exx. (BM, LC); — South Yemen: Aden, III.1984, Wranik, 1 ex. (MR).

Biology: On *Indigofera oblongifolia*.

Range: Eremian.

**Anchesmus rubriplaga* (Walker)

Rhaphigaster rubriplaga Walker, 1867:365.

Material: South Yemen: near Lahej, 9–15.VII.1963, Linnavuori, 6 exx.; Wadi Hardaba, 11.IX.1937, Scott & Britton, 2 exx. (BM, LC).

Biology: On *Tamarix*.

Range: Eremian.

**Menida poecila* (Dallas)

Rhaphigaster poecilus Dallas, 1851: 287.

Material: Yemen: Usaifira near Ta'izz, 12.XII.1937, Scott & Britton, 3 exx.; — South Yemen: Wadi Dareija near Dhala, 9.XI.1937, Scott & Britton, some exx. (BM, LC).

Biology: On tree aloe and *Indigofera oblongifolia*.

Range: East African.

**Menida transversa* (Signoret)

Rhaphigaster transversum Signoret, 1860:936.

Material: Yemen: Wadi Sabir, N face of Jebel Sabir, 19.XII.1937, Scott & Britton, some exx. (BM, LC).

Range: Widespread in tropical Africa.

**Bagrada hilaris* (Burmeister)

Cimex hilaris Burmeister, 1835:368.

Material: Yemen: San'a, 26.II.1938, Scott & Britton, 1 ex.; — South Yemen: Shuqra, 22.XII.1939, Petrie, 1 ex. (BM).

Range: Paletropical.

Bagrada poecila (Klug)

Cimex poecilus Klug, 1835:t. 44, fig. 5.

Material: Yemen: Makhdashah in Tihama, 15 miles S of Hodeida, 27.II.1946, Waterston, many exx.; — South Yemen: Wadi Kebir near Lahej, 13–14.VII.1963, Linnavuori, many exx.; Waht near Lahej, 14.I.1940, Petrie, some exx.; Shuqra, 22.XII.1939, Petrie, 1 ex. (BM, LC).

Biology: On *Dipterygium glaucum*.

Range: Eremian, known from Eritrea, Saudi Arabia and SW Arabia.

**Bagrada amoenua* (Walker)

Strachia amoenua Walker, 1870:2340.

Material: South Yemen: Anad near Lahej, 13–14.VII. 1963, Linnavuori, many exx. (LC).

Range: Eremian, known from Egypt, the Sudan and Iraq.

**Stenozygum coloratum* (Klug)

Cimex coloratus Klug, 1845: t. 44, fig. 5.

Material: South Yemen: Wadi Hardaba, 11.IX.1937, Scott & Britton, some exx. (BM, LC).

Range: Pontomediterranean.

Asopinae

**Afrius purpureus figuratus* (Germar) var.?

Asopus figuratus Germar, 1837:185.

Material: Yemen: Wadi Rasyan, 1♂ (LC).

The specimen (Fig. 5a) is uniformly dark brown with only the apex of the scutellum slightly paler, very coarsely and densely punctate. The lateral margins of the pronotum are strongly insinuated behind the anterior lobe, and the humeral angles are remarkably thick and blunt. The scutellum is unusually broad, slightly broader than long (somewhat longer than broad in *figuratus*). It resembles illustrations of *A. marmorata*

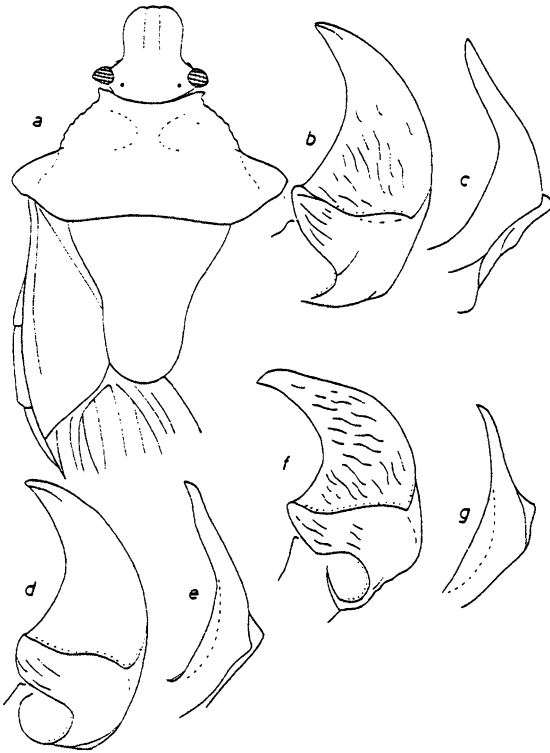


Fig. 5. *Afrius purpureus figuratus* (Germar) var.?: a) dorsal view; b) apical part of style in broad aspect, c) in narrow aspect. — *A. purpureus figuratus* (Germar) (from Adiopodoumé, Ivory Coast): d) apical part of style in broad aspect, e) in narrow aspect. — *A. purpureus purpureus* (Westwood) (from Tchaourou, Dahomey): f) apical part of style in broad aspect, g) in narrow aspect.

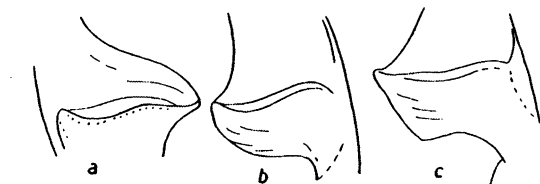


Fig. 6. *Afrius purpureus figuratus* (Germar) var.?: a) median basal angle of style in broad aspect. — *A. purpureus figuratus* (Germar): b) median basal angle of style in broad aspect. — *A. purpureus purpureus* (Westwood): c) median basal angle of style in broad aspect.

(Dallas, 1851) (syn. *annulipes* Dallas, 1851) in Schouteden 1905. The style (Figs. 5b–c, 6a) is similar to that of typical *A. figuratus* (Figs. 5d–e, 6b): blade-like

apical part longish, median basal angle below the transverse ridge bluntly rounded; in *A. purpureus purpureus* (Westwood, 1837) (Figs. 5j–g, 6c), apex much shorter and broader, median basal angle below the transverse keel squarish in outline. The taxonomic status of this form must remain uncertain until additional material is obtained.

Stenocephalidae

**Dicranocephalus caffer* (Dallas)

Stenocephalus caffer Dallas, 1852:482.

Stenocephalus haoussa Villiers, 1950:325 (synonymy proposed in a personal letter from G. Schmitz).

Material: Yemen: Hammam Ali, 28.VIII.1937, Rathjens, 1 ex (BM).

Range: Holosudanese.

Dicranocephalus bianchii (Jakovlev)

Stenocephalus bianchii Jakovlev, 1901:203–204.

South Yemen: Ihsawat, Wadi Sodaf and Najd Turaba, Ghadir Sauban (Lansbury 1965).

Range Eremian.

Dicranocephalus pallidus (Signoret)

Stenocephalus pallidus Signoret, 1879:LVIII.

Yemen: San'a. — South Yemen: Aden (Lansbury 1965).

Range: Eremian.

Coreidae

Coreinae

Anoplocnemis curvipes (Fabricius)

Cimex curvipes Fabricius, 1787:288.

Material: Yemen: Tihaman near Hais, 12.VIII.1946, Waterstone, 1 ex. (BM); — South Yemen: Jebel Harir, 26.X.–6.XI.1937, 2 exx.; Jebel Mafari, 27.IX.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Widespread in tropical Africa.

Elasmopoda parmenio Linnavuori

Elasmopoda parmenio Linnavuori, 1973:128–132.

Material: Yemen: Jebel Sumara, 2.I.1938, 1 ex.; Wadi Dhahr near San'a, 21.I.1938, Scott & Britton, 1 ex.; — South Yemen: Jebel Jihaf, IX.1937, 3 exx.; Wadi Dareija SW of Dhala, 6–9.XI.1937, Scott & Britton, 2 exx. (BM, LC).

Range: A monticolous species also known from Ethiopia.

Prismatocerus productus (Stål)*Tagus productus* Stål, 1865:67.*Homoeocerus yerburyi* Distant, 1901:12.

Material: South Yemen: Aden, type of *M. yerburyi* (BM).
 Range: Holosudanese.

**Ceratopachys nigricornis* (Germar)*Homoeocerus nigricornis* Germar, 1837:148.

Material: Yemen: San'a, 25.IX.1931, Zenzurist, 1 ex. (LC);
 — South Yemen: Jebel Jihaf, 1 ex. (LC).
 Range: East African.

**Cletus binotulatus obtusulus* Linnavuori*Cletus binotulatus obtusulus* Linnavuori, 1978:28–29.

Material: Yemen: Wadi Jaira, tributary of Wadi Siham,
 10.III.1938, Scott & Britton, 2 exx. (BM, LC).
 Range: Known from the Sudan and the Asir Province of Saudi
 Arabia.

**Cletus ochraceus borealis* Blöte*Cletus borealis* Blöte, 1935:204–205.

Material: Yemen: Wadi Dhahr about 6 miles NW of San'a,
 21.I.1938, Scott & Britton, 2 exx.; — South Yemen: Jebel Jihaf,
 X.1937, Scott & Britton, 2 exx. (BM, LC).

Range: The mountain areas along the Red Sea Coast in the
 Sudan and Eritrea.

Cletus callosus Linnavuori*Cletus callosus* Linnavuori, 1978:31.

Material: Yemen: near Ta'izz, holotype (LC).
 Range: Endemic.

**Cletus crenicollis* (Schaum)*Gonocerus crenicollis* Schaum, 1862:358.

Material: South Yemen: Jebel Jihaf, 1 ex. (LC).
 Range: East African.

**Cletus lituripennis* (Stål)*Gonocerus lituripennis* Stål, 1855:30.

Material: South Yemen: Jebel Harir, 20.X.1937, 1 ex.; Wadi
 Dareija SW of Dhala, 29–30.IX.1937, Scott & Britton, 1 ex. (BM,
 LC).

Range: Widespread in Africa South of the Sahara.

Corduba echinops Linnavuori*Corduba echinops* Linnavuori, 1978:33–34.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott &
 Britton, 1 ex. (BM).

Biology: On *Indigofera oblongifolia*.

Range: Sudano-Eremian. Known from Chad, the Sudan and
 Somalia.

**Craspedum phyllomorphum* (Latreille)*Syromastes phyllomorphus* Latreille, 1827:438.

Material: South Yemen: Dhala, 25.IX.1937, Scott & Britton,
 1 ex. (BM).
 Range: East African.

Pephricus subtilis Montandon*Pephricus subtilis* Montandon, 1913:275–277.

South Yemen: Aden (Montandon 1913).
 Range: Endemic.

*Pseudophloeinae**Clavigralla elongata* Signoret*Clavigralla elongata* Signoret, 1860:944.

Yemen: Hodeida, Wadi Bohl (Dolling 1979).
 Range: Widespread in Africa.

Clavigralla griseola (Linnavuori)*Acanthomia griseola* Linnavuori, 1978:35.

Material: South Yemen: Sheikh Othman-Lahej, 9–15.VII.
 1963, Linnavuori, holotype (LC).

Biology: On *Acacia*.
 Range: Otherwise known from Eritrea.

Clavigralla scutellaris (Westwood)*Coreus scutellaris* Westwood, 1842:291.*Acanthomia brevisrostris* Stål, 1873:291.

Material: South Yemen: Wadi Dareija near Dhala,
 6–9.XI.1937, Scott & Britton, 1 ex. (BM).

Range: Holosudanese. Also known from India.

*Alydidae***Euthetus granti* Kirkaldy*Euthetus granti* Kirkaldy, 1899:46.

Material: Yemen: near Ta'izz, 1 ex. (LC).
 Range: Previously known from Socotra.

Mirperus mucronatus (Reuter)*Eremoplanus mucronatus* Reuter, 1882a:90.*Mirperus xerophilus* Linnavuori, 1978:39.

Material: Yemen: Ta'izz on road to Mocha, 16.XII.1937,
 Scott & Britton, 2 exx. (BM).

**Nemausus sordidatus* (Stål)*Hypselopus sordidatus* Stål, 1858:315.

Material: South Yemen: Sheikh Othman-Lahej, 9–15.VII. 1963, Linnavuori, 3 exx. (LC).

Biology: On *Acacia* and *Salsola battae*.

Range: East Sudanese.

**Nariscus spinosus* (Burmeister)*Hypselopus spinosus* Burmeister, 1835:329.

Material: South Yemen: Lahej-Dhala road, 13–14.VII. 1963, 7 exx.; near Lahej, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: In dry sandy habitats.

Range: Eremo-Sahelian.

Nariscus conspurcatus Mancini*Nariscus conspurcatus* Mancini, 1946:67–68.

Material: Yemen: San'a, 4.XI.1931, Zenzurist, 1 ex. (LC).

Range: Known from Ethiopia, Somalia and south-western parts of Saudi Arabia.

Rhopalidae*Liorhyssus hyalinus* (Fabricius)*Lygaeus hyalinus* Fabricius, 1794:168.

Material: Yemen: several exx. from El Asr near San'a, 14.II.1938; Ghaiman near San'a, 18.II.1938; San'a, 1–7.III.1938; Usaifira near Ta'izz, 13.XII.1937, Scott & Britton; — South Yemen: Jebel Jihaf, IX.1937; Al Huseini near Lahej, 29.XI.1937, Scott & Britton; near Lahej, 13–14.VII.1963, Linnavuori (BM, LC).

Range: Cosmopolitan.

Peliochrous globisternum Linnavuori*Peliochrous globisternum* Linnavuori, 1978:42.

Material: South Yemen: near Dhala, 15.VII.1963, Linnavuori, holotype (LC); Jebel Jihaf, 7.X.1937, Scott & Britton, several exx.; — Yemen: Jebel Sumara, 2.I.1938, Scott & Britton, 1 ex. (BM, LC).

Range: Endemic.

Leptocoris chevreuxi (Noualhier)*Serinetha chevreuxi* Noualhier, 1898:233.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, 3 exx.: — South Yemen: Al Huseini near Lahej, 29.IX.1937, 1 ex.; Wadi Tiban near Jebel Jihaf, 21.X.1937, Scott & Britton, 1 ex.; Museimir, 7.III.1940, Petrie, 1 ex. (BM, LC).

Range: North Sudanese.

Pyrrhocoridae*Probergrothius dilectus* (Walker)*Odontopus dilectus* Walker, 1872:176.

Material: South Yemen: Aden, 1 ex. (BM). Little Aden, II.1985, Materlik, 2 exx. (MR).

Range: Endemic.

Scantius aegyptius (Linnaeus)*Cimex aegyptius* Linnaeus: 1758:447.

Material: Yemen: Altopiano Ashaf ca 65 km NW of Sa'dah, IX.1980, Borri & Poggesi, 1 ex.; Ghaiman near San'a, slopes of Jebel Girwan, 17.II.1938, Scott & Britton, some exx.; Hada near San'a, 14.I.1938, Scott & Britton, 1 ex.; San'a, 3–10.X.1937, Rathjens, some exx. (MF, BM, LC).

Range: Holomediterranean.

Scantius forsteri (Fabricius)*Cimex forsteri* (Fabricius, 1781:368.

Material: Yemen: Ghaiman near San'a, slopes of Jebel Girwan, 17.II.1938, Scott & Britton, 3 exx.; San'a, 3–10.XI.1937, Rathjens, some exx. (BM, LC).

Range: Nearly all Africa, the Mediterranean subregion, Iran, India.

**Dysdercus nigrofasciatus* Stål*Dysdercus nigrofasciatus* Stål, 1855:36.

Material: Yemen: Wadi Sheba ca 15 km NNW of Ju Amlah zona Jabal Jaddah, VI–VII.1981, Borri & Poggesi, 2 exx.; near San'a (Hada, Wadi Dhahr, San'a), 14.I.1938, Scott & Britton, many exx.; San'a, 2–9.X.1937, Rathjens, many exx.; — South Yemen: Jebel Jihaf, 4.X.1937, Scott & Britton, 1 ex.; near Lahej, 13–14.VII.1963, Linnavuori, 1 ex. (MF, BM, LC).

Range: Widespread in Africa, also known from Madagascar and the Seychelles.

**Dysdercus cardinalis* Gerstaecker*Dysdercus cardinalis* Gerstaecker 1873:416–417.

Material: South Yemen: Aden, III.1985, Materlik, 1 ex. (MR).

Range: Widespread in Africa.

Lygaeidae**Lygaeinae***Lygaeus dives ocellaris* Linnavuori*Lygaeus dives ocellaris* Linnavuori, 1978:46.

Material: South Yemen: near Dhala, holotype (LC).

Range: Endemic.

Spilostethus pandurus (Scopoli)*Cimex pandurus* Scopoli, 1763:126–127.

Material: Yemen: Al Alb ca 23 km N of Begin, VI–VII.1981, 4 exx.; Ju Amlah ca 26 km NW of Sa'dah, 1950 m, VI–VII.1981, 3 exx.; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, IX.1980, Borri & Poggesi, 1 ex. (MF, LC); — South Yemen: Aden, III.1984, Wranik, 4 exx. (MR).

Range: Paletropical.

Spilostethus longulus (Dallas)*Lygaeus longulus* Dallas, 1852:447.

Material: South Yemen: Anad near Lahej, 13–14.VII.1963, Linnavuori, 2 exx. (LC). Little Aden, III.1985, Materlik, 1 ex. (MR).

Range: Eremian (North Africa, the Middle East, Nigeria, Eritrea, Ethiopia, the Sudan).

**Spilostethus mimus* (Stål)*Lygaeus mimus* Stål, 1865:137–138.

Material: Yemen: Wadi Madi ca 21 km WNW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi, 1 ex; Dam on banks of Wadi Bana near Yarim, IX.1942, Petrie, 1 ex.; — South Yemen: Jebel Harir, 26.X–6.XI.1937, Scott & Britton, 3 exx. (MF, BM, LC).

Range: Holosudanese.

**Spilostethus furculus* (Herrich-Schaeffer)*Lygaeus furculus* Herrich-Schaeffer, 1850:197.

Material: South Yemen: Jebel Jihaf, 26.X–6.XI.1937, Scott & Britton, some exx. (BM, LC). Little Aden, IX–XI.1984, Materlik, 2 exx. (MR).

Range: Nearly all Africa, Spain.

Spilostethus rivularis epimetheus Linnavuori*Spilostethus rivularis epimetheus* Linnavuori, 1974c:23–24.

Material: Yemen: many exx. from Ghaiman near San'a, slopes of Jebel Girwan, 17.II.1938; Hadanear San'a, I.1938; Jebel Jelal above Nakil Isla, 8.III.1938; Jebel Kohl near San'a, 1.II.1938; Jebel Masnah SW of Ma'bar, 9.III.1938; Jebel Sumara, 2.I.1938; San'a, I.1938; Wadi Ghailana, tributary of Wadi Siham, 11.III.1938, Scott & Britton; — South Yemen: Jebel Jihaf, 4.X.1937, Scott & Britton (BM, LC).

Range: A monticolous species inhabiting Ethiopia and the Imatong Mountains in the Sudan.

**Cosmopleurus fulvipes* (Dallas)*Lygaeus fulvipes* Dallas 1852:536.

Material: South Yemen: Little Aden, IX–XI.1984, Materlik, 2 exx. (MR).

Range: Eremian.

**Caenocoris nerii* (Germar)*Lygaeus nerii* Germar, 1847:17.

Material: South Yemen: Jebel Harir, 26.X–6.XI.1937, 2 exx.; Wadi Tiban, NW of Jebel Jihaf, 21.X.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Holomediterranean.

**Arocatus suboeneus* Montandon*Arocatus suboeneus* Montandon, 1893:404–405.

Material: South Yemen: many exx. from Jebel Harir, 29.X.1937, Jebel Jihaf, Wadi Lejj, 28.IX.1937, Scott & Britton (??).

Biology: On wild *Clematis*.

Range: East African, described from Mozambique.

**Stenaptula angusticollis* (Lindberg) sensu lato*Apterola angusticollis* Lindberg, 1938:13–14.

Material: Yemen: some exx. from Bait Baus near San'a, 28.I.1938; San'a, Gheil-el-Alaf, 5.VIII.1938, Scott & Britton; — South Yemen: Wadi Dareija, SW of Dhala, 9.XI.1937; Wadi Tiban, NW of Jebel Jihaf, 22.X.1937, Scott & Britton (BM, LC).

Range: Eremian.

**Paranysius fallaciosus* (Puton)*Arocatus fallaciosus* Puton 1895:85.

Material: South Yemen: Aden, I.1984, Wranik, 1 ex. (MR).

Range: Eremian.

Orsillinae

**Nysius thymi latus* Wagner*Nysius latus* Wagner, 1958:26–27.

Material: Yemen: some exx. near Ta'izz, 16.XII.1937, Scott & Britton (BM, LC).

Range: Apparently widely distributed in Africa.

**Nysius ericae* (Schilling)*Heterogaster ericae* Schilling, 1829:86–87.

Material: Yemen: Ghaiman about 9 miles SE of San'a, 18.II.1938, Scott & Britton, some exx. (BM, LC).

Range: Cosmopolitan.

**Nysius senecionis binotatus* (Germar)*Cymus binotatus* Germar, 1837:138.*Nysius albidus* Dallas, 1852:555.*Nysius gastricus* Bergroth, 1920:4–5.

Nysius aegyptiacus Priesner & Alfieri, 1953:43 (synonymies proposed in a personal letter from G. Schmitz)

Material: Yemen: several exx. from Ghaiman near San'a, 18.II.1938; Jebel Jelal, 8.III.1938; near Ta'izz, 16.XII.1937; Wadi Sabir, N face of Jebel Sabir, 25–26.XII.1937, Scott & Britton; — South Yemen: Jebel Jihaf, IX.1937, Scott & Britton (BM, LC).

Range: Egypt, Israel, Saudi Arabia. Widely distributed in Africa.

**Nysius cymoides* (Spinola 1937)

Artheneis cymoides Spinola, 1837:252–253.

Material: Yemen: several exx. from Ghaiman near San'a, 18.II.1938; San'a, I.1938; near Ta'izz, 16.XII.1937, Scott & Britton; — South Yemen: Wadi Kebir near Lahej, 13–14.VII.1963, Linnavuori (BM, LC).

Range: Holomediterranean.

**Nysius graminicola stali* Evans

Nysius stali Evans, 1929:268–269.

Nysius pallidus Evans, 1929:269 (synonymy proposed in a personal letter from G. Schmitz).

Material: Yemen: many exx. from Kaa-el-Hagle SW of Yarim, 3.I.1938; San'a, 1.III.1938; Ta'izz, 16.XII.1937, Scott & Britton (BM, LC).

Range: Widespread in Africa.

**Camptocoris longicornis* (Puton)

Nysius longicornis Puton, 1874:439–440.

Material: Yemen: Ghaiman near San'a, slopes of Jebel Girwan, 17.II.1938, Scott & Britton, 1 ex. (BM).

Range: Eremian.

Ischnorrhynchinae

Pylorgus stramineus Linnavuori

Pylorgus stramineus Linnavuori, 1978:54.

Material: Yemen: Jebel Jelal above Nakil Isla, 8.III.1938, Scott & Britton, 1 ex.; — South Yemen: Jebel Harir, 3–4.XI.1937, Scott & Britton, 2 exx. (BM, LC).

Range: Endemic.

Pylorgus incognitus Linnavuori

Pylorgus stramineus Linnavuori, 1978:54.

Material: South Yemen: Jebel Harir, 2–4.XI.1937, Scott & Britton, 4 exx. (BM, LC).

Range: Endemic.

Blissinae

**Dimorphopterus hirtulus* (Burmeister)

Blissus hirtulus Burmeister, 1835:290.

Material: South Yemen: Jebel Jihaf, 4.X.1937, 1 ex.; Wadi Hardaba, 11.IX.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Holomediterranean.

**Dimorphopterus brachypterus* (Rambur)

Pachymerus brachypterus Rambur, 1839:153.

Micropus curtulus Dohrn, 1860:161–162.

Material: Yemen: some exx. from Ghaiman near San'a, 18.II.1937, Scott & Britton, — South Yemen: Jebel Jihaf, 20.IX.1937, Scott & Britton (BM, LC).

Range: Holomediterranean.

Henestarinae

**Engistus exsanguis* Stål, 1872

Engistus exsanguis Stål, 1872:45.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1937, Linnavuori, 2 exx. (LC).

Range: Eremian.

Geocorinae

**Geocoris luridus* (Fieber)

Ophthalmicus luridus Fieber, 1844:114–115.

Material: South Yemen: Al Huseini near Lahej, 29.IX.1937, Scott & Britton, 3 exx. (BM, LC).

Range: Holomediterranean.

**Geocoris acuticeps* Signoret

Geocoris acuticeps Signoret, 1881:1.

Material: Yemen: near El Azraqain near San'a, 31.I.1938, Scott & Britton, 1 ex. (BM).

Range: Eremian.

**Geocoris lineolus cognatus* (Fieber)

Ophthalmicus cognatus Fieber, 1861:273.

Geocoris lineola notabilis Montandon, 1907:93.

Material: South Yemen: Jebel Jihaf, 19.IX.1937, Scott & Britton, 1 ex. (BM).

Range: Widespread in Africa, the nominate form Holomediterranean.

****Geocoris aethiops* Distant**

Geocoris aethiops Distant, 1901:469–470.

Material: Yemen: many exx. from Usaifira near Ta'izz, 13.XII.1937, Scott & Britton; — South Yemen: Al Huseini near Lahej, 29.XI.1937; Jebel Harir, 27.X.1937; Wadi Dareija near Dhala, 6–9.XI.1937, Scott & Britton (BM, LC).

***Geocoris pulchricornis calligonii* Linnavuori**

Geocoris calligonii Linnavuori, 1972c:105 (Linnavuori 1986:82–83).

Material: South Yemen: Wadi Kebir near Lahej, 13–14.VII.1963, some exx., including the holotype (LC).

Biology: On *Calligonum comosum*.

Range: Eremian. Also known from Saudi Arabia.

****Geocoris nigriceps* Reuter**

Geocoris nigriceps Reuter, 1891:137.

Geocoris henoni Puton, 1892:26.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, 2 exx.; Sheik Othman-Lahej, 9–15.VII.1963, Linnavuori, 4 exx. (LC).

Biology: On *Salsola battae* in sandy habitats.

Range: Eremian.

****Stenophthalmicus punctatulus* Linnavuori**

Stenophthalmicus punctatulus Linnavuori, 1964:313–314.

Material: South Yemen: Anad near Lahej, 9–15.VII.1963, Linnavuori, holotype and a paratype (LC).

Biology: On *Panicum* sp. on inland dunes.

Range: Eremian. Also known from the Sudan.

Oxycareninae****Macropternella inermis* (Fieber)**

Oxycarenus inermis Fieber, 1852:464.

Material: Yemen: Beit el Ghafr N of Haz, near San'a, 4.II.1938, Scott & Britton, 1 ex.; — South Yemen: Al Huseini near Lahej, 29.XI.1937, Scott & Britton, 1 ex.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (BM, LC).

Range: Holomediterranean with a southern distribution.

****Leptodemus minutus* (Jakovlev)**

Macropterna minuta Jakovlev, 1876:64–66.

Material: Yemen: Beit el Ghojr N of Haz, near San'a, 4.II.1938, Scott & Britton, 1 ex. (BM).

Range: Eremian.

****Microplax carmini* (Linnavuori)**

Camptotelus carmini Linnavuori, 1960:38.

Microplax carmini Hoberlandt 1987:21.

Dr. L. Hoberlandt has informed me in a letter that the species described by me as *Camptotelus carmini* (Linnavuori 1960) is in fact a member of the genus *Microplax* Fieber.

Material studied: Yemen: Ghaiman near San'a, 18.II.1938, Scott & Britton, 1 ex. (BM).

Range: Previously known from Israel.

****Oxycarenus hyalinipennis* (Costa)**

Aphanus tardus var. *hyalinipennis* Costa, 1847:184–185.

Material studied: Yemen: Naquil Isla, 21.II.1946, Waterston, many exx. (BM); — South Yemen: Wadi Kebir, near Lahej, 13–14.VII.1963, Linnavuori, 2 exx. (LC).

Range: Cosmopolitan in warm regions.

****Oxycarenus zavattarii* Mancini**

Oxycarenus zavattarii Mancini, 1939:210–211.

Material studied: Yemen: many exx. from San'a, I–II.1938, Wadi Dhahr near San'a, 21.I.1938, Scott & Britton (BM, LC).

Range: A monticolous species known from Eritrea, Ethiopia, Somalia and SW Arabia.

***Oxycarenus cruciatus* Linnavuori**

Oxycarenus cruciatus Linnavuori, 1978:64–65.

Material studied: South Yemen: near Lahej, 13–14.VII.1963, Linnavuori, 1 ex.; Wadi at foot of Jebel Harir, 3.XII.1937, Scott & Britton, 2 exx. (BM, LC).

Range: A monticolous species inhabiting the mountain ranges bordering the Red Sea. Known from the Sudan, Ethiopia and Somalia.

Artheneinae****Artheneis beieri* Wagner**

Artheneis beieri Wagner, 1963a:482.

Material studied: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: On *Tamarix*.

Range: Eremian. Known from the Sudan and Egypt.

Pachygronthinae****Teracrius namaquensis* Stål**

Teracrius namaquensis Stål, 1858:317.

Material studied: South Yemen: near Dhala, 1 ex. (LC).

Range: East African.

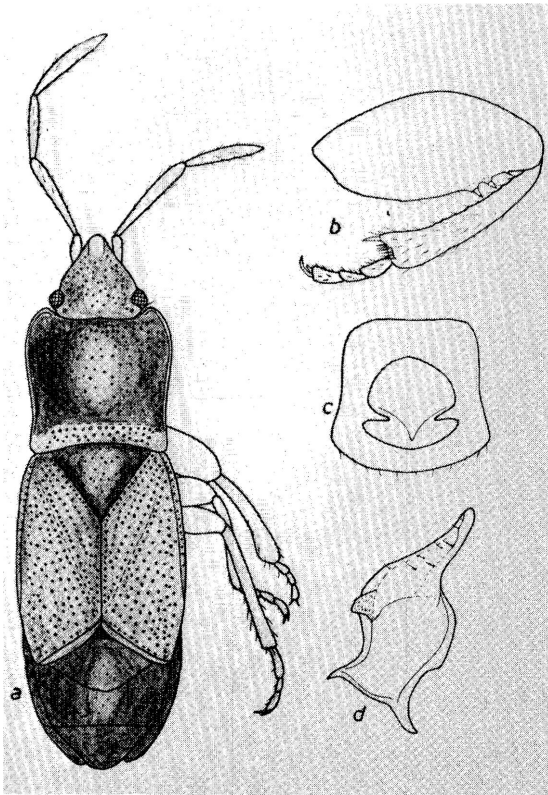


Fig. 7. *Plinthisus debaroensis* sp.n.: a) dorsal view; b) fore leg; c) pygofer in dorsal view; d) style.

Megalonotinae

Plinthisus himyaritus Linnavuori

Plinthisus himyaritus Linnavuori, 1978:69.

Material studied: South Yemen: Jebel Jihaf, 20.IX.1937, Scott & Britton, holotype and 2 paratypes (BM, LC).
Range: Endemic.

Plinthisus (s.str.) *debaroensis* sp.n.

Fig. 7.

Material: Eritrea: Debaroa, VII.1901, Andreini, 1♂, holotype (MF).

Length 2.5 mm. Relatively shiny. Reddish brown. Tylus slightly paler, eyes grayish brown. Antennae yellowish. Lamellate lateral margins and posterior lobe of pronotum and elytra slightly paler, with yellowish brown tings. Legs yellowish brown.

Body elongate, 2.5 × as long as greatest width, flattish. Hair covering short, pale. Head distinctly and

relatively densely punctate; ocular index 4.2. Antennae long and gracile, with semidecumbent pale hairs; proportions between joints 11:23:20:23 (diatone 31, basal width of pronotum 50 units). Rostrum extending to hind coxae. Pronotum 1.28 × as broad basally as long in middle, broadest in middle of anterior lobe; anterolateral angles roundedly prominent, lateral margins of anterior lobe curvate, converging caudad, those of the basal lobe subparallel; anterior lobe somewhat convex, distinctly and densely punctate, finely microsculptured; basal lobe flattish, coarsely and densely punctate, punctures distinctly larger than on anterior lobe. Scutellum densely punctate, size of punctures as on anterior lobe of pronotum. Elytra leaving the two last tergites and the mediobasal part of the preceding tergite uncovered; costal margins subparallel basally, moderately curved apically, membrane rudiment strap-like, distinct; puncturing of elytra coarse and dense, size of punctures as on posterior lobe of pronotum. Tergites distinctly shagreened, finely punctate, last tergite also wrinkled. Venter rugose, with dense longish smooth hair covering. Fore femur (Fig. 7b) incrassate, ventral margin with two sharp subapical teeth, fore tibia nearly straight, edentate.

Male genitalia in Fig. 7c-d.

Apparently a member of *Plinthisus* s.str. Readily distinguished from all known species by the very small size, shape of the pronotum and type of the puncturing.

**Camptocera glaberrima* (Walker)

Rhyparochromus glaberrimus Walker, 1872:94.

Material: Yemen: Birkat Gheil Masnah SW of Ma'bar, 9.III.1938, Scott & Britton, 1 ex.; — South Yemen: Al Huseini near Lahej, 27.XI.1937, Scott & Britton, 1 ex. (BM).

Range: Eremian.

**Lophoraglius notabilis* (Distant)

Lethaeus notabilis Distant, 1911:310-311.

Material: Yemen: San'a, 12.I.1938, Scott & Britton, 1 ex.; — South Yemen: Jebel Harir, 3.XI.1937, 2 exx.; Wadi Dareija near Dhala, 7-8.XI.1937, Scott & Britton, 3 exx. (BM, LC).

Range: Known from Ceylon and South Africa.

Lophoraglius fasciatus Linnavuori

Lophoraglius fasciatus Linnavuori, 1978:78.

Material: Yemen: San'a, 7-8.IX.1937, Rathjens, 2 exx.; — South Yemen: Jebel Jihaf, X. 1937, Scott & Britton, 1 ex. (BM, LC).

Range: Also known from the Red Sea mountains in the Sudan.

**Lethaeus fulvovarius* Puton*Lethaeus fulvovarius* Puton, 1884:142–143.

Material: Yemen: Ju Amlah ca 26 km NW of Sa'dah, 1950 m, IX.1980, Borri & Poggesi, 1 ex. (MF).

Range: Eremian.

Lethaeus dryas Linnavuori*Lethaeus dryas* Linnavuori, 1978:75.

Material: South Yemen: near Lahej, 9–15.VII.1963, Linnavuori, 2 exx. (LC).

Range: Also known from the Sudan and Somalia.

**Lethaeus lethierryi* (Puton)*Coptoneurus lethierryi* Puton, 1869:142.

Material: Yemen: Ju Amlah ca 26 km NW of Sa'dah, 1950 m, XI.1979, Borri, Lanza & Poggesi, 1 ex. (MF).

Range: Eremian.

Stilbocoris arabicus Linnavuori*Stilbocoris arabicus* Linnavuori, 1978:81.

Material: South Yemen: Jebel Jihaf, Wadi Leje, 14.X.1937, Scott & Britton, 2 exx. (BM, LC).

Range: Endemic.

Eremocoris gracilis Linnavuori*Eremocoris gracilis* Linnavuori, 1968:199–200.

Material: Yemen: El Errein near Haz near San'a, 3.II.1938, Scott & Britton, holotype (BM).

Range: Endemic.

Taphropeltus ornatus Linnavuori*Taphropeltus ornatus* Linnavuori, 1978:83–84.

Material: Yemen: El Errein near Haz near San'a, 3.II.1938, Scott & Britton, 1 ex. (BM).

Range: A monticolous species, also known from the Red Sea mountains in Eritrea and Somalia.

**Lasiosomus lasiosomoides* (Bergevin)*Seuratina lasiosomoides* Bergevin, 1930:33–34.

Material: Yemen: near San'a, 1 ex. (LC).

Range: A monticolous species known from East Africa, the Sudan and the Hoggar Mountains.

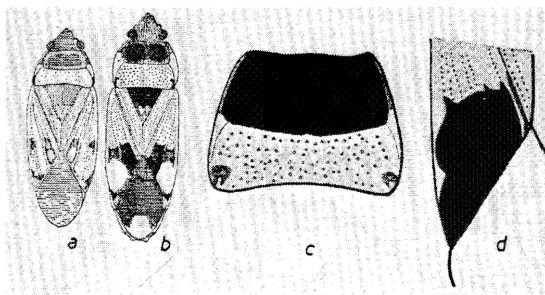


Fig. 8. *Rhyparochromus pallidicornis* Reuter: a) dorsal view. — *R. walkeri* (Saunders): b) dorsal view. — *R. arabicus* (Linnavuori): c) pronotum; d) apex of elytron. After Wagner 1961 and Linnavuori 1978.

Paromius gracilis (Rambur)*Stenocoris gracilis* Rambur, 1839:140.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Range: Holomediterranean with a wide range in the Ethiopian Region.

Acroraglius dentatus Wagner*Acroraglius dentatus* Wagner, 1961a:85–87.

Material: South Yemen: Wadi at foot of Jebel Harir, 2.XI.1937, Scott & Britton, 3 exx. (BM, LC).

Range: Also known from Chad and the Sudan.

Caprochromus brevis (Lethierry)*Pachymerus brevis* Lethierry, 1883:746–747.

Material: Yemen: Jebel Sumar, 2.I.1938, 2 exx.; Migyal al Alaf, 24.II.1938, Scott & Britton, 1 ex. (BM, LC).

Range: A monticolous species also known from Ethiopia and the Imatong Mountains in the Sudan.

Naphius apicalis (Dallas)*Rhyparochromus apicalis* Dallas, 1852:562–563.

Material: Yemen: Usaifira, near Ta'izz, 13.XII.1937, Scott & Britton, 2 exx. (BM, LC).

Range: Widespread in tropical Africa.

Naphius scorteccii (Mancini)*Rhyparochromus scorteccii* Mancini, 1964:299–301.

Material: South Yemen: Anad near Lahej, 9–15.VII.1963, 3 exx.; Lahej, 9–15.VII.1963, Linnavuori, 1 ex. (LC).

Range: Known from Somalia, French Somaliland, Saudi Arabia, and Aden.

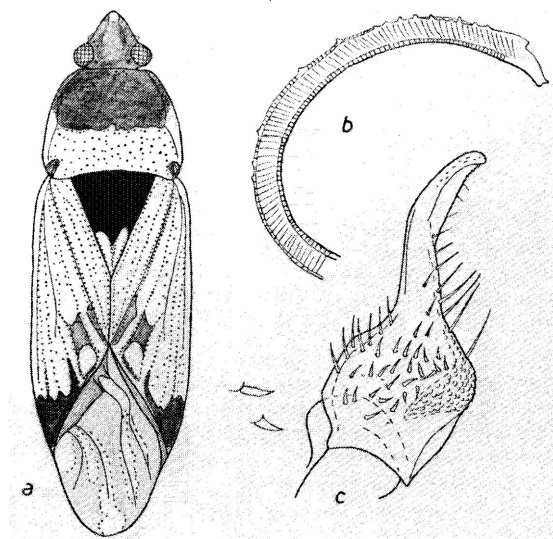


Fig. 9. *Rhyparochromus sabulicola* sp.n.: a) dorsal view; b) apex of vesica. — *Elasmolomus transversus* (Signoret): c) style.

Elasmolomus transversus (Signoret)

Rhyparochromus transversus Signoret, 1860:950.

Material: Yemen: Jebel Sumara, 2.I.1938, Scott & Britton, 1 ex.; — South Yemen: Dhala, 23–25.IX.1937, 1 ex.; Jebel Jihaf, 18–19.IX.1937, Scott & Britton, 2 exx. (BM, LC).

Range: Widespread in tropical Africa.

**Rhyparochromus (Liolobus) pallidicornis* (Reuter)

Aphanus pallidicornis Reuter, 1891:140–141.

Material: South Yemen: Aden, Simon, 1♀ (Mus. Helsinki).

Fig. 8a. Closely related to *R. sabulicola*, but differing as follows: Size much smaller, length ♂ 4.0–4.1 mm, ♀ 4.5 mm. Coloring: Strikingly pale. Ground color with yellowish tinge. Fourth antennal segment only slightly infumed. Puncturing on upper surface light brown. Costal margins of elytra with fuscous subapical spot (absent in *R. sabulicola*). Under surface orangish. Legs pale yellow, only fore femora slightly darkened. Structure: Body more broadly ovate. Pronotum broader, 1.67 × as broad as long in middle; puncturing on posterior lobe dense and fine. Base scutellum impunctate. Puncturing on elytra also remarkably fine, that between 1st and 3rd puncture rows (counted from upper margin) on clavus very irregular.

Range: Previously known from Egypt.

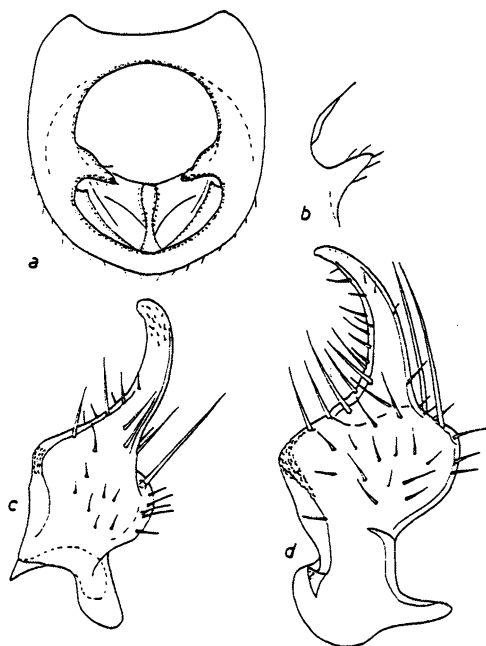


Fig. 10. *Rhyparochromus arabicus* (Linnavuori): a) pygofer, dorsal view; b) lateral lobe of genital opening; c) style. — *R. sabulicola* sp.n.: d) style.

Rhyparochromus (Liolobus) arabicus (Linnavuori), comb.n.

Elasmolomus arabicus Linnavuori, 1978:92.

Material: South Yemen: Lahej-Dhala road, 9–15.VII.1963, Linnavuori, holotype and a paratype, Figs. 8c–d, 10a–c (LC).

Biology: At lamp in inland dunes.

Range: Endemic.

Rhyparochromus (Liolobus) sabulicola sp.n.

Figs. 9–10.

Material: South Yemen: Lahej-Dhala road, 9–15.VII.1963, Linnavuori, 1♂, holotype (LC).

Length 5 mm. Shiny. Head opaque, blackish brown, apex of tylus and middle of vertex slightly paler; eyes reddish brown, ocelli red. Antennae pale ochraceous, 4th joint fuscous. Anterior lobe of pronotum opaque, blackish brown, lateral margins of anterior lobe uniformly dark brown; other parts of pronotum whitish ochraceous, puncturing of posterior lobe brown, humeral angles with ring-shaped blackish

spot. Scutellum black, apex whitish ochraceous with brown punctures along lateral margins and in middle. Elytra whitish ochraceous with brown puncturing; apical angle of corium blackish, apical part of mesocorium with fuscous spot near mediobasal angle; membrane brownish with pale areas along veins. Under surface reddish brown, caudal margins of metapleura whitish. Legs pale ochraceous, fore femora dark brown with tips pale, middle and hind femora with dark brown rings.

Body parallel-sided, gracile, $3.34 \times$ as long as broad at base of pronotum. Head $0.64 \times$ as broad as pronotum, opaque, densely shagreened, very indistinctly punctate, with short adpressed silvery hairs; eyes large, ocular index 2.21. Antennae long, 1st joint with a few dark bristles, other joints with short adpressed hairs; proportions between segments 25:60:50:63, 2nd joint $0.98 \times$ as long as diatone, $0.63 \times$ as long as basal width of pronotum. Rostrum extending to middle coxae. Pronotum $1.46 \times$ as broad as long in middle, lateral margins somewhat curvate, distinctly lamellate, only slightly diverging caudad; anterior margin punctate, anterior lobe convex, densely shagreened, opaque, puncturing sparse and very indistinct, along lateral margins coarser, hair covering short, adpressed, pale; basal lobe coarsely and sparsely punctate. Scutellum $1.15 \times$ as long as broad, distinctly punctate. Elytra as long as abdomen, parallel-sided, puncturing distinct and dense; clavus with four puncture rows, the 2nd row (counted from upper margin) irregular. Under surface densely shagreened, subopaque, with fine adpressed hair covering, puncturing indistinct, on pro- and mesothorax \pm coarse. Fore femur (σ) with 3 small apical teeth, one large subapical tooth and two largish teeth in middle.

Male genitalia in Figs. 9a–b, 10d. Hypophysis of style longer and slenderer than in *arabicus*.

Biology: At lamp in inland dunes.

The subgenus *Liolobus* Reuter, 1885, was thoroughly redescribed by Wagner (1961). It differs from *Elasmolomus* Stål, 1872, (regarded as a valid genus, e.g. in Scudder 1967, recently, and apparently correctly, as a subgenus of *Rhyparochromus* Hahn, 1826, in Hsiao et al. 1981) in the narrow body, the much narrower and more parallel-sided pronotum with the anterior lobe considerably more convex and very indistinctly punctate and the anterior part of the lateral margins uniformly blackish (in *Elasmolomus* pale with a dark middle spot), and in the shape of the style: hypophysis relatively short, sensory lobe provided with two very long stout bristles. Style of *Elasmolomus transversus* (Signoret) in Fig. 9c.

The range of *Liolobus* extends from the coastal areas of the Red Sea to the Pontomediterranean sub-region.

Key to the species of *Liolobus*

- 1 (2) Antennae and legs uniformly pale yellowish. Pattern as in Fig. 8a..... *pallidicornis* (Reuter, 1891)
- 2 (1) Antennae and legs bicolored..... 3
- 3 (4) Only apical angle of corium blackish (Fig. 9a). Membrane without pale apical spot..... *sabulicola* sp.n.
- 4 (3) Apical part of corium with more conspicuous blackish markings; membrane with pale apical spot..... 5
- 5 (6) Nearly entire apical third of corium blackish (Fig. 8d) with only costal margin pale. . . *arabicus* (Linnavuori)
- 6 (5) Apical third of corium blackish with a large pale middle spot (Fig. 8b) *walkeri* (Saunders, 1876) (Malta, Yugoslavia, Cyprus)

**Distadieuches rudolfianus* (Distant)

Lachnophoroides rudolfianus Distant, 1918:262.

Material: South Yemen: Jebel Harir, 26.X–6.XI.1937, 1 ex.; Wadi Dareija SW of Dhala, 6–9.XI.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Also known from the Sudan.

Dieuches africanus (Distant)

Maxaphanus africanus Distant, 1918:265.

Yemen: Wadi Dhahr about 6 miles NW of San'a (Eyles 1973).

Range: Widespread in tropical Africa.

**Dieuches coenosus* (Stål)

Beosus coenosus Stål, 1865a:172.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, some exx. (BM, LC).

Range: Widespread in tropical Africa.

**Dieuches mucronatus* (Stål)

Beosus mucronatus Stål, 1865:168.

Material: Yemen: San'a, VIII.1946, Waterston, 1 ex.; — South Yemen: near Lahej, 1–15.VII.1963, Linnavuori, 1 ex. (BM, LC).

Range: Eremian.

Dieuches syriacus Dohrn

Dieuches syriacus Dohrn, 1860:159.

Yemen: Hada SW of San'a; Santa; Sanaa; Ghainmar about 9 miles SE of San'a, slopes of Jebel Girwan (Eyles 1973).

Range: Pontomediterranean.

Dieuches similis Mancini*Dieuches similis* Mancini, 1948:224–225.

Material: South Yemen: near Lahej, 3–15.VII.1963, Linnavuori, 2 ex. (LC).

Other records: South Yemen: Jebel Harir (Eyles 1973).

Range: Probably Eremo-Sahelian, known from Ethiopia, Somalia, the Sudan, Chad, and Cameroon.

**Dieuches armatipes* (Walker)*Rhyparochromus armatipes* Walker 1872:91–92.

Material: South Yemen: Aden, II.1985, Fadl, 1 ex. (MR).

Range: Widespread in Africa.

**Dieuches opaciclavus* Eyles*Dieuches opaciclavus* Eyles 1973:283–285.

Material: South Yemen: Aden, II.1985, Wranik, 1 ex. (MR).

Range: NE Africa (Ethiopia, Somalia, Kenya, Uganda).

Poecantius dhalaicus Linnavuori*Poecantius dhalaicus* Linnavuori, 1978:94–95.

Material: South Yemen: Lahej-Dhala road, 13–15.VII.1963, Linnavuori, holotype (LC).

Range: Endemic.

**Polycrates pilosus* (Signoret)*Piezoscelis pilosa* Signoret, 1884:56.

Material: South Yemen: Jebel Jihaf, 4.X.1937, Scott & Britton, some ex. (BM, LC).

Range: Holosudanese.

**Polycrates bourboni* Bergevin*Polycrates bourboni* Bergevin, 1934:109–111.

Material: near Lahej, 9–15.VII.1963, 2 exx.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 7 ex. (LC).

Biology: At lamp in sandy habitats.

Range: Eremian.

**Anepsiocoris encaustus* (Puton)*Anepsius encaustus* Puton, 1869:143–144.

Material: South Yemen: Al Huseini near Lahej, 27.XI.1937, Scott & Britton, 1 ex. (BM).

Range: Eremian.

Tethalotrum longicollis Linnavuori*Tethalotrum longicollis* Linnavuori, 1978:99.

Material: Yemen: Beit Baus near San'a, 28.I.1938, Scott & Britton, holotype and a paratype; — South Yemen: Jebel Jihaf, IX.1937, Scott & Britton, 1 paratype (BM, LC).

Range: Endemic.

**Emblethis gracilicornis* Puton*Emblethis gracilicornis* Puton, 1883:13–14.*Emblethis oblongus* Wagner, 1959:327.

Material: Yemen: Hodeida, IX.1944, Waterston, 2 exx.; — South Yemen: near Lahej, 9–14.VII.1963, 4 exx.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (BM, LC).

Biology: At lamp in sandy habitats.

Range: Eremian.

**Emblethis pusillus* Priesner & Alfieri*Emblethis pusillus* Priesner & Alfieri, 1953:59–60.

Material: South Yemen: near Lahej, 9–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: At lamp in sandy habitats.

Range: Eremian, also known from Egypt, the Sudan and Somalia.

Berytidae**Metacanthus mollis* Stusák*Metacanthus mollis* Stusák, 1964:115–116.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 2 ex. (LC).

Range: Holosudanese. Also known from Somalia and Saudi Arabia.

Cryptostemmatidae**Ceratocombus enderleini* Poppius*Ceratocombus enderleini* Poppius, 1910a:1–14.

Material: South Yemen: Wadi Dareija SW of Dhala, 6–9.XI.1937, Scott & Britton, 3 ex. (BM, LC).

Range: Widespread in tropical Africa.

Anthocoridae**Anthocorinae***Orius flagellum* Linnavuori*Orius flagellum* Linnavuori, 1968:200.

Material: Yemen: Ertil near San'a, 24.II.1938, 1 ex.; Wadi Thabad, N face of Jebel Sabir, 25–26.XII.1937, Scott & Britton, 4 exx.; — South Yemen: Jebel Jihaf, 29.IX.1937, holotype and 1 ex.; Wadi Dareija SW of Dhala, 9.XI.1937, Scott & Britton, 2 ex. (BM, LC).

Range: Endemic.

**Orius albidipennis* (Reuter)

Triphleps albidipennis piceus Reuter, 1884a:96.
Orius albidipennis piceus Wagner, 1952:52.

Material: Yemen: several exx. from Usaifira near Ta'izz, 22.XII.1937, Scott & Britton. — South Yemen: Jebel Jihaf, 4.X.1937; Wadi Dareija near Dhala; 9.XI.1937; Wadi at foot of Jebel Harir, 31.X.1937, Scott & Britton (BM, LC).

Biology: On *Polygonum senegalense*.

Range: Holomediterranean.

Lyctocorinae

Xylocoris flavipes (Reuter, 1875)

Piezostethus flavipes Reuter, 1875:65.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: At lamp in a sandy habitat.

Range: Tropicopolitan.

**Xylocoris confusus* Carayon

Xylocoris confusus Carayon, 1972:1–28.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 3 exx. (LC).

Biology: At lamp in sandy habitats.

Range: Eremian.

Cimicidae

Cimex lectularius Linnaeus

Cimex lectularius Linnaeus, 1758:441.

Material: Yemen: some exx from San'a, 26.II.1938, Scott & Britton, 16–23.X.1938, Rathjens (BM).

Range: Cosmopolitan.

Cimex hemipterus (Fabricius)

Acanthia hemiptera Fabricius, 1803:113.

Material: Yemen: Wadi Jaira, 22.II.1946, Waterston, 1 ex. (BM).

Range: Tropicopolitan.

Enicocephalidae

Oncylocotis occipitalis (Jeannel)

Didymocephalus anthocoroides occipitalis Jeannel, 1941:345.

Material: Yemen: Wadi Siham, SE of Obal, 11.III.1938, Scott & Britton, 1 ex.; some exx. from South Yemen: Wadi Dareija SW of Dhala, 10.XI.1937; Wadi Tiban NW of Jebel Jihaf, 21.X.1937, Scott & Britton (BM, LC).

Range: Widespread in tropical Africa.

Reduviidae

Emesiinae

Tinna zonata Miller

Tinna zonata Miller, 1954:393.

Yemen: Jebel Girwan about 9 miles SE of San'a; Hada about 4 miles SW of San'a; South Yemen: Wadi Dareija (Miller 1954).

Range: Endemic.

Holoptilinae

Putoniola arabica Dispons

Putoniola arabica Dispons, 1966:101–102.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, holotype (LC).

Biology: At lamp in inland dunes.

Range: Endemic.

Stenopodinae

Sastrapada arabica Linnavuori

Sastrapada arabica Linnavuori, 1974a:129–130

Material: South Yemen: Wadi Dareija, 6–9.XI.1937, 2 exx.; Jebel Harir, 26.X–6.XI.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Endemic.

Oncocephalus asiranus Miller

Oncocephalus asiranus Miller, 1954:395.

Material: Yemen: Wadi Ar Akua ca 36 km NW of Sa'dah, 1950 m, IX.1980, Borri & Poggesi, 2 exx.; Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, IX.1979, Borri, Lanza & Poggesi ?? exx.; several exx. from Wadi Ghailama, tributary of Wadi Siham, 11.III.1938; Wadi Jaira, tributary of Wadi Siham, 10.III.1938; Barrah, on road to Mocha near Ta'izz, 16.XII.1937, Scott & Britton; South Yemen: Lahej, 9–15.VII.1963, Linnavuori, 1 ex.; several exx. from Al Huseini near Lahej, 26–29.XI.1937; Jebel Harir, 26.X–6.XI.1937; Jebel Tiban near Jebel Jihaf, 21.X.1937; Wadi Dareija near Dhala, 6–9.X.1937, Scott & Britton; Zingibar, XII.1982, Wranik, 1 ex. (MF, BM, LC, MR).

Range: Endemic (also in Saudi Arabia).

**Oncocephalus squalidus* (Rossi)

Reduvius squalidus Rossi, 1790:258.

Material: Yemen: San'a, II.1938, Scott & Britton, 2 exx., South Yemen: near Lahej, 9–15.VII.1963, Linnavuori, several exx. (BM, LC).

Biology: At lamp in sandy habitats.

Range: Holomediterranean.

**Oncocephalus obsoletus* Klug

Oncocephalus obsoletus Klug, 1830: t. 19, fig. 2.
Oncocephalus fasciatellus Dispons, 1962:31 (Linnavuori 1986:110).

Material: South Yemen: Lahej, 9–15.VII.1963, Linnavuori, 2 exx. (LC).

Biology: At lamp in sandy habitats.

Range: Eremian.

Reduviinae*Empyrocoris arabicus* Miller

Empyrocoris arabicus Miller, 1956:12–13.

South Yemen: Aden (Miller 1956).

Range: Endemic.

Holotrichius brittoni Miller

Holotrichius brittoni Miller, 1954:398.

Material: South Yemen: some exx. from Dhala, 12–14. IX.1937; Wadi Dareija SW of Dhala, 6–9.XI.1937, Scott & Britton (BM, LC).

Range: Endemic.

Holotrichius nitidicollis Linnavuori

Holotrichius nitidicollis Linnavuori, 1964:319.

Material: Yemen: San'a, holotype (LC). The following females probably also belong to this species: Ju Amlah ca 26 km NW of Da'dah, 1950 m, IX.1980, 2 exx.; Madaq, sulla pita di Maqsalca ca 25 km Ju Amlah, IX.1980, Borri & Poggesi, 1 ex. (MF, LC).

Range: Endemic.

Pasira basiptera Stål

Pasira basiptera Stål, 1859:190.

Material: South Yemen: Lahej, 14–15.VII.1963, Linnavuori, 1 ex. (LC).

Range: Holomediterranean.

Reduvius latiusculus Miller

Reduvius latiusculus Miller, 1954:401.

Yemen: Jebel Hada near San'a (Miller 1954).

Range: Endemic.

Reduvius egens Miller

Reduvius egens Miller, 1951:22–23.

Material: Yemen: San'a, 1 ex (LC).

Range: Endemic.

Reduvius insectus Linnavuori

Reduvius insectus Linnavuori, 1974a:127.

Material: Yemen: San'a, VI–VII.1938, Petrie, holotype; San'a, 31.X.1931, Zenzurist, 2 exx.; Usaifira near Ta'izz, 10.VIII.1946, Waterston, 1 ex. (BM, LC).

Range: Endemic.

Reduvius occultans Linnavuori

Reduvius occultans Linnavuori, 1964:320.

Material: South Yemen: near Dhala, holotype (LC).

Range: Endemic.

**Reduvius nanus* Miller

Reduvius nanus Miller 1951:29–30.

Material: South Yemen; Zingibar, XII.1982, Wranik, 1 ex. (MR).

Range: Previously known from Saudi Arabia.

Reduvius imitator Miller

Reduvius imitator Miller 1951:17–18.

Material: South Yemen: near Aden, 1 ex. (LC).

Range: Previously known from Somalia.

**Reduvius errans* Miller

Reduvius errans Miller, 1955:100–101.

Material: Yemen: Ju Amlah ca 26 km NW of Sa'dah, 1950 m, VI–VII.1981, Borri & Poggesi, 1 ex. (MF).

Range: Previously known from Saudi Arabia.

Piratinae*Ectomocoris costatus* Miller

Ectomocoris costatus Miller, 1954:404.

Yemen: 1 mile W of Ta'izz, on the road to Mocha (Miller 1954).

Range: Endemic.

Ectomocoris cognatus Miller

Ectomocoris cognatus Miller, 1954:405.

Yemen: Wadi Ghailama, tributary of Wadi Siham (Miller 1954).

Range: Endemic.

Ectomocoris quadrimaculatus (Serville)

Pirates quadrimaculatus Serville, 1831:217.

South Yemen: Jebel Jihaf, Wadi Lejj (Miller 1954).

Range: Widespread in tropical Africa.

Ectomocoris chiragra (Fabricius)*Reduvius chiragra* Fabricius, 1803:278.*Ectomocoris infimus* Miller, 1954:401.

Yemen: San'a (Miller 1954).

Range: Eremian.

**Lestomerus ochropus* Stål*Lestomerus ochropus* Stål, 1865b:114–115.

Material: Yemen: Wadi Sheriya, tributary of Wadi Jaira, 19.VIII.1946, Waterston, 2 exx.; — South Yemen: Dhala, 14.IX.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Widespread in tropical Africa.

Pirates strepitans Rambur*Pirates strepitans* Rambur, 1842:174.

Material: Yemen: Wadi Maqsala ca 26 km WNW of Sa'dah, 2000 m, IX.1980, Borri & Poggesi, 1 ex. (MF); — South Yemen: some exx. from Jebel Harir, 26.X–6.XI.1937; Wadi Dareija near Dhala, 6–9.XI.1937, Scott & Britton (BM, LC).

Other records: South Yemen: Museimir and Mukeiras (Miller 1954).

Range: Widespread in Africa and in the Mediterranean sub-region.

Ectrichodiinae

Ectrichodia andersoni (Kirby)*Physorhynchus andersoni* Kirby, 1895:284.

Material: Yemen: San'a, XI.1931, Zenzurist, 1 ex.; — South Yemen: Hadramaut, 1 ex. (LC).

Other records: South Yemen: Dhala and Jebel Jihaf (Miller 1954).

Range: Endemic.

Harpactorinae

**Vibertiola cinerea* (Horvath)*Vibertiola cinerea* Horvath, 1907:309.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 2 exx. (LC).

Biology: On grasses in sandy habitats.

Range: Eremian, previously known from Algeria, and Egypt.

**Vachiria natolica* Stål*Vachiria natolica* Stål, 1859:375.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: On grasses in sandy habitats.

Range: Eremian.

Leptodema scotti Miller*Leptodema scotti* Miller, 1954:408–409.

South Yemen: Dhala (Miller 1954).

Range: Also known from Somalia.

Amphibolus arabicus Miller*Amphibolus arabicus* Miller, 1954:409.

Yemen: Jebel Girwan and San'a (Miller 1954).

Range: Endemic.

Rhinocoris rubrizonatus Miller*Rhinocoris rubrizonatus* Miller, 1954:411.

Yemen: Jebel Girwan (Miller 1954).

Range: Endemic.

Rhinocoris rathjensi Miller*Rhinocoris rathjensi* Miller, 1954:412.

Yemen: Hammam Ali (Miller 1954).

Range: Endemic.

Rhinocoris harmonia sp.n.

Figs. 11–13.

Material: Yemen: San'a, 1♂, holotype (LC).

Length 15 mm. Head black, sides of anteocular part and Y-shaped figure in middle of anterior lobe whitish ochraceous; eyes grayish brown. 1st and 2nd antennal joints black, others dark brown. Rostrum blackish with 1st joint and base of 2nd whitish ochraceous. Anterior lobe of pronotum black with tips of anterolateral angles, crescentic figures in middle and basal median tubercles, whitish ochraceous; posterior lobe reddish brown, lateral margins and middle of basal margin whitish ochraceous, humeral angles with fuscous submarginal spot. Scutellum black, apex whitish ochraceous. Elytra reddish brown, basal angle whitish ochraceous, membrane brown. Dorsum of abdomen yellowish with large dark areas. Connexivum pale ochraceous with large squarish black spots. Under surface whitish ochraceous. Prothorax with small dark median and lateral spots. Meso- and metathorax with broad black lateral bands. Parasternites with large squarish black spots; sternites II–VI with dark brown bands along caudal margins. Femora ochraceous with tips black, tibiae and tarsi black.

With dense pale hair covering. Head $2.2 \times$ as long as broad, about $2.4 \times$ as long as anterior lobe of pronotum, anterior lobe (measured from tip to transverse sulcus behind eyes) $1.44 \times$ as long as posterior; ocular index 2.05. Proportions between antennal segments 94:40:55:45 (diatone 37.5, basal width of pronotum 101 units). Pronotum $1.26 \times$ as broad as long in middle; anterior lobe $0.8 \times$ as long as posterior, anterolateral angles conical, sharptipped, disk with

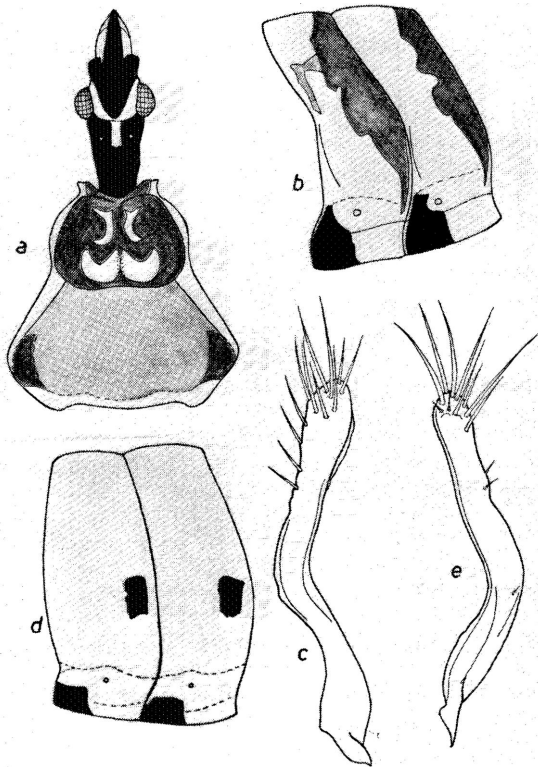


Fig. 11. *Rhinocoris harmonia* sp.n.: a) head and pronotum; b) pattern of venter; c) style. — *R. violentus* (Germar): d) pattern of venter; e) style.

long erect bristles, deeply sulcate posteriorly with a rounded tubercle on each side of sulcus, depressed pattern distinct; posterior lobe very densely and strongly rugose, basal margin very shallowly sinuated, sublateral lobes very obtuse. Scutellum broadly triangular, with Y-shaped median elevation. Elytra longer than abdomen, densely rugose, with dense tomentose clothing. Under surface with dense longish hair covering. Legs as in the related species.

Male genitalia in Figs. 11c, 12a, 13a–b. Style relatively incrassate apically. Pygofer in dorsal view broadly rounded apically, with convex caudolateral margins narrowish; ventral surface strongly convex.

The species has undoubtedly been recorded as *Rhinocoris* sp. (Yemen: Jebel Girwan. South Yemen: Jebel Jihaf and Dhala) in Miller (1954).

Etymology: Greek mythology: Harmonia, daughter of Ares and Aphrodite.

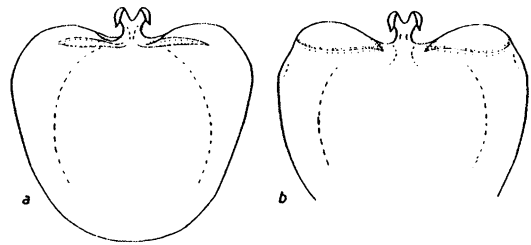


Fig. 12. *Rhinocoris harmonia* sp.n.: a) pygofer, ventral view. — *R. violentus* (Germar): b) pygofer, ventral view.

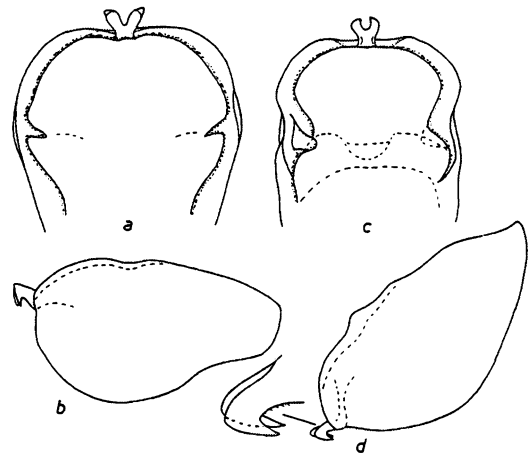


Fig. 13. *Rhinocoris harmonia* sp.n.: a–b) pygofer in dorsal and in lateral view. — *R. violentus* (Germar): c–d) pygofer in dorsal and in lateral view.

The new species is closely related to *R. violentus* (Germar, 1837), known from South and East Africa. *R. violentus* has been redescribed by Stål (1865) and Miller (1953). I have a male from the Sudan, Blue Nile, Singa-Damazin, 15–17.XI.1962, Linnavuori. The species differs from *R. harmonia* in the following points: 1) Coloring: Venter with a small black spot on each side of sternites II–VI (Fig. 11d). 2) Structure: Head somewhat shorter, $2.1 \times$ as long as broad, $2.3 \times$ as long as anterior lobe of pronotum. Anterior lobe of pronotum considerably smaller, $0.61 \times$ as long as posterior. 3) Genitalia (Figs. 11e, 12b, 13c–d). Style considerably more gracile. Pygofer in dorsal view more squarish in outline with caudolateral margins much broader and more convex (clearly visible in caudal and lateral aspects too); ventral surface of pygofer, seen in lateral view, less convex.

Sphedanolestes pulcher Schouteden

Sphedanolestes pulcher Schouteden, 1906:15.

Material: South Yemen: Jebel Harir, 26.X–6.XI.1937, 1 ex.; Wadi Tiban NW of Jebel Jihaf, 12.X.1937, Scott & Britton, 1 ex. (recorded as *S. picturellus* Schouteden in Miller 1954) (BM, LC).
Range: Also known from Eritrea and the Sudan.

Sphedanolestes pulcher charon Linnavuori

Sphedanolestes pulcher charon Linnavuori, 1969:221.

Material: Yemen: Wadi Sheriya, holotype (LC).
Range: Endemic.

Cosmolestes pictus (Klug)

Reduvius pictus Klug, 1830: pl. 19, fig. 12.

Yemen: Ta'izz (Miller 1954).
Range: Widespread in tropical Africa.

**Pseudophoctonus lineatocollis* (Lethierry)

Harpactor lineatocollis Lethierry, 1883:751.

Material: South Yemen: near Dhala, 1 ex. (LC).
Range: East African.

Pseudophoctonus formosus (Distant)

Phonoctonus formosus Distant, 1902:543.

Yemen: Ta'izz (Miller 1954).
Range: Holosudanese.

**Coranus angulatus* Stål

Coranus angulatus Stål, 1874:20.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 3 exx. (LC).
Range: Eremian.

Coranus arenaceus Walker

Coranus arenaceus Walker, 1870:2380.

Coranus linnavuorii Dispons, 1963:72 (Linnavuori 1986).

Yemen: Ta'izz, Usaifira, Jebel Girwan, and San'a (Miller 1954).
Range: Eremian, apparently restricted to the countries around the Red Sea.

Nabidae**Nabinae****Nabis palifer* Seidenstücker

Nabis palifer Seidenstücker, 1954:127.

Material: Yemen: Jebel Sumara, 2.I.1938, Scott & Britton, 2 exx. (BM).
Range: Pontomediterranean.

**Nabis capsiformis* Germar

Nabis capsiformis Germar, 1837:132.

Material: Yemen: several exx. from Ertil near San'a, 24.II.1938; Hada near San'a, 14.I.1938; San'a, 1–7.III.1938; Usaifira near Ta'izz, 13.XII.1937, Scott & Britton; South Yemen: Lahej, 6–15.VII.1963, Linnavuori; Jebel Jihaf, Wadi Lejj, 1.X.1937; Wadi Tiban NW of Jebel Jihaf, 21–22.X.1937, Scott & Britton (BM, LC).

Range: Tropicopolitan.

Aspilaspis indicus (Stål)

Coriscus indicus Stål, 1873:114.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1967, Linnavuori, 3 exx. (LC).

Biology: On *Tamarix*.

Range: Eremian. Known from Libya, the Sudan, Ethiopia, Somalia, Saudi Arabia, Iran, and Turkestan.

Leptopodidae*Valleriola cicindeloides* Distant

Valleriola cicindeloides Distant, 1909:40.

Yemen: Wadi Siham near Ghailama; — South Yemen: Wadi Tiban NW of Jebel Jihaf (Brown 1951).

Range: India. As pointed out by Brown (1951), the species is possibly a synonymy of *V. assouanensis* (Costa, 1875), which is known from Egypt, Israel, Iran, Afghanistan, India, and Ceylon.

Saldidae**Sadinae***Saldula jihafana* Brown

Saldula jihafana Brown, 1951:241–242.

South Yemen: Jebel Jihaf, Wadi Leje (Brown 1951).

Range: A monticolous species, apparently widespread in tropical Africa.

Tingidae**Cantacaderinae***Cantacader tenuipes* Stål

Cantacader tenuipes Stål, 1865b:26.

South Yemen (Drake & Ruhoff 1965).

Range: Holosudanese.

Cantacader curtulus Linnavuori*Cantacader curtulus* Linnavuori, 1977:6.

Material: Yemen: Yemen, holotype (LC).
Range: Endemic.

Tinginae*Naochila adenana* (Drake)*Cochlochila adenana* Drake, 1957:119.

South Yemen: Jebel Jihaf (Drake & Ruhoff 1965).
Range: NE Africa (known from Ethiopia and the Sudan).

Naochila yemenana (Drake)*Cochlochila yemenana* Drake, 1957:121.

Material: Yemen: Jebel Sumara, 2.I.1938, 1 ex.; Wadi Thabad, N face of Jebel Sahir, 25–26.XII.1937, Scott & Britton, 1 ex. (BM, LC).
Range: Endemic.

Cysteochila phae Drake & Ruhoff*Cysteochila phae* Drake & Ruhoff, 1961:148.

Material: South Yemen: Sheikh Othman-Lahej, 6–15.VII.1963, Linnavuori, 3 exx. (LC).
Biology: On *Acacia*.
Range: Eremian.

Monosteira minutula Montandon*Monosteira minutula* Montandon, 1897:101.

Material: South Yemen: Wadi Tiban, NW of Jebel Jihaf, 22.X.1937, Scott & Britton, 4 exx. (BM, LC).
Range: Eremian.

Urentius hystericellus (Richter)*Tingis hystericellus* Richter, 1869:84.

Yemen: (Péricart 1983).
Range: Palearctic.

Miridae**Cylapinae***Rhinofulvius albifrons* (Reuter)*Fulvius albifrons* Reuter, 1895:137.

South Yemen: Aden (Reuter 1903).
Range: Endemic.

Deraeocorinae**Teratophylum insigne* Reuter*Teratophylum insigne* Reuter, 1884b:218.

Material: South Yemen: near Lahej, 6–15.VII.1963, Linnavuori, 1 ex. (LC).
Biology: On *Acacia*.
Range: Egypt, Palestine, Saudi Arabia, and the Sudanese subregion.

**Argyrotelaenus simoni* Reuter & Poppius*Argyrotelaenus simoni* Reuter & Poppius, 1912:16.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).
Biology: On *Acacia*.
Range: Eremian, known from Egypt, the Sudan, Palestine, Saudi Arabia, and Iraq.

Deraeocoris pallens atramentarius Linnavuori*Deraeocoris pallens atramentarius* Linnavuori, 1975a:6.

Material: Yemen: Ju Amlah ca 26 km NW of Sa'dah, 1950 m, IX.1950, Borri, Lanza & Poggesi, 1 ex. (MF); Ertil near San'a, 24.II.1938, Scott & Britton, holotype and many paratypes; San'a, 10–15.X.1937, Rathjens, many paratypes (BM, LC).
Range: Eremian, also known from Saudi Arabia and Iraq.

Deraeocoris dentifer Linnavuori*Deraeocoris dentifer* Linnavuori, 1975a:6.

Material: Yemen: Beit Baus near San'a, 28.I.1938, Scott & Britton, holotype (BM).
Range: Endemic.

**Deraeocoris ostentans* Stål*Deraeocoris ostentans* Stål, 1855:37.

Material: Yemen: several exx. from San'a, 2–9.X.1937, Rathjens; Usaifira near Ta'izz, 13.XII.1937; Wadi Dhahr near San'a, 21.I.1938, Scott & Britton (BM, LC).
Range: Widely distributed in tropical Africa.

**Deraeocoris alluaudi* Poppius*Deraeocoris alluaudi* Poppius, 1919:123.

Material: South Yemen: Jebel Jihaf, X.1938, Scott & Britton, 1 ex. (BM).
Range: East African.

**Stethoconus scutellaris* (Schouteden)*Apollodotus scutellaris* Schouteden, 1946:328–329.

Material: South Yemen: near Dhala, 1 ex. apparently belonging to this species (LC).
Range: Previously known from Zaire (Rutshuru).

Dicyphinae****Cyrtopeltis kristenseni* (Poppius)**

Engytatus kristenseni Poppius, 1914:21.

Material: Yemen: San'a, 1 ex. (LC).

Range: Known from the Kassala Province in the Sudan and from Eritrea.

***Cyrtopeltis alkannae* Linnavuori**

Cyrtopeltis brunneicollis alkannae Linnavuori, 1975a:14 (Linnavuori 1986).

Material: Yemen: 15 miles N of San'a, alt. ca 9000 ft, 1.II.1938, Scott & Britton, holotype and some paratypes (BM, LC).

Biology: On *Alkanna orientalis*.

Range: Endemic.

Mirinae****Trigonotylus pallidicornis* Reuter**

Trigonotylus pallidicornis Reuter, 1900:161.

Material: Yemen: San'a, 2-9.X.1937, 1 ex.; Wadi Jaira tributary of Wadi Siham, 10.III.1938, Scott & Britton, 2 ex. (BM).

Range: Eremian.

****Creontiades pallidus* (Rambur)**

Phytocoris pallidus Rambur, 1842:159.

Material: Yemen: several exx. from Ertil near San'a, 24.II.1938; San'a, 1-7.III.1938; Usaifira near Ta'izz, 13.XII.1937, Scott & Britton; — South Yemen: Dhala, 25.IX.1937, Scott & Britton, 1 ex. (BM, LC).

Range: Eremian with a wide range in tropical Africa.

****Creontiades tellinii* (Reuter)**

Pantiliodes tellinii Reuter, 1905:3.

Material: South Yemen: Jebel Jihaf, 29.IX.1937, Scott & Britton, some exx. (BM, LC); near Lahej, 9-15.VII.1963, Linnavuori, 1 ex. (LC).

Range: East African.

****Megacoelum pellucens* Puton**

Megacoelum pellucens Puton, 1881:125.

Megacoelum persimile Reuter, 1903:4.

Material: South Yemen: Jebel Jihaf, IX.1937, 1 ex.; Wadi Tiban NW of Jebel Jihaf, 21.X.1937, Scott & Britton, 1 ex.; Wadi Kebir near Lahej, 6-15.VII.1963, Linnavuori, 1 ex. (BM, LC).

Biology: On *Calligonum comosum*.

Range: Eremian.

****Megacoelum oculare* Wagner**

Megacoelum oculare Wagner, 1957:84.

Material: South Yemen: near Lahej, 13-14.VII.1963, Linnavuori, 3 exx. (LC).

Range: Eremian with an eastern distribution from Somalia to Iran.

***Megacoelum rubrolineatum* Linnavuori**

Megacoelum rubrolineatum Linnavuori, 1975a:23-24.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, some exx. (BM, LC).

Biology: On *Indigofera oblongifolia*.

Range: Endemic.

****Megacoelum apicale* Reuter**

Megacoelum apicale Reuter, 1882:30.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, 2 exx. (BM, LC).

Range: Holosudanese.

****Eurystylus bellevoeyi* (Reuter)**

Eurycyrtus bellevoeyi Reuter, 1879:34.

Material: Yemen: Ertil near San'a, 24.II.1938, 1 ex.; Red Sea Coast near Hodeida, 12-14.III.1938, Scott & Britton, 2 exx.; San'a, 10-15.X.1937, Rathjens, 1 ex.; — South Yemen: Al Huseini near Lahej, 29.XI.1937, Scott & Britton, 1 ex.; Shuqra, 22.XII.1939, Petrie, 1 ex. (BM, LC).

Range: Eremian with a wide range in tropical Africa too and also known from Ceylon.

****Stenotus rufescens* Poppius**

Stenotus rufescens Poppius, 1910b:36.

Material: South Yemen: Jebel Jihaf, 29.IX.1937, Scott & Britton, some exx. (BM, LC).

Range: East African.

****Stenotus brevior* Poppius**

Stenotus brevior Poppius, 1910b:35.

Material: South Yemen: Dhala, 14.IX.1937, Scott & Britton, 2 exx. (BM, LC).

Range: East African. Also known from Saudi Arabia.

***Taylorilygus simonyi* (Reuter)**

Lygus simonyi Reuter, 1903:11.

Material: Yemen: San'a, 1-7.III.1938, Scott & Britton, 1 ex.; — South Yemen: several exx. from Jebel Harir, 31.X.1937; Jebel Jihaf, 7-12.X.1937; Wadi Dareija SW of Dhala, 8.XI.1937; Wadi Natid, Kirsh, 8.XII.1937, Scott & Britton (BM, LC).

Other records: South Yemen: Aden (type locality) (Reuter 1903).

Range: East African.

Taylorilygus morosus Linnavuori

Taylorilygus morosus Linnavuori, 1975a:32.

Material: South Yemen: Jebel Jihaf, 29.IX.1937, Scott & Britton, holotype and some paratypes (BM, LC).

Range: Endemic.

Taylorilygus subdivergens Linnavuori

Taylorilygus subdivergens Linnavuori, 1974b:33–34.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, holotype and many paratypes (BM, LC).

Range: Endemic.

**Taylorilygus pallidulus* (Blanchard)

Phytocoris pallidulus Blanchard, 1852:183.

Material: Yemen: Ghaiman near San'a slopes of Jebel Girwan, 17.II.1938, 1 ex.; San'a, 27.IX.1937, 2 exx.; Usaifira near Ta'izz, 22.XII.1937, Scott & Britton, many exx.; — South Yemen: Al Huseini near Lahej, 27.XI.1937, some exx.; Jebel Harir, 25.X.1937, Scott & Britton, 2 exx. (BM, LC).

Range: Cosmopolitan.

**Lygidolon eyrystylioides* (Wagner)

Lygus eyrystylioides Wagner, 1957:86.

Material: South Yemen: near Lahej, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: On *Acacia*.

Range: Eremian.

**Orthops abessinicus* (Reuter)

Lygus abessinicus Reuter, 1903:7.

Material: Yemen: Usaifira near Ta'izz, 21.X.1937, Scott & Britton, 1 ex. (BM).

Range: Known from the Sudan, Ethiopia, Somalia, and Kenya.

Proboscidocoris punctaticollis Reuter

Proboscidocoris punctaticollis Reuter, 1905:16.

Material studied: Eritrea: Massauah, Levander, 1♂ syntype, here selected as the lectotype, and 1♂ paralectotype (Mus. Helsinki).

Often confused with the following species. Measurements: Head $0.54 \times$ as broad as pronotum. Ocular index (σ^7) 1.40–1.53. 1st antennal segment 0.60 – $0.66 \times$ as long as diatone, 2nd joint 3.0 – $3.1 \times$ as long as 1st, 1.05 – $1.1 \times$ as long as basal width of pronotum. Male genitalia as in Fig. 14a–e. Spiculum of vesica very broad, directed apicad.

Range: East African.



Fig. 14. *Proboscidocoris punctaticollis* Reuter (specimen from Massawa, Eritrea): a–b) penis; c) left style; d) right style; e) apex of right style in broad aspect.

**Proboscidocoris pilostriatus* Odhiambo

Proboscidocoris pilostriatus Odhiambo, 1959a:350–351.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, 2 exx.; — South Yemen: Jebel Jihaf, 29.IX.1937, 3 exx.; Wadi Dareija SW of Dhala, 8.XI.1937, Scott & Britton, 2 exx. (BM, LC).

Male genitalia in Fig. 15a–c. Spiculum of vesica slender, recurved basad.

Range: East African.

Orthotylinae

**Orthotylus priesneri* Schmidt

Orthotylus priesneri Schmidt, 1939:22.

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

Material: South Yemen: near Lahej, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: On *Acacia*.

Range: Eremian.

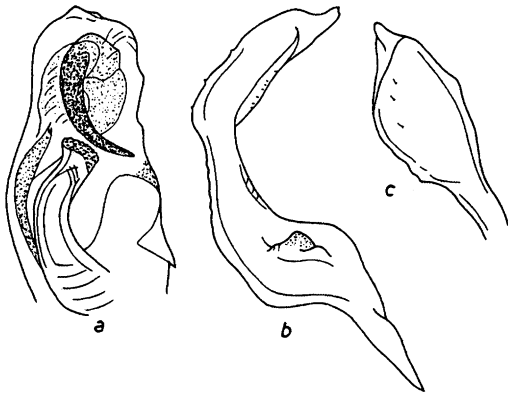


Fig. 15. *Proboscidocoris pilostriatus* Odhiambo: a) penis; b) left style; c) right style.

Orthotylus indigoferae Linnavuori

Orthotylus indigoferae Linnavuori, 1975a:50–51.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, some exx.; — South Yemen: Wadi Tiban NW of Jebel Jihaf, 22.X.1937, Scott & Britton, holotype and a paratype (BM, LC).

Biology: On *Indigofera oblongifolia*.
Range: Endemic.

**Orthotylus arabicus* Wagner

Orthotylus arabicus Wagner, 1962:215–216.

Orthotylus jordanicus Wagner, 1963:270–272.

Orthotylus halaibicus abbreviatus Linnavuori, 1975a:54 (Linnavuori 1986).

Material: Yemen: San'a, 7–8.IX.1937, Rathjens, 4 exx. (BM); — South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 4 exx. (LC).

Range: Eremian with an eastern distribution.

Pilophorinae

Aloea nigrifula Linnavuori

Aloea nigrifula Linnavuori, 1975a:62.

Material: Yemen: Kaulat-el-Asakeir near San'a, 9400 ft., 4.II.1938, Petrie, holotype and 6 paratypes (BM, LC).

Biology: On *Aloe*.
Range: Endemic.

Hallodapinae

Aeolocoris alboconspersus Reuter

Aeolocoris alboconspersus Reuter, 1903:17.

Carinonotus phytocoroides Lindberg, 1956:54–56.

South Yemen: Aden (Reuter 1903).
Range: Eremian.

**Hallodapus costai* (Reuter)

Laemocoris costai Reuter, 1890:257.

Allodapus longicornis Reuter, 1904:12.

Material: Yemen: Wadi Jaira, tributary of Wadi Siham, 10.III.1938, Scott & Britton, 1 ex.; — South Yemen: Al Huseini near Lahej, 27.XI.1937, Scott & Britton, 1 ex. (BM).

Range: Eremian.

**Hallodapus ochraceus* Linnavuori

Hallodapus ochraceus Linnavuori, 1961:211–212.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 3 exx. (LC).

Biology: At lamp in sandy habitats.

Range: Eremian, previously known from Saudi Arabia and the Sudan.

Systellonotus usaifirae Linnavuori

Systellonotus usaifirae Linnavuori, 1972b:42.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, holotype (BM).

Range: Endemic.

Laemocoris trimaculatus Linnavuori

Laemocoris trimaculatus Linnavuori, 1964:326.

Material: South Yemen: Lahej-Dhala road, holotype (LC).

Range: Endemic.

Phylinae

Stirophyllus aristidae Wagner

Stirophyllus aristidae Wagner, 1965:232–234.

Material: Yemen: San'a, 7900 ft., 2–9.X.1937, Rathjens, 1 ex. (BM).

Range: Eremian.

Stirophyllus lineatus Linnavuori

Stirophyllus lineatus Linnavuori, 1971b:132.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, holotype and several paratypes (LC).

Biology: In dunes on *Aeluropus littoralis*.
Range: Endemic.

**Tytthus parviceps* (Reuter)*Cyrtorhinus parviceps* Reuter, 1890:258.

Material: Yemen: Beit-el-Ghofr N of Haz, near San'a, 4.II.1938, Scott & Britton, 1 ex.; — South Yemen: Dhala, 14.IX.1937, Scott & Britton, 1 ex.; near Lahej, 9–15.VII.1963, 1 ex.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (BM, LC).

Range: Intertropical.

**Yotvata picticornis* (Horvath)*Atomophora picticornis* Horvath, 1913:597.*Compsidolon acacicola* Linnavuori, 1961:18–19.

Material: South Yemen: Lahej, 9–15.VII.1963, 1 ex.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 5 ex. (LC).

Biology: On *Acacia* and *Calligonum comosum*.

Range: Eremian.

**Plagiognathidea aervae* (Lindberg)*Malacotes aervae* Lindberg, 1958:114–115.

Material: South Yemen: near Lahej, 9–15.VII.1963, 2 exx.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: On *Aerva javanica*.

Range: Eremian with a southern distribution.

Oreocapsus immundus Linnavuori*Oreocapsus immundus* Linnavuori, 1975a:100.

Material: Yemen, holotype (LC).

Range: Endemic.

**Chamaepsallus signaticornis* (Reuter)*Atomoscelis signaticornis* Reuter, 1905:20.

Material: South Yemen: al Huseini near Lahej, 29.XI.1937, Scott & Britton, 1 ex.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, many exx. (BM, LC).

Range: Eremian.

Gediocoris leptadeniae Linnavuori*Gediocoris leptadeniae* Linnavuori, 1975a:103–104.

Material: South Yemen: Anad, 9–15.VII.1963, Linnavuori, several exx. (LC).

Biology: On *Leptadenia pyrotechnica*.

Range: Eremian with a southern distribution. Known from the Sudan and Saudi Arabia.

Gediocoris vitellinus Linnavuori*Gediocoris vitellinus* Linnavuori, 1975a:104.

Material: South Yemen: Lahej-Dhala road, 9–15.VII.1963, Linnavuori, holotype and 8 paratypes (LC).

Range: Endemic.

**Campylomma plantarum* Lindberg*Campylomma plantarum* Lindberg, 1958:118–120.*Campylomma subflava* Odhiambo, 1959b:429–433.

Material: Yemen: Usaifira near Ta'izz, 13.XII.1937, Scott & Britton, 1 ex. (BM).

Range: Holosudanese. Recorded from the Cape Verde Islands, the Sudan, Uganda, and Kenya.

Campylomma hilaris Linnavuori*Campylomma hilaris* Linnavuori, 1975a:108.

Material: South Yemen: Lahej, 9–15.VII.1963, Linnavuori, 1 ex. (LC).

Biology: On *Tamarindus indicus*.

Range: Also known from the Sudan.

Campylomma acaciae Linnavuori*Campylomma acaciae* Linnavuori, 1961:22–23.

Material: South Yemen: Dhala, 14.IX.1937, Scott & Britton, 1 ex.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, several exx. (BM, LC).

Biology: On *Acacia*.

Range: Eremian.

Stenocapsus leucochilus (Reuter)*Stenarous leucochilus* Reuter, 1905:8.

Material: Yemen: near Ta'izz, on road to Mocha, 16.XII.1937, Scott & Britton, 4 exx. (BM, LC).

Range: Holosudanese.

Stenocapsus sp. near *discoidalis* (Poppius)*? Capsus discoidalis* Poppius, 1914:95.

Material: Yemen: Usaifira near Ta'izz, 22.XII.1937, Scott & Britton, 1 ex. (BM).

Auchenodes gracilis Linnavuori*Auchenodes gracilis* Linnavuori, 1975a:111.

Material: South Yemen: Wadi Kebir near Lahej, 9–15.VII.1963, Linnavuori, holotype (LC) and a paratype; Al Husaini near Lahej, 26.II.1937, Scott & Britton, several paratypes (BM, LC).

Fig. 16a–c. Closely related to *A. alboscuteolata* Puton, 1874, but longer, body much more gracile, pronotum much longer and narrower, under surface dark, scent gland orifices white, and coxae and extreme bases of femora somewhat paler (under surface in *A. alboscuteolata* largely whitish yellow and bases of femora broadly pale yellowish).

Biology: On *Tamarix*.

Range: Endemic.

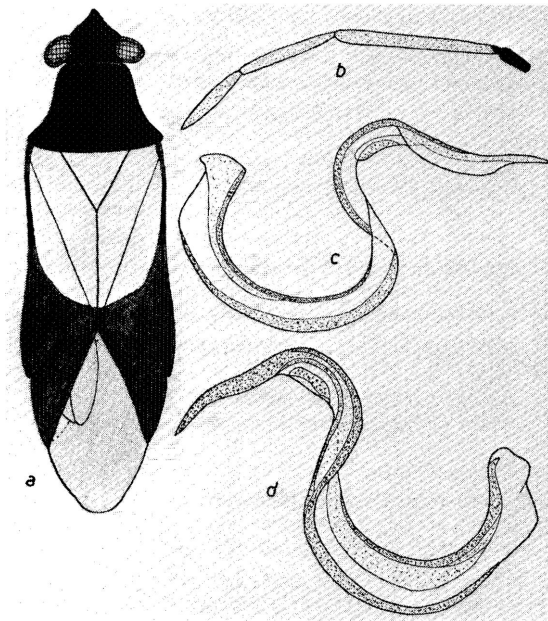


Fig. 16. *Auchenodes gracilis* Linnavuori (male): a) dorsal view; b) antenna; c) vesica. — *Tuponia adenica* Linnavuori: d) vesica.

Tuponia tamaricicola Lindberg

Tuponia tamaricicola Lindberg, 1939:20.

Material: South Yemen: several exx. from near Lahej, 9–15.VII.1963; Lahej-Dhala road, 13–14.VII.1963, Linnavuori (LC).

Biology: On *Tamarix*.

Range: Eremian.

Tuponia adenica Linnavuori

Tuponia adenica Linnavuori, 1975a:111.

Material: South Yemen: Lahej-Dhala road, 9–15.VII.1963, Linnavuori, holotype and 7 paratypes (LC).

Vesica in Fig. 16d.

Biology: On *Tamarix*.

Range: Endemic.

**Tuponia guttata* Wagner

Tuponia guttata Wagner, 1950:147.

Tuponia variegata Wagner, 1958:10–12.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (LC).

Biology: On *Tamarix*.

Range: Eremian.

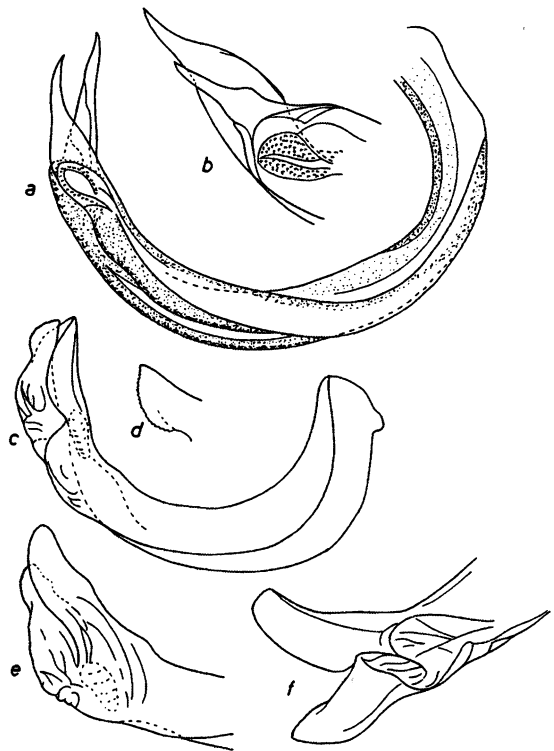


Fig. 17. *Tuponia concinnoides* Linnavuori (from Tel-Aviv, Israel): a–b) vesica. — *T. subannulata* Wagner: c) vesica (type of *abendica* Linnavuori); d) serrate apical lobe of vesica; e–f) apex of vesica (Erkowitz, Sudan, and Arak – El Golea, Algeria).

Tuponia platycranoides Linnavuori

Tuponia platycranoides Linnavuori, 1975a:112–113.

Material: Yemen: San'a, Bir-el-Azab, 21.I.1938, Scott & Britton, holotype and many paratypes (BM, LC).

Biology: On *Tamarix*.

Range: Endemic.

**Tuponia concinnoides* Linnavuori

Tuponia concinnoides Linnavuori, 1961:31.

Material: Yemen: San'a, Bir-el-Azab, 12.I.1938, Scott & Britton, some exx. (BM).

Vesica in Fig. 17a–b.

Biology: On *Tamarix*.

Range: Eremian, known from Israel, Egypt and Eritrea.

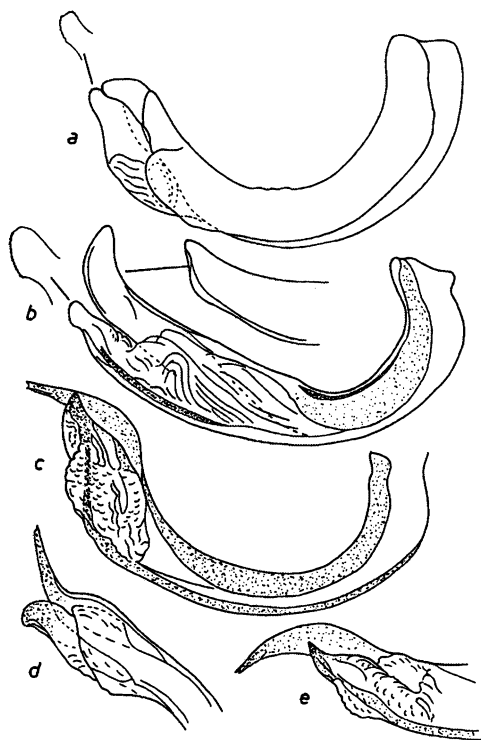


Fig. 18. *Tuponia subannulata* Wagner: a) vesica (specimen from Daragodleh, Somalia). — *T. kermanensis* Wagner: b) vesica. — *T. alhagicola shamash* Linnavuori: c–e) same.

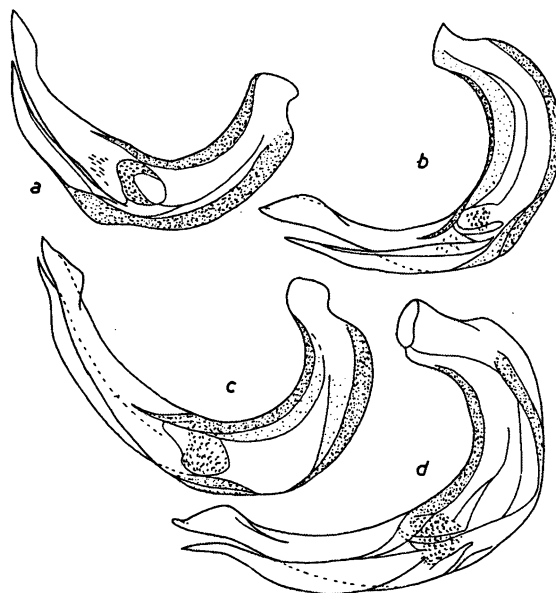


Fig. 19. *Aphaenophyes richteri richteri* (Wagner): a–b) vesica (specimens from As Salman, Iraq and Najran, Saudi Arabia). — *A. richteri elongata* Linnavuori: c–d) vesica of two specimens.

****Tuponia subannulata* Wagner**

Tuponia subannulata Wagner, 1973:147–148.

Anonychiella abendica Linnavuori, 1975b:102–103, *syn.n.*

Material: South Yemen: Sheikh Othman-Lahej, 9–15.VII.1963, Linnavuori, 3 exx. (LC).

Vesica of *T. subannulata* and of the related species of *T. kermanensis* Wagner 1958 (*syn. T. nana* Wagner 1960) and *T. alhagicola shamash* Linnavuori 1984 in Figs. 17c–f, 18a–e.

Biology: On halophytes such as *Salsola battae*.

Range: Eremian, known from Algeria, the Sudan, Somalia, and Jordan.

***Aphaenophyes richteri elongata* Linnavuori**

Aphaenophyes richteri elongata Linnavuori, 1975a:113.

Vesica in Fig. 19c–d, that of the nominate form *A. richteri richteri* (Wagner, 1957) in Fig. 19a–b.

Material: Yemen: San'a, holotype and 3 paratypes (LC); San'a, 12.I.1938, Scott & Britton, many exx. (BM).

Range: Endemic. The nominate form Eremian.

****Eurycranella geocoriceps* Reuter**

Eurycranella geocoriceps Reuter, 1904:26.

Material: Yemen: Wadi Dhahr near San'a, 28.I.1938, Scott & Britton, many exx.; — South Yemen: Jebel Harir, 27.X.1937, some exx.; Al Huseini near Lahej, 26.XI.1937, Scott & Britton, 1 ex.; Lahej-Dhala road, 13–14.VII.1963, Linnavuori, 1 ex. (BM, LC).

Biology: On *Tamarix*.

Range: Eremian.

****Eurycranella nupta* (Linnavuori)**

Tuponia nupta Linnavuori, 1961:26.

Material: South Yemen: Lahej-Dhala road, 13–14.VII.1963, 1 ex.; Sheikh Othman-Lahej, 9–15.VII.1963, Linnavuori, 2 exx. (LC).

Biology: On *Tamarix*.

Range: Eremian.

Conclusions

The known range of each species has been recorded. The bulk (34% = 103 species) of the fauna belongs to the Ethiopian element which underlines the importance of this element in South-West Arabia. In Saudi Arabia (Linnavuori 1986), the percentage of the Ethiopian element is 22% and in Egypt only 8%. Thirty-two species of the element are widely distributed in Africa south of the Sahara, 28 species are widespread in the Sudanese subregion, 25 species are East African, and 17 species inhabit the mountain or lowland areas of Somalia, Ethiopia and the adjacent parts of the Sudan.

The proportion of the fauna belonging to the Eremian element is 29.7% (=89 species: in Saudi Arabia 34.8%). One species (*Apodiphus integriceps* Horvath) belongs to the Irano-Turanian subelement, 18 species occur in the eastern parts of the desert belt and the rest of the species are widely distributed in the Eremian subregion.

The number of endemic (23% = 69) species known from South-West Arabia and often also from the Asir Province of Saudi Arabia is remarkably high. Most of

the endemics have ancestors that radiated to the area from NE Africa.

The percentage of the Mediterranean element (6.3% = 19 species, in Saudi Arabia 12.3%) is low. Most of the Mediterranean species are well adapted to the arid conditions of the Middle East. Only *Corixa affinis* Leach and *Micronecta anatolica* Lindberg are undoubted relicts from the pluvial period.

Twenty species (=6.7%) have a wide Palearctic or Intertropical range.

The distributional data indicate that South-West Arabia forms a transition zone between the Ethiopian and Palearctic regions. Radiation from NE Africa has been easy, and the percentage of the Ethiopian element and its endemic derivatives is higher than in the other parts of the Arabian Peninsula. The representatives of the Ethiopian element seem to prevail in mountain regions, while the Eremian species are more abundant in lowland areas.

Acknowledgements. I am greatly indebted to the late Dr. W. E. China from the British Museum (Natural History) for the privilege to study large material of Heteroptera from South-West Arabia, and to Ms. Sarah Mascherini for loan of numerous specimens from Yemen preserved in the Zoological Museum La Specola in Florence.

References

- Ahmad, I. M. & Mohammad, F. A. 1980: A new tribe, a new genus and two new species of the subfamily Pentatominae Amyot et Serville (Hemiptera: Pentatomidae) from Pakistan and their relationships. — *Trans. Shikoku Entomol. Soc.* 15: 11–25.
- Bergevin, E. 1930: Description d'un nouveau genre et deux nouvelles especes d'Hémiptères Lygacidae. — *Bull. Soc. Hist. Nat. Afr. Nord* 21:32–36.
- 1934: Mission Transsaharienne de S.A.R. de Prince sixte de Bourbon-Parme. — *Rev. Franc. Entomol.* 1:109–111.
- Bergroth, E. E. 1920: Hemiptera from East Africa collected by Prof. E. Lönnberg. — *Ark. Zool.* 12:1–30.
- Blanchard, E. 1852: *Phytocoris pallidulus* sp.n. (Het. Miridae). — In Gay's *Hist. Fis. Pol. Chile* 7:183.
- Blöte, H. C. 1935: Catalogue of the Coreidae in the Rijksmuseum van Natuurlijke Historie II. — *Zool. Meded. Mus. Leiden* 1935:181–227.
- Bolivar, I. 1879: Hemipterous nuevos del Museo de Madrid. — *An. Soc. Hist. Nat. España* 8:133–146.
- Brown, E. S. 1951: Aquatic and semiaquatic Hemiptera. — *British Museum Expedition to South-West Arabia* 1:221–273.
- Burmeister, H. 1835: *Handbuch der Entomologie*. Bd. 2. Besondere Entomologie. Abt. 1. Schnabelkerfe. Rhynchota. — T. C. F. Enslin, Berlin, IV + 400 pp.
- Carayon, J. 1972: Le genre *Xylocoris*: subdivision et espèces nouvelles (Hem. Anthocoridae). — *Ann. Soc. Entomol. Franc.* 8:1–27.
- Costa, A. 1847: *Cimicum Regni Neapolitani centuria*. — *Atti Ist. Sci. Nat. Napoli* 7:143–216.
- Dallas, W. S. 1851: List of specimens of Hemipterous insects in the collection of the British Museum I. — Taylor & Francis, London 368 pp.
- 1852: List of specimens of Hemipterous insects in the collection of the British Museum II. — Taylor & Francis, London, pp. 369–592.
- Dohrn, F. A. 1860: *Hemipterologische Miscellaneen*. — *Stettin. Entomol. Ztg.* 21:158–162.
- Dispons, P. 1962: Déterminations commentées: Stenopodinae palestiniens. — *Ann. Entomol. Fennici* 28:25–35.
- 1963: Notes sur les Coranus Sahariens (Hemipters, Heteroptera, Reduviidae). — *Cahiers des Nat. Bull.* 19:71–74.
- 1966: Holoptilinae nouveaux des Genre Putoniola Bergroth (Hemiptera, Heteroptera). — *Cahiers des Nat. Bull.* 22:101–102.
- Distant, W. L. 1881: Additions to the Rhynchotal Fauna of the Ethiopian Region. — *Proc. Zool. Soc. London* 1881:270–276.
- 1900: Rhynchotal Notes. VI. Heteroptera: Dinidorinae, Phyllocephalinae, Urolabidinae, and Acanthosominae. — *Ann. Mag. Nat. Hist.* (7)6:220–234.

- 1901a: Rhynchotal Notes. VIII. Heteroptera: Fam. Coreidae. — *Ann. Mag. Nat. Hist.* (7)7:6–22.
- 1901b: Rhynchotal Notes. XI. Heteroptera: Fam. Lygaeidae. — *Ann. Mag. Nat. Hist.* (7)7:464–486.
- 1902: Descriptions of new species of South African Rhynchota. — *Trans. Entomol. Soc. London* 1902:542–544.
- 1909: Descriptions of two new species of Rhynchota from Bengal. — *Ann. Mag. Nat. Hist.* (8)3:40–43.
- 1911: Rhynchota Indica. — *Entomologist* 44:310–311.
- 1918: Contributions to a further knowledge of the Rhynchota of the family Lygaeidae. — *Ann. Mag. Nat. Hist.* 42:257–270.
- Dolling, W. R. 1979: A review of the African pod bugs of the tribe Clavigrallini (Hemiptera: Coreidae) with a checklist of the world species. — *Bull. British Mus. (Nat. Hist.) Entomol.* 39(1):1–84.
- Drake, C. J. 1957: Tingidae. — *British Museum Expedition to South-West Arabia*, 415–420.
- 1965: Lacebugs of the World. A Catalog. (Hemiptera: Tingidae). — *Smithsonian Inst. United States Nat. Mus. Bull.* 243:1–634.
- Drake, C. J. & Ruhoff, F. A. 1961: New species and taxonomic changes in the Tingidae. — *J. Kansas Entomol. Soc.* 34:145–151.
- Evans, J. W. 1929: New species of Nysius (Hem. Lygaeidae) from South Africa. — *Bull. Entomol. Res.* 20:673–676.
- Eyles, A. C. 1973: Monograph of the genus Dieuches Dohrn (Heteroptera: Lygaeidae). — *Dunedin, New Zealand, Otago Daily Times Ltd.*, 465 pp.
- Fabricius, J. C. 1775: *Systema entomologiae sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus.* — *Flensburgi et Lipsiae*, 832 pp.
- 1781: *Species insectorum II.* — *Hamburgi et Kilonii*, 517 pp.
- 1787: *Mantissa Insectorum sistens species nuper detectas 2.* — *Hafniae*, 382 pp.
- 1794: *Entomologia systematica emendata et aucta IV.* — *Hafniae*, 472 pp.
- 1798: *Supplementum entomologiae systematicae.* — *Hafniae*, 527 pp.
- 1803: *Systema Rhyngotorum.* — *Brunsvigae*, 314 pp.
- Fieber, F. X. 1844: *Entomologische Monographien.* — *Leipzig*, 137 pp.
- 1851: *Rhynchographien.* — *Abh. Kön. Böhm. Ges. Wissensch.* 7:427–488.
- 1861: *Die Gattung Ophthalmicus.* — *Wiener Entomol. Monatschr.* 5:266–285.
- Forster, J. R. 1771: *Novae species insectorum, Centuria I.* — *London*, 100 pp.
- Germer, E. F. 1837: *Hemiptera Heteroptera promontorii Bonae Spei nondum descripta.* — *Silb. Rev. Entomol.* 5:121–192.
- 1839: *Zeitschrift für die Entomologie.* Band 1. — *Leipzig*, 400 pp., 4 Taf.
- 1847: *Fauna Insectorum Europae* 10. — *Halae*, 25 Taf., 1 Bl. Text.
- Gerstaecker, A. 1873: *Gliederthiere (Insekten, Arachniden, Myriopoden & Isopoden).* — *Baron Carl Claus von der Decken's Reisen in Ost-Afrika* 3:1–542.
- Ghauri, M. S. K. 1969: Notes on the genus *Schyzops* Spinola, 1837 (Phyllocephalinae, Pentatomoidea, Heteroptera). — *Nat. Hist.* 3:597–602.
- 1977: A revision of *Apodiphus* Spinola (Heteroptera: Pentatomidae). — *Bull. Entomol. Res.* 67:97–106.
- Ghesquière, J. & Carayon, J. 1948: A propos de quelques *Antestia* et *Helopeltis* de l'Afrique tropicale (Hemiptera, Pentatomidae et Miridae). — *Rev. Zool. Bot. Afr.* 41:55–65.
- Herrich-Schaeffer, G. H. W. 1842: *Die Wanzenartige Insekten* 6:76–93.
- 1844: *Die Wanzenartige Insekten* 7(5):81–104.
- 1849: *Die Wanzenartige Insekten* 9(1):1–44.
- 1850: *Die Wanzenartige Insekten* 9(5):193–240.
- Hoberlandt, L. 1987: Results of the Czechoslovak-Iranian Entomological Expedition to Iran 1970 and 1977. Heteroptera, Lygaeidae, Oxycoreninae. — *Acta Entomol. Mus. Nat. Praegae* 42:11–29.
- Horvath, G. 1888: *Matériaux pour servir à l'étude des Hémiptères de la faune paléarctique.* — *Rev. d'Entomol.* 7:168–189.
- 1891: *Hémiptères recueillis dans l'Arménie Russe.* — *Rev. d'Entomol.* 10:68–71.
- 1895: *Hémiptères nouveaux d'Europe et des pays limitrophes.* — *Rev. d'Entomol.* 14:152–165.
- 1896: *Hemiptera nova palaeartica.* — *Term. Füz.* 19:325.
- 1899a: *Synopsis des Micronecta palaeartiques.* — *Rev. d'Entomol.* 18:101–104.
- 1899: *Heteroptera nova Europae regionumque confinium in Museo Nationali Hungarico asservate.* — *Termész. Füz.* 22:444–451.
- 1907: *Hemiptera nova vel minus cognita e regione palaeartica I.* — *Ann. Hist. Nat. Mus. Nat. Hungar.* 5:288–323.
- 1911: *Hemiptera nova vel minus cognita e regione palaeartica II.* — *Ann. Mus. Nat. Hung.* 9:573–610.
- 1913: Ernest Hartert's Expedition to the Central Western Sahara XV. Heteroptera. — *Nov. Zool.* 20:592–597.
- 1919: *Analecta ad cognitionem Cydnidarum.* — *Ann. Mus. Nat. Hungarici* 17:205–273.
- Hsiao Tsai-Y, Ren Shu-Zhi, Zheng Le-Yi, Jing Hsi-Li, Zou Huang-Guang, Liu Sheng-Li, 1981: A handbook for the determination of the Chinese Hemiptera-Heteroptera II. 654 pp., 84 plates.
- Hungerford, H. B. 1934: The genus *Notonecta* of the world. — *Univ. Kansas Sci. Bull.* 21:1–195.
- Hutchinson, G. E. 1932: Supplementary report on Notonectidae, Pleidae and Corixidae (Hemiptera), Mr. Omer-Cooper's investigation of the Abyssinian freshwaters (Dr. Huhg Scott's Expedition). — *Proc. Zool. Soc. London* 31:125–130.
- Jakovlev, B. I. 1876: *Materiaux pour servir a une faune Entomologique de la Russe d'Europe.* — *Trudy Entomol. Ross.* 8:47–82.
- 1901: New species of the genus *Stenocephalus* Latr. (Hemiptera-Heteroptera, Coreidae). — *Horae Soc. Entomol. Ross.* 35:202–209.
- Jeannel, R. 1913: *Pentatomidae.* — *Voyage de Ch. Alluaud & R. Jeannel en Afrique Orientale.* Paris, 114 pp.
- 1941: *Les Hémiptères Hémato-phages.* Monographie d'un groupe d'Hémiptères Hémato-phages. — *Ann. Soc. Entomol. Franc.* 110:273–368.
- Jensen-Haarup, A. C. 1922: *Hemipterological Notes and Descriptions II.* — *Entomol. Meddel.* 14:1–16.
- Kirby, F. W. 1895: On the Insects other than Coleoptera obtained by Dr. Anderson's Collector during Mr. T. Bent's Expedition to the Hadramaut, South Arabia. — *J. Linn. Soc. (Zool.)* 25:279–285.

- Kirkaldy, G. W. 1899: Expedition to Socotra IX. Descriptions of ten new species of Hemiptera. — Bull. Liverpool Mus. 2:45–47.
- 1910: Hemiptera, Gerridae, Corixidae and Notonectidae. — Wiss. Ergeb. Schwed. Zool. Exp. nach dem Kilimanjaro und dem Meru 1910:21–24.
- Klug, J. C. F. 1830: Symbolae physicae seu icones & descriptiones insectorum 2:10 Tables.
- 1845: Symbolae physicae seu icones & descriptiones insectorum 5:10 Tables.
- Lansbury, I. 1965: A revision of the Stenocephalidae Dallas 1852 (Hemiptera-Heteroptera). — Entomol. Mon. Mag. 101:52–160.
- 1966: Notes on the Notonectidae (Hemiptera-Heteroptera) of Aden and the Yemen. — Ann. Mag. Nat. Hist. (13)9:38–43.
- Latreille, P. A. 1804: Histoire naturelle, générale et particulière des Crustacés et des Insectes. — Paris, 424 pp.
- 1829: Insectes. In Cuvier's Règne animal 8(2), 528 pp.
- Leach, W. E. 1817: On the classification of the natural tribe of insects Notonectides, with description of British species. — Trans. Linneaus Soc. London 12:10–18.
- Leston, D. 1953: Notes on the Ethiopian Pentatomidae (Hem.) VII. A review of Gynenica Dallas 1851. — Rev. Zool. Bot. Afr. 48:179–195.
- Lethierry, L. 1881: Spedizione Italiana nell'Africa equatoriale. Risultate zoologici. Emitteri. — Ann. Mus. Civ. Stor. Nat. Genova 16:277–298.
- 1883: Spedizione Italiana nell'Africa equatoriale. Risultati zoologici. Emitteri. Parte seconda. — Ann. Mus. Civ. Stor. Nat. Genova 18:741–756.
- Lindberg, H. 1922: Neue Micronecta-Arten (Hem. Het.). — Notulae Entomol. 2:114–117.
- 1938: Neue Heteropteren aus Aegypten. — Bull. Soc. Fouad ler Entomol. 22:10–21.
- 1956: Über einige Miriden in E. de Bergevin's Sammlung. — Notulae Entomol. 36:53–64.
- Linnavuori, R. E. 1960: Hemiptera of Israel I. — Ann. Zool. Soc. Zool. Bot. Fenn. Vanamo 22:1–71.
- 1961: Two new species of Miridae from the Middle East. — Ann. Entomol. Fennici 27:210–212.
- 1964: Hemiptera of Egypt, with remarks on some species of the adjacent Eremian countries. — Ann. Zool. Fennici 1:306–356.
- 1968: On some new or interesting Hemiptera. — Ann. Entomol. Fennici 34:197–200.
- 1969: The pulchellus group of the genus *Sphedanolestes* St. (Het. Reduviidae). — Ann. Entomol. Fennici 35:216–224.
- 1971a: Hemiptera of the Sudan, with remarks on some species of the adjacent countries. I. The aquatic and subaquatic families. — Ann. Zool. Fennici 8:340–366.
- 1971b: On the Family Miridae. — Ann. Entomol. Fennici 37:126–135.
- 1972a: Studies on African Pentatomidae. — Annot. Zool. Bot. Mus. Bratislava 79:1–13.
- 1972b: Studies on Palearctic Hemiptera. — Ann. Entomol. Fennici 38:40–50.
- 1972c: On the taxonomy of the genus *Geocoris* Fn. (Het. Lygaeidae). — Ann. Entomol. Fennici 38:100–106.
- 1973: On the Elasmopoda-Hoplopterna complex (Het. Coreidae). — Arq. Mus. Bocage 4:29–69.
- 1974a: Hemiptera of the Sudan, with remarks on some species of the adjacent countries 3. Heteroptera: Cryptostemmatidae, Cimicidae, Polyctenidae, Joppeicidae, Reduviidae, Pachynomidae, Nabidae, Leptopodidae, Saldidae, Henicocephalidae, and Berytidae. — Ann. Entomol. Fennici 40:116–138.
- 1974b: Studies on African Miridae. — Entomol. Soc. Nigeria Occ. Publ. 12:1–67.
- 1974c: Studies on Palearctic and African Heteroptera. — Acta Entomol. Fennica 30:1–35.
- 1975a: Hemiptera of the Sudan, with remarks on some species of the adjacent countries 4. Heteroptera: Miridae and Isometopidae. — Ann. Zool. Fennici 12:1–118.
- 1975b: Hemiptera of the Sudan, with remarks on some species of the adjacent countries 5. Pentatomidae. — Bol. Soc. Portuguesa de Cienc. Nat. 15:5–128.
- 1977: Hemiptera of the Sudan, with remarks on some species of the adjacent countries 6. Tingidae, Piesmididae, Cydnidae, Thaumastellidae, and Plataspididae. — Acta Zool. Fennica 147:1–81.
- 1978: Hemiptera of the Sudan, with remarks on some species of the adjacent countries 7. Aradidae, Meziridae, Aneuridae, Pyrrhocoridae, Stenocephalidae, Coreidae, Alydidae, Rhopalidae, Lygaeidae. — Acta Zool. Fennica 153:1–108.
- 1981: Hemiptera of Nigeria, with remarks on some species of the adjacent countries 1. The aquatic and subaquatic families. — Acta Entomol. Fennica 37:1–39.
- 1982a: Pentatomidae and Acanthosomatidae of Nigeria and the Ivory Coast, with remarks on species of the adjacent countries in West and Central Africa. — Acta Zool. Fennica 163:1–176.
- 1982b: Some Hemipterous fauna from Somalia and Ethiopia. — Monitore Zool. Ital. N.S. Suppl. 15(1):1–33.
- 1986a: Hemiptera: Heteroptera. — Fauna of Saudi Arabia 8:31–197.
- 1986b: African species of *Laccocoris* Stål (Hemiptera: Naucoridae) and *Lerida* Karsch (Hemiptera: Pentatomidae). — Entomol. Scand. 17:475–490.
- Linnaeus, C. 1758: Systema naturae, 10th ed. — Lipsiae. 823 pp.
- Mancini, C. 1939a: Hemiptera I. — Ann. Mus. Civ. St. Nat. Genova 58:292–314.
- 1939b: Hemiptera. — In: Missione ne paese dei Borana raccolte Zool., Roma, pp. 195–224.
- 1946: Emitteri nuovi dell' Africa orientale. — Boll. Soc. Entomol. Ital. 76:67–68.
- 1964: New Hemiptera. — Atti Soc. Ital. Sci. Nat. Mus. Civ. St. Nat. Milano 103:299–301.
- 1948: Spedizione zoologica del Marchese Saverio Patrici nel Basso Giuba e nell'Oltregiuba 1934. Hemiptera. — Ann. Mus. St. Nat. Genova 63:218–234.
- Miller, N. C. E. 1951: The tarsatus group of the genus *Reduvius* (Heteroptera-Reduviidae). — Comment. Biol. 12(10): 1–39.
- 1953: Notes on the biology of the Reduviidae of Southern Rhodesia. — Trans. Zool. Soc. London 27:541–672.
- 1954: Hemiptera: Reduviidae. — British Museum Expedition to South-West Arabia 1:393–414.
- 1955: New species of *Reduvius* (Hemiptera-Reduviidae-Reduviinae). — Acta Entomol. Mus. Nat. Pragae 30:61–120.
- 1956: New genera and species of Old World Reduviidae (Hemiptera-Heteroptera). — Rec. Indian Museum 54:9–22.

- Montandon, A. L. 1893: *Lygaeides exotiques*. — *Ann. Soc. Entomol. Belg.* 37:399–406.
- 1897: *Espèces d'Hémiptères — Hétéroptères d'Algérie et de Tunisie*. — *Rev. d'Entomol.* 16:97–104.
- 1907: *Espèces nouvelles ou peu connues de la S.F. Geocorinae*. — *Bull. Soc. Sci. Bucarest* 16:82–93.
- 1913: *Les espèces Africains du Genre Tongorma Kirkaldy*. — *Bull. Acad. Roumaine des Sci.* 1:275–277.
- Mulsant, E. & Rey, Cl. 1866: *Histoire naturelle de Punaises de France II*. — Paris, 372 pp.
- Noualhier, M. 1898: *Hémiptères Gymnocérates récoltés au Sénégal par: Chevreux (Compagne de la quélette Melita en 1859–1890), avec la description des espèces nouvelles*. — *Bull. Mus. Hist. Nat. Paris* 4:232–234.
- Odhiambo, T. 1959a: *Notes on the East African Miridae XI*. — *Ann. Mag. Nat. Hist.* 2:321–360.
- 1959b: *Notes on the East African Miridae XII*. — *Ann. Mag. Nat. Hist.* 2:421–438.
- Palisot de Beauvois, A. M. J. F. 1805–[1821]: *Insectes recueillis en Afrique et en Amérique dans les Royaumes d'Oware et de Benin, a Saint Dominique et dans les Etats-Unis, pendant les années 1786–1797*. — Fain & Co., l'auteur & Lerrault, Schoell & Cie, Paris, 276 pp. [1805:1–40; 1806:41–56; 1807:57–88; 1811:101–136; 1817:137–172; 1818:173–208; 1820:209–240; 1821:241–276].
- Péricart, J. 1983: *Hémiptères Tingidae Euro-Méditerranéens*. — *Faune de France* 69:1–620.
- Poisson, R. A. 1926: *Hémiptères aquatiques ou peu connus de l'Afrique du Nord*. — *Bull. Soc. Hist. Nat. Afr. Nord* 17:237–247.
- 1929: *Résultats scientifiques de la Mission du Hoggar (1928). Hémiptères Aquatiques*. — *Bull. Soc. Hist. Nat. Afr. Nord* 20:87–96.
- 1948: *Les Hémiptères aquatiques du Sahara Central, Mission F. Bertrand au Fezzan*. — *Inst. Rech. Sahariennes Univ. Alger* 1948:203–210.
- Poppius, B. 1910a: *Ceratocombus enderleini sp.n. (Het. Cryptostemmatidae)*. — *Öfv. Finska Vet. Soc. Förh.* 52:1–14.
- 1910b: *Hemiptera. Miridae*. — In: *Sjöstedts Kilimanjaro-Meru Exp. 1905–1906*, pp. 35–36.
- 1912: *Die Miriden der Äthiopischen Region I*. — *Acta Soc. Sci. Fennica* 41:1–203.
- 1914: *Die Miriden der Äthiopischen Region II*. — *Acta Soc. Sci. Fennica* 44:1–136.
- Priesner, H. A. & Alfieri, A. 1953: *A review of Hemiptera Heteroptera known to us from Egypt*. — *Bull. Soc. Fouad I^{er} Entomol.* 37:1–119.
- Puton, A. 1847: *Hémiptères nouveaux*. — *Pet. Nouv. Entomol.* 6:34–92.
- 1869: *Description de trois Hémiptères nouveaux du Sahara algerien*. — *Ann. Soc. Entomol. Franc.* 1869:139–144.
- 1881: *Énumération des Hémiptères recoltés en Syrie*. — *Mitt. Schweiz. Entomol. Ges.* 6:119–130.
- 1883: *Trois Hémiptères nouveaux*. — *Rev. d'Entomol.* 2:13–15.
- 1884: *Notes Hemipterologique*. — *Rev. d'Entomol.* 3:142–149.
- 1887: *Hémiptères nouveaux de l'Algérie*. — *Rev. d'Entomol.* 6:298–311.
- 1892: *Hémiptères nouveaux ou peu connues*. — *Rev. d'Entomol.* 11:24–36.
- 1895: *Hémiptères nouveaux*. — *Rev. d'Entomol.* 14:83–91.
- Rambur, J. P. 1839: *Faune entomologique de l'Andalousie II*. — Paris, 36 pp.
- Reuter, O. M. 1875: *Genera Cimicidarum Europae*. — *Öfv. Svenska Vet. Akad. Förhandl.* 3(1):1–66.
- 1879: *Diagnose Hemipterorum novorum*. — *Öfv. Finska Vet. Soc. Förhandl.* 21:30–41.
- 1882a: *Genera nova Hemipterorum*. — *Wiener Entomol. Ztg.* 1:89–91.
- 1882b: *Ad cognitionem Heteropterorum Africae occidentalis*. — *Öfv. Finska Vet. Soc. Förhandl.* 25:1–43.
- 1884a: *Monographia Anthocoridarum orbis terrestris*. — *Helsingfors, 204 pp.*
- 1884b: *Teratophylina nova subfamilia Anthocoridarum ex Aegypto*. — *Wiener Entomol. Ztg.* 3:218–219.
- 1890: *Capsidae novae ex Africa boreali*. — *Rev. d'Entomol.* 9:255–260.
- 1891: *Hétéroptères de Suez*. — *Rev. d'Entomol.* 10:137–142.
- 1895: *Zur Kenntnis der Capsiden-Gattung Fulvius Stål*. — *Entomol. Tidskr.* 16:128–152.
- 1900: *Capsidae novae mediterraneae, descriptis I*. — *Öfv. Finska Vet. Soc. Förhandl.* 42:121–162.
- 1901: *Monographia generis Tarisa*. — *Öfv. Finska Vet. Soc. Förhandl.* 43:25–47.
- 1903: *Capsidae ex Abessinia et regionibus confinibus enumeratae et novae species descriptae*. — *Öfv. Finska Vet. Soc. Förhandl.* 45:1–18.
- 1904: *Ad cognitionem Capsidarum aethiopicarum*. — *Öfv. Finska Vet. Soc. Förhandl.* 46:1–8.
- 1905: *Ad cognitionem Capsidarum aethiopicarum II*. — *Öfv. Finska Vet. Soc. Förhandl.* 47:1–22.
- Reuter, O. M. & Poppius, B. 1912: *Zur Kenntnis der Teratophyliden*. — *Öfv. Finska Vet. Soc. Förhandl.* 54:1–17.
- Richter, H. C. 1869: *A new insect from Ceylon*. — *Hardwicke's Science Gossip*, p. 84.
- Rossi, P. 1790: *Fauna etrusca sistens*. — *Liburnia*, 348 pp.
- Schaum, H. 1862: *Hemiptera, Halbflugler*. In: *Peters, R.: Naturwissenschaftliche Reise nach Mossambique auf Befehl Seiner Majestet des Königs Friedrich Wilhelm IV in den Jahren 1842 bis 1848*. — *Ausgeführt von Wilhelm C. H. Peters. Zoologie. Berlin. G. Reimer*, 566 pp.
- Schilling, P. S. 1829: *Hemiptera Heteroptera Silesiae*. — *Beitr. Entomol.* 1:34–92.
- Schouteden, H. 1903: *Rhynchota aethiopica I. Scutellerinae et Graphosominae*. — *Ann. Mus. Congo Belge Zool.* 3(1):1–131.
- 1905a: *Rhynchota aethiopica II. Arminae et Tesseratominae*. — *Ann. Mus. Congo Belge Zool.* 3(1):133–277.
- 1905b: *Hemiptera. Excursione del Dott. Achille Tellini nell'Eritrea*. — *Ann. Soc. Entomol. Belg.* 49:1–8.
- 1906: *Hemiptera. Excursion du baron C. von Erlanger en Abyssinie et au pays des Somalis III–IV. Reduviidae et Miridae*. — *Ann. Soc. Entomol. Belg.* 50:1–12.
- 1946: *The genus Apollodotus Dist. (Het. Miridae)*. — *Rev. Zool. Bot. Afr.* 39:328–329.
- Schmidt, K. 1939: *Beiträge zur Hemipteren-Fauna Ägyptens 1*. — *Bull. Soc. Fouad I^{er} Entomol.* 23:22–30.
- Scopoli, J. A. 1763: *Entomologia carniolica*. — *Vindobonae*, 420 pp.
- Scudder, G. G. E. 1967: *The World Rhyparochrominae (Hemiptera: Lygaeidae) V. The genus Elasmolomus Stål in Africa*. — *Ann. Civ. St. Nat. Genova* 66:156–210.

- Seidenstücker, G. 1954: Ein neuer Reduviolus aus der ferus-Gruppe: *Nabis* (R.) *palifer* n.sp. — *Rev. Fac. Sci. Istambul* 19:125–129.
- Serville, A. 1831: Description du genre *Peirates* de l'ordre des Hémiptères. — *Ann. Scienc. Nat.* 23:213–222.
- Signoret, V. 1860: Faune des Hémiptères de Madagascar. 2. Hétero-ptères. — *Ann. Soc. Entomol. France* (31)8:917–972.
- 1879: Description de deux espèces nouvelles d'Hémiptères du genre *Stenocephalus*. — *Ann. Soc. Entomol. France* (5)9, *Bull.* LVIII-LIX.
- 1881: Descriptions de trois nouvelles espèces d'Hémiptères. — *Ann. Soc. Entomol. France* (6)1: *Bull.*: L.
- 1884: Un *Piezoscelis* nouveau. — *Ann. Soc. Entomol. France* (6)4: *Bull.*: LVI-LVII.
- Spinola, M. 1837: Essai sur les genres d'insectes appartenants à l'orde des Hemipteres. — *Genes*, 383 pp.
- Stusak, J. 1964: New Berytidae. — *Publ. Cul. Co. Diam. Angola, Lisboa* 1964:115–116.
- Stål, C. 1853: Nya Hemiptera från Kafferlandet. — *Öfv. Svenska Vet. Akad. Förhandl.* 10:209–297.
- 1855: Hemiptera från Kafferlandet. — *Öfv. Svenska Vet. Akad. Förhandl.* 12:27–46, 89–100.
- 1858: Orthoptera och Hemiptera från Södra Africa. — *Öfv. Svenska Vet. Akad. Förhandl.* 15:307–320.
- 1859: Till kännedom om Reduvini. — *Öfv. Svenska Vet. Akad. Förhandl.* 16:175–204, 363–386.
- 1864: Hemiptera Africana I. — *Holmia*, 266 pp.
- 1865a: Hemiptera Africana II. — *Holmia*, 181 pp.
- 1865b: Hemiptera Africana III. — *Holmia*, 200 pp.
- 1868: Hemiptera Fabriciana I. — *Kongl. Svenska Vet. Akad. Handl.* 7:1–148.
- 1872: Genera Lygaeidarum Europae disposuit. — *Öfv. Svenska Vet. Soc. Förhandl.* 29:37–62.
- 1873: Enumeratio Hemipterorum 3. — *Kongl. Svenska Vet. Akad. Handl.* 11:1–163.
- 1874: Enumeratio Hemipterorum 4. — *Kongl. Svenska Vet. Akad. Handl.* 12:1–186.
- Thunberg, G. 1882: *Dissertatio entomologica Hemiptera Ros-tratis Capensis*. — *Uppsaliae*, 6 pp.
- Villiers, A. 1950: Contribution à l'étude d l'Air. Hemiptera. — *Mem. Inst. Franc. Afr. Noire* 10:324–325.
- Wagner, E. 1950: Neue Hemiptera-Heteroptera aus Nordafrika. — *Bull. Soc. Fouad I^{er} Entomol.* 34:143–149.
- 1952: Die europäischen Arten der Gattung *Orius* Wff (Hem. Het. Anthocoridae). — *Notulae Entomol.* 32:22–59.
- 1953: Beiträge zur Systematik der Gattung *Geotomus* Muls. — *Rey* (Hemiptera, Cydnidae). — *Bull. Soc. Fouad I^{er} Entomol.* 1953:459–476.
- 1957a: Heteropteren aus Iran I. — *Jahresheft Ver. Vaterl. Naturk. Württemberg* 112:74–103.
- 1957b: *Aethus lindbergi* nov. sp. eine neue Cydniden-Art von den Kap Verde Inseln (Hemipt. Heteropt.). — *Comment. Biol.* 16(11):1.
- 1958a: Der *Nysius* komplex (Hem. Het. Lygaeidae) in der Palearktis. — *Comment. Biol.* 19(2):1–54.
- 1958b: Heteropteren aus Iran II. — *Stuttgarter Beitr. Naturk.* 12:1–13.
- 1959: *Emblethis oblongus* nov. spec. (Het. Lygaeidae). — *Bull. Soc. Entomol. Egypte* 43:327–329.
- 1960: Zwei neue Miriden-Arten aus Saudi-Arabien. — *Bull. Soc. Entomol. Egypte* 44:93–96.
- 1961a: Noch eine neue Lygaeiden-Gattung aus dem Tschad-See Gebiet (Hem. Het.). — *Zeit. Arbeitsges. Österr. Entomol.* 13:85–87.
- 1961b: Zur Systematik der Gattung *Rhyparochromus* Hahn, 1826 (Hem. Het. Lygaeidae). — *Deutsche Entomol. Zeitschr.* N. F. 8:73–116.
- 1963a: Ergebnisse der Zoologischen Nubien-Expedition 1962. XVII. Heteropteren. — *Ann. Naturhist. Mus. Wien* 66:477–487.
- 1963b: Zwei neue *Orthotylus*-Arten aus dem Mittelmeergebiet (Hemiptera, Miridae). — *Reichenbachia* 1: 270–272.
- 1965: *Stiropylus aristidae* nov. spec. (Het. Miridae). — *Acta Faun. Entomol. Mus. Nat. Pragae* 11:232–234.
- 1973: Weiterer Beitrag zur Gattung *Tuponia* Reuter, 1875. — *Entomol. Berichten* 33:145–149.
- Walker, F. 1867: Catalogue of the specimens of Heteropterous Hemiptera in the collection of the British Museum 2:241–417.
- 1870: A list of the Hemiptera collected by L. K. Lord. Esq., in Egypt, along the African shore of the Red Sea and in Africa. — *Zoologist* 5:2378–2381.
- 1872: Catalogue of Hemiptera Heteroptera in the collection of the British Museum 5:94–176.
- Webb, P. B. & Berthelot, S. 1839: *Histoire naturelle des Iles Canaries* 2(2), Paris [Brullé, Lucas & Macquart, pp. 55–119].
- Westwood, J. O. 1837: A catalogue of Hemiptera in the collection of the Rev. F. W. Hope. — London, 46 pp.
- 1842: A catalogue of Hemiptera in the collection of the Rev. F. W. Hope II. — London, 26 pp.

Received 11.VI.1987

Revised 18.III.1988

Printed 10.VIII.1989