



The Pyrrhocoroidea (Hemiptera – Heteroptera) of the Ethiopian region

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The superfamily Pyrrhocoroidea Southwood 1956 is closely related to the Lygaeoidea and the Coreoidea, and was placed by many authors as a subfamily of the Lygaeidae. It was recognized as a separate family by Amyot and Serville in 1843 under the name 'Cecigenes' and they divided it into two groups 'Pyrrhocorides' and 'Largides'. These two names became recognized as subfamilies of the Pyrrhocoridae, the family name being established by Fieber (1861). Hussey (1929) quotes Van Duzee (1916), who established the name Euryophthalminae to replace Larginae and divided that subfamily into two tribes Euryophthalmini and Physopeltini. This nomenclature was dealt with in detail by China (1954) who established that Larginae is still the correct subfamily name. Van Duzee's tribe Euryophthalmini is confined to American genera. China (1954) states that because of their differing affinities, the Larginae being more closely related to the Lygaeidae and the Pyrrhocorinae to the Coreidae, both these subfamilies should assume family status. This change in status was followed by China and Miller (1959). Southwood (1956), following a study of the eggs of the Heteroptera, had also suggested that the families Largidae and Pyrrhocoridae together formed the superfamily Pyrrhocoroidea. This view was accepted and confirmed by Schaefer (1964) following detailed morphological investigations of representatives of the Lygaeoidea, Coreoidea and Pyrrhocoroidea. Schaefer also summarised the conclusions of other workers who had undertaken comparative studies of morphological characters within the three superfamilies.

China and Miller (1959) used the following characters to typify the Pyrrhocoroidea:

1. Abdominal trichobothria present
2. Scutellum small, shorter than the clavus, a distinct claval commissure present
3. Antennophores visible from above
4. Antennae four segmented
5. Ocelli absent
6. Membrane of the hemelytra usually with two basal cells, from which 7 - 8 branching longitudinal veins extend to the apical margin
7. Medium to large, brightly colored, usually phytophagous bugs

Only 13 out of the 18 genera now recognised in the Ethiopian Region can be said to be brightly colored; the other five genera being dark in general coloration. The two families are: Largidae - Sixth visible (seventh actual) ventral abdominal segment in the female cleft in the middle; Pyrrhocoridae - Sixth visible ventral abdominal segment entire in both sexes. There does not seem to be any way to key out the males of the African Largidae (Physopelta) without dissection.

Hussey (1929) lists 360 species worldwide in the superfamily Pyrrhocoroidea Southwood 1956 with 77 African species, in 13 genera, the genus *Dysdercus* containing 15 of these species. Since then, a number of new species have been described. This catalogue is based on the literature up to 2000 and the study of material in the National Museum of Kenya (NMK), Nairobi, which includes my own collections from east Africa, mainly Tanzania. The present check-list gives 102 species in 18 genera.

The literature contains few references to the biology and ecology of the superfamily, being largely taxonomic. Only the genus *Dysdercus*, containing the 'cotton stainers' is of economic importance, and for that genus the literature is very extensive. For this reason the genus *Dysdercus* and the literature pertaining to it has been excluded from the present paper, except that, for completeness, it has been included in the list of species and the key to genera. Some of the other genera in the superfamily must be regarded as rare, few specimens being available in collections and in some, descriptions have been done on the basis of one or two specimens, sometimes only a single sex being known. Madagascar has been considered as being outside the scope of this work, as have the Mascarene Islands.

KEY TO THE AFRICAN GENERA

The first key to separate the African genera was by Stål (1865). The next key specifically intended for genera in the Ethiopian Region was by Villiers and Dekeyser (1951), to allow placement of their newly described genus *Sicnatus*. The characters used by Stål (1865) and Villiers and Dekeyser (1951) are similar. The present key has been altered from theirs only to accommodate recently described genera. It is expected to be accurate only within the Ethiopian Region. Much information has been published in recent years on the detailed structure of the male and female genitalia, differences that are particularly useful in the determination of species, and which are quite diagnostic for some genera, for example, the crossed parameres of the genus *Cenaeus*. So far, however, less than half the species have been adequately studied and generic keys based on these characters should wait until knowledge is more complete.

1. Sixth visible abdominal segment in the female cleft longitudinally, entire in the male. Medium to large insects (10 - 16 mm). General color red and black (Family Largidae). **PHYSOPELTA**
- Sixth visible abdominal segment entire in both sexes (Family Pyrrhocoridae). **2**
2. Form exceedingly ant-like. Smaller insects (6 - 8 mm). General color black, or black and red. Mostly brachypterous, but macropterous individuals known. **MYRMOPLASTA**
- Form not exceedingly ant like, at least not in the adult. Most genera macropterous **3**
3. Head strongly bent down in front of the eyes. Medium sized insects (8 - 11 mm). Brightly colored. Brachypterous. **SIANGO**
- Head not strongly bent down in front of the eyes. Various sizes and colors. Usually not brachypterous. **4**
4. Head transversely narrowed and depressed behind the eyes. Larger insects (14 - 17 mm). General color red and black. **ANTILOCHUS**
- Head not as above, usually more or less horizontal. **5**
5. Apex of corium acute. Larger brighter colored insects, (12 - 20 mm). General color black and red or brown. The 'cotton stainers'. Venter usually with contrasting stripes. **DYSDERCUS**
- Apex of corium rounded. Other characters different. **6**
6. Apical borders of third and fourth visible sternites straight, not sinuate laterally. Rostrum very long. Large insects, (25 - 32 mm). General color reddish and black. **CALLIBAPHUS**
- Apical borders of third and fourth visible sternites sinuate laterally. Usually without a very long rostrum. **7**
7. Apex of corium much longer than the corial-claval suture. Large slender insects, (18 - 24 mm). General color red and black. **ROSCIUS**
- Apex of the corium subequal to the corial-claval suture. **8**
8. Anterior discal area of pronotum not limited laterally by a furrow. Medium to large sized insects, (10 - 23 mm). General color ochre to brownish. **ODONTOPUS**
- Anterior discal area of pronotum limited by a clear lateral furrow, sometimes punctate, at least towards the front. **9**

9. Anterior discal area of pronotum circumscribed by an impressed continuous furrow. Borders of pronotum convex and regularly curved at anterior and posterior angles. Body often hairy. Medium sized insects, (8 - 14 mm). General color red and black, or brownish. ***SERICOCORIS***
- Anterior and posterior discal areas of pronotum separated by a furrow, which may or may not be punctate. Borders of the pronotum more or less concave at the middle. **10**
10. Anterior and posterior discal areas of pronotum separated by a furrow which is not punctate. Eyes sessile. Body never hairy. Insects of medium size, (7 - 14 mm). General color black, red and brownish. ***NEODINDYMUS***
- Pronotum not as above. Other characters different. **11**
11. Anterior and posterior discs of pronotum of different textures and colors separated by a row of punctures. Eyes more or less prominent, not sessile. Smaller oval insects, (7 - 14 mm). General color ochre or brownish. Some species brachypterous. ***CENAEUS***
- Pronotum not as above. Eyes sessile. **12**
12. Anterior discal area of pronotum clearly limited by a deeply punctate furrow. The first segment of the rostrum thick, not longer than the head. Larger insects, (15 mm). General color black and reddish or cream. ***GROMIERUS***
- First segment of rostrum not thick. Anterior discal area of pronotum not as above. **13**
13. The first segment of rostrum equal to half the length of the head. Small species, (7 - 10 mm). General color black, with some red. Majority brachypterous. ***SCANTIUS***
- First segment of rostrum not as above, sometimes exceeding the length of the head. **14**
14. First segment of rostrum reaching the apex of the prosternum. Antennae with many bristles. Front femora swollen and the front tibiae curved. Small insects, (6 - 8 mm). General color blackish. Mostly brachypterous. ***ADERRHIS***
- First segment of rostrum not as above. Antennae without many bristles. **15**
15. Third segment of antennae thickened, much bulkier than the fourth. Small insects, (6 - 9 mm). General color dark brown or black. Brachypterous. ***DERMATINUS***
- Antennae not of this form. **16**
16. Fourth segment of antennae strongly thickened in the middle. Small insects, (6 mm). General color black. Brachypterous. ***NEOINDRA***
- Antennae not of this form. Color not wholly black. **17**
17. First segment of antennae longer than the second. Anterior disc of pronotum limited anteriorly and posteriorly by distinct punctures. Medium sized insects, (8 - 12 mm). General color black and orangish. Mostly brachypterous. ***SCHMITZIANA***
- First segment of antennae shorter than the second. Apex of first segment of rostrum does not reach prosternum. Smallish insects, (8 mm). General color black and reddish. ***SICNATUS***

FAMILY LARGIDAE

The family Largidae was established by Amyot and Serville (1843), under the name Largides, which can be regarded as a valid group name based on the generic name *Largus* Hahn 1831 (China 1954). It is represented in Africa only by three species in the large genus *Physopelta* Amyot and Serville 1843. The last generic description was by Stål (1865) and was done before all the African species had been described. Some of the detailed characters given by Stål, therefore, do not fit the African species too well. For example the description of the antennae only holds good for *Physopelta festiva* (Fabricius 1803).

PHYSOPELTA Amyot & Serville 1843

Type species: *Physopelta erythrocephala* Amyot & Serville 1843. (= *Physopelta albofasciata* (De Geer 1773) Designated by Distant (1903) and quoted as a logotype by (Hussey 1929)

Country of origin of type species: Java

Type depository: not known

Illustrations: see *Physopelta festiva*

Physopelta Amyot & Serville 1843

Amyot and Serville 1843: 271

Physopelta Am. & Serv.

Stål 1861: 195

Physopelta A. & S.

Stål 1863: 390

Physopelta A. & S.

Stål 1866: 2

Physopelta A. & S.

Stål 1870: 91 and 99

Physopelta Serv.

Walker 1873: 17

key

Physopelta Amyot & Serville

Lethierry and Severin 1894: 241

Physopelta Am. & Serv.

Bredden 1901: 175

Physopelta Stål

Kirkaldy and Edwards 1902: 165

Physopelta Amy. & Serv.

Distant 1904: 97

Physopelta Amyot & Serville

Hussey 1929: 28

Physopelta Amyot & Serville

Schmidt 1931: 45

Physopelta Amyot & Serville 1843

Leston 1969: 225

key

KEY TO THE AFRICAN SPECIES MODIFIED FROM LESTION (1969)

1. Head plus body length more than 15 mm. Corium with a black band. Side of the abdomen red, with black lines of varying width anteriorly on each segment. Anal segment black.

Physopelta festiva (Fabricius 1803)

- Head plus body length less than 15 mm.

2

2. Corium with a black spot. Pronotum with the front half orange. Side of the abdomen reddish with the last two segments black. (12 - 13 mm).

Physopelta analis (Signoret 1858)

- Corium with a nearly complete black band. Pronotum with the frontal half pitchy-black. Side of the abdomen wholly black (10 - 12 mm).

Physopelta melanoptera Distant 1904

Physopelta analis (Signoret 1858)

Type depository: Vienna: Naturhistorisches Museum

Country of origin of type: Nigeria (Old Calabar)

Distribution: Cameroon (Barombi); Gabon; Ghana (Addah); 'Guinea'; Ivory Coast; Nigeria (Old Calabar)

Measurements: length 12-13mm; width 4-5mm (1 male)

Physopelta analis Signoret 1858

Signoret 1858: 306

description

Odontopus analis Stål 1858

Stål 1858: 441

description

<i>Pyrrhocoris analis</i> Sign.	Stål 1863: 391	
<i>Pyrrhocoris analis</i> Sign.	Stål 1866: 2	description
<i>Physopelta analis</i> Sign.	Stål 1870: 101	
<i>Physopelta analis</i> Sign.	Walker 1873: 17	
<i>Physopelta analis</i> Sign.	Reuter 1882: 28	
<i>Physopelta analis</i> Signoret	Lethierry and Severin 1894: 241	
<i>Physopelta analis</i> Sign.	Haglund 1895: 464	
<i>Physopelta analis</i> Sign.	Kirkaldy and Edwards 1902: 172	
<i>Physopelta analis</i> (Signoret)	Hussey 1929: 29	
<i>Physopelta analis</i> Sign.	Blöte 1931: 99	
<i>Physopelta analis</i> Signoret	Schmidt 1931: 46	
<i>Physopelta analis</i> (Signoret 1858)	Leston 1969: 225	
<i>Physopelta analis</i> (Signoret)	Linnavuori 1988: 13	

Physopelta festiva (Fabricius 1803)

Type depository: Copenhagen: Zoologisch Museum

Country of origin of type: Guinea. Distribution: Cameroon; Central African Republic; Congo (Brazzaville); Ghana; ‘Guinea’; Ivory Coast; Nigeria (Old Calabar); Uganda

Measurements: average length, male 18.7 mm (7); female 19.3 mm (6)

<i>Lygaeus festivus</i> Fabricius 1803	Fabricius 1803: 220	description
<i>Pyrrhocoris festivus</i> Fabr.	Burmeister 1835: 285	
<i>Physopelta festiva</i> Fabr.	Stål 1868: 79	description
<i>Physopelta festiva</i> Fabr.	Stål 1870: 101.	
<i>Physopelta festiva</i> Fabr.	Walker 1873: 17	description
<i>Physopelta festiva</i> Fabricius	Lethierry and Severin 1894: 242	
<i>Physopelta festiva</i> Fabr.	Haglund 1895: 463	
<i>Physopelta festiva</i> F.	Aulmann 1912: 120	illustration, description
<i>Physopelta festiva</i> (Fabricius)	Hussey 1929: 30	
<i>Physopelta festiva</i> F.	Blöte 1931: 99	
<i>Physopelta festiva</i> (Fabricius)	Villiers 1967: 370	
<i>Physopelta festiva</i>	Leston 1969: 225	
<i>Physopelta festiva</i> (Fabricius)	Linnavuori 1988: 13	

Physopelta melanoptera Distant 1904

Type depository: London: Natural History Museum

Country of origin of type: Cameroon. Distribution - Benin (Dahomey); Cameroon; Central African Republic; Congo (Brazzaville); Ghana; Ivory Coast; Tanzania; Togo; Uganda

Measurements: average length, male 10.6 mm (47); female 11.5 mm (43)

<i>Physopelta melanoptera</i> Distant 1904	Distant 1904: 61	description
<i>Physopelta melanoptera</i> Dist.	Distant 1909: 78	
<i>Physopelta melanoptera</i> Dist.	Bergroth 1913a: 167	
<i>Physopelta melanoptera</i> Distant	Hussey 1929: 32	
<i>Physopelta melanoptera</i> Distant	Villiers 1967: 370	
<i>Physopelta melanoptera</i>	Leston 1969: 225	
<i>Physopelta melanoptera</i> Distant	Linnavuori 1988: 13	

Collected in Tanzania October-May. In West Africa associated with *Mallotus oppositifolius* (Euphorbiaceae) (Leston, 1969; Duviard, 1974).

FAMILY PYRRHOCORIDAE

ANTILOCHUS Stål 1863

This is a large genus, mainly found in the Oriental and Australasian Regions. Three species are recorded from the Ethiopian region by Hussey (1929) but on examination of material in the National Museum of Kenya it was found that the third species, *Antilochus violaceus* Carlini 1892, is not a member of this genus at all, but definitely belongs to the genus *Odontopus* Laporte. An unnamed specimen of *Odontopus* in the NMK collection, from Somalia, matches Carlini's description very closely. Consequently, only two species of the Genus *Antilochus* are present in the Ethiopian Region, one is West African, the other is confined to Eastern and Southern Africa.

Type species: *Antilochus coqueberti* (Fabricius 1803) quoted as type species by Distant (1904) and as a logotype by Hussey (1929)

Country of origin of type species: India

Type depository: not known

Synonyms: *Neaeretus* Reuter 1887

Illustrations: see *Antilochus boerhaviae*

Antilochus Stål 1863

Stål 1863: 393

Antilochus Stål

Stål 1866: 3 and 4

Antilochus Stål

Stål 1870: 101 and 103

Odontopus De Lap.

Walker 1872: 174

Neaeretus Reuter 1887

Reuter 1887: 92

(syn. Bergroth 1894)

Antilochus Stål

Lethierry and Severin 1894: 243

Antilochus Stål

Bergroth 1894a: 358

Antilochus Stål

Bredden 1901: 175

Antilochus Stål

Kirkaldy and Edwards 1902: 166

Antilochus Stål

Distant 1904: 100

Antilochus Stål

Hussey 1929: 36

Antilochus Stål

Schmidt 1932: 236

The two species of *Antilochus* can easily be separated by the very different appearance of the pronotum and elytra:

1. Pronotum black, surrounded by a continuous narrow yellow band. Elytra black with irregular narrow yellowish bands that appear to enclose a large irregular black spot. Sides of the thorax predominantly black. Sides of the abdomen red, with narrow whitish lines anteriorly on each segment. The whitish lines vary in thickness and there may be some black coloration towards the rear of the abdomen. Anal segment, red.

Antilochus boerhaviae (Fabricius 1794)

2. Pronotum black, the borders reddish-orange with the red color being wider at the posterior corners. The elytra black with reddish patches separated to leave a central area in the form of a black cross. The pattern is rather variable, but distinctly different from *Antilochus boerhaviae*. Sides of the thorax reddish, sometimes darker. Sides of the abdomen red with whitish lines on the anterior of each segment, which vary somewhat in thickness. No black coloring is present. Anal segment, red.

Antilochus nigrocruciatus Stål 1855

Antilochus boerhaviae (Fabricius 1794)

Type depository: not known

Country of origin of type: 'Guinea'

Distribution: British East Africa; Cameroon; Congo (Brazzaville); Democratic Republic of Congo; Gabon; 'Guinea'; Nigeria; Senegal; Sudan

Synonyms: *Antilochus submaculatus* Kirkby 1896

Measurements: length, male 15.5 mm (1); female 18.2 mm (1)

Lygaeus boerhaviae Fabricius 1794

Fabricius 1794: 152

Lygaeus boerhaviae Fabricius

Fabricius 1803: 220

Antilochus boerhaviae Fabr.

Stål 1866: 4

<i>Antilochus boerhaviae</i> Fabr.	Stål 1868: 81	
<i>Antilochus boerhaviae</i> Fabr.	Stål 1870: 104	
<i>Odontopus boerhaviae</i> Fabr.	Walker 1872: 176	
<i>Antilochus boerhaviae</i> Fabricius	Lethierry and Severin 1894: 343	
<i>Antilochus boerhaviae</i> (F.)	Karsch 1894: 106	
<i>Antilochus submaculatus</i> Kirby 1896	Kirby 1896: 268	(syn. Distant 1902)
<i>Antilochus boerhaviae</i> Fabr.	Distant 1902b: 36	
<i>Antilochus boerhaviae</i> Fabr.	Distant 1902b: 36	
<i>Antilochus boerhaviae</i> (Fabr.)	Kirkaldy and Edwards 1902: 172	
<i>Antilochus boerhaviae</i> Fabricius	Courteaux 1922: 285	
<i>Antilochus boerhaviae</i> (Fabricius)	Hussey 1929: 37	
<i>Antilochus boerhaviae</i> F.	Blöte 1931: 102	
<i>Antilochus boerhaviae</i> Fabricius	Schmidt 1932: 240	
<i>Antilochus boerhaviae</i> Fabricius	Villiers 1953: 298	
<i>Antilochus boerhaviae</i> Fabricius	Linnavuori 1978: 7	
<i>Antilochus boerhaviae</i> (Fabricius)	Linnavuori 1988: 13	

The illustration given by Kirby (1896) of the specimen he described as *Antilochus submaculatus* is not the same as a typical specimen of *A. boerhaviae*, with which it was synonymised by Distant (1902), but may be an extreme form.

***Antilochus nigrocruciatus* (Stål 1855)**

Type depository: not known

Country of origin of type: South Africa (Natal, Caffraria)

Distribution: Kenya; South Africa (Natal, Caffraria)

Measurements: average length, male 14.5 mm (21); female 16.6 mm (23)

<i>Odontopus nigrocruciatus</i> Stål 1855	Stål 1855a: 35
<i>Antilochus nigro-cruciatus</i> Stål	Stål 1863: 395
<i>Antilochus nigrocruciatus</i> Stål	Stål 1866: 5
<i>Antilochus nigrocruciatus</i> Stål	Stål 1870: 104
<i>Antilochus nigrocruciatus</i> (Fabr.)	Walker 1872: 176
<i>Antilochus nigrocruciatus</i> Stål	Lethierry and Severin 1894: 243
<i>Antilochus nigrocruciatus</i> Stål	Bergroth 1920: 17
<i>Antilochus nigrocruciatus</i> Stål	Hussey 1929: 40
<i>Antilochus nigrocruciatus</i> Stål	Blöte 1931: 104
<i>Antilochus nigrocruciatus</i> Stål	Schmidt 1932: 240
<i>Antilochus nigrocruciatus</i> St.	Mancini 1961: 31

CALLIBAPHUS Stål 1868

The genus *Callibaphus* (Stål 1868) is confined to the Ethiopian Region and only three species have been described. These insects are very large and are rare in collections. Distribution is very much West African in published papers, reaching as far east as Uganda. Bergroth (1906) described a third species *Callibaphus gigas* from the Comoro Islands which are outside the Ethiopian Region, but it is included because Bergroth himself indicated that he thought his specimen to be conspecific with *Callibaphus longirostris* (Drury 1782). *C. gigas* has never formally been synonymised, probably because of the great gap between its location and those of all the other published records. The type would have to be examined before a decision could be reached.

Type species: *Callibaphus longirostris* (Drury 1782). Quoted as a monotype by Hussey 1929

Country of origin of type species: Sierra Leone

Type depository: London: Natural History Museum

Illustrations: see *Callibaphus longirostris*

Roscus (*Callibaphus*) Stål 1868

Stål 1868: 82

description

Callibaphus Stål

Stål 1870: 108

<i>Callibaphus</i> Stål	Lethierry and Severin 1894: 245
<i>Callibaphus</i> Stål	Hussey 1929: 50
<i>Callibaphus</i> Stål	Schmidt 1932: 246

The two African species may be separated quite easily, although the black markings both species bear on the pronotum and elytra are quite similar and are not useful as characters for separating the species:

1. Head dark red with a longitudinal black mark between and behind the eyes. Color above dark red, dull, with little variation among the available specimens. Membrane translucent. Sides of the thorax black, with dark red stripes at the rear of each segment. Sides of the abdomen dark red with black bands of varying width at the anterior of each segment, the black becoming dominant on the last two segments. Color changes diffuse. Anal segment dark red.

Callibaphus albipennis Distant 1914

2. Head orange to red without any black markings. Color above bright orange to red. Membrane black. Sides of thorax and abdomen black, with yellow lines of varying width at the rear of each segment. Color changes sharply defined. Anal segment orange to red.

Callibaphus longirostris (Drury 1782)

Callibaphus albipennis Distant 1914

Type depository: London: Natural History Museum

Country of origin of type: Uganda

Distribution: Kenya; Uganda

Measurements: length, male 26.9 mm(1); female 31.7 mm (1)

Callibaphus albipennis Distant 1914

Distant 1914: 180

description

Callibaphus albipennis Distant

Hussey 1929: 51

Callibaphus longirostris (Drury 1782)

Type depository London: Natural History Museum.

Country of origin of type: Sierra Leone.

Distribution: Cameroon; Congo (Brazzaville); (probably) Comoro Islands; Guinea; Nigeria; Sierra Leone; Tanzania; Togo.

Synonyms: *Roscius fasciatus* Walker 1872; *Callibaphus gigas* Bergroth 1906 (probably)

Measurements: length, male 30.1 mm (1)

Cimex longirostris Drury 1782

Drury 1782: 60

description, illustration

Lygaeus guineensis Fabricius 1803

Fabricius 1803: 216

description (syn. Stål 1868)

Roscius (Callabaphis) longirostris Drury

Stål 1868: 83

description

Cimex longirostris Drury

Stål 1870: 108

description

Roscius longirostris Drury

Walker 1872: 173

(syn. Leth. & Serv. 1894)

Roscius fasciatus Walker 1872

Walker 1872: 174

Callibaphus longirostris Drury

Lethierry and Severin 1894: 245

Callibaphus longirostris Dru.

Distant 1902b: 37

Callibaphus longirostris (Drury)

Kirkaldy and Edwards 1902: 172

Callibaphus gigas Bergroth 1906

Bergroth 1906: 199

description

Callibaphus gigas Bergr.

Bergroth 1913a: 169

Callibaphus gigas Bergroth

Hussey 1929: 51

Callibaphus longirostris (Drury)

Hussey 1929: 51

Callibaphus longirostris Drury

Blöte 1931: 108

Callibaphus longirostris Drury

Schmidt 1932: 246

Callibaphus longirostris Drury

Villiers 1953: 298

Callibaphus longirostris (Drury)

Villiers 1967: 371

Callibaphus longirostris (Drury)

Linnavuori 1988: 13

Earlier data indicate that this species is confined to West Africa, Cameroon and Congo (Brazzaville). Bergroth (1906) described *C. gigas*

from the Comoro Islands and indicated that it seemed very likely to be a variety of *C. longirostris*. A record from Tanzania in the National Museum of Kenya provides a possible link between the very widely separated populations in West Africa and the Comoro Islands.

ROSCIUS Stål 1866

The genus *Roscius* is confined to the Ethiopian region and five species have been described. The genus is characterized by the fact that the apical border of the corium is much longer than the commissure of the corium-clavus. This character reflects the slender elongate shape of all the species in the genus.

Type species: *Roscius elongatus* (Schaum 1853)

Country of origin of type species: Mozambique

Type depository: not known

Illustrations: see *Roscius circumdatus* and *Roscius illustris*

Roscius Stål 1866

Stål 1866: 8

Roscius Stål

Stål 1870: 102

Roscius Stål

Walker 1872: 173

Roscius Stål

Lethierry and Severin 1894: 245

Roscius Stål

Hussey 1929: 51

Roscius Stål

Schmidt 1932: 246

Five species are described in the published literature, although the status of *Roscius elongatus* and *Roscius quadriplagiatus*, both originally described by Schaum in 1853, is doubtful. As no authentic specimen of *Roscius elongatus* (Schaum 1853) is available it has been left out of the key below.

1. Head red without any black markings. Front half of the pronotum raised, black, separated from the rear half by a marked impressed furrow which curves backwards to the sides. The front half of the pronotum having no yellow, or having only a very narrow line of yellow on the anterior edge, which may be reduced to two yellow lateral anterior spots. The elytra with the anterior yellow marking sub-triangular, not an irregular shape. Sides of the abdomen with the first two visible segments markedly yellow or pale, the next two almost wholly black. Anal segment red.

Roscius illustris Gerstäcker 1873

- Head red, but having at least some black markings between and behind the eyes

2

2. Pronotum wholly surrounded by a narrow yellow border. The elytra with narrow elongate yellowish markings, the rear pair forming a border between the corium and the membrane.

Roscius circumdatus Distant 1881

- Pronotum not as above. Markings on the elytra and the sides of the abdomen different.

3

3. Pronotum flattened, with a marked wide orange anterior border and wide lateral orange borders. At most a very narrow band of orange posteriorly. The elytra with the anterior orange spots not triangular, but elongate and irregular, reaching to the shoulder. Sides of the abdomen much like *Roscius illustris*, but the first two visible segments red, with black coloration towards the connexivium, the next two segments almost wholly black. Anal segment red.

Roscius guilielmi Bergroth 1926

- Pronotum raised and divided by a curved furrow, but the yellow markings usually form a border on all four sides, narrowest and sometimes missing on the anterior half, laterally. Always with a yellow anterior border. The yellow markings being broadest at the posterior lateral corners. The elytra with the anterior yellow markings not triangular, irregular and extending forwards to the shoulder. Sides of the abdomen red, with black lines anteriorly on each segment. The width of the black varies, but the stripes are widest on the third and fourth visible abdominal segments. Anal segment red.

Roscius quadriplagiatus (Schaum 1853)

Roscius elongatus (Schaum 1853)

Type depository: not known

Country of origin of type: Mozambique

Distribution: Angola; Congo (Brazzaville); Gabon; Mozambique; Tanzania; Zanzibar

Measurements: length 24 mm, width 8 mm (ex. Lit.)

<i>Pyrrhocoris elongatus</i> Schaum 1853	Schaum1853: 358	description
<i>Pyrrhocoris elongatus</i> Schaum	Schaum 1862: 46	description
<i>Roscius elongatus</i> Schaum	Stål 1866: 8	description
<i>Roscius elongatus</i> Schaum	Stål 1870: 109	
<i>Roscius elongatus</i> Schaum	Walker 1872: 173	
<i>Roscius elongatus</i> Schaum	Gerstäcker 1892: 50	
<i>Roscius elongatus</i> Schaum	Bergroth 1893: 126	
<i>Roscius elongatus</i> Schaum	Lethierry and Severin 1894: 245	
<i>Roscius elongatus</i> Schaum	Montandon 1899	
<i>Roscius elongatus</i> (Schaum)	Hussey 1929: 51	
<i>Roscius elongatus</i> Schaum	Blöte 1931: 108	
<i>Roscius elongatus</i> Schaum	Schmidt 1932: 247	
<i>Roscius elongatus</i> Schaum	Villiers 1967: 372	

This species is widely distributed in southern and eastern Africa. It seems to be very closely related to *Roscius quadriplagiatus* (Schaum 1853) according to the written descriptions (Schaum 1853, repeated in 1862): *Pyrrhocoris quadriplagiatus* Schaum; Supra niger, capite thoracisque marginibus rufus, elytrorum maculis duabus flavis, subtus rufus, pectoris lateribus antennis pedibusque nigris. Long 8 lin (= 16.8 mm). *Pyrrhocoris elongatus* Schaum; Supra niger, epistomate, thoracis margine antico et postico, elytrorum maculis duabus rufis, anteriori sublunata, subtus rufus, pectoris lateribus pedibusque nigris. Long 10 lin (= 21.0 mm).

Roscius guilielmi Bergroth 1926

Type depository: not known

Country of origin of type: Democratic Republic of Congo

Distribution: Congo (Brazzaville); Democratic Republic of Congo; Guinea; Uganda

Measurements: length, male 17.0 mm (1); female 20.0 mm (1)

<i>Roscius guilielmi</i> Bergroth 1926	Bergroth 1926: 11	description
<i>Roscius guilielmi</i> Bergroth	Hussey 1929: 52	
<i>Roscius guilielmi</i> Bergroth	Villiers 1953: 298	
<i>Roscius guilielmi</i> Bergroth	Villiers 1967: 372	

This species has a West African distribution, and specimens in the NMK collection from western Uganda probably reflect the eastern limit of its range.

Roscius illustris Gerstäcker 1873

Type depository: Berlin Museum

Country of origin of type: Kenya

Distribution: Kenya; Mozambique; Tanzania; Zanzibar

Measurements: average length, male 14.4 mm (6), female 18.3 mm (7)

<i>Roscius illustris</i> Gerstäcker 1873	Gerstäcker 1873: 414	description, illustration
<i>Roscius illustris</i> Gerst.	Gerstäcker 1892: 50	
<i>Roscius illustris</i> Gerstaecker	Lethierry and Severin 1894: 245	
<i>Roscius illustris</i> Gerstäcker	Hussey 1929: 52	
<i>Roscius illustris</i> Gerst.	Blöte 1931: 108	
<i>Roscius illustris</i> Gerstäcker	Schmidt 1932: 247	

Roscius quadriplagiatus (Schaum 1853)

Type depository: Berlin Museum

Country of origin of type: Mozambique

Distribution: Gabon; Kenya; Mozambique; Tanzania

Measurements: average length, male 16.6 mm (8), female 21.8 mm (5)

<i>Pyrrhocoris quadriplagiatus</i> Schaum 1853	Schaum 1853: 358	description
<i>Pyrrhocoris quadriplagiatus</i> Schaum	Schaum 1862: 45	description
<i>Roscius quadriplagiatus</i> Schaum	Stål 1870: 108	
<i>Roscius quadriplagiatus</i> Schaum	Walker 1872: 173	
<i>Roscius quadriplagiatus</i> Schaum	Lethierry and Severin 1894: 245	
<i>Roscius quadriplagiatus</i> Schaum	Hussey 1929: 52	
<i>Roscius quadriplagiatus</i> Schaum	Blöte 1931: 108	
<i>Roscius quadriplagiatus</i> Schaum	Schmidt 1932: 247	

In the published literature this species is recorded from Mozambique and Gabon, but specimens in the NMK collection extend the range. The written descriptions of *Roscius elongatus* (Schaum 1853) and *Roscius quadriplagiatus* (Schaum 1853), as given above, make it doubtful if this species is different from *Roscius elongatus* (Schaum 1853)

Roscius circumdatus Distant 1881

Type depository: London, Natural History Museum

Country of origin of type: Nigeria (Calabar)

Distribution: Nigeria (Calabar); Cameroon; Ivory Coast; Democratic Republic of Congo

Synonyms: *Antilochus arcifer* Bergroth 1920

Measurements: length 19 mm (ex. Lit.).

<i>Roscius quadriplagiatus</i> Schaum	Walker 1872: 173	description
<i>Roscius circumdatus</i> Distant 1881	Distant 1881: 275	description, illustration
<i>Roscius circumdatus</i> Distant	Haglund 1895: 465	
<i>Roscius circumdatus</i> Dist.	Bergroth 1920: 3	description
<i>Antilochus arcifer</i> Bergroth 1920	Bergroth 1920: 3	(syn. Schmidt 1932)
<i>Antilochus arcifer</i> Bergroth	Hussey 1929: 36	
<i>Roscius circumdatus</i> Distant	Schmidt 1932: 247	description
<i>Roscius circumdatus</i> Distant	Linnavuori 1988: 16	

ODONTOPUS Laporte 1832

Hussey (1929) listed fifteen species in this genus, of which only six occurred in the Ethiopian Region. Since Hussey's catalogue was published two more species and one new variety have been described from the Ethiopian Region. All the members of the genus have a very similar appearance and all seem to be associated with the plant families Sterculiaceae and Malvaceae.

In 1904 Kirkaldy proposed the name *Probergrothius* for this genus as a replacement for *Odontopus* Laporte 1832, on the grounds that the name was preoccupied by a genus of Coleoptera, described by Siebermann. The details of priority had already been established by Alluaud (1889) fifteen years before Kirkaldy made his proposal. Kirkaldy himself realised that the name *Odontopus* was not validly preoccupied (Kirkaldy 1905), and this view was supported by Distant (1919). Only Hesse (1925) accepted the new name. However, Stehlik (1966) renewed the claim that *Odontopus* Laporte 1832 is preoccupied by a genus of Coleoptera described under the name *Odontopus* by Say (1831). Stehlik therefore proposes that the name *Probergrothius* Kirkaldy 1904 be reinstated for the Ethiopian and Oriental species in the genus (the Madagascar species having been transferred to a new genus). In this work, the name *Odontopus* is retained in the hope that the renaming of this large genus will be referred to the International Commission on Zoological Nomenclature for their consideration.

Type species: *Odontopus sexpunctatus* Laporte 1832. Quoted as a monotype by Hussey 1929

Country of origin of type species: Senegal

Type depository: not known.

Synonyms: *Probergrothius* Kirkaldy 1904

Illustrations: see *Odontopus notabilis* Distant 1902, *Odontopus sexpunctatus* Laporte 1832

<i>Odontopus</i> Laporte 1832	Laporte 1832: 37	description
<i>Odontopus</i> Lap.	Amyot and Serville 1843: 270	description
<i>Odontopus</i>	Herrich-Schaffer 1853: 174	description
<i>Odontopus</i> Lap.	Stål 1861: 196	
<i>Odontopus</i> Lap.	Stål 1866: 3	description
<i>Odontopus</i> Lap.	Stål 1870: 102	description
<i>Odontopus</i> Laporte	Alluaud 1889: LXV	
<i>Odontopus</i> de Castelnau	Lethierry and Severin 1894: 246	
<i>Odontopus</i> Laporte	Distant 1903: 108	description
<i>Probergrothius</i> Kirkaldy 1904	Kirkaldy 1904: 280	(syn Distant 1919)
<i>Odontopus</i>	Kirkaldy 1905: 79	
<i>Odontopus</i> Laporte	Distant 1919: 2	

KEY TO THE AFRICAN SPECIES

Odontopus angolensis Distant 1902 and *Odontopus obscurellus* Blöte 1933, which is only known from Zimbabwe, are not included because I have not seen specimens.

1. Larger species (16 - 23 mm) with one pair of large black rounded spots posteriorly on the elytra. (A variety, *O. notabilis* var. *kambovensis* lacks the black spots). Body mainly unicolorous, ochraceous. Antennae with the first segment red and the other three segments dark. Pronotum with the frontal part limited by two fairly deeply impressed black lines. Scutellum black. Thorax with the sterna black. Abdomen with the incisures marked with narrow blackish lines.

Odontopus notabilis Distant 1902
- Elytra not showing this pattern. Pronotum and other body parts different. 2
2. Large species (16.0 mm) with the elytra having one pair of round black spots posteriorly and a pair of black bands anteriorly. Head whitish. Pronotum with the frontal area whitish. Scutellum the same color as the elytra. Membrane milky. Thorax with the sterna whitish. Sides of the abdomen whitish ventrally, but darkening in the dorsal half.

Antilochus violaceus (Carlini 1892)
(See discussion of *Antilochus*)
- Elytra not having this pattern. Body colors different. 3
3. Species with not more than two pairs of small spots on the elytra. Sometimes the anterior pair are very small or missing. 4
- Species with three pairs of spots on the elytra, sometimes the two anterior pairs are partially joined. 6
4. Species (14 - 20 mm) markedly unicolorous, ochraceous, without red legs. At most narrow reddish stripes marking the abdominal incisures. Head quite pale, ochraceous. Frontal area of the pronotum limited by two dark lines. Last two segments of the antennae dark.

Odontopus modestus Distant 1902
- Species with red legs and generally much brighter coloring than the above. 5
5. Species (16 mm) with the central lobe of the head having a longitudinal black stripe running the whole length of the head. Head, other than the central black longitudinal stripe, orange. Pronotum with a pale anterior collar, the frontal area orange, limited by two distinct black lines. Scutellum orange. Membrane darker than the elytra. Antennae dark red, getting darker towards the tip. Legs red. Thorax with the sterna reddish with dark borders, sometimes all darker. Sides of the abdomen reddish, with wide blackish bands of variable width at the anterior of each segment.

Odontopus exsanguis (Gerstäcker 1892)

- Species (14 - 17 mm) with the central lobe of the head with a red longitudinal stripe running the whole length of the head. Head, other than the central red longitudinal stripe, ochraceous. Pronotum with a pale anterior collar and the frontal area ochraceous, sometimes darker shaded, bounded by two marked black lines. Antennae red, third and fourth segments darker. Legs reddish. Thorax with the sterna dark reddish. Membrane much the same color as the elytra. Sides of the abdomen yellowish, with broad but regular black stripes anteriorly on each segment.

Odontopus confusus Distant 1902

6. Species (14 - 21 mm) occurring in two color forms, red and black, but in both cases the elytra with two pairs of smallish spots anteriorly (rather larger and partially joined together in the black form) and a single pair of larger spots posteriorly. Details of the black color form. Body color ochraceous. Head with a central black area at the rear, tylus red. Pronotum with the frontal area black. Scutellum black. Elytra with the black spots arranged as in the illustration. Thorax with the sterna black. Abdomen with the sides reddish-yellow, and with black stripes anteriorly on each segment. Details of the red color form. Body ochraceous with a reddish tinge. Head with the rear central area and the tylus red. Pronotum with the frontal area red, but limited by black lines. Scutellum red or blackish red. Elytra with the black spots arranged as in the illustration. Thorax with the sterna black. Abdomen with the sides reddish-yellow, more strongly diffused with red ventrally, and black stripes anteriorly on every segment.

Odontopus sexpunctatus Laporte 1832

- Species (15 - 18 mm) with two pairs of small separate black spots anteriorly on the elytra. A single pair of small black spots posteriorly.

Odontopus somaliensis Goursat 1931

Odontopus angolensis Distant 1902

Type depository: London, Natural History Museum

Country of origin of type: Angola

Distribution: Angola; Cameroon; Democratic Republic of Congo; Namibia; Zambia

Measurements: length 18 - 21 mm (ex. Lit.)

Odontopus angolensis Distant 1902

Distant 1902b: 38

description

Odontopus angolensis Dist.

Bergroth 1913a: 169

Odontopus angolensis Distant

Hussey 1929: 52

Odontopus angolensis Dist.

Blöte 1931: 108

Odontopus angolensis Distant

Schmidt 1932: 249

Odontopus confusus Distant 1902

Type depository: London, Natural History Museum

Country of origin of type: Tanzania

Distribution: Eritrea; Tanzania; Zanzibar

Measurements: average length, male 14.5 mm (17), female 17.6 mm (19)

Odontopus confusus Distant 1902

Distant 1902b: 39

description

Odontopus confusus Dist.

Bergroth 1913a: 169

Odontopus confusus Distant

Hussey 1929: 52

Odontopus confusus Dist.

Blöte 1931: 108

Odontopus confusus Distant

Schmidt 1932: 249

Breeding on or in association with *Sterculia appendiculata*, *Sterculia quinqueloba*, *Sterculia africana*, *Adansonia digitata* (Baobab) and *Ceiba pentandra* (Kapok). Also a few in association with cotton, dolichos, castor, cassava, pigeonpea, *Sida* sp. and *Calotropis procera*, although none of these need be considered as important hosts. At Ukiriguru (Tanzania) batches of eggs were laid by caged pairs and averaged 28 eggs (24-36) per batch.

Odontopus exsanguis (Gerstäcker 1892)

Type depository: not known

Country of origin of type: Zanzibar

Distribution: Tanzania; Zanzibar. Synonyms: *Odontopus schoutedeni* Bergroth 1903

Measurements: average length, male 13.8 mm (15), female 15.8 mm (16)

Cenaeus exsanguis Gerstäcker 1892

Gerstäcker 1892:50

description

Odontopus schoutedeni Bergroth 1903

Bergroth 1903: 290

description (syn. Distant 1919)

Odontopus schoutedeni Berg.

Bergroth 1906: 371

Cenaeus exsanguis Gerst.

Bergroth 1913a: 169

Odontopus confusus Distant

Distant 1919: 219

Odontopus exsanguis (Gerstäcker)

Hussey 1929: 53

Odontopus exsanguis Gerstäcker

Schmidt 1932: 249

Most specimens are recorded as having been collected on *Sterculia* sp.

Odontopus modestus Distant 1902

Type depository: London, Natural History Museum

Country of origin of type: Kenya

Distribution: Ethiopia; Kenya; Somalia

Measurements: average length, male 15.7 mm (14), female 19.0 mm (20)

Odontopus modestus Distant 1902

Distant 1902b: 38

description

Odontopus modestus Dist.

Bergroth 1903: 291

Odontopus modestus Dist.

Schouteden 1905: 1

Odontopus modestus Dist.

Bergroth 1913a: 170

Odontopus modestus Distant

Hussey 1929: 53

Probergrothius modestus (Distant 1902)

Linnavuori 1986: 109

Odontopus notabilis Distant 1902

Type depository: London, Natural History Museum

Country of origin of type: Uganda

Distribution: Angola; Burundi; Democratic Republic of Congo; Uganda; Tanzania

Synonyms: *Odontopus aulmanni* Aulmann 1912

Measurements: average length, male 16.2 mm (6), female 19.1 mm (6)

Odontopus notabilis Distant 1902

Distant 1902a: 42

description, illustration

Odontopus notabilis Distant

Bergroth 1903: 291

description

Odontopus aulmanni Schumacher

Schumacher 1912: 121

description, illustration, (syn. Bergroth 1913)

Odontopus notabilis Dist.

Bergroth 1913a: 170

Odontopus notabilis Distant

Hussey 1929: 54

Odontopus notabilis Dist.

Blöte 1931: 108

Odontopus notabilis Distant

Goursat 1931b: 266

description, illustration

Odontopus notabilis Distant

Schmidt 1932: 249

Odontopus notabilis Distant 1902 var. *kambovensis* Goursat 1931

This variety of *O. notabilis* was described by Goursat 1931 from a specimen originating in Kambove (Democratic Republic of Congo, Shaba). The main difference between it and the nominate form is that it lacks the distinct rounded black spot at the apex of the corium. This variety is well represented in the National Museums of Kenya collection and the specimens come from two of the same localities in

western Tanzania as did the nominate species, obviously part of the same collections.

Measurements: average length, male 16.7 mm (8), female 21.0 mm (5)

***Odontopus obscurellus* Blöte 1933**

Type depository: London, Natural History Museum

Country of origin of type: Zimbabwe

Distribution: Zimbabwe

Measurements : length of male 10.5 mm (ex. Lit.)

Odontopus obscurellus Blöte 1933 Blöte 1933b: 592. **description**

***Odontopus sexpunctatus* Laporte 1832**

Type depository: not known

Country of origin of type: Senegal

Distribution: Angola; Burkino Fassa; Chad; Congo (Brazzaville); Democratic Republic of Congo; Eritrea; Ethiopia; Gabon; Gambia; Ghana; Guinea; Mozambique; Namibia; Nigeria; Rwanda; Senegal; Sierra Leone; South Africa; Sudan; Tanzania

Measurements: Red form, average length, male 15.1 mm (5), female 18.7 mm (6). Black form, average length, male 17.3 mm (2), female 16.9 mm (5)

<i>Odontopus sexpunctatus</i> Laporte 1832	Laporte 1832: 37	description, illustration
<i>Odontopus sexpunctatus</i> Lap.	Spinola 1837: 178	
<i>Odontopus sexpunctatus</i> Lap.	Amyot and Serville 1843: 271	description
<i>Odontopus sexpunctatus</i> Lap.	Guerin-Meneville 1849: 341	illustration
<i>Odontopus sexpunctatus</i> Lap.	Herrich-Schaffer 1850: 178	
<i>Odontopus sexpunctatus</i> Laporte	Schaum 1862: 44	
<i>Odontopus sexpunctatus</i> Lap.	Stål 1863: 392	
<i>Odontopus sexpunctatus</i> Lap.	Stål 1866: 6	description
<i>Odontopus sexpunctatus</i> Lap.	Stål 1870: 109	
<i>Odontopus sexpunctatus</i> de Lap.	Walker 1872: 175	
<i>Odontopus sexpunctatus</i> Lap.	Bergroth 1893: 126	
<i>Odontopus sexpunctatus</i> de Castelnau	Lethierry and Severin 1894: 246	
<i>Odontopus sexpunctatus</i> (Lap.)	Distant 1900: 48	
<i>Odontopus sexpunctatus</i> Lap.	Bergroth 1913b: 239	
<i>Probergrothius sexpunctatus</i> de Castelnau	Hesse 1925: 86	
<i>Odontopus sexpunctatus</i> Laporte	Hussey 1929: 55	
<i>Odontopus sexpunctatus</i> Lap.	Blöte 1931: 108	
<i>Odontopus sexpunctatus</i> Laporte	Schmidt 1932: 248	
<i>Odontopus sexpunctatus</i> Castelnau	Villiers 1950a: 323	
<i>Odontopus sexpunctatus</i> Lap.	Risbec 1951: 248	
<i>Odontopus sexpunctatus</i> Laporte	Schouteden 1957: 263	
<i>Odontopus sexpunctatus</i> Laporte	Villiers 1967: 372	
<i>Odontopus sexpunctatus</i> (Lp.)	Linnavuori 1978: 7	
<i>Probergrothius sexpunctatus</i> (Laporte de Castelnau)	Linnavuori 1988: 16	

This species is very widespread in the Ethiopian Region. There are two distinct forms, one with a blackish appearance, the other being reddish, although in both the spots on the corium are black. The reddish form is the one originally described by Laporte de Castelnau in 1832, from Senegal, and his illustration (Plate IX, Figs. 5 and 5a) shows two separate spots near the base of each corium; in this form the anterior area of the pronotum is red. It is also illustrated by Stehlik 1966b (Plates III and IV). The other form, illustrated in Guerin-Meneville (1847-51, Plate 6, Fig. 6) and referred to in the caption as *Astemma percheroni*, shows the two basal spots on the corium coalesced into a single transverse spot, retaining the single spot near the apex of the corium. In this form the anterior area of the pronotum is black. The NMK collection has specimens of the black form from Kenya, Sudan and Uganda and the red form from Tanzania.

***Odontopus somaliensis* Goursat 1931**

Type depository: London, Natural History Museum

Country of origin of type: Somalia

Distribution: Somalia

Measurements: male, length 15 mm, width 6 mm; female, length 18 mm, width 7 mm (ex. Lit.)

Odontopus somaliensis Goursat 1931

Goursat 1931a: 167

description

Odontopus somaliensis Goursat

Mancini 1954: 166

***Antilochus violaceus* Carlini 1982**

Type depository: Natural History Museum, Genoa

Country of origin of type: Somalia

Distribution: Somalia

Measurements: length 16 mm; width 6 mm (ex. Lit.)

Antilochus violaceus Carlini 1982

Carlini 1982: 532

description

Antilochus violaceus Carlini

Lethierry & Severin 1894: 243

Antilochus violaceus Carlini

Hussey 1929: 41

***SERICOCORIS* Karsch 1892**

This genus, first described by Karsch (1892) and based on hairy insects collected in Cameroon, was revised by Stehlik in 1965. Stehlik's treatment of the genus concentrated on the use of the details of the male and female genitalia to determine species and this represented a major advance in the knowledge of the taxonomy of the superfamily.

Hussey 1929 listed only two species in the genus, but following Stehlik 1965a the number now stands at fourteen. Only one of these is a new species, *Sericocoris obuduanus* Linnavuori 1988. The rest have been transferred, by Stehlik 1965a, from other genera on the basis of detailed study of the genitalia. The genus is confined to the Ethiopian Region and the species are mostly rare in collections. Little is recorded in the published literature about the ecology of the species, although from the distribution and localities in which they have been found, they are most likely to be associated with forest habitats. Five of the fourteen species in the genus have been recorded as occurring in Eastern Africa, including Rwanda; the rest are West African, with Democratic Republic of Congo being the most easterly country.

In a large genus such as this, when many species are not available for study, the older written published descriptions have been found to be inadequate. The problem is mainly that authors have not followed a standard pattern of description and one is often left wondering about what has been left out. This lack is emphasized by the detailed and well illustrated paper of Stehlik 1965a.

Type species: *Sericocoris acromelanthes* Karsch 1892. Quoted as a monotype by Hussey 1929

Country of origin of type species: Cameroon

Type depository: not known

Synonyms: *Hathor* Kirkaldy and Edwards 1902

Sericocoris Karsch 1892

Karsch 1892: 132

Sericocoris Karsch

Lethierry and Severin 1894: 245

Sericocoris Karsch

Karsch 1894: 106

Hathor Kirkaldy & Edwards 1902

Kirkaldy and Edwards 1902: 168 (syn. Bergroth 1912)

Sericocoris Karsch

Bergroth 1912: 316

Sericocoris Karsch

Bergroth 1913a: 169

Sericocoris Karsch

Distant 1919: 220

Sericocoris Karsch

Hussey 1929: 50

Sericocoris Karsch

Schmidt 1932: 245

Sericocoris Karsch

Stehlik 1965a: 220

Stehlik divided the genus into three subgenera depending on the degree of hairiness of the species:

Sericocoris, hairy

Sericocoriopsis, dorsal surface of the body almost hairless, but some pubescence on the ventral surface. This character seems quite variable.

Pseudocenaesus, hairless. This subgenus contains species that are smaller and more slender than the two subgenera noted above.

Sericocoris (*Sericocoris*) *acromelanthes* Karsch 1892

Type depository: not known

Country of origin of type: Cameroon

Distribution: Cameroon; Congo (Brazzaville); Democratic Republic of Congo; Guinea; Ivory Coast; Togo; Uganda

Synonyms: *Hathor zoraida* Kirkaldy & Edwards 1902, *Sericocoris cosmohymen* Strand 1910

Measurements: average length, male 10.2 mm (2), female 13.2 mm (2)

<i>Sericocoris acromelanthes</i> Karsch 1892	Karsch 1892: 133	illustration
<i>Sericocoris acromelanthes</i> Karsch	Lethierry and Severin 1894: 245	
<i>Sericocoris acromelanthes</i> Karsch	Karsch 1894: 106	
<i>Hathor zoraida</i> Kirkaldy & Edwards 1902	Kirkaldy and Edwards 1902: 168	illustration , (syn. Bergroth 1913)
<i>Sericocoris cosmohymen</i> Strand 1910	Strand 1910: 151	illustration , (syn. Bergroth 1913)
<i>Sericocoris acromelanthes</i> Karsch	Schumacher 1912: 319	
<i>Sericocoris acromelanthes</i> Karsch	Bergroth 1913a: 169	
<i>Sericocoris acromelanthes</i> Karsch	Hussey 1929: 50	
<i>Sericocoris acromelanthes</i> Karsch	Blöte 1931: 108	
<i>Sericocoris acromelanthes</i> Karsch	Schmidt 1932: 245	
<i>Sericocoris acromelanthes</i> Karsch	Villiers 1950b: 640	illustration
Var. <i>unifasciata</i> Villiers 1950		
Var. <i>nigrithorax</i> Villiers 1950		
<i>Sericocoris acromelanthes</i> Karsch	Villiers 1953: 298	
<i>Sericocoris</i> (<i>Sericocoris</i>) <i>acromelanthes</i> Karsch	Stehlik 1965a: 222	illustration
<i>Sericocoris acromelanthes</i> Karsch	Villiers 1967: 371	
<i>Sericocoris acromelanthes</i> Karsch	Linnavuori 1988: 13	

Sericocoris (*Sericocoris*) *cuneatus* Villiers 1951

Type depository: Paris, Museum d'Histoire Naturelle

Country of origin of type: Congo (Brazzaville)

Distribution: Congo (Brazzaville)

Measurements: length 12 mm (ex. Lit.)

<i>Sericocoris cuneatus</i> Villiers 1951	Villiers 1951: 145	description, illustration
<i>Sericocoris</i> (<i>Sericocoris</i>) <i>cuneatus</i> Villiers	Stehlik 1965a: 222	illustration

Sericocoris (*Sericocoriopsis*) *johnstoni* (Distant 1902)

Type depository: London, Natural History Museum

Country of origin of type: Uganda

Distribution: Nigeria; Rwanda; Uganda

Synonyms: *Sericocoris acromelanthes* Haglund 1895, *Sericocoris acromelanthes* var. *nigricornis* Schouteden 1957

Measurements: average length, female 13.2 mm (3)

<i>Sericocoris acromelanthes</i> Karsch	Haglund 1895: 464	description
<i>Sericocoris johnstoni</i> Distant 1902	Distant 1902a: 43	description
<i>Sericocoris acromelanthes</i> Karsch	Schouteden 1957: 262	description
<i>Sericocoris</i> (<i>Sericocoriopsis</i>) <i>johnstoni</i> Distant	Stehlik 1965a: 223	illustration
<i>Sericocoris johnstoni</i> Distant	Linnavuori 1988: 13	

Sericocoris (Sericocoriopsis) dispar (Schouteden 1957)

Type depository: Tervuren, Musee Royal de l’Afrique Centrale
Country of origin of type: Rwanda
Distribution: Rwanda
Measurements: length, 10 mm (ex. Lit.)

Cenaeus dispar Schouteden 1957

Schouteden 1957: 265

description

Sericocoris (Sericocoriopsis) dispar (Schouteden)

Stehlik 1965a: 223

illustration

Sericocoris (Sericocoriopsis) sanguinolentus (Haglund 1895)

Type depository: Stockholm, Naturhistoriska Riksmuseum
Country of origin of type: Cameroon
Distribution: Cameroon
Synonyms: *Sericocoris sanguineus* Villiers 1951
Measurements : length 8.5 - 11 mm, width 3 - 4 mm (ex. Lit.)

Cenaeus sanguinolentus Haglund 1895

Haglund 1895: 465

Cenaeus sanguinolentus Hagl.

Schumacher 1912: 319

Cenaeus sanguinolentus Hagl.

Bergroth 1913a: 171

Cenaeus sanguinolentus Haglund

Hussey 1929: 67

Sericocoris sanguineus Villiers 1951

Villiers 1951: 146

illustration (syn. Stehlik 1965)

Sericocoris (Sericocoriopsis) sanguinolentus (Haglund)

Stehlik 1965a: 146

Sericocoris (Pseudocenaeus) nigriceps (Stål 1855)

Type depository: Stockholm, Naturhistoriska Riksmuseum
Country of origin of type: South Africa
Distribution: Kenya; Rwanda; South Africa; Sudan; Tanzania
Synonyms: *Dindymus natalensis* Distant 1902, *Cenaeus kilimanus* Schouteden 1910, *Cenaeus usambarae* Schouteden 1910, *Cenaeus ornatus* Villiers 1951
Measurements: average length 8.75 - 12 mm, width 4.5 mm (ex. Lit.)

Pyrrhocoris nigriceps Stål 1855

Stål 1855a: 35

Cenaeus nigriceps Stål

Stål 1861: 196

Odontopus nigriceps Stål

Stål 1866: 7

Dindymus nigriceps Stål

Stål 1870: 113

Odontopus nigriceps Stål

Walker 1872: 175

Dindymus nigriceps Stål

Lethierry and Severin 1894: 247

Dindymus natalensis Distant 1902

Distant 1902b: 40

(syn. Stehlik 1965)

Cenaeus kilimanus Schouteden 1910

Schouteden 1910: 152

(syn. Stehlik 1965)

Cenaeus usambarae Schouteden 1910

Schouteden 1910: 152

(syn. Stehlik 1965)

Dindymus natalensis Dist.

Bergroth 1913a: 170

Dindymus nigriceps (Stål)

Hussey 1929: 60

Cenaeus kilimanus Schouteden

Hussey 1929: 67

Cenaeus usambarae Schouteden

Hussey 1929: 68

Cenaeus ornatus Villiers 1951

Villiers 1951: 143

illustration (syn. Stehlik 1965)

Cenaeus kilimanus Schouteden

Schouteden 1957: 264

Cenaeus usambarae Schouteden

Schouteden 1957: 264

Sericocoris (Pseudocenaeus) nigriceps (Stål)

Stehlik 1965a: 223

illustration

Sericocoris (Pseudocenaeus) luridus (Reuter 1882)

Type depository: not known

Country of origin of type: Ghana

Distribution: Cameroon; Central African Republic; Democratic Republic of Congo; Ghana; Guinea; Ivory Coast; Nigeria; Sudan; Uganda

Synonyms: *Cenaeus gowdeyi* Bergroth 1912, *Cenaeus ochraceus* Blöte 1932

Measurements: average length, male 9.2 mm (1), female 11.8 mm (8)

<i>Cenaeus luridus</i> Reuter 1882	Reuter 1882: 28	
<i>Cenaeus luridus</i> Reuter	Lethierry and Severin 1894: 248	
<i>Cenaeus gowdeyi</i> Bergroth 1912	Bergroth 1912b: 194	(syn. Stehlik 1965)
<i>Cenaeus gowdeyi</i> Bergroth	Bergroth 1913a: 171	
<i>Cenaeus gowdeyi</i> Berg.	Bergroth 1926: 12	
<i>Cenaeus gowdeyi</i> Bergroth	Hussey 1929: 66	
<i>Cenaeus luridus</i> Reuter	Hussey 1929: 67	
<i>Cenaeus ochraceus</i> Blöte 1933	Blöte 1933a: 2	(syn. Stehlik 1965)
<i>Cenaeus luridus</i> Reuter	Villiers 1953: 298	
<i>Cenaeus ochraceus</i> Blöte	Villiers 1953: 29	
<i>Sericocoris (Pseudocenaeus) luridus</i> (Reuter)	Stehlik 1965a: 224	illustration
<i>Sericocoris luridus</i> R.	Linnavuori 1978: 8	
<i>Sericocoris luridus</i> Reuter	Linnavuori 1988: 13	
<i>Sericocoris gowdeyi</i> Bergroth	Linnavuori 1988: 13	

Sericocoris (Pseudocenaeus) distinguendus (Blöte 1933)

Type depository: London, Natural History Museum

Country of origin of type: Ghana

Distribution: Ghana; Ivory Coast; Nigeria; Uganda

Measurements: average length, male 8.8 mm (1), female 11.7 mm (2)

<i>Cenaeus distinguendus</i> Blöte 1933	Blöte 1933b: 594	description
<i>Cenaeus distinguendus</i> Blöte	Villiers 1953: 299	
<i>Sericocoris (Pseudocenaeus) distinguendus</i> (Blöte)	Stehlik 1965a: 224	
<i>Sericocoris distinguendus</i> (Blöte)	Linnavuori 1988: 13	

Sericocoris (Pseudocenaeus) obscuratus (Blöte 1933)

Type depository: London, Natural History Museum

Country of origin of type: Sierra Leone

Distribution: Sierra Leone

Measurements: length 10.75 mm (ex. Lit.)

<i>Cenaeus obscuratus</i> Blöte 1933	Blöte 1933b: 593	description
<i>Sericocoris (Pseudocenaeus) obscuratus</i> (Blöte)	Stehlik 1965a: 225	

Sericocoris (Pseudocenaeus) roseus (Villiers 1951)

Type depository: Paris, Museum d'Histoire Naturelle

Country of origin of type: Guinea

Distribution: Guinea

Measurements: length of male 11 mm (ex. Lit.)

<i>Cenaeus roseus</i> Villiers 1951	Villiers 1951: 141	description
<i>Cenaeus roseus</i> Villiers	Villiers 1953: 298	
<i>Sericocoris (Pseudocenaeus) roseus</i> (Villiers)	Stehlik 1965a: 225	illustration
<i>Sericocoris roseus</i> (Villiers)	Linnavuori 1988: 14	

Sericocoris (Pseudocenaeus) montanus (Villiers 1951)

Type depository: Paris, Museum d'Histoire Naturelle

Country of origin of type: Ivory Coast

Distribution: Ivory Coast

Measurements: average length of female 13 - 14 mm (ex. Lit.)

Cenaeus montanus Villiers 1951

Villiers 1951: 142

description

Cenaeus montanus Villiers

Villiers 1953: 298

Sericocoris (Pseudocenaeus) montanus (Villiers)

Stehlik 1965a: 225

Sericocoris montanus (Villiers)

Linnavuori 1988: 13

Sericocoris (Pseudocenaeus) plebejus (Haglund 1895)

Type depository: Stockholm, Naturhistoriska Riksmuseum

Country of origin of type: Cameroon

Distribution: Cameroon

Measurements: length 11 mm, width 3.5 mm, female (ex. Lit.)

Cenaeus plebejus Haglund 1895

Haglund 1895: 466

description

Cenaeus plebejus Hagl.

Bergroth 1913a: 171

Cenaeus plebejus Haglund

Hussey 1929: 67

Sericocoris (Pseudocenaeus) plebejus (Haglund)

Stehlik 1965a: 225

Sericocoris (Pseudocenaeus) apicicornis (Fairmaire 1858)

Type depository: Paris, Museum d'Histoire Naturelle

Country of origin of type: Gabon

Distribution: Cameroon; Congo (Brazzaville); Democratic Republic of Congo; Gabon; Guinea; Uganda Measurements: average length of female 13.5 mm (2)

Odontopus apicicornis Fairmaire 1858

Fairmaire 1858: 307

Cenaeus apicicornis Fairm.

Stål 1863: 404

Cenaeus apicicornis Fairm.

Stål 1866: 9

Cenaeus apicicornis Fairm.

Stål 1870: 113

Pyrrhocoris apicicornis Fairm.

Walker 1872: 170

Cenaeus apicicornis (Fairm.)

Karsch 1894: 106

Cenaeus apicicornis Fairmaire

Lethierry and Severin 1894: 248

Cenaeus apicicornis Fairm.

Haglund 1895: 465

Cenaeus apicicornis (Fairmaire)

Hussey 1929: 65

Cenaeus apicicornis Fairm.

Blöte 1931: 115

Cenaeus apicicornis Fairmaire

Schmidt 1932: 255

Sericocoris (Pseudocenaeus) apicicornis (Fairmaire)

Stehlik 1965a: 225

Cenaeus apicicornis (Fairmaire)

Villiers 1967: 373

Specimens in the NMK collection extend the range of the species to DRC and Uganda, but maintain its West African affinities.

Sericocoris (Pseudocenaeus) obuduanus Linnavuori 1988

Type depository: in collection, of R. Linnavuori, Raisio, Finland

Country of origin of type: Nigeria

Distribution: Nigeria

Measurements: length of male 14.5 mm, female 15.5-16.5 mm (ex. Lit.)

Sericocoris (Pseudocenaeus) obuduanus Linnavuori 1988

Linnavuori 1988: 14

illustration

MYRMOPLASTA Gerstäcker 1892

The species in this genus are ant-like. In this they differ from all the other genera of the Ethiopian Pyrrhocoroidea. All the species have a short rounded abdomen, which is strongly rounded below and with the upper surface rounded to some extent, with the thorax extended and restricted giving the appearance of a petiole. The genus is restricted to Eastern Africa, the most westerly record being in Democratic Republic of Congo.

Type species: *Myrmoplasta mira* Gerstäcker 1892

Country of origin of type species: Tanzania

Type depository: not known

Illustrations: see *Myrmoplasta mira* Gerstäcker 1892, *Myrmoplasta potteri* Martin 1900

Myrmoplasta Gerstäcker 1892

Gerstäcker 1892: 51

description

Myrmoplasta Gerstäcker

Lethierry and Severin 1894: 242, 250

Myrmoplasta Gerstäcker

Martin 1900: 20

Myrmoplasta Gerstäcker

Hussey 1929: 70

Myrmoplasta Gerstäcker

Schmidt 1932: 257

Myrmoplasta mira Gerstäcker 1892

Type depository: not known

Country of origin of type: Tanzania

Distribution: Democratic Republic of Congo; Ethiopia; Tanzania

Measurements: average length, male 7.5 mm (1), female 10.3 mm (3)

Myrmoplasta mira Gerstäcker 1892

Gerstäcker 1892: 51

description, illustration

Myrmoplasta mira Gerstäcker

Lethierry and Severin 1894: 242, 250

Myrmoplasta mira Gerstäcker

Hussey 1929: 70

Myrmoplasta mira Gerstäcker

Schmidt 1932: 257

Myrmoplasta mira Gerst.

Schouteden 1957: 266

Myrmoplasta potteri Martin 1900

Type depository: not known

Country of origin of type: Ethiopia

Distribution: Democratic Republic of Congo; Ethiopia; Kenya; Rwanda; Tanzania; Uganda

Measurements: average length, male 6.2 mm (6), female 7.8 mm (16)

Myrmoplasta potteri Martin 1900

Martin 1900: 20

description

Myrmoplasta potteri Mart.

Distant 1909: 79

Myrmoplasta potteri Mart.

Bergroth 1913: 167

Myrmoplasta potteri Martin

Courteaux 1922: 285

description, illustration

Myrmoplasta potteri Martin

Hussey 1929: 70

Myrmoplasta potteri Mart.

Blöte 1931: 115

Myrmoplasta potteri Martin

Izzard 1950: 192

description, illustration

Myrmoplasta potteri Martin

Schouteden 1957: 266

Myrmoplasta potteri Mart.

Linnavuori 1978: 8

This species exhibits sexual dimorphism, the abdomen of the male being mostly black, while that of the female is striped black and yellow. The species is probably synonymous with *M. vittiventris* (see below). It is also recorded that the species may be brachypterous, the most common condition, or macropterous.

Myrmoplasta vittiventris Carlini 1894

Type depository: Genoa Museum
Country of origin of type: Uganda
Distribution: Uganda
Measurements: length 8 mm, width 3.5 mm (female) (ex. Lit.)

<i>Myrmoplasta vittiventris</i> Carlini 1894	Carlini 1894: 471	description
<i>Myrmoplasta vittiventris</i> Carl.	Bergroth 1913a: 167	
<i>Myrmoplasta vittiventris</i> Carlini	Hussey 1929: 70	

Carlini described the species from a single female specimen. Comparing the texts of Carlini (1894) and Martin (1900) indicates that *Myrmoplasta vittiventris* Carlini 1894 and *Myrmoplasta potteri* Martin 1900 are one species although this cannot be resolved without examination of the type specimens. This, if correct, would then give *Myrmoplasta vittiventris* Carlini 1894 the priority.

SIANGO Blöte 1933

Type species: *Siango variegata* Blöte 1933
Country of origin of type species: Uganda
Type depository: London, Natural History Museum
Illustrations: in *Siango variegata* Blöte 1933

<i>Siango</i> Blöte 1933	Blöte 1933b: 596
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The genus is confined to Eastern Africa.

Siango variegata Blöte 1933

Type depository: London, Natural History Museum
Country of origin of type: Uganda
Distribution: Democratic Republic of Congo; Kenya; Uganda
Measurements: average length, male 10.1 mm (2), female 10.5 mm (1)

<i>Siango variegata</i> Blöte 1933	Blöte 1933b: 597	description, illustration
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Siango blötei Schouteden 1933

Type depository: Tervuren, Musee Royal de l'Afrique Centrale
Country of origin of type: Democratic Republic of Congo
Distribution: Democratic Republic of Congo
Measurements: length of male 8 mm, length of female 10.5-11 mm (ex. Lit.)

<i>Siango blötei</i> Schouteden 1933	Schouteden 1933: 338	description
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GROMIERUS Villiers 1951

Type species: *Gromierus rufipes* Villiers 1951
Country of origin of type species: Cameroon
Type depository: Paris, Museum d'Histoire Naturelle
Illustrations: In *Gromierus rufipes* Villiers 1951

<i>Gromierus</i> Villiers 1951	Villiers 1951: 143	description
<i>Gromierus</i> Villiers	Stehlik 1979: 177	description, key

Gromierus rufipes Villiers 1951

Type depository: Paris, Museum d'Histoire Naturelle

Country of origin of type: Cameroon

Distribution: Cameroon; Democratic Republic of Congo; Rwanda

Measurements: length 15.5 mm. There are also detailed measurements in Stehlik 1979.

Gromierus ruficeps Villiers 1951

Villiers 1951: 144

description, illustration

Gromierus ruficeps Villiers

Schouteden 1957; 263

Gromierus ruficeps Villiers

Stehlik 1979: 186

description, illustration

Gromierus schmitzi Stehlik 1979

Type depository: Tervuren, Musee Royal de l'Afrique Centrale

Country of origin of type: Democratic Republic of Congo

Distribution: Democratic Republic of Congo

Illustrations: in Stehlik 1979

Measurements: Detailed measurements are given in Stehlik 1979.

Gromierus schmitzi Stehlik 1979

Stehlik 1979: 187

description, illustration

Gromierus fumatus Stehlik 1979

Type depository: London, Natural History Museum

Country of origin of type: Uganda (E. Ruwenzori)

Distribution: Uganda

Measurements: Detailed measurements are given in Stehlik 1979.

Gromierus schmitzi Stehlik 1979

Stehlik 1979: 190

description, illustration

Gromierus dollingi Stehlik 1979

Type depository: Tervuren, Musee Royal de l'Afrique Centrale

Country of origin of type: Democratic Republic of Congo

Distribution: Democratic Republic of Congo

Measurements: Detailed measurements are given in Stehlik 1979.

Gromierus dollingi Stehlik 1979

Stehlik 1979: 192

description, illustration

Gromierus minor Stehlik 1979

Type depository: Tervuren, Musee Royal de l'Afrique Centrale

Country of origin of type: Democratic Republic of Congo

Distribution: Democratic Republic of Congo

Measurements: Detailed measurements are given in Stehlik 1979.

Gromierus minor Stehlik 1979

Stehlik 1979: 194

description, illustration

SICNATUS Villiers and Dekeyser 1951

Type species: *Sicnatus leyei* Villiers and Dekeyser 1951

Country of origin of type species: Senegal

Type depository: Dakar, L'Institut Francais de l'Afrique Noire

Illustrations: see *Sicnatus leyei* Villiers and Dekeyser 1951

Sicnatus Villiers & Dekeyser 1951

Villiers and Dekeyser 1951: 19

description

Sicnatus Villiers & Dekeyser

Stehlik 1965a: 235

Sicnatus leyei Villiers and Dekeyser 1951

Type depository: Dakar, L'Institut Francais de l'Afrique Noire

Country of origin of type: Senegal

Distribution: Democratic Republic of Congo; Senegal

Measurements: length 8 mm (ex. Lit.)

Sicnatus leyei Villiers & Dekeyser 1951

Villiers and Dekeyser 1951: 19

description, illustration

Sicnatus leyei Villiers

Villiers 1953: 299

Sicnatus leyei Villiers & Dekeyser

Schouteden 1957: 264

Sicnatus leyei Villiers

Linnavuori 1988: 17

NEOINDRA Stehlik 1965

Type species: *Neoindra basilewskyi* Stehlik 1965

Country of origin of type species: Tanzania

Type depository: Tervuren, Musee Royal de l'Afrique Centrale

Illustrations: see *Neoindra basilewskyi* Stehlik 1965

Neoindra Stehlik 1965

Stehlik 1965a: 237

description

Neoindra basilewskyi Stehlik 1965

Type depository: Tervuren, Musee Royal de l'Afrique Centrale

Country of origin of type: Tanzania

Distribution: Tanzania

Measurements: Detailed measurements are given in Stehlik 1965.

Neoindra basilewskyi Stehlik 1965

Stehlik 1965a: 240

description, illustration

SCHMITZIANA Stehlik 1977

The genus has three species, all of which are very rare, and is distributed very widely. The type species, *Schmitziana pilosa* Stehlik 1977 comes from South Africa (Transvaal) and is only known in a brachypterous form. *Schmitziana polymorpha* Stehlik 1977 comes from Democratic Republic of Congo (Upemba N.P.) and is known in both brachypterous and macropterous forms. *Schmitziana grandis* (Stehlik 1965) comes from Tanzania (Usambara Mtns., Mombo). Only the holotype is known and it is macropterous.

Type species: *Schmitziana pilosa* Stehlik 1977

Country of origin of type species: South Africa (Transvaal)

Type depository: In the collection of J.A. Slater, Storrs, Connecticut, USA.

Schmitziana Stehlik 1977

Stehlik 1977: 133

description, illustration, key

Schmitziana pilosa Stehlik 1977

Type depository: In the collection of J.A. Slater, Storrs, Connecticut, USA.

Country of origin of type: South Africa (Transvaal)
Distribution: South Africa
Measurements: Detailed measurements are given in Stehlik 1977.

Schmitziana pilosa Stehlik 1977 Stehlik 1977: 137 **description, illustration**

***Schmitziana polymorpha* Stehlik 1977**

Type depository: Brussels, Institute royal des Sciences naturelles de Belgique
Country of origin of type: Democratic Republic of Congo
Distribution: Democratic Republic of Congo
Measurements: Detailed measurements are given in Stehlik 1977.

Schmitziana polymorpha Stehlik 1977 Stehlik 1977: 139 **description, illustration**

***Schmitziana grandis* (Stehlik 1965)**

Type depository: Tervuren, Musee Royal de l’Afrique Centrale
Country of origin of type: Tanzania
Distribution: Tanzania
Synonyms: *Sicnatus grandis* Stehlik 1965
Illustrations: In Stehlik 1965, Plate VIII; In Stehlik 1977
Measurements: Detailed measurements are given in Stehlik 1977

Sicnatus grandis Stehlik 1965 Stehlik 1965a: 236 **description, illustration**

Schmitziana grandis (Stehlik) Stehlik 1977: 141 **description, illustration**

***NEODINDYMUS* Stehlik 1965**

Hussey in 1929 listed 47 species in the genus *Dindymus*. Only five of these came from the Ethiopian Region, the others being either Asian or Australasian. In 1965, Stehlik re-examined the genus and decided that the African species were not congeneric with the rest, and he created the new genus *Neodindymus* Stehlik 1965 to contain them. At present the genus is considered to contain thirteen species in the Ethiopian Region, eight of which have been recorded from Eastern Africa. The NMK collection contains at least one, and probably two, species that do not correspond to published descriptions.

Type species: *Neodindymus basilewskyi* (Schouteden 1957). Designated by Stehlik 1965
Country of origin of type species: Democratic Republic of Congo
Type depository: Tervuren, Musee Royal de l’Afrique Centrale
Synonyms: *Dindymus* Stål 1861
Illustration: many illustrations, see under individual species

<i>Dindymus</i> Stål 1861	Stål 1861: 196	description (syn. Stehlik 1965)
<i>Dindymus</i> Stål	Stål 1870: 103	description
<i>Dindymus</i> Stål	Lethierry and Severin: 246	
<i>Dindymus</i> Stål	Bredden 1901: 175	
<i>Dindymus</i> Stål	Distant 1903: 110	
<i>Dindymus</i> Stål	Distant 1914b: 342	
<i>Dindymus</i> Stål	Taeuber 1927: 185	
<i>Dindymus</i> Stål	Hussey 1929: 56	
<i>Dindymus</i> Stål	Freeman 1947: 383	description
<i>Neodindymus</i> Stehlik 1965	Stehlik 1965a: 225	description

***Neodindymus acutus* Stehlik 1965**

Neodindymus brunneus Stehlik 1965 Stehlik 1965a: 232 **description, illustration**

Neodindymus flavipes (Signoret 1858)

Type depository: Vienna, Naturhistorische Museum
Country of origin of type: Gabon
Distribution: Congo (Brazzaville); Gabon; Guinea; Ivory Coast; Nigeria
Synonyms: *Dysdercus nigrotarsus* Signoret 1858
Measurements: length 7-12 mm, width 4-4.5 mm (ex. Lit.)

<i>Dysdercus flavipes</i> Signoret 1858	Signoret 1858: 308	description
<i>Dysdercus nigrotarsus</i> Signoret 1858	Signoret 1858: 308	(syn. Stål 1863)
<i>Dysdercus flavipes</i> Sign.	Stål 1863: 403	description
<i>Odontopus flavipes</i> Sign.	Stål 1866: 7	description
<i>Dindymus flavipes</i> Sign.	Stål 1870: 113	
<i>Odontopus flavipes</i> Sign.	Walker 1872: 175	
<i>Dindymus flavipes</i> Sign.	Signoret 1886: 27	
<i>Dindymus flavipes</i> Signoret	Lethierry and Severin 1894: 247	
<i>Sericocoris flavipes</i> (Sign.)	Distant 1919: 220	
<i>Dindymus flavipes</i> (Signoret)	Hussey 1929: 59	
<i>Dindymus flavipes</i> Sign.	Sauvaut 1949: 154	description, illustration
<i>Dindymus flavipes</i> Signoret	Villiers 1953: 298	
<i>Neodindymus flavipes</i> (Signoret)	Stehlik 1965a: 227	illustration
<i>Neodindymus flavipes</i> (Signoret)	Villiers 1967: 373	
<i>Neodindymus flavipes</i> (Signoret)	Linnavuori 1988: 15	

Neodindymus leleupi Stehlik 1965

Type depository: Tervuren, Musee Royal de l’Afrique Centrale
Country of origin of type: Tanzania
Distribution: Tanzania
Measurements: Detailed measurements are given in Stehlik 1965.

There are four specimens in the NMK collection, all from the Usambara mountains in Tanzania. The type locality is in the Uluguru Mountains, about 200 km to the south.

Neodindymus leleupi Stehlik 1965 Stehlik 1965a: 230 **description, illustration**

Neodindymus migratorius (Distant 1903)

Type depository: London, Natural History Museum
Country of origin of type: Malawi
Distribution: Benin; Congo (Brazzaville); Guinea; Ivory Coast; Kenya; Malawi; Tanzania; Uganda
Synonyms: *Cenaeus argillosus* Bergroth 1912
Measurements: average length, male 10.8 mm (5), female 11.3 mm (17)

<i>Dysdercus migratorius</i> Distant 1903	Distant 1903: 120	description
<i>Dysdercus migratorius</i> Dist.	Schouteden 1912: 304	description
<i>Cenaeus argillosus</i> Bergroth 1912	Bergroth 1912a: 315	description (syn stehlik 1965)
<i>Cenaeus argillosus</i> Bergr.	Bergroth 1913a: 171	
<i>Dysdercus migratorius</i> Dist.	Bergroth 1913a: 173	
<i>Cenaeus argillosus</i> Bergroth	Hussey 1929: 66	

<i>Dysdercus migratorius</i> Distant	Hussey 1929: 95	
<i>Neodindymus migratorius</i> (Distant)	Stehlik 1965a: 228	description, illustration
<i>Neodindymus migratorius</i> (Distant)	Villiers 1967: 372	
<i>Neodindymus migratorius</i> (Distant)	Linnavuori 1988: 15	

Neodindymus relatus (Distant 1902)

Type depository: London, Natural History Museum
Country of origin of type: Tanzania
Distribution: Tanzania
Measurements: length 12 mm (ex. Lit.)

<i>Dindymus relatus</i> Distant 1902	Distant 1902b: 40	description
<i>Dindymus relatus</i> Dist.	Bergroth 1913a: 171	
<i>Dindymus relatus</i> Distant	Hussey 1929: 61	
<i>Neodindymus relatus</i> Distant	Stehlik 1965a: 228	

Neodindymus schoutedeni Stehlik 1965

Type depository: Tervuren, Musee Royal de l’Afrique Centrale
Country of origin of type: Kenya
Distribution: Kenya
Measurements: Detailed measurements and also a comparison of the measurements of several related species are given in Stehlik 1965.

<i>Neodindymus schoutedeni</i> Stehlik 1965	Stehlik 1965a: 233	description, illustration
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Neodindymus sjostedti (Schouteden 1910)

Type depository: Stockholm, Naturhistoriska Riksmuseum
Country of origin of type: Tanzania
Distribution: Kenya; Rwanda; Tanzania
Measurements: average length of male 10.8 mm (2), of female 13.4 mm (3)

<i>Cenaeus sjostedti</i> Schouteden 1910	Schouteden 1910: 152	description
<i>Cenaeus sjostedti</i> Schout.	Bergroth 1913a: 171	
<i>Cenaeus sjostedti</i> Schouteden	Hussey 1929: 68	
<i>Cenaeus sjostedti</i> Schouteden	Schouteden 1957: 265	
<i>Neodindymus sjostedti</i> (Schouteden)	Stehlik 1965a: 228	illustration

Neodindymus tenebrosus (Blöte 1933)

Type depository: London, Natural History Museum
Country of origin of type: Tanzania
Distribution: Tanzania
Measurements: length of male 12.5 mm (ex. lit.)

<i>Dindymus tenebrosus</i> Blöte 1933	Blöte 1933b: 593	
<i>Dindymus tenebrosus</i> (Blöte)	Stehlik 1965a: 228	

Neodindymus elegans Linnavuori 1988

Type depository: In the collection of R.E. Linnavuori, Raisio, Finland
Country of origin of type: Nigeria

Distribution: Nigeria

Illustrations: in Linnavuori 1988

Measurements: length 14.5 mm (ex. Lit.)

Neodindymus elegans Linnavuori 1988

Linnavuori 1988: 15

CENAEUS Stål 186

Type species: *Cenaeus carnifex* (Fabricius 1775). Designated as lagotype by Hussey 1929

Country of origin of type species: South Africa

Type depository: not known

Synonyms: *Obstetrixella* Schmidt 1932

Illustrations: see *Cenaeus abortivus* Gerstäcker 1873; *Cenaeus basilewskyi* Stehlik 1965; *Cenaeus carnifex* (Fabricius 1775); *Cenaeus semiflavus* Distant 1902

Cenaeus Stål 1861

Stål 1861: 196

description

Cenaeus Stål

Stål 1866: 3

description

Cenaeus Stål

Stål 1870: 102

Cenaeus Stål

Walker 1872: 164

Cenaeus Stål

Lethierry and Severin 1894: 248

Cenaeus Stål

Hussey 1929: 65

Cenaeus Stål

Schmidt 1932: 254

Obstetrixella Schmidt 1932

Schmidt 1932: 256

(syn. Stehlik 1965)

Cenaeus Stål

Stehlik 1965a: 216.

description

Cenaeus abortivus Gerstäcker 1873.

Type depository: not known

Country of origin of type: Kenya

Distribution: Ethiopia; Kenya; Rwanda; Tanzania

Synonyms: *Obstetrixella abortiva* Schmidt 1932

Measurements: average length, male 7.8 mm (4), female 8.8 mm (12)

Cenaeus abortivus Gerstäcker 1873

Gerstäcker 1873: 413

description, illustration

Cenaeus abortivus Gerstäcker

Lethierry and Severin 1894: 248

Cenaeus abortivus Gerstaecker

Schouteden 1910: 152

Cenaeus abortivus Gerstäcker

Hussey 1929: 65

Cenaeus abortivus Gerstäcker

Schmidt 1932: 255

description

Obstetrixella abortivus Gerstäcker

Schouteden 1957: 266

Cenaeus abortivus Gerst.

Mancini 1961: 31

Cenaeus abortivus Gerstäcker

Stehlik 1965a: 218

Cenaeus annulifer Bergroth 1912

Type depository: not known

Country of origin of type: Guinea

Distribution: Congo(Brazzaville); Guinea; Ivory Coast

Measurements: length 12 mm (female). (ex. Lit.)

Cenaeus annulifer Bergroth 1912

Bergroth 1912a: 314

description

Cenaeus annulifer Bergroth

Bergroth 1913a: 171

Cenaeus annulifer Bergroth

Hussey 1929: 65

Cenaeus annulifer Bergroth

Stehlik 1965a: 225

Cenaeus annulifer Bergroth

Villiers 1967: 373

***Cenaeus basilewskyi* Stehlik 1965**

Type depository: Tervuren, Musee Royal de l’Afrique Centrale
 Country of origin of type: Tanzania
 Distribution: Sudan; Tanzania
 Measurements: Detailed measurements are given in Stehlik 1965.

<i>Cenaeus basilewskyi</i> Stehlik 1965	Stehlik 1965a: 218	description, illustration
<i>Cenaeus basilewskyi</i> Stlk.	Linnavuori 1978: 8	

***Cenaeus bifasciatus* Haglund 1895**

Type depository: Stockholm, Naturhistoriska Riksmuseum
 Country of origin of type: Cameroon
 Distribution: Cameroon; Congo (Brazzaville); Fernando Poo; Gabon
 Measurements : length 12 mm; width 4.5 mm. (Female). (ex. Lit.)

<i>Cenaeus bifasciatus</i> Haglund 1895	Haglund 1895: 465	description
<i>Cenaeus bifasciatus</i> Haglund	Bergroth 1913a: 171	
<i>Cenaeus bifasciatus</i> Haglund	Hussey 1929: 66	
<i>Cenaeus bifasciatus</i> Haglund	Schmidt 1932: 255	
<i>Cenaeus bifasciatus</i> Hagl.	Stehlik 1965a: 225	
<i>Cenaeus bifasciatus</i> Haglund	Villiers 1967: 373	

***Cenaeus carnifex* (Fabricius 1775)**

Type depository: not known
 Country of origin of type: South Africa
 Distribution: South Africa (other countries in the literature are stated by Hussey 1929 to be in error)
 Synonyms: *Cimex capensis-ruber* De Geer 1778, *Lygaeus immaculatus* Thunberg 1822, *Pyrrhocoris scutellaris* Hahn 1834, *Pyrrhocoris sanguineus* Fieber 1861
 Measurements : length 7.5-10 mm, width 4 mm (ex. lit.)

<i>Cimex carnifex</i> Fabricius 1775	Fabricius 1775: 721	description
<i>Cimex carnifex</i> Fabric.	Goeze 1778: 258	
<i>Cimex capensis ruber</i>	De Geer 1778: 619	description, illustration, (syn. Burmeister 1835)
<i>Cimex carnifex</i>	Fabricius 1781: 366	
<i>Cimex capensis ruber</i>	Retzius 1783: 85	
<i>Cimex carnifex</i>	Fabricius 1787: 301	
<i>Cimex carnifex</i>	Gmelin 1788: 2174	
<i>Cimex carnifex</i>	Fabricius 1794: 160	
<i>Lygaeus carnifex</i> Fabr.	Fabricius 1803: 226	description
<i>Lygaeus carnifex</i> Fabric.	Thunberg 1822: 1	(syn. Stål 1855)
<i>Lygaeus immaculatus</i> Thunberg 1822	Thunberg 1822: 1	description (syn. Blanchard 1840)
<i>Pyrrhocoris scutellaris</i> Hahn 1834	Hahn 1834: 118	
<i>Pyrrhocoris carnifex</i> Fabr.	Burmeister 1835: 286	
<i>Astemma carnifex</i> Blanchard 1840	Blanchard 1840: 129	description
<i>Dysdercus carnifex</i>	Herrich-Schaffer 1850: 177	
<i>Lygaeus immaculatus</i> Thunberg	Stål 1855: 347	
<i>Dysdercus carnifex</i> Fab.	Uhler 1861: 229	
<i>Pyrrhocoris sanguineus</i> Fieber 1861	Fieber 1861: 162	description (syn. Stål 1870)
<i>Pyrrhocoris carnifex</i> F.	Stål 1861: 196	
<i>Cenaeus carnifex</i> Fabr.	Stål 1866: 9	description
<i>Cenaeus carnifex</i> Fabr.	Stål 1866: 255	
<i>Cenaeus carnifex</i> Fabr.	Mayr 1868: 134	

<i>Cenaeus carnifex</i> Fabr.	Stål 1870: 114	
<i>Pyrrhocoris carnifex</i> Fabr.	Walker 1872: 168	
<i>Cenaeus carnifex</i> Fabricius	Lethierry and Severin 1894: 248	
<i>Cenaeus carnifex</i> Fabricius	Hussey 1929: 66	
<i>Cenaeus carnifex</i> F.	Blöte 1931: 115	
<i>Cenaeus carnifex</i> Fabricius	Schmidt 1932: 254	
<i>Cenaeus carnifex</i> (Fabricius)	Stehlik 1965a: 218	illustration

***Cenaeus dimidiaticeps* Bergroth 1894**

Type depository: not known.

Country of origin of type: Cameroon.

Distribution: Cameroon; Congo (Brazzaville); Democratic Republic of Congo; Gabon.

Measurements: length 12-12.3 mm. (ex. Lit.)

<i>Cenaeus dimidiaticeps</i> Bergroth 1894	Bergroth 1894b: 539	description
<i>Cenaeus dimidiaticeps</i> Bergroth	Bergroth 1913a: 171	
<i>Cenaeus dimidiaticeps</i> Bergroth	Hussey 1929: 66	
<i>Cenaeus dimidiaticeps</i> Bergroth	Schmidt 1932: 255	description
<i>Cenaeus dimidiaticeps</i> Bergroth	Stehlik 1965a: 225	
<i>Cenaeus dimidiaticeps</i> Bergroth	Villiers 1967: 373	

***Cenaeus longulus* Bergroth 1894**

Type depository: not known

Country of origin of type: Gabon

Distribution: Gabon

Measurements : length 14 mm (female) (ex. Lit).

<i>Cenaeus longulus</i> Bergroth 1894	Bergroth 1894b: 540	description
<i>Cenaeus longulus</i> Bergroth	Bergroth 1913a: 171	
<i>Cenaeus longulus</i> Bergroth	Hussey 1929: 67	
<i>Cenaeus longulus</i> Bergroth	Stehlik 1965a: 225	

***Cenaeus pectoralis* (Stål 1855)**

Type depository: not known.

Country of origin of type: Republic of South Africa

Distribution: Ethiopia; Mozambique; South Africa

Measurements: length, male 7.8 mm (1), female 8.7 mm (1)

<i>Pyrrhocoris pectoralis</i> Stål 1855	Stål 1855a: 36	description
<i>Cenaeus pectoralis</i> Stål	Stål 1861: 196	
<i>Cenaeus pectoralis</i> Stål	Stål 1866: 9	description
<i>Cenaeus pectoralis</i> Stål	Stål 1870: 114	
<i>Pyrrhocoris pectoralis</i> Stål	Walker 1872: 170	
<i>Cenaeus pectoralis</i> Stål	Lethierry and Severin 1894: 248	
<i>Cenaeus pectoralis</i> Stål	Montandon 1899: 218	
<i>Cenaeus pectoralis</i> Stål	Courteaux 1922: 285	
<i>Cenaeus pectoralis</i> (Stål)	Hussey 1929: 67	
<i>Cenaeus pectoralis</i> Stål	Schmidt 1932: 255	
<i>Cenaeus pectoralis</i> (Stål)	Stehlik 1965a: 218	

Cenaeus semiflavus Distant 1902

Type depository: London, Natural History Museum
 Country of origin of type: Uganda
 Distribution: Democratic Republic of Congo; Rwanda; Uganda
 Measurements: average length male 7.2 mm (2), female 9.3 mm (3)

<i>Cenaeus semiflavus</i> Distant 1902	Distant 1902b: 41	description, illustration
<i>Cenaeus semiflavus</i> Dist.	Distant 1909: 79	
<i>Cenaeus semiflavus</i> Dist.	Bergroth 1913a: 171	
<i>Cenaeus semiflavus</i> Distant	Hussey 1929: 67	
<i>Cenaeus semiflavus</i> Distant	Schouteden 1957: 264	
<i>Cenaeus semiflavus</i> Distant	Stehlik 1965a: 218	

Cenaeus suspectus Schouteden 1957

Type depository: Tervuren, Musee Royal de l’Afrique Centrale
 Country of origin of type: Democratic Republic of Congo
 Distribution: Democratic Republic of Congo
 Measurements : length 11.5-12.5 mm. (ex. Lit.)

<i>Cenaeus suspectus</i> Schouteden 1957	Schouteden 1957: 265	description
<i>Cenaeus suspectus</i> Schout.	Stehlik 1965a: 225	

DERMATINUS Stål 1853

Hussey (1929) listed ten species in the genus *Dermatinus* Stål 1853, two from India and the rest from the Ethiopian Region. However, when Stehlik (1965) re-examined specimens he came to the conclusion that many of the species were not congeneric with *Dermatinus* Stål 1853. He indicated that further revision was needed and that “with certainty” he only accepted *Dermatinus limbifer* Stål 1855 and *Dermatinus lugens* Stål 1854 as correctly placed in the genus *Dermatinus*. Since then *Dermatinus apicalis* Reuter 1881 has been transferred to *Aderrhis* by Linnavuori (1988). As matters stand at present, pending further revision, there are four species of the genus *Dermatinus* in the Ethiopian Region.

Type species: *Dermatinus lugens* (Fabricius). Quoted as a monotype by Hussey 1929, because when Stål named the genus in 1853 he did not name a type species. The type species was then named in the 1854 paper.

Country of origin of type species: South Africa.

Type depository: not known

<i>Dermatinus</i> Stål 1853	Stål 1853: 260	description
<i>Dermatinus</i> Stål	Stål 1854: 236	
<i>Dermatinus</i> Stål	Stål 1855a: 36	
<i>Dermatinus</i> Stål	Stål 1861: 196	description
<i>Dermatinus</i> Stål	Stål 1866: 4	description
<i>Dermatinus</i> Stål	Stål 1870: 102	
<i>Pyrrhocoris</i> Fall.	Walker 1872: 167	
<i>Dermatinus</i> Stål	Lethierry and Severin 1894: 249	
<i>Dermatinus</i> Stål	Distant 1903: 115	description
<i>Dermatinus</i> Stål	Hesse 1925: 86	
<i>Dermatinus</i> Stål	Hussey 1929: 68	
<i>Dermatinus</i> Stål	Schmidt 1932: 256	

Dermatinus aethiopicus Lethierry 1883

Type depository: not known
Country of origin of type: Ethiopia
Distribution: Ethiopia
Measurements : length 8 mm (ex. Lit.)

<i>Dermatinus aethiopicus</i> Lethierry 1883	Lethierry 1883: 749	description
<i>Dermatinus aethiopicus</i> Lethierry	Lethierry and Severin 1894: 249	
<i>Dermatinus aethiopicus</i> Lethierry	Hussey 1929: 68	
<i>Dermatinus aethiopicus</i> Leth.	Mancini 1961: 31	

From the description of *Dermatinus aethiopicus* given by Lethierry 1883, it may well be conspecific with *Dermatinus limbifer*

Dermatinus limbifer Stål 1855

Type depository: not known
Country of origin of type: South Africa (Natal)
Distribution: Democratic Republic of Congo; Mozambique; Namibia; South Africa.
Measurements: average length, male 7.0 mm (1), female 8.2 mm (2)

<i>Dermatinus limbifer</i> Stål 1855	Stål 1855a: 36	description
<i>Dermatinus limbifer</i> Stål	Stål 1866: 12	description
<i>Dermatinus limbifer</i> Stål	Stål 1870: 114	
<i>Pyrrhocoris limbifer</i> Stål	Walker 1872: 170	
<i>Dermatinus limbifer</i> Stål	Wallengren 1875: 134	
<i>Dermatinus limbifer</i> Stål	Lethierry and Severin 1894: 249	
<i>Dermatinus limbifer</i> Stål	Montandon 1899: 218	
<i>Dermatinus limbifer</i> Stål	Distant 1903: 115	
<i>Dermatinus limbifer</i> Stål	Hesse 1925: 86	
<i>Dermatinus limbifer</i> Stål	Hussey 1929: 68	
<i>Dermatinus limbifer</i> Stål	Schmidt 1932: 256	
<i>Dermatinus limbifer</i> Stål	Schouteden 1957: 266	

Dermatinus lugens Stål 1854

Type depository: not known
Country of origin of type: South Africa
Distribution: South Africa
Measurements : length 6-7 mm, width 2.5-3.5 mm (ex. Lit.)

<i>Dermatinus lugens</i> Stål 1854	Stål 1854: 236	description
<i>Pyrrhocoris lugens</i> Stål	Stål 1860: 253	description
<i>Dermatinus lugens</i> Stål	Stål 1866: 12	description
<i>Dermatinus lugens</i> Stål	Stål 1870: 114	
<i>Pyrrhocoris lugens</i> Stål	Walker 1872: 170	
<i>Dermatinus lugens</i> Stål	Lethierry and Severin 1894: 249	
<i>Dermatinus lugens</i> Stål	Hussey 1929: 69	

Dermatinus notatus Wallengren 1875

Type depository: University of Lund, Zoological Institute
Country of origin of type: South Africa
Distribution: South Africa
Measurements : length 6-8 mm (ex. Lit.)

<i>Dermatinus notatus</i> Wallengren 1875	Wallengren 1875: 134	description
<i>Dermatinus notatus</i> Wallengren	Lethierry and Severin 1894: 249	
<i>Dermatinus notatus</i> Wallengren	Hussey 1929: 69	
<i>Aderrhis notata</i> (Wallengren)	Stehlik 1966a: 325	

Stehlik 1965, without pursuing the matter, indicated that he considered *Dermatinus notatus* Wallengren 1875 to belong to *Aderrhis*.

ADERRHIS Bergroth 1906

Type species: *Aderrhis pulla* Bergroth 1906

Country of origin of type species: Zanzibar

Type depository: not known

Illustrations: see *Aderrhis flavipes* Stehlik 1966, *Aderrhis hirsuta* Stehlik 1966, *Aderrhis minuta* Stehlik 1966, *Aderrhis pulla* Bergroth 1906, *Aderrhis schultzi* (Schouteden 1910), *Aderrhis thoracica* Stehlik 1965, *Aderrhis apicalis* (Reuter 1881)

<i>Adherris</i> Bergroth 1906	Bergroth 1906: 199	description
<i>Aderrhis</i> Bergroth	Bergroth 1906: 251	
<i>Aderrhis</i> Bergroth	Bergroth 1913a: 171	
<i>Aderrhis</i> Bergroth	Hesse 1925: 87	
<i>Aderrhis</i> Bergroth	Hussey 1929: 69	
<i>Aderrhis</i> Bergroth	Schmidt 1932: 257	
<i>Aderrhis</i> Bergroth	Stehlik 1965a: 241	description
<i>Aderrhis</i> Bergroth	Stehlik 1966a: 321	description

Aderrhis africana (Courteaux 1907)

Type depository: Paris, Museum de Histoire Naturelle

Country of origin of type: Ethiopia

Distribution: Ethiopia; Kenya; Uganda

Measurements: average length male 5.9 mm (3), female 8.1 mm (3)

<i>Dermatinus aethiopicus</i> Courteaux 1907	Courteaux 1907: 330	description
<i>Dermatinus africanus</i> Courteaux 1908	Courteaux 1908: 192	
<i>Aderrhis aethiopica</i> Court.	Bergroth 1912a: 316	
<i>Aderrhis aethiopica</i> Court.	Bergroth 1913a: 171	
<i>Dermatinus africanus</i> Courteaux	Courteaux 1922: 385	description
<i>Aderrhis africana</i> Courteaux	Hussey 1929: 69	

Aderrhis apicalis (Reuter 1882)

Type depository: not known.

Country of origin of type: Ghana

Distribution: Ghana

Measurements: length 7.5 mm. (male) (ex. Lit.)

<i>Dermatinus apicalis</i> Reuter 1882	Reuter 1882: 28	description
<i>Dermatinus apicalis</i> Reuter	Lethierry and Severin 1894: 249	
<i>Dermatinus apicalis</i> Reuter	Hussey 1929: 68	
<i>Aderrhis apicalis</i> Reuter	Stehlik 1966a: 327	
<i>Aderrhis apicalis</i> Reuter	Linnavuori 1988: 16	

Aderrhis flavipes Stehlik 1966

Type depository: Brno, Department of Entomology, Moravian Museum

Country of origin of type: Uganda

Distribution: Uganda

Measurements : Detailed measurements are given in Stehlik 1966.

Aderrhis flavipes Stehlik 1966

Stehlik 1966a: 321

description, illustration

Aderrhis flavipes Stlk.

Linnavuori 1978: 8

Aderrhis flavipes Stehlik

Linnavuori 1988: 16

illustration

Aderrhis hirsuta Stehlik 1966

Type depository: Tervuren, Musee Royal de l’Afrique Centrale

Country of origin of type: Senegal

Distribution: Senegal

Measurements: Detailed measurements are given in Stehlik 1966.

Aderrhis hirsuta Stehlik 1966

Stehlik 1966a: 325

description, illustration

Aderrhis minuta Stehlik 1966

Type depository: Brno, Department of Entomology, Moravian Museum

Country of origin of type: South Africa.

Distribution: South Africa.

Measurements : Detailed measurements are given in Stehlik 1966.

Aderrhis minuta Stehlik 1966

Stehlik 1966a: 323

description, illustration

Aderrhis pulla Bergroth 1906

Type depository: not known

Country of origin of type: Zanzibar (Pemba Is.)

Distribution: Namibia; South Africa; Zanzibar.

Measurements: length 5-5.5 mm (male) (ex. Lit.)

Aderrhis pulla Bergroth 1906

Bergroth 1906: 200

description, illustration

Aderrhis pulla Bergroth

Bergroth 1913a: 171

Aderrhis pulla Bergr.

Hesse 1925: 87

Aderrhis pulla Bergroth

Hussey 1929: 70

illustration

Aderrhis schulzi (Schouteden 1910)

Type depository: Tervuren, Musee Royal de l’Afrique Centrale

Country of origin of type: Tanzania

Distribution: Tanzania; Kenya.

Synonyms: *Dermatinus distinctus* Schouteden 1910.

Measurements: Detailed measurements are given in Stehlik 1965.

Dermatinus schulzi Schouteden 1910

Schouteden 1910: 153

description

Dermatinus distinctus Schouteden 1910

Schouteden 1910: 153

(syn. Stehlik 1965)

Dermatinus distinctus Schout.

Bergroth 1913a: 171

Dermatinus schulzi Schout.

Bergroth 1913a: 171

Dermatinus distinctus Schouteden

Hussey 1929: 68

Dermatinus schulzi Schouteden

Hussey 1929: 69

Aderrhis schulzi (Schouteden)

Stehlik 1965a: 241

description, illustration

Aderrhis tartarea (Stål 1855)

Type depository: Stockholm, Naturhistoriska Riksmuseum

Country of origin of type: South Africa (Natal)

Distribution: Democratic Republic of Congo; Ethiopia; Namibia; South Africa; Tanzania

Synonyms: *Pyrrhocoris truncatipennis* Fallou 1891

Measurements: length 7-8 mm, width 3 mm (male) (ex. Lit.)

<i>Dermatinus tartarea</i> Stål 1855	Stål 1855a: 36	description
<i>Dermatinus tartareus</i> Stål	Stål 1866: 12	
<i>Dermatinus tartareus</i> Stål	Stål 1870: 114	
<i>Pyrrhocoris tartareus</i> Stål	Walker 1872: 170	
<i>Pyrrhocoris truncatipennis</i> Fallou 1891	Fallou 1891: 8	description (syn. Bergroth 1892)
<i>Dermatinus tartareus</i> Stål	Bergroth 1892: 262	
<i>Dermatinus tartareus</i> Stål	Lethierry and Severin 1894: 249	
<i>Dermatinus tartareus</i> Stål	Courteaux 1922: 285	
<i>Dermatinus tartareus</i> Stål	Hesse 1925: 86	description, illustration
<i>Dermatinus tartareus</i> Stål	Hussey 1929: 69	
<i>Dermatinus tartareus</i> Stål	Schmidt 1932: 256	
<i>Dermatinus tartareus</i> Stål	Schouteden 1957: 266	
<i>Aderrhis tartareus</i> (Stål)	Stehlik 1965a: 245	description

Aderrhis thoracica Stehlik 1965

Type depository: Tervuren, Musee Royal de l'Afrique Centrale

Country of origin of type: Tanzania

Distribution: Kenya; Tanzania

Synonyms: *Dermatinus tartareus* Schouteden 1910

Measurements: Detailed measurements are given in Stehlik 1965

<i>Dermatinus tartareus</i> Stål 1855	Schouteden 1910: 153 (syn. Stehlik 1965)	
<i>Dermatinus tartareus</i> Schouteden	Hussey 1929: 69	
<i>Aderrhis thoracica</i> Stehlik 1965	Stehlik 1965a: 243	description, illustration

SCANTIUS Stål 1866

Hussey (1929) listed thirteen species in this genus, six from Asia, one from Madagascar, one from North Africa, and six from the Ethiopian Region. Stehlik (1965) examined many specimens from different sources and synonymised *Scantius abyssinicus* Bolivar 1879 with *Scantius forsteri* (Fabricius 1781). He also gave strong reasons for synonymising *Scantius volucris* (Gerstäcker 1873) with *Scantius forsteri* (Fabricius 1781) but it has been retained as a separate species in this paper. Here, therefore, pending further revision, five species of the genus *Scantius* are recognised in the Ethiopian Region.

The members of the genus cover almost the whole of the Ethiopian Region and *Scantius forsteri* spreads into North Africa the Middle East. There are considerable differences in morphology and color over the whole range, and this is discussed in some detail by Stehlik (1965) in respect to *Scantius forsteri*.

Type species: *Scantius forsteri* (Fabricius 1781). Quoted as a Lagotype by Hussey 1929.

Country of origin of type species: South Africa.

Type depository: not known.

Illustrations: see *Scantius caraboides* Bergroth 1920, *Scantius forsteri* (Fabricius 1781), *Scantius volucris* (Gerstäcker 1873).

<i>Scantius</i> Stål 1866	Stål 1866: 3	description
<i>Scantius</i> Stål	Stål 1870: 102	description
<i>Pyrrhocoris</i> Fall.	Walker 1872: 167	
<i>Scantius</i> Stål	Reuter 1885: 230	description
<i>Scantius</i> Stål	Lethierry and Severin 1894: 251	

<i>Scantius</i> Stål	Distant 1903: 117	description
<i>Scantius</i> Stål	Hesse 1925: 87	
<i>Scantius</i> Stål	Hussey 1929: 80	
<i>Scantius</i> Stål	Schmidt 1932: 259	
<i>Scantius</i> Stål	Stehlik 1965a: 246	

Scantius aethiopicus (Distant 1919)

Type depository: London, Natural History Museum
Country of origin of type: Cameroon
Distribution: Cameroon; Gambia
Measurements: length 7 - 8 mm (ex. Lit.)

<i>Delacampius aethiopicus</i> Distant 1919	Distant 1919: 220	description
<i>Scantius aethiopicus</i> Dist.	Blöte 1931: 116	

Scantius caraboides Bergroth 1920

Type depository: Stockholm, Naturhistoriska Riksmuseum.
Country of origin of type: Kenya.
Distribution: Ethiopia; Kenya; Tanzania.
Measurements: average length male 7.3 mm (4)

<i>Scantius caraboides</i> Bergroth 1920	Bergroth 1920: 3	description
<i>Scantius caraboides</i> Bergroth	Hussey 1929: 82	
<i>Scantius caraboides</i> Bergr.	Mancini 1954: 166	
<i>Scantius caraboides</i> Bergroth	Stehlik 1965a: 248	description, illustration
<i>Scantius caraboides</i> Bergroth	Linnavuori 1982: 14	

Scantius circumcinctus (Lethierry 1883)

Type depository: not known
Country of origin of type: Ethiopia
Distribution: Congo (Brazzaville); Ethiopia; Zambia
Synonyms: *Delacampius rhodesianus* Distant 1919
Measurements: average length, male 8.2 mm (4), female 7.5 mm (4)

<i>Pyrrhocoris circumcinctus</i> Lethierry 1883	Lethierry 1883: 747	description
<i>Scantius circumcinctus</i> Lethierry	Lethierry and Severin 1894: 251	
<i>Scantius circumcinctus</i> Leth.	Bergroth 1906: 371	description
<i>Delacampius rhodesianus</i> Distant 1919	Distant 1919: 220	description (syn. Blöte 1931)
<i>Scantius circumcinctus</i> (Lethierry)	Hussey 1929: 82	
<i>Scantius rhodesianus</i> (Distant)	Blöte 1931: 117	
<i>Scantius circumcinctus</i> Leth.	Blöte 1933b: 599	description
<i>Sicnatus circumcinctus</i> (Lethierry)	Linnavuori 1988: 17	

Scantius forsteri (Fabricius 1781)

Type depository: not known
Country of origin of type: South Africa
Distribution: Angola; Congo (Brazzaville); Democratic Republic of Congo; Eritrea; Ethiopia; Kenya; Mali; Mozambique; Namibia; Senegal; Sierra Leone; Somalia; South Africa; Tanzania; Zanzibar
Synonyms: *Cimex clavimanus* Fabricius 1781, *Cimex deustus* Thunberg 1784, *Dermatinus centralis* Signoret 1861, *Scantius abyssinicus*

Bolivar 1879

Measurements: average length, male 7.7 mm (25), female 7.9 mm (25)

<i>Cimex forsteri</i> Fabricius 1781	Fabricius 1781: 368	description
<i>Cimex clavimanus</i> Fabricius 1781	Fabricius 1781: 368	(syn. Stål 1862)
<i>Cimex deustus</i> Thunberg 1784	Thunberg 1784: 58	description (syn. Stål 1855)
<i>Cimex forsteri</i> Fabricius	Fabricius 1787: 302	
<i>Cimex clavimanus</i> Fabricius	Fabricius 1787: 302	
<i>Cimex deustus</i> Thunb.	Gmelin 1788: 2168	
<i>Cimex forsteri</i> Fabr.	Gmelin 1788: 2177	
<i>Lygaeus forsteri</i> Fabr.	Fabricius 1794: 164	
<i>Lygaeus clavimanus</i> Fabr.	Fabricius 1794: 165	
<i>Lygaeus forsteri</i> Fabricius	Fabricius 1803: 230	
<i>Lygaeus clavimanus</i> Fabricius	Fabricius 1803: 231	
<i>Lygaeus deustus</i> Thunberg	Thunberg 1822: 3	
<i>Lygaeus forsteri</i> Fabr.	Burmeister 1835: 286	
<i>Pyrrhocoris clavimanus</i> Fabricius	Herrich-Schaffer 1847: 102	description
<i>Pyrrhocoris forsteri</i> Fabricius	Herrich-Schaffer 1847: 102	
<i>Scantius forsteri</i> Fabr.	Stål 1855b: 346	
<i>Pyrrhocoris forsteri</i> Fab.	Uhler 1861: 229	
<i>Dermatinus centralis</i> Signoret 1861	Signoret 1861: 952	description (syn. Stål 1866)
<i>Lygaeus forsteri</i> Fab.	Stål 1862: 500	
<i>Pyrrhocoris forsteri</i> Herrich-Schaffer	Schaum 1862: 44	
<i>Scantius forsteri</i> Fabr.	Stål 1866: 10	description
<i>Pyrrhocoris deustus</i> Thunb.	Mayr 1868: 135	
<i>Scantius forsteri</i> Fabr.	Stål 1870: 117	
<i>Pyrrhocoris forsteri</i> Fabr.	Walker 1872: 169	
<i>Scantius abyssinicus</i> Bolivar 1879	Bolivar 1879: 142	description (syn. Stehlik 1965)
<i>Pyrrhocoris forsteri</i> Fab.	Puton 1881: 4	
<i>Scantius foersteri</i> Fabr.	Lethierry 1883: 747	
<i>Scantius forsteri</i> Fabr.	Reuter 1885: 231	
<i>Scantius forsteri</i> (Fabr.)	Reuter 1888: 216	
<i>Scantius forsteri</i> Fabr.	Bergroth 1893: 126	
<i>Scantius abyssinicus</i> Bolivar	Lethierry and Severin 1894: 251	
<i>Scantius forsteri</i> Fabricius	Lethierry and Severin 1894: 251	
<i>Scantius forsteri</i>	Montandon 1899: 219	
<i>Scantius abyssinicus</i> Bol.	Schouteden 1905a: 10	description
<i>Scantius forsteri</i> Fabr.	Distant 1910: 98	description
<i>Scantius abyssinicus</i> Bolivar	Schouteden 1910: 153	
<i>Scantius foersteri</i> Fabricius	Schouteden 1910: 153	
<i>Scantius forsteri</i> F.	Oshanin 1912: 26	
<i>Scantius forsteri</i> Fabr.	Bergroth 1914: 5	
<i>Scantius forsteri</i> Fabr.	Hesse 1925: 87	
<i>Scantius abyssinicus</i> Bolivar	Hussey 1929: 82	
<i>Scantius forsteri</i> (Fabricius)	Hussey 1929: 82	
<i>Scantius abyssinicus</i> Bol.	Blöte 1931: 116	
<i>Scantius forsteri</i> F.	Blöte 1931: 116	
<i>Scantius forsteri</i> Fabricius	Schmidt 1932: 259	
<i>Scantius abyssinicus</i> Bolivar	Schmidt 1932: 259	
<i>Scantius forsteri</i> Fabricius	Villiers 1950a: 323	
<i>Scantius forsteri</i> Fabricius	Villiers 1953: 299	
<i>Scantius forsteri</i> Fabricius	Schouteden 1957: 267	
<i>Scantius forsteri</i> F.	Mancini 1961: 31	
<i>Scantius forsteri</i> (Fabricius)	Stehlik 1965a: 246	description, illustration
<i>Scantius forsteri</i> Fabricius	Villiers 1967: 374	
<i>Scantius forsteri</i> (F.)	Linnavuori 1977: 61	
<i>Scantius forsteri</i> (F.)	Linnavuori 1978: 8	

Scantius forsteri (Fabricius 1781) Linnavuori 1982: 13
Scantius forsteri (Fabricius 1781) Linnavuori 1986: 109
Scantius forsteri (Fabricius) Linnavuori 1988: 17
Scantius volucris (Gerstäcker 1873)

Type depository: not known

Country of origin of type: Kenya

Distribution: Angola; Ethiopia; Kenya; Tanzania; Uganda; Zambia

Measurements: length 7 - 9 mm, width 3.75 (ex. Lit.)

<i>Pyrrhocoris volucris</i> Gerstäcker 1873	Gerstäcker 1873: 413	description
<i>Scantius volucris</i> Gerstäcker	Lethierry and Severin 1894: 251	
<i>Scantius volucris</i> Gerst.	Distant 1901: 590	
<i>Scantius volucris</i> Gerstäcker	Distant 1903: 117	description, illustration
<i>Scantius volucris</i> Gerst.	Lefroy 1909: 326	
<i>Scantius volucris</i> Gerst.	Distant 1910: 98	
<i>Scantius volucris</i> Gerstäcker	Hussey 1929: 83	
<i>Scantius volucris</i> Gerst.	Blöte 1931: 117	
<i>Scantius volucris</i> Gerst.	Stehlik 1965a: 247	description

DYSDERCUS Guerin 1831

Subgenus ***Dysdercus*** Stehlik 1965

superstitiosus (Fabricius 1775)
(=*volkeri* Schmidt 1932) (syn. Freeman 1947)
nigrofasciatus Stål 1855
melanoderes Karsch 1892
fasciatus Signoret 1861
cardinalis Gerstäcker 1873

Subgenus ***Neodysdercus*** Stehlik 1965

intermedius Distant 1902
orientalis Schouteden 1910
pretiosus Distant 1902
haemorrhoidalis Signoret 1858

Subgenus ***Paradysdercus*** Stehlik 1965

festivus Gerstäcker 1892

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Editor's Note

Paper copies of this article will be deposited in the following libraries. Senckenberg Library, Frankfurt Germany; National Museum of Natural History, Paris, France; Field Museum of Natural History, Chicago, Illinois USA; the University of Wisconsin, Madison, USA; the University of Arizona, Tucson, Arizona USA; Smithsonian Institution Libraries, Washington D.C. U.S.A.; The Linnean Society, London, England.

References

Alluaud C. 1889. (A note on the validity of the name *Odontopus*). *Bulletin de la Societe Entomologique de France* LXV.

- Amyot CJB, Serville JGA. 1843. *Histoire Naturelle des Insectes. Hemipteres*. Paris: Roret.
- Aulmann G. 1912. Reihe 5. Die Schadlinge der Kulturpflanzen. H. 4. Die Schadlinge der Baumwolle. Die Fauna der deutschen Kolonien, hrsg. vom. Zool. Museum Berlin.
- Bergroth E. 1892. Notes synonymiques. *Revue d'Entomologie* 11: 262-264.
- Bergroth E. 1893. Notes sur quelques Hemipteres Ethiopiens du Musee de Lisbonne. *Journal des Sciences Mathematiques Physiques et Naturelles* Serie 2 D 3: 122-127.
- Bergroth E. 1894a. Erstes Verzeichniss der von Dr. A. Voeltzkow in Madagaskar gesammelter. Hemiptera Heteroptera. *Entomologische Nachrichten*. 20: 356-359.
- Bergroth E. 1894b. Rhynchota Aethiopica II. *Annales de la Societe Entomologique de Belgique* 38: 535-547.
- Bergroth E. 1903. Rhynchota Aethiopica III. *Annales de la Societe Entomologique de Belgique* 47: 288-297
- Bergroth E. 1905. Rhynchota Aethiopica IV. *Annales de la Societe Entomologique de Belgique* 49: 368-378.
- Bergroth E. 1906. Rhynchota Aethiopica V. *Annales de la Societe Entomologique de Belgique* 50: 196-203.
- Bergroth E. 1912a. Ueber einige afrikanische Pyrrhocoriden. *Wiener Entomologische Zeitung* 31: 313-317.
- Bergroth E. 1912b. New or little-known Ethiopian Hemiptera. *Annals and Magazine of Natural History* (8) 10: 191-203.
- Bergroth E. 1913a. Supplementum Catalogi Heteropterorum Bruxellensis. II. *Memoires de la Societe Entomologique de Belgique* 22: 125-183.
- Bergroth E. 1913b. On a small collection of Hemiptera from North Eastern French Congo. *Annales de la Societe Entomologique de Belgique* 55: 237-239.
- Bergroth E. 1914. Heteropterous Hemiptera from Natal and Zululand. Collected by Dr. I. Tragardt. *Goteborgs Kungliga Vetenskaps - och Vitterhetssam - hallets Handlingar* 16, 2: 1-16.
- Bergroth E. 1920. Hemiptera from British East Africa collected by Prof. E.Lunnberg. *Arkiv fur Zoologi utgivet av K. Svenska Vetenskaps -Akadamen* 12, 17: 1-30.
- Bergroth E. 1926. Zoological results of the Swedish Expedition to Central Africa, 1921. Insecta, 21. Hemiptera, Heteroptera. *Arkiv fur Zoologi utgivet av K. Svenska Vetenskaps -Akadamen* 18, 26: 1-12.
- Blanchard E. 1840. *Histoire Naturelle des Insectes*, vol. 3. *Pyrrhocoridae*. Paris
- Blöte HC. 1931. Catalogue of the Pyrrhocoridae in the Rijks Museum van Natuurlijke Historie. *Zoologische Mededeelingen* 14: 97-117.
- Blöte HC. 1933a. Sur Quelques Pyrrhocorides. *Bulletin du Musee Royale d'Histoire Naturelle de Belgique* 8, No. 31 (1932): 1-2.
- Blöte HC. 1933b. New Pyrrhocoridae in the collection of the British Museum (Natural History). *Annals and Magazine of Natural History* (10) 11: 588-602.
- Bolivar I. 1879. Hemipteros nuevos del Museo de Madrid. *Anales de la Sociedad Espanola de Historia Natural* 8: 133-146.
- Breidin G. 1901. Die Hemipteren von Celebes, Sonderabdruck A.D. *Abhandlungen der Naturforschenden Gesellschaft zu Halle* 14: 1-213.
- Burmeister H. 1835. *Handbuch der Entomologie*, vol 2, part 1. Berlin.
- Carlini, A de. 1892. Rincoti raccolti nel paese dei Somali (dall 'Ing. L. Bricchetti-Robecchi), con note sur altri dell' Africa Centrale. *Annali del Museo Civico di Storia Naturale Genova*. (2) XII: 527-538.
- Carlini A de. 1894. Rincoti di Nkole (Africa Centrale). *Bollettino della Societa entomologica Italiana* 26: 470-472.
- China WE. 1954. Notes on the nomenclature of the Pyrrhocoridae (Hemiptera Heteroptera). *Entomologists Monthly Magazine* 90, (ser. 4) 15: 188-189.
- China WE, Miller NCE. 1959. Check list and keys to the families and subfamilies of the Hemiptera - Heteroptera. *Bulletin of the British Museum (Natural History) Entomology* 8, No.1: 1-45.
- Courteaux, R. 1907. Collections de M. Maurice de Rothschild, recueillies dans l' Afrique orientale. Insectes: Hemipteres - (Heteropteres) nouveaux. *Bulletin du Museum d'Histoire Naturelle, (Paris)* 13: 327- 331.
- Courteaux, R. 1908. Hemipteres d'Afrique (Togo et Abyssinie). *Bulletin du Museum d'Histoire Naturelle, (Paris)* 14: 190-192.
- Courteaux, R. 1922. Hemipteres Heteropteres. In: *Voyage de M le Baron M. Rothschild en Ethiopie et en Afrique orientale anglaise (1904-1905). Resultats scientifiques*. Animaux articles, premiere partie: 263-293.
- De Geer C. 1778. *Memoires pour servir a L'histoire des insectes*, vol. 7. Stockholm.
- Distant WL. 1881. Additions to the Rhynchotal fauna of the Ethiopian Region. *Proceedings of the Zoological Society of London* 1881: 270-276.
- Distant WL. 1900. Hemiptera. In: Peele CVA and others. On a collection of Insects and Arachnids made in 1895 and 1897 by CVA. Peele, FZS. in Somaliland with descriptions of new species. *Proceedings of the Zoological Society of London* 1900: 4- 63.
- Distant WL. 1901. Contributions to the knowledge of the Rynchota. *Transactions of the Entomological Society of London* 1901: 581-592.
- Distant WL. 1902a. On the insects of the order Rhynchota collected by Sir Harry Johnston, K. C. B. in the Uganda Protectorate. *Proceedings of the Zoological Society of London* 1902, I: 41-44.
- Distant WL. 1902b. Rhynchotal Notes. - XII. Heteroptera: Fam. Pyrrhocoridae. *Annals and Magazine of Natural History* (7) 9: 34-45.
- Distant WL. 1903. The Fauna of British India, including Ceylon and Burma. Pyrrhocoridae in Rhynchota (Heteroptera). vol. 2, pt. 1: 94-122.

- Distant WL. 1904. Rhynchotal Notes. - XXIV. *Annals and Magazine of Natural History* (7) 14: 61-66.
- Distant WL. 1909. Ruwenzori Expedition Reports. 9. Rhynchota. *Transactions of the Zoological Society of London* 19: 67-82.
- Distant WL. 1910. The Fauna of British India, including Ceylon and Burma. Pyrrhocoridae in Rhynchota (Heteroptera). vol. 5, Appendix: 92-100.
- Distant WL. 1914a. Rhynchotal Notes. *Annals and Magazine of Natural History* (8) 13: 176-186.
- Distant WL. 1914b. Reports of the Rhynchota collected by the Wollaston Expedition in Dutch New Guinea. *Transactions of the Zoological Society of London* 20: 335-360.
- Distant WL. 1919. Some new species of the Homopterous family Pyrrhocoridae. *Annals and Magazine of Natural History* (9) 3: 218-222.
- Drury D. 1782. *Illustrations of Natural History*, vol. 3. London.
- Dupuis C. 1970. Heteroptera. In: Tuxen SL, editor, *Taxonomist's glossary of genitalia in insects*. Munksgaard, Copenhagen.
- Duviard D. 1974. Vols migratoires et developpement ovarien chez *Physopelta* spp. (Hemiptera - Largidae) en Ivory Coast. *Office de la recherche Scientifique et Technique Outre Mer. Centre de Adiopodoume, Cote d'Ivoire*. 1 - 10.
- Fabricius JC. 1775. *Systema Entomologiae sistens Insectorum classes, ordines, genera, species, adjectis synonymis, locis, descriptionibus, observationibus*. Flensburgi et Lipsiae.
- Fabricius JC. 1781. *Species Insectorum exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin adjectis observationibus, descriptionibus*, vol. 2. Hamburgi et Kilonii.
- Fabricius JC. 1787. *Mantissa Insectorum sistens eorum species nuper detectas adjectis characteribus genericis, differentiis specificis, emandationibus, observationibus*, vol. 2. Hafniae.
- Fabricius JC. 1794. *Entomologia systematica emendata et aucta, secundum classes, ordines, genera, species, adjectis synonymis, locis, observationibus, descriptionibus*, vol. 4. Hafniae.
- Fabricius JC. 1803. *Systema Rhyngotorum secundum ordines, genera, species, adjectis synonymis, locis, observationibus, descriptionibus*. Brunsvigae.
- Fairemaire, L. and Signoret, V. 1858. Hemipteres du Gabon, Hemipteres, Heteropteres. In: Thomson. *Archives de Entomologie II*: 306-308.
- Fallou G. 1891. Diagnoses d'Hemipteres nouveaux. *Revue d'Entomologie* 10: 5-10.
- Fieber F. 1861. *Die europeischen Hemiptera*. Vienna.
- Freeman P. 1947. A revision of the genus *Dysdercus* Boisduval (Hemiptera, Pyrrhocoridae) excluding the American species. *Transactions of the Royal Entomological Society of London* 98: 373-424.
- Gerstäcker A. 1873. *Baron C. C. von der Decken's Reisen in Ost Afrika. Gliederthiere. (Insekten, Arichniden, Myriapoden und Isopoden)*. vol. 3.
- Gerstäcker A. 1892. Bestimmung der von Herrn. Dr. F. Stuhlmann in Ostafrika gesammelten Hemiptera. *Jahrbuch der Hamburgischen Wissenschaft-lichen AnStalten* 9, (Pt. 2) (1891): 45-58.
- Gmelin JF. 1788. *Caroli a Linne, Systema Naturae Ed. XIII. Lipsiae. Insecta, Hemiptera*, vol. 1, Pt. IV: 2123-2200.
- Goeze JAE. 1778. *Entomologische Beytrage zu des Ritter Linne. zwolften Ausgabe des Natursystems*, vol. 2. Leipzig.
- Goursat H. 1931a. Description d'un *Odontopus* nouveau. (Hem. Pyrrhocoridae) des collections du British Museum. *Bulletin de la Societe Entomologique de France*: 167-168.
- Goursat H. 1931b. Sur une variete de *Odontopus notabilis* Distant, (Hemiptera, Heteroptera, Pyrrhocoridae) renfermee dans les collections du British Museum. *Bulletin de la Societe Zoologique de France* 56: 266-269.
- Guerin-Meneville FE. 1847. Insectes. In: *Lefebvre's Voyage en Abyssinie, execute pendant les annees 1839-1843. Insectes*. Pt. IV, vol. 6. Paris.
- Haglund JCE. 1895. Beitrage zur Kenntnis der Insektenfauna von Kamerun. 4. Verzeichniss der von Yngre Sjostedt in nord-westlichen Kamerungebiete eingesammelten Hemipteren. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 1895, No. 7: 445-479.
- Hahn CW, 1834. *Die Wanzenartigen Insecten*. Vol. 2. Nurnberg.
- Herrich-Schaffer GAW. 1847. *Die Wanzenartigen Insecten*. Vol. 8. Nurnberg.
- Herrich-Schaffer GAW. 1853. *Die Wanzenartigen Insecten*. Vol. 9. Nurnberg.
- Hesse AJ. 1925. Contributions to a knowledge of the fauna of South West Africa. IV. A list of the Heteropterous and Homopterous Hemiptera of South West Africa. *Annals of the South African Museum, Cape Town*. 23: 1-190.
- Hussey F. 1929. General Catalogue of the Hemiptera. 3. Pyrrhocoridae. 1-144.
- Izzard RJ. 1950. A macropterous female of *Myrmoplasta potteri* Martin. Hemiptera (Pyrrhocoridae). *Annals and Magazine of Natural History* (12) 3: 192-194.
- Karsch F. 1892. Kurze Charakteristik neuer Wanzen aus Kamerun. gesammelt durch Herrn Dr. Paul Preuss. *Entomologische Nachrichten* 18, No. 9: 129-144.
- Karsch F. 1894. Verzeichniss der von Herrn Dr. Paul Preuss in Kamerun gesammelten schnabelkerfe nebst Beschreibung der neuen Arten. *Entomologische Zeitung, hrsg. von dem entomologischen Vereine zu Stettin* 55, No. 4-6: 99-116.
- Kirby WF. 1896. A list of the Orthoptera, Hymenoptera and Hemiptera collected by Miss Kingsley on the River Ogove, with descriptions

- of some new genera and species. *Annals and Magazine of Natural History* (6) 18: 257-269.
- Kirkaldy GW. 1904. Bibliographical and Nomenclatorial Notes on the Hemiptera, No. 3. *The Entomologist* 37: 279-283.
- Kirkaldy GW. 1905. Bibliographical and Nomenclatorial Notes on the Hemiptera, No. 4. *The Entomologist* 38: 76-79.
- Kirkaldy GW, Edwards S. 1902. Anmerkungen uber bemerkenswerte Pyrrhocoriden. (Rhynchota). *Wiener Entomologische Zeitung* 21: 161-173.
- Laporte FL de, Comptes de Castelnau. 1832. Essai d'une classification systematique de l'ordre des Hemipteres. (Hemipteres - Heteropteres Latr.). *Magazin de Zoologie (Guerin)* 1, Nos. 52-55, Suppl. 88pp.
- Lefroy HM. 1909. The insect fauna of Tirhut, No. 1, Rynchota, Heteroptera. *Records of the Indian Museum, Calcutta* 3: 301-338.
- Leston D. 1969. Heteroptera of Ghana: Largidae. *Entomologists Monthly Magazine* 104: 225 - 227.
- Lethierry L. 1883. Spedizione Italiana nell' Africa equatoriale. Risultati zoologici: Emitteri. Parta Seconda. *Annali del Museo Civico di Storia Naturale, Genova* 18: 741-756.
- Lethierry L, Severin G. 1894. Catalogue Generale des Hemipteres. Bruxelles. Vol. 2, pp. 237-255. Musee Royal d'histoire naturelle de Belgique.
- Linnavuori R. 1977. Additional notes on the hemipterous fauna of Somalia. *Bollettino Soc. ent. Italiana* 109: 61-65.
- Linnavuori R. 1978. Hemiptera of the Sudan, with remarks on some species from adjacent countries 6. Aradidae; Meziridae; Aneuridae; Pyrrhocoridae; Stenocephalidae; Coreidae; Alydidae; Rhopalidae; Lygaeidae. *Acta Zoologica Fennica* No. 153. 1978: 1 - 108.
- Linnavuori R. 1982. Some Hemipterous fauna from Somalia and Ethiopia. *Monitore Zoologico Italiano* Suppl. 16: 1-33.
- Linnavuori R. 1986. Notes on the hemipterous fauna of Somalia and Ethiopia. *Monitore zoologico Italiano (N.S.)* Suppl.21 : 109-127.
- Linnavuori R. 1988. Berytidae and Pyrrhocoridae (Heteroptera) from Nigeria and the Ivory Coast, with remarks on the occurrence in the adjacent countries. *Annales Entomologicic Fennici* 54 : 11-18.
- Mancini C. 1954. Missione biologica Sagan-Omo diretta dal Prof. Edoardo Zavattari. *Annali del Museo Civico di Storia Naturale, Genova* 66:166-204.
- Mancini C. 1961. A list of the Abyssinian Heteroptera collected by Marchese Saverio Patrizi and others. Nota II. *Annali del Museo Civico di Storia Naturale, Genova* 72: 31-46.
- Martin J. 1900. Espece nouvelle d'Hemiptere de la Famille des Pyrrhocoridae. *Bulletin du Museum d'Histoire Naturelle, Paris* 6: 20-21.
- Mayr GL. 1868. Hemiptera, In - Reise der Osterreichischen Freggate Novara um die Erde in den Jahren 1857-1859. *Zoologischer Teil* 2, Abt. I: 1-204.
- Montandon AL. 1899. In Junod: La faune Entomologique de Delagoa. *Bulletin de la Societe Vaudoise des Science Naturelles*: 216-220.
- Oshanin B. 1912. *Katalog der palearktischen Hemipteren. (Heteroptera, Homoptera - Auchenorrhyncha and Psylloidea)*. Berlin.
- Puton A. 1881. Enumeration des Hemipteres recoltes en Syrie par M. Abeille de Perrin. *Mittheilungen der Schweizerische Entomologische Gesellschaft* 6: 119-129.
- Retzius AJ. 1783. In: De Geer. Genera et species Insectorum. Lipsiae, cruse.
- Reuter OM. 1882. Ad cognitionem Heteropterorum Africae occidentalis. *Ofversigt af Finska Vetenskaps-Societatens Forhandlingar* 25: 1-43.
- Reuter OM. 1885. Ad cognitionem Lygaeidarum palaearticularum. *Revue d'Entomologie* 4: 199-233.
- Reuter OM. 1888. *Revisio synonymica Heteropterorum palaearticularum que descripserunt auctores vetustiores (Linnaeus 1758 - Latreille 1806)*. I and II: 458 pp.
- Risbec J. 1951. Sur la reproduction de quelques Hemipteres du Senegal. *Conferencia Internacional dos Africanistas Ocidentais*. 2e. conf. Bissau, 1947. 3, Pt. 2: 247-254.
- Sauvaut A. 1949. Sur Dindymus flavipes (Pyrrhocoridae), insecte rare en Cote d'Ivoire. *Bulletin de la Societe d'Histoire Naturelle de Toulouse* 84: 155-156.
- Schaefer CW. 1964. The Morphology and Higher Classification of the Coreoidea (Hemiptera - Heteroptera): Pt. 1. *Annals of the Entomological Society of America* 57: 670-680.
- Schaum H. 1853. Hr. Peters berichtete uber die von ihm gesammelten und von Hrn. Dr. Schaum bearbeiteten Hemipteren aus Mossambique. *Monatsbericht Akademie, Berlin* 1853: 356-359.
- Schaum H. 1862. Hemiptera, Halb flugler. In - Peter's Reise nach Mossambique, Zoologie, V. Berlin: 35-56.
- Schmidt E. 1931. Zur Kenntnis der Familie Pyrrhocoridae Fieber (Hemiptera, Heteroptera). Larginae. *Stettiner Entomologische Zeitung* 92: 1-51.
- Schmidt E. 1932. Zur Kenntnis der Familie Pyrrhocoridae Fieber (Hemiptera, Heteroptera). Teil II. Subfamilie Pyrrhocorinae. *Wiener Entomologische Zeitung* 49: 236-281.
- Schouteden H. 1905. Excursion del Dott. Achille Tellini nell Eritrea. Hemiptera. *Annales de la Societe Entomologique de Belgique* 49: 6-10.
- Schouteden H. 1905. Expedition du Baron C. von Erlanger en Abyssinie et au pays des Somalis. Hemipteres - Heteropteres. *Annales de la Societe Entomologique de Belgique* 49: 11-16.
- Schouteden H. 1910. Wissenschaftliche Ergebnisse der Schwedischen Zoologischen Expedition nach dem Kilimandjaro, dem Meru und den umgebenden massaiesteppen Deutsch-Ostafrikas, 1905-1906. Reduviidae, Pyrrhocoridae et Coreidae. II. Fasc. 12, Pt. 9: 145-160.

- Schouteden H. 1912. Les Hemipteres parasites des Cotonniers en Afrique. *Revue Zoologique Afrique* I, Fasc. B.: 297-321.
- Schouteden H. 1933. Une nouvelle espece du Genre Siango Blöte. *Revue Zoologique et Botanique Africaine* 23: 338-339.
- Schouteden H. 1957. Contributions a l'étude de la faune entomologique du Ruanda-Urundi (Mission P. Basilewskyi 1953). CXXV. Hemiptera, Lygaeidae, Pyrrhocoridae, et Berytidae. *Annales du Museum du Congo, Tervuren in-8 Zool* 58: 247-267.
- Schumacher F. 1912. Über eine Hemipterenausbeute, gesammelt von Herrn E. Hintz im Kamerungebirge. *Mitteilungen aus dem Zoologischen Museum in Berlin* 6: 313-325.
- Signoret V. 1861. Faune des Hemipteres de Madagascar, 2nd partie. Heteroptera. *Annales de la Societe Entomologique de France* (3) VIII: 917-972.
- Signoret V. 1886. Liste des Hemipteres recueillis a Madagascar, aux environs de Tamatave, en 1885 et description des especes nouvelles. *Annals de la Societe entomologique de France*. (6) V: 25-30.
- Southwood TRE. 1956. The structure of the eggs of the terrestrial Heteroptera and its relationship to the classification of the group. *Transactions of the Royal Entomological Society of London* 108: 163-221.
- Spinola M. 1840. *Essai sur les insectes Hemipteres, Rhyngotes, ou Heteropteres*. Paris.
- Stål C. 1853. Nya Genera bland Hemiptera. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 10: 259-267.
- Stål C. 1854. Nya Hemiptera. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 11: 231-255.
- Stål C. 1855a. Hemiptera fran Kafferlandet. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 12: 27-46.
- Stål C. 1855b. Om Thunberg'ska Hemipterarter. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 12: 345-347.
- Stål C. 1858. Hemipterologiska bidrag. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 15: 433-454.
- Stål C. 1859. Kongliga Svenska Fregatten Eugenie's Resa omkring jorden under bifal af C. A. Virgin, oven 1851-53, etc. Hemiptera, Species novas descripsit. Vol. II, Zoologi, I. Insects: 219-298, 1 pl.
- Stål C. 1861. Nova methodus familias quasdam Hemipterorum disponendi (Bidrag till Hemipterernas Systematik). *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 18: 195-212.
- Stål C. 1862. Synonymiska och Systematiska Anteckningar Ofver Hemiptera. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 19: 479-504.
- Stål C. 1863. Beitrag zur Kenntniss der Pyrrhocoriden. *Berliner Entomologische Zeitschrift* 7: 390-404.
- Stål C. 1865-1866. Hemiptera Africana. Stockholm. 4 Vols. Vol. III, 1865: 1-17 and vol. IV: 255.
- Stål C. 1868. Hemiptera Fabriciana. I. Kongliga Svenska Vetenskaps-Akademiens Handlingar VII, No. 11: 1-148.
- Stål C. 1870-1874. Enumeratio Hemipterorum. I and IV. Kongliga Svenska Vetenskaps-Akademiens Handlingar. IX, No.1: 90-124. XII, No. 1: 167-168.
- Stehlik JL. 1965. Mission Zoologique de l'I.R.S.A.C. en Afrique orientale. (P. Basilewskyi - N. Leleup, 1957). Pyrrhocoridae (Het.). *Acta Musei Moraviae* 50: 211-252.
- Stehlik JL. 1965. Pyrrhocoridae and Largidae collected by E.S. Brown on Solomon Islands (Heteroptera). *Acta Musei Moraviae* 50: 253 - 292.
- Stehlik JL. 1966. Three new species of the genus *Aderrhis* Bergroth from the Ethiopian Region. (Heteroptera, Pyrrhocoridae). *Acta Musei Moraviae* 51: 321-327.
- Stehlik JL. 1966. A new genus of Pyrrhocoridae from the Malagasy Region. *Acta Musei Moraviae*, LI: 329-340. Pls.1-4.
- Stehlik JL. 1977. Pyrrhocoridae of the Ethiopian Region. Genus *Schmitziana* Gen. n. *Acta Musei Moraviae* 62: 133-147.
- Stehlik JL. 1979. Pyrrhocoridae of the Ethiopian Region (Heteroptera). Genus *Gromierus* Villiers. *Acta Musei Moraviae* 64: 177-196.
- Strand E. 1910. Neue und bekannte ostafrikanische Heteroptera. Entomologische Rundschau mit nzeigenbeilage: Insektenbörse und Beilage: *Entomologische Vereinsblatt* 27: 151-152.
- Taeuber HW. 1927. Beitrage zur kenntniss der Heteropteren - Fauna der Philippinen. *Konowia* 6: 165-201.
- Thunberg CP. 1784. *Dissertatio entomologica Novas insectorum species sistens*, vol. III. Upsala.
- Thunberg CP. 1822. *Dissertatio entomologica de Hemipteris rostratis capensibus*. Upsaliae. Pt. I - IV. (Hemiptera in Pt. IV: 1-6).
- Uhler PR. 1861. Hemiptera of the North Pacific Exploring Expedition under Com'rs Rodgers and Ringgold. *Proceedings of the Academy of Natural Sciences of Philadelphia* (1860): 221-231.
- Van Duzee EP. 1916. *Check list of the Hemiptera (excepting Aphididae, Aleurodidea and Coccidae) of America north of Mexico*. New York.
- Villiers A. 1950a. Hemipteres, Pyrrhocoridae, Coreidae, Pentatomidae, et Coptosomatidae. Contribution a l'étude de l'Air. (Mission L. Chopard et A. Villiers). *Memoire de l'Institut Francais de l'Afrique Noire* 10: 322-323.
- Villiers A. 1950b. Note d'Entomologie Ouest-Africaine. I. Descriptions de nouveaux Hemipteres Heteropteres. *Bulletin de l'Institut Francais de l'Afrique Noire* 10: 634-659.
- Villiers A. 1951. Nouveaux Pyrrhocoridae Africains. Conferencia Internacional dos Africanistas Ocidentais 2a Conference, Bissau, 1947. Vol. III Parte 2: 141-146., pl.1.
- Villiers A. 1953. Terrestrial Heteroptera of the Reserve du Nimba, Fr. Guinea. *Memoire de l'Institute Francais de l'Afrique Noire* 19: 289-309.
- Villiers A. 1967. Contribution a la faune du Congo (Brazzaville). Mission A. Villiers et A. Descarpentries. XLVIII. Hemipteres. Pyrrhocoridae. *Bulletin de l'Institut Francais de l'Afrique Noire* 29: 370-374.

- Villiers A, Dekeyser PL. 1951. Observations sur quelques Hemipteres. Conferencia Internacional dos Africanistas Ocidentais. 2a Conference, Bissau, 1947. Vol. III Parte 2: 15-21.
- Walker F. 1867-1873. Catalogue of the specimens of Hemiptera Heteroptera in the collection of the British Museum, London. Part I - VI. (Pyrrhocoridae in Pt. V. 1872: 163-191 and Pt. VI. 1873: 1-40).
- Wallengren HDJ. 1875. Insecta Transvaaliensia. Bidrag till Transvaalska Republikens i Sudra Afrika Insektfauna. *Ofversigt af Kongliga Svenska Vetenskaps-Akademiens Forhandlingar* 32: 83-137.