

**Coleoptera from North-East Africa.  
Chrysomelidae: Eumolpinae**

**(Zoological contribution from the Finnish expeditions to the Sudan No. 34)**

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Abstract

A list is given of finds of 56 species of Eumolpinae, collected by the Finnish zoological expeditions to the Sudan and Ethiopia. One new species is described: *Syagrus silverbergi* sp. n.

The eumolpid beetles in this paper were collected by the Finnish expeditions to the Sudan, Ethiopia, Somalia and Aden in 1961—63. They comprise 299 Eumolpinae of 56 species and 22 genera all collected by Dr. R. Linnavuori except where stated. Most of the species were collected in the Equatoria Province of the southern Sudan along the border with the Republic of the Congo. This is a region of hilly savannahs and guinean type rain forest bordering onto the Garamba National Park of the Congo, whose eumolpid fauna has already been described (SELMAN 1972). The two faunas naturally have many species in common. The nomenclature follows that of SELMAN (1965). The material is deposited in the Entomological Department of the Zoological Museum, Helsingfors except for 4 paratypes in the British Museum (Nat. Hist.), London. The author is indebted to Dr. H. Silfverberg for allowing him to work on this very interesting collection.

Tribe Nodini

Genus *Pagria*

The specimens collected by this ex-

pedition in Ethiopia and the Sudan, fill part of the gap in the previously known distribution of the genus. This was central and eastern Africa as far north as Kenya, and India to Japan.

*Pagria liturata* Lefevrea

Ethiopia: Bellela forest, 13—14.6.1963, 1 Ex.

Sudan: Equatoria, Yambio, 18—25.4.1963, 1 Ex.

Distribution: Angola, Congo (Garamba and Upemba National Parks). Usually found March-July in herbaceous savannah or woody savannah, and July-December in swamps and marshes often at the bases of the plants. Hosts, *Vitex doniana* and *Sporobolus pyramidalis*.

*Pagria suturalis* Lefevrea

Sudan: Equatoria, Nimule, 11—13.3.1963, 1 Ex.;

Equatoria, Yambio, 18—25.4.1963, 4 Ex.;

Equatoria Loka forest, 8—10.4.1963, 1 Ex.;

Equatoria, Aloma Plateau, Yei-Iwatoka, 12—13.

4.1963, 1 Ex.; Equatoria, Imatong Mts. nr. Gilo,

18—24.3.1963, 1 Ex.

Distribution: E. Africa including Kenya and Tanzania, Congo (Garamba and Upemba National Parks), Uganda (Ruwenzori 2850 ft.). Found in swamps and dense moist gallery forest. Host, *Erythrophlaeum guineensis*.

*Pagria varians* Lefevrea

Sudan: Equatoria, Yambio, 18—25.4.1963, 1 Ex.; Equatoria, Lotti Forest, 14—17.3.1963, 1 Ex.

Distribution: East Africa (Kenya, Tanzania), Congo (Garamba and Upemba National Parks). Found October to December and March to May in gallery forest on river banks and in woody savannah. May to September found mainly on herbaceous savannah in the shade. Host *Combretum* spp.

*Microerydemus africanus* (Jacoby)

W. Aden Prot.: nr. Lahej, 9—15.7.63 (at light), 1 Ex.

Eritrea: Tesserei, 22.5.1963. 1 Ex.

Sudan: Equatoria, Kapoeta-Boma, 26—27.3.1963, 29 Ex.

Distribution: Central Africa and the Congo.

*Afroerydemus geniculatus*

(Jacoby)

Sudan: Blue Nile, Singa-Damazin, 15—17.11.1962, 2 Ex.; Upper Nile, Malakal, 5—20.1.1963, 4 Ex.; Equatoria Kapoeta-Boma, 26—27.3.1963, 1 Ex.; Kordofan, El Obeid, 29.1.1963 (at light), 1 Ex.; Blue Nile, Umm Bancin, 14.11.1952.

3 Ex.; Blue Nile, Abu Hashim-Galegu, 23—24.11.1962, 1 Ex.; Blue Nile, Wad Medani, 11—14.11.1962, 1 Ex.

Distribution: Mozambique.

*Afroerydemus puncticollis*

(Bryant)

Ethiopia: nr. Nazareth, 20—21.6.63, 1 Ex.

Distribution: Congo (Garamba and Upemba National Parks). Usually found in dense shade on the edge of dense forest.

*Afroerydemus rufulus* (Thomson)

Sudan: Equatoria, Imatong Mts., nr. Gilo, 18—24.3.1963, 1 Ex.; Equatoria: Juba, 27.2.1963, 1 Ex.

Distribution: Rio Muni.

*Afroerydemus* sp.

Somalia: Daragodleh, 25.6.1963, 1 Ex.

*Microsyagrus mashonianus*

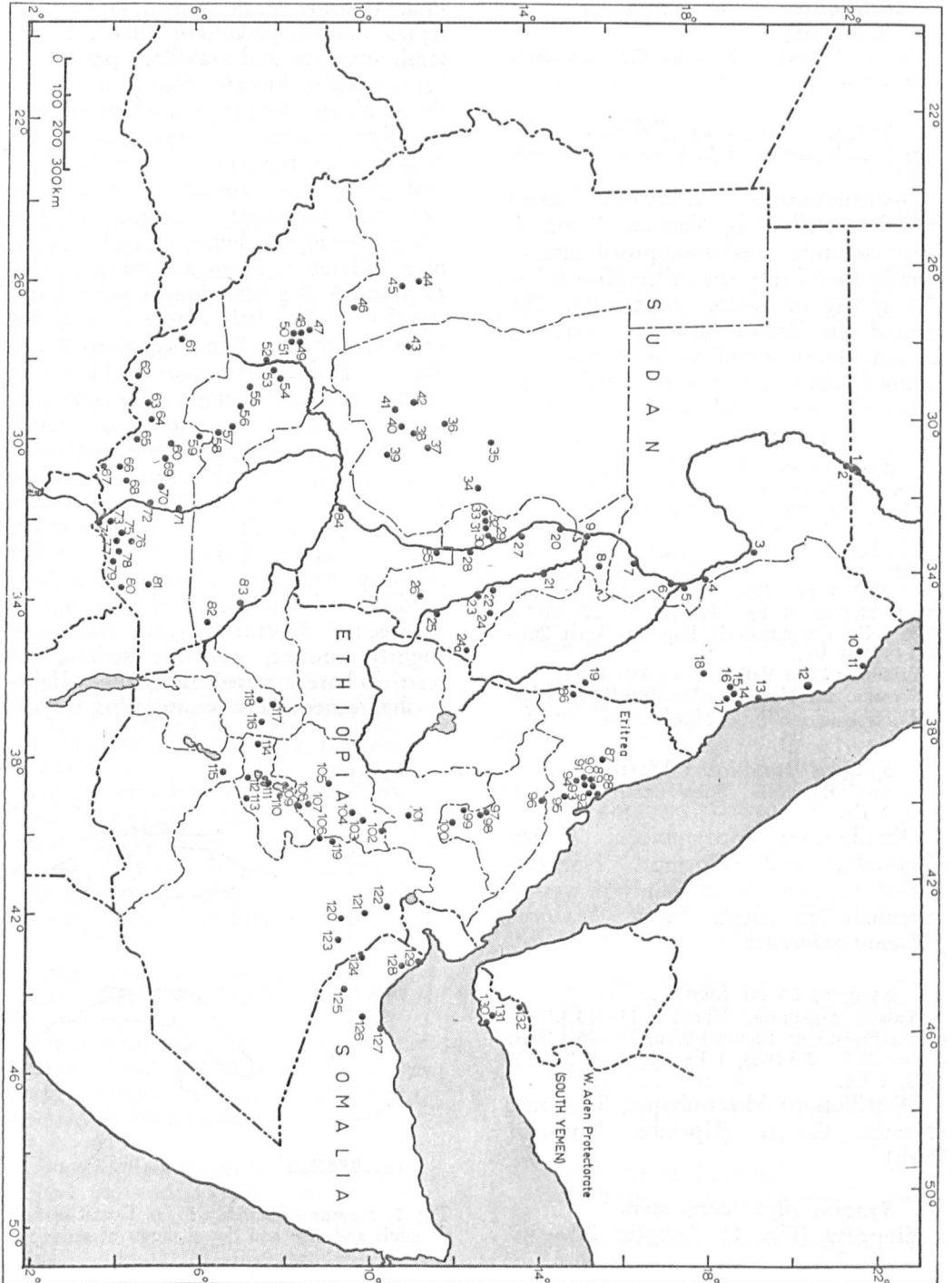
(Jacoby)

Ethiopia: nr. Lake Langanno, 6.6.1963, 4 Ex.; Agheresalam, 7.6.1963, 2 Ex.; nr. Nazareth, 20—21.6.63, 3 Ex.; Omo Valley, 12.6.1963, 1 Ex.; nr. Wondo, 7.6.1963. 1 Ex.

Distribution: Rhodesia. This genus is usually found in moist places.

Map of the study area of the Finnish Zoological expeditions. Collecting localities for Eumolpinae.

Abend Pass	15	Hargeisa	125	Nimule	74
Abu Hashim	24	Ibba	63	Omo Valley	114
Agaro	117	Ingassana Mts.	26	Opari	73
Agheresalam	113	Iwatoka	67	Pongo R.	51
Ailet	89	Jijiga	123	Port Sudan	13
Awash	106	Juba	72	Rumbek	57
Babanusa	43	Kapoeta	87	Senambio	65
Bellela	118	Kassala	19	Singa	22
Berbera	127	Khartoum	9	Tambura	61
Boma	52	Lahej	131	Tendelti	33
Coca	108	Langano Lake	111	Terakeka	71
Daragodleh	126	Loka	68	Torit	76
Dibeira	1	Lotti	77	Umm Bancin	23
Dogali	92	Magwe	75	Umm Ruwaba	34
Ed Damer	6	Malakal	84	Wad Medani	21
El Obeid	35	Maridi	64	Wau	52
Galegu	24a	Massawa	88	Wondo	115
Gilo	79	M'Boloko	58	Yambio	62
Godatair	49	Mundri	60	Yei	66
Gwurra	53	Mvole	59	Zwai Lake	109
Harar	120	Nazareth	107		



*Proliniscus* sp. nr. *natalensis*  
(Lefevrea)

Sudan: Equatoria, Tambura-Wau, 25—26.4.1963. 1 Ex.

*Syagrus calcaratus* (Fabricius)

Sudan: Equatoria, Ibba-Yambio, 16.4.1963, 1 Ex.

Distribution: Guinea, Senegal, Congo (widely distributed), Nigeria, Ghana. A very common and widespread species usually found in open gallery forest but also grassy or woody savannahs. The ground is almost always moist or marshy. Host stated to be *Parinarium curatellifolium* but also reported to do heavy damage to Malvaceae.

*Syagrus ortobiensis* Selman

Sudan: Upper Nile, Malakal, 3—20.1.1963, 20 Ex.; Blue Nile, Singa-Damazin, 15—17.11.1962, 3 Ex.; Blue Nile, Umm Banein, 14.11.1962, 9 Ex.; Blue Nile, Abu Hashim-Galegu, 23—24.11.1962, 7 Ex.; Blue Nile, Ingassana Mts., 17—22.11.1962, 7 Ex.; Blue Nile, Le Singa-Roseiras, 15—17.11.1962, 4 Ex.; Ed Damer, 27—30.10.1962, 1 Ex. Ex. Equatoria, Kapoeta-Boma, 26—27.3.1963, 1 Ex.

Ethiopia: Omo Valley, 12.6.1963, 1 Ex.

Somalia: nr. Hargeisa, 23—28.6.1963, 3 Ex.

Distribution: N. Tchad.

*Syagrus punctiollis* Harold.

Sudan: Equatoria, Juba-Terakeka, 2—6.3.1963, 1 Ex.

Distribution: Mozambique, Congo (Garamba and Upemba National Parks), Guinea. Found mainly in woody savannah on trees. Host, *Erythrophlaeum guineensis*.

*Syagrus tristis* Jacoby.

Sudan: Equatoria, Nimule, 11—13.3.1963, 8 Ex.; Equatoria: Tambura-Wau, 25—26.4.1963, 1 Ex.; 27.2.—2.3.1963, 1 Ex.; Juba, 27.2.—2.3.1963, 1 Ex.

Distribution: Mozambique, S. Africa (Natal), Congo (Upemba National Park).

*Syagrus silfverbergi* sp.n.

Elongate (Fig. 1). Length: 2.6—3.0

mm. Colour: dark brown, suture of elytra darker, pronotum almost black, tarsi, antennae and maxillary palps uniformly light brown. Head: hypognathous, almost hidden beneath pronotum, heavily punctate, fronto-clypeus not ridged with punctures especially deep and prominent, epicranial suture indistinct. Antennae: extending to just behind the elytral humeri, basal segment much dilated, segment 2 short and equal to 5 and 6, 3 a little longer than 2 and equal to 4, 7 a little longer than 3, 8 a little longer than 7 and equal to 9 and 10, 1 a little longer than 8, 11 longer than 1 and x2 as long as 2. Prothorax: pronotum almost as long as broad, strongly convex, lateral sides margined and very indistinctly dentate, surface closely and evenly punctured, punctures increasing in size laterally and posteriorly, intervals very lightly shagreened but shiny, punctures non-setate. Scutellum: cordiform, impunctate and very lightly shagreened. Elytra: elongate, sides very slightly convex, punctate striate, interstices barely raised, shiny, very lightly shagreened. Legs: setate, tibia ridged,

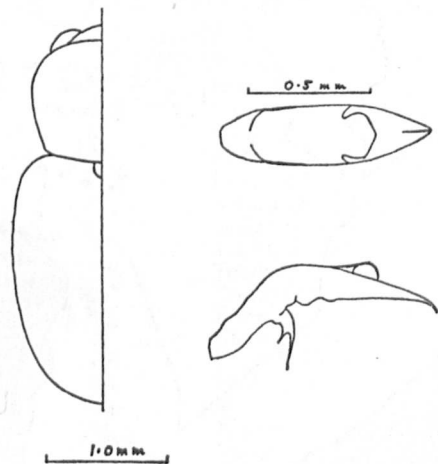


Fig. 1. *Syagrus silfverbergi* sp. n. Dorsal surface of adult and side and dorsal views of aedeagus.

femora with a short ventral tooth.  
*Aedeagus*: Fig. 1.

Holotype: ♂, Sudan, Equatoria, Torit-Kapoeta, 26.3.1963 (R. Linnavuori) no. 15066 in Museum Zoologicum Helsingfors. Paratypes: Four, data as above in British Museum (Nat. Hist.) London. Three, data as above; One, Sudan, Bahr el Ghazal nr. Gwurra, 21.2.1963 (R. Linnavuori); and, One, Sudan, Equatoria, Juba-Nimule, 10—11.3.1963 (R. Linnavuori) in Mus. Zool. Helsingfors.

This species is a typical *Syagrus* differing from the other species in its small size and lack of setation. Many *Syagrus* species are associated with ants, the larvae living in the nest of the ant. Ants nests found on the aerial parts of plants seem to be especially favoured.

*Sarum pergeminatus* (Burgeon)

Sudan: Equatoria, Lotti forest, 14—17.3.1963, 1 Ex.

Distribution: Congo.

*Meniellus maculicollis* (Jacoby)

Sudan: Equatoria, Aloma Plateau, Yei-Iwataka, 12—13.4.1963, 1 Ex.; Bahr el Ghazal, R. Pongo, 18.2.1963, 1 Ex.; Equatoria, Loka Forest, 8—10.4.1963, 1 Ex.

Distribution: Eastern Nigeria, Congo (Garamba and Upemba National Parks) commonly found in woody savannah including *Isoberlinia* and *Combretum* forest up to over 1000 m. Hosts, *Nauclea latifolia* and *Combretum* spp.

*Massartia minimus* (Burgeon)

Sudan: Equatoria, Yei-Maridi, 13.4.1963, 1 Ex.

Distribution: Congo (Garamba National Park). Previously found in woody savannah to over 1000 m. Host, *Combretum binderianum*.

*Paraivongius armatus* (Burgeon)

Sudan: Equatoria, Yambio, 18—25.4.1963, 1 Ex.

Distribution: Congo.

*Paraivongius emaliensis* (Bryant)

Ethiopia: Belleta forest, 13—14.6.1963, 1 Ex.; nr. Harar, 22—23.6.1963, 1 Ex.

Sudan: Equatoria, Opari-Magwe, 13.3.1963, 1 Ex.; Equatoria, Yambio, 18—25.4.1963, 1 Ex.; Equatoria, Imatong Mts. nr. Gilo, 18—24.3.1963, 1 Ex.

Distribution: Kenya (Sultan Hamud, 4,900—5,900 ft).

*Paraivongius katangensis* (Burgeon)

Sudan: Equatoria, Opari-Magwe, 13.3.1963, 2 Ex.; Equatoria, Loka forest, 8—10.4.1963, 2 Ex.; Equatoria, Mvolo-Mundri, 24.2.1963, 2 Ex.; Equatoria, Nimule, 11—3.3.1963, 1 Ex.; Equatoria, Juba-Nimule, 10—11.3.1963, 1 Ex.

Distribution: Congo (Katanga Province).

*Paraivongius ruandicus* (Weise)

Ethiopia: Omo Valley, 12.6.1963, 1 Ex.

Distribution: Ruanda.

*Paraivongius* sp. 1.

Sudan: Equatoria, Maridi-Ibba, 16.4.1963, 4 Ex.; Equatoria, Yei-Maridi, 13.4.1963, 1 Ex.; Equatoria, Yambio, 18—25.4.1963, 1 Ex.

Ethiopia: Omo Valley, 12.6.1963, 3 Ex.

*Paraivongius* sp. 2.

Sudan: Equatoria, Maridi-Ibba, 16.4.1963, 2 Ex.

*Paraivongius rubricollis* Selman

Sudan: Equatoria, Yambio, 18—25.4.1963, 3 Ex.

Distribution: Congo (Garamba National Park). Found on savannah trees and grasses beneath savannah trees. Hosts, *Combretum* spp.

*Paraivongius* sp. 3.

Sudan: Equatoria, Yambio, 18—25.4.1963, 1 Ex.; Equatoria, Maridi-Ibba, 16.4.1963, 1 Ex.

*Paraivongius* sp. 4.

Sudan: Equatoria, Yambio, 18—25.4.1963, 3 Ex.

*Gaberella costatus* Baly.

Sudan: Equatoria, Lotti forest, 14—17.3.1963, 1 Ex.

Distribution: Cameroun, Congo Braz-

zaville, Congo (Garamba National Park), Uganda (Ruwenzori 2850 ft). Found on the edge of gallery forest in light shade or in grassy savannah on the edge of marshland. Host, *Erythroplaeum guineensis*.

*Rhembastus variabilis* Harold.

Sudan: Equatoria, Imatong Mts., nr. Gilo, 18—24.3.1963, 12 Ex.; Equatoria, Loka forest, 8—10.4.1963, 3 Ex.; Equatoria, Opari-Magwe, 13.3.1963, 1 Ex.; Equatoria, Aloma Plateau, Yei-Iwatoka, 12—13.4.1963, 1 Ex.; Equatoria, Yambio, 18—25.4.1963, 1 Ex.

Distribution: S. Africa (Natal), Mozambique, Congo (Garamba National Park), West Africa as far as Guinea and the Ivory Coast.

Tribe Eumolpini

*Melindea nigrita* (Jacoby)

Sudan: Equatoria, Yei-Maridi, 13.4.1963, 3 Ex.; Equatoria, Yei-Maridi, 13.4.1963, (at light), 3 Ex.; Equatoria, Imatong Mts. nr. Gilo, 18—24.3.1963, 2 Ex.; Equatoria, Lotti forest, 14—17.3.1963, 1 Ex.; Equatoria, Aloma Plateau, Yei-Iwatoka, 12—13.4.1963, 1 Ex.

Distribution: Ethiopia, Kenya, Congo (Garamba and Upemba National Park), Uganda. This is a species found over much of west, central and eastern Africa in all types of savannah, open grassland, marshes and mountainside. Hosts, *Dombeia* sp. and *Combretum* spp.

*Colasposoma aurichalcicum*

Thomson

Ethiopia: Gembi nr. Agaro, 15.6.1963, 1 Ex.

Distribution: Gabon, Congo (Garamba, Upemba and Albert National Parks). This is a savannah species also found on mountainside vegetation especially on *Lophira*.

*Colasposoma fairmairei* Lefevrea

Sudan: Equatoria, Loka forest, 8—10.4.1963, 2 Ex.; Equatoria, Yambio, 18—25.4.1963, 1 Ex.; Equatoria, Senambio, 14—18.4.1963, 2 Ex.; Equatoria, Ibba-Yambio, 16.4.1963, 4 Ex.

Distribution: Nigeria, Ghana, Cameroon, Spanish Guinea, Congo Brazzaville, Congo (Garamba and Albert National Parks). Found in dense gallery forest and humid woody savannah often by streams and rivers.

*Colasposoma* sp. 1.

Ethiopia: Belleta forest, 13—14.6.1963, 1 Ex.

*Colasposoma* sp. 2.

Sudan: Equatoria, Senambio, 14—15.4.1963, 1 Ex.

*Lefevrea humeralis* Weise

Sudan: Equatoria, Aloma Plateau, Yei-Iwatoka, 12—13.4.1963, 1 Ex.; Equatoria, Yambio, 18—25.4.1963, 1 Ex.

Distribution: Congo (Garamba National Park), Central Africa, Uganda, Ruwenzori (2750 ft.). Found in woody and grassy savannahs and on river banks. Host, *Beckeropsis uniseta*.

*Lefevrea leroyi* Burgeon

Sudan, Equatoria, Loka forest, 8—10.4.1963, 2 Ex.; Equatoria, Yambio, 18—25.4.1963, 1 Ex.

Distribution: Congo (Garamba National Park). Found in savannah, gallery and *Isobertina* forest on river banks. Hosts, the aerial parts of Gramineae esp. *Combretum* spp.

*Lefevrea* sp. nr. *leroyi* Burgeon

Sudan: Equatoria, Aloma Plateau, Yei-Iwatoka, 12—13.4.1963, 1 Ex.

*Lefevrea longelytrata* Burgeon

Sudan: Equatoria, Aloma Plateau, Yei-Iwatoka, 12—13.4.1963, 1 Ex. Distribution: Congo Kinshasa.

*Lefevrea moyoensis* Selman

Sudan: Equatoria, Aloma Plateau, Yei-Iwatoka, 12—13.4.1963, 1 Ex.

Distribution: Congo (Garamba National Park).

*Lefevrea* sp. 2.

Sudan: Equatoria, Ibba-Yambio, 16.4.1963, 1 Ex.

*Lefevrea* sp.? *tunguensis* Selman

Sudan: Equatoria, Aloma Plateau, Yei-Iwatoke, 12—13.4.1963, 1 Ex.

Distribution: Congo (Garamba National Park).

*Lefevrea pubiventris* Bryant

Sudan: Equatoria, Ibba-Yambio, 16.4.1963, 3 Ex.; Equatoria, Yambio, 18—25.4.1963, 3 Ex.; Equatoria, Yei-Maridi, 13.4.1963 (at light), 1 Ex.; Equatoria, Senambio, 14—15.4.1963, 1 Ex.; Equatoria, Imatong Mts. nr. Gilo, 18—24.4.1963, 1 Ex.

Distribution: Congo (Albert National Park), Uganda.

## Tribe Adoxini

*Pachnephorus conspersus* Gerstaecker

Sudan: Ed Damer, 5—10.7.1961, 2 Ex.; 27—30.10.1962, 2 Ex.; Bahr el Ghazal, Wau, 19.2.1963, 3 Ex.; Blue Nile, Issangana Mts., 17—22.11.1962, 1 Ex.; Hargeisa, 23—28.6.1963, 1 Ex.; Upper Nile, Malakal, 3—20.1.1963, 4 Ex.; Dibeira, W. Halfa distr. 1.10.1962, 1 Ex.; collected S. Panellius; Blue Nile, Umm Banein, 14.11.1962, 1 Ex.; Blue Nile, Singa-Damazin, 15—17.11.1962, 1 Ex.; Wad Medani, 26—28.6.1961, 1 Ex.; Khartoum, 30.6—3.1961, 1 Ex.

Somalia: Hargeisa, 23—28.6.1963, 1 Ex.

Distribution: Tanganyika, Congo (Garamba, Upemba and Albert National Parks).

*Scelodonta albidovittata* Baly.

Sudan: Equatoria, Maridi-Ibba, 16.4.1963, 1 Ex.; Equatoria, Yambio, 18—25.4.1963, 2 Ex.

Distribution: Tanganyika, Congo (Garamba and Upemba National Parks). Found in and on the edge of gallery forest and in woody savannah especially on low sunloving plants in marshy clearings.

*Scelodonta parcepilosa* Burgeon.

Sudan: Equatoria, Yambio, 18—25.4.1963, 1 Ex.

Distribution: Congo.

*Scelodonta raffrayi* Lefevrea

Ethiopia: nr. Lake Langano, 6.6.1963, 2 Ex.

Distribution: Ethiopia.

*Scelodonta wittei* Burgeon

Sudan: Behr el Ghazal, Rumbek-M'Boloko, 22.2.1963, 1 Ex.; Bahr el Ghazal, Godatir, 19.2.1963, 3 Ex.; Blue Nile, Abu-Hashim-Galegu, 23—24.11.1962, 1 Ex.; Blue Nile, Ingassana Mts. 17—22.11.1962, 1 Ex.; Kordofan, nr. Babanusa, 15.2.1963, 1 Ex.; Kassala, Abend Pass, 5.12.1962, 1 Ex.

Ethiopia: Jijiga, 23.6.1963, 1 Ex.

Somalia: Hargeisa-Berbera, 25—27.6.1963, 1 Ex.

Erithrea: Massawa, 27—20.5.1963, 1 Ex.

Distribution: Congo Brazzaville and Congo Kinshasa.

*Pseydocolaspis chrysites*

Gerstaecker

Ethiopia: nr. Lake Zuai, 6.6.1963, 1 Ex.

Distribution: Tanganyika, Mozambique.

*Macrocoma lefevrey* Baly

W. Aden Prot.: nr. Lahej, 9—15.7.1963, 1 Ex.

Distribution: Arabia and Persia.

*Macrocoma leprieuri* Lefevrea

Sudan: Port Sudan, 25—27.10.1962, 1 Ex.; Equatoria, Kapoeta-Boma, 26—27.3.1963, 1 Ex.; Kordofan, Tendelti-Umm Ruwaba, 25.1.1963, 1 Ex.

Ethiopia: Awash, 8.6.1963, 1 Ex.

Somalia: Hargeisa, 23—28.6.1963, 1 Ex.

Distribution: Algeria.

*Dicolectes rugulosus* Lefevrea

Sudan: Equatoria, Maridi-Ibba, 16.4.1963, 1 Ex.

Distribution: Congo (Garamba National Park).

*Eryxia holosericea* Klug

W. Aden Prot.: nr. Lahej, 9—15.7.1963, 1 Ex.

Distribution: Senegal, Gabum, Congo Brazzaville.

*Eryxia ritchiei* Bryant

Sudan: Equatoria, Kapoeta-Boma, 26—27.3.1963, 3 Ex.

*Eryxia* sp. 1.

Erithrea: Dogali-Ailet, 26.5.1963, 1 Ex.

## Tribe Colaspoidini

*Platycorynus compressicornis*

Fabricius

Sudan: Equatoria, Yambio, 18—25.4.1963, 3 Ex.

Distribution: Throughout west, central and east Africa including Congo (Garamba and Albert National Parks). Found on bushes on the edge of dense gallery forest.

*Platycorynus cribratellus*

Fairmaire.

Ethiopia: nr. Lake Zwai, 6.6.1963, 1 Ex.; Coca, artificial lake, 6.6.1963, 3 Ex.

Distribution: Uganda, Kenya, Ethiopia, S. Sudan, Niam Niam, Congo, (Garamba National Park). Found in or

on the edge of dense gallery forest in light shade.

*Platycorynus dejeuni* Bertoloni

Ethiopia: Belleta Forest, 13—14.6.1963, 1 Ex.

Distribution: East Africa from Kenya to Cape Province, S. Africa, Central Africa, Congo (Upemba National Park).

## References

- SELMAN, B. J. 1965: A revision of the Nodini and key to the genera of Eumolpidae of Africa (Coleoptera: Eumolpidae). — Bull. Brit. Mus. Nat. Hist. 16:143—174.
- 1972: Eumolpinae (Coleoptera: Chrysomelidae). — Exploration du Parc National de la Garamba — Mission H. de Saeger (1949—52). 55:1—95.

## Litteratur

GRIFFITHS, G. C. D. 1972: The phylogenetic classification of Diptera Cyclorrhapha with special reference to the structure of the male praeabdomen. 340 sidor, 154 fig. — Dr. W. Junk N. V., Haag. Pris 126 mk.

Det är ingen liten uppgift, som den kanadensiska, ursprungligen brittiska, dipterologen G. C. D. Griffiths har gett sig in på i föreliggande bok. Han klassificerar här familjerna inom den taxonomiska enhet, Cyclorrhapha, till vilken det stora flertalet flugor hör och som utmärker sig genom att puparierna öppnar sig med ett runt lock vid kläckningen. I stort sett samma grupper behandlas av den kända tyska dipterologen prof. Willi Hennig, som lancerade den kladistiska teorin för fylogenetiska system. Griffiths, själv anhängare av Hennigs teorier in i minsta detalj, ändrar dock en hel del på Hennigs gruppering av flugfamiljerna. Som kategorier inom Brachyera använder han superfalang, falang, subfalang, infrafalang, superfamilj, och prefamilj för gruppering av familjerna, allt detta en följd av det kladistiska systemet. Härigenom kommer

till exempel infrafalangen Syrphidea (med familjerna Pipunculidae och Syrphidae) att bli av samma rang som Schizophora med 5 superfamiljer och inalles 71 familjer. I superfamiljen Muscoidea inplaceras de calyptrata flugorna mitt ibland acalyptrater. Schizophorernas system inleds med Lonchaeidae, de lauxanoida och drosophiloida familjerna, som kommer mycket senare i Hennigs system. De högre flugornas, schizophorernas, system har haft en barlast i form av alltför många små familjer. Detta har Griffiths i viss mån försökt råda bot på och slagit ihop ett 20-tal dylika med närstående familjer. Å andra sidan grundar han 8 nya eller till sin status nya familjer. Till exempel Heleomyziderna delar han på trenne familjer, vilka han placerar i olika prefamiljer. Griffiths bygger upp sitt system konsekvent på synapomorfa karaktärer och