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en collaboration avec

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Fascicule 30

COPRINAE
(COLEOPTERA LAMELLICORNIA)
Fam. **SCARABAEIDAE**

BY

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INTRODUCTION

The material, on which the present is based, was collected in the Garamba National Park (Old Belgian Congo Territory) (Map III).

This material consists of five tribes of *Scarabaeidae*, viz. : *Scarabaeini*, *Gymnopleurini*, *Canthonini*, *Coprini* and *Onitini*.

The present work is divided into four parts : the first one contains the key to the genera of *Coprinae* present in the Old Belgian Congo Territory; the second one the faunistic concentration of the *Coprinae* in the Old Belgian Congo Territory; the third part the faunistic concentration of the *Coprinae* in the Garamba National Park, and the Scarabaeids collected by the H. DE SAEGER Expedition in this Park; the fourth part contains descriptions of some new species.

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ABBREVIATIONS.

- G.D. = G. DEMOULIN.
H.D.S. = H. DE SAEGER.
J.V. = J. VERSCHUREN.
C. = Camerun.
N. = Natal.
P.N.A. = Parc National Albert.
P.N.G. = Parc National de la Garamba.
P.N.U. = Parc National de l'Upemba.
R.C. = Congo.
Tg. = Tanganyika.
B.M. = British Museum (Natural History), London.
I.P.N.C.B. = Institut des Parcs Nationaux du Congo et du Ruanda-Urundi, Bruxelles.
I.R.S.N.B. = Institut royal des Sciences naturelles de Belgique, Bruxelles.
M. Dr. = Staatliches Museum für Tierkunde, Dresde.
M.K. = M.U.K. — Naturhistorische Museum, Kiel.
M.P. = Muséum d'Histoire Naturelle de Paris.
M.R.C.B. = Musée Royal de l'Afrique Centrale, Tervuren.
M.Tr. = Museum of Tring.
M.Z.B. = Zoologisches Museum, Berlin.
N.R.S. = Naturhistoriska Riksmuseet, Stockholm.
S.A.M. = South African Museum, Cape Town.
I = Biological Cell I.
II = Biological Cell II.

The letters following the cell refers to the habitat where the specimens were collected and this may be found on maps I and II, on the horizontal and vertical axes; the numbers following refer to the habitat.

The designations used in chapter III-A are transcribed from the paper by H. DE SAEGER (1956), « Entomologie. Renseignements écobologiques », *Exploration du Parc National de la Garamba*, (5) : 8-19.

The significance of the designations used to the material, in chapter III-B, may be found in chapter III-A.

The species marked with an * are mentioned for the first time as found in the Congo.

CHAPTER I.

**Key to the genera of Coprinae presented in the Congo
(old Belgian Congo territory)**

1. Intermediate and hind tibiae elongated, not dilated or dilated at apex, but, in this case, dilated from base to apex. Hind femora elongated 2
- Intermediate and hind tibiae short and strongly dilated at apex. Hind femora short 6
2. Median coxae parallel or slightly oblique and far apart from each other. Metasternum very well developed between the median coxae 3
- Median coxae very oblique and close together, sometimes subcontiguous. Metasternum narrow between the median coxae 5
3. Antennae with eight or nine joints. Hind tibiae long, flat, generally curved inwardly and longitudinally carinate. Scutellum invisible or very small 4
- Antennae with eight joints, except in the genus *Afroharoldius* JANSSENS, whose antenna has nine joints. Hind tibiae very short, cylindrical, without longitudinal or strong carinae but dilated from base to apex. Scutellum invisible. Insects mirmecophil or termithophil (*ALLOSCELINI*) 39
4. Body not flat laterally. Antennae with nine joints. Anterior tarsi generally present. Median coxae slightly oblique and separated from lateral carina of the body. Sides of the pronotum regularly curved at base (*CANTHONINI*) Genus *Anachalcos* HOPE.
- Body flat laterally. Antennae with eight or nine joints. Anterior tarsi always present. Median coxae parallel and near the lateral carina of the body. Sides of the pronotum vertical (*SISYPHINI*) Genus *Sisyphus* LATREILLE.
5. Winged species. Anterior tarsi present. Elytra strongly concave laterally, exposing part of the dorsal segments. Median tibiae ending in one or two spurs (*GYMNOPLEURINI*) 9

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- Winged or apterous species. Anterior tibiae not present. Elytra non concave laterally. Median tibiae ending in one spur in the winged species (*SCARABAEINI*) 11
6. Second joint of the labia palpi longer than the first one; third joint very short, sometimes very rudimentary or absent. Elytra with eight or nine striae 7
- Second joint of the labial palpi shorter than the first; third joint always distinct. Elytra with eight or nine striae and one or two lateral carinae (*COPRINI*) 14
7. Antennae with eight joints. Pronotum without two basal median impressions. Elytra with eight striae. Anterior tarsi present in both sexes (*ONITICELLINI*) 29
- Antennae with nine joints. Pronotum with or without two median basal impressions. Elytra with eight or nine striae. Anterior tarsi present in both sexes or in the female only 8
8. Scutellum invisible. Pronotum without median basal impressions. Elytra with eight striae. Anterior tibiae with one terminal jointed spur, in both sexes. Anterior tarsi present in both sexes (*ONTHOPHAGINI*) 40
- Scutellum visible but very short. Pronotum generally with two median basal impressions. Elytra with nine striae and a supplementary ridge situated between the eighth and the ninth striae. Anterior tibiae with terminal spur, always fused with tibiae in the male. Anterior tarsi present in the male (*ONITINI*) 35
9. Metasternal epimeron clearly visible in the elytral concavity and forming, at the junction with the first abdominal sternite, a distinct suture, which forms inwardly a strong, transversal carina. Median tibiae ending in one or two spurs 10
- Metasternal epimeron not clearly visible in the elytral concavity fused with the first abdominal sternite, the suture being invisible or only marked by a lateral depression and does not form inwardly a strong carina. Median tibiae ending in one spur
Genus *Gymnopleurus* ILLIGER.
10. Median tibiae ending in two spurs, one of which is fused and very well developed, the other very short and articulate. Clypeus 4-dentate Genus *Garreta* JANSSENS.
- Median tibiae ending in one spur. Clypeus 4- or 6-dentate
Genus *Allogymnopleurus* JANSSENS.
11. Club of the antennae normal. One apical spur on the middle and hind tibiae 12

- Club of the antennae globose, the joints fitting into each other. Two apical spurs in the middle and hind tibiae
Genus *Sceliages* WESTWOOD.
12. Tarsi with two claws 13
— Tarsi with one claw Genus *Kheper* JANSSENS.
13. Anterior femora normal. Claws of the tarsi inserted at the end of the last joint which is straight or rounded ... Genus *Scarabaeus* LINNÉ.
— Anterior femora very strong, occupying nearly the whole prothorax. Claws of the tarsi insert at the oblique carina at the end of the last joint Genus *Pachylomera* KIRBY.
14. Hind tibiae not carinate transversally on the outer margin; outer margins smooth or creno-dentate (*PINOTINA*) 15
— Hind tibiae with a carina or a transverse edge on the outer margin, above the apex (*COPRINA*) 22
15. Mesosternum long and narrow. Abdominal sternites sometimes fused together or at least partially fused. First joint of the median and hind tarsi equal in length to that of the second joint 16
— Mesosternum short and wide. Abdominal sternites not fused. First joint of the median and hind tarsi longer than the second joint ... 17
16. Clypeus 4-dentate. Abdominal sternites with visible suture on a large part of its surface Genus *Paraphytus* HAROLD.
— Clypeus 2-dentate. Abdominal sternites smooth, with the suture absent Genus *Pedaria* CASTELNAU.
17. Antennae with eight joints. Body more or less elongated, with the sides generally parallel 18
— Antennae with nine joints. Body generally short and convex 21
18. First joint of the hind tarsi well developed, in length and width. First joint of the median tarsi wide and longer than all the others combined 19
— First joint of the hind tarsi wider than the second, joints gradually decreasing in length 20
19. First joint of the hind tarsi relatively short but very wide. Hind tibiae widened at apex Genus *Heteroclitopus* PÉRINGUEY.
— First joint of the hind tarsi very large, elongated, four times as long and, at least, twice as wide as the second. Hind tibiae widened at apex, but longer than wide Genus *Pinacotarsus* HAROLD.
20. Joints of the tarsi strongly bilobed and incised at apex. Body elongated. Sides of the pronotum parallel Genus *Stiptopodius* HAROLD.

- Joints of the tarsi flat and elongated. Body a little elongated. Sides of the pronotum round Genus *Saproecius* PÉRINGUEY.
21. Clypeus 4-dentate, the median teeth stronger than the lateral. Pronotum not excavated anteriorly. Anterior tibiae not or little serrate outwardly, before the big teeth. Median and hind tibiae widening regularly from the base to the apex ... Genus *Delopleurus* ERICHSON.
- Clypeus deeply incised and divided in two triangular saliences. Pronotum sometimes excavate anteriorly. Anterior tibiae denticulate or serrate outwardly, before or between the big teeth. Median and hind tibiae strongly widened at apex Genus *Coptorhina* HOPE.
22. Prothoracic episternum without transversal carina arising from the procoxal cavity. Eighth stria of the elytra always carinate, totally or partially; seventh stria sometimes carinate 23
- Prothoracic episternum with a transversal carina arising from the procoxal cavity. Seventh and eighth striae of the elytra non carinate 26
23. Apical part of the prosternal apophysis sub-carinate at distal one-third. Apical margin of the pronotum not marginate. Scutellum short, but very distinct between the elytra. Eighth stria carinate, but only at distal one-third. Sixth abdominal sternite wide, the length of the median part equal to the 3rd-5th sternites combined
Genus *Copridaspidus* BOUCOMONT.
- Apical part of the prosternal apophysis carinate. Apical margin of the pronotum marginate. Scutellum not distinct between the elytra. Seventh or eighth stria of the elytra carinate. Sixth abdominal sternite narrow, the length of the median part always smaller than the length of the joints 3-5 combined 24
24. Seventh stria of the elytra carinate. Metasternum anteriorly not curved. Mesosternal epimeron not carinate above. Procoxal cavity not marginate behind. Mentum strongly incised in the middle, forming two lobes ...
Genus *Heliocopris* HOPE.
- Seventh stria of the elytra not carinate; eighth stria of the elytra carinate, or only at the basal two-third or on nearly the extension of its length. Metasternum anteriorly angulose. Mesosternal epimeron carinate above. Procoxal cavity marginate behind. Mentum without two lobes, slightly incised at middle Genus *Catharsius* HOPE. 25
25. Ventral face of the anterior tibiae with three long, oblique and sub-parallel carinae. Large species Subgenus *Catharsius* s. str.
- Ventral face of the anterior tibiae marginate, the margin denticulate, near the outer border of the tibia. Small species
Subgenus *Metacatharsius* PAULIAN.

26. Sixth abdominal sternite well developed; the length of the median part the same size as the length of the joints 2-5 combined 27
 — Sixth abdominal sternite narrow; the length of the median part always very much shorter than the length of the sternites 2-5 combined
 Genus *Copris* GEOFFROY. 28
27. Elytra with 8 striae. Third and fourth outer teeth of the anterior tibiae very close together and these two widely separated from the second outer tooth. Anterior femora and trochanters normal. Body little convex Genus *Pseudopedaria* FELSCHÉ.
 — Elytra with 9 striae, of which the 9th is incomplete at the basal half. Outer teeth of the anterior tibiae normal and not combined in groups. Anterior femora with an anterior elevated edge, which is separated from the femoral surface by a deep groove. Anterior trochanters with an elevated edge. Body strongly convex
 Genus *Pseudocopris* FERREIRA.
28. Straight anterior tibiae at apical margin, this margin forming, with the inner margin of the tibiae, a right angle. Trochanters of the anterior tibiae nearly always salient. Head without tubercles, horns or carinae in both sexes, slightly gibose in the centre
 Subgenus *Litocopris* WATERHOUSE.
 — Anterior tibiae oblique at apical margin; this margin not forming with the inner margin of the tibiae a right angle. Trochanters normal. Head with tubercles, horns or carinae, more or less developed
 Subgenus *Copris* s. str.
29. Prosternal salience prolonged distally in an apophysis more or less developed between the procoxae. Eighth stria of the elytra not carinate. Hind coxae contiguous Genus *Oniticellus* SERVILLE.
 — Prosternal salience not produced between the procoxae. Eighth stria of the elytra carinate. Hind coxae non contiguous 30
30. Epipleurae of the elytra absent or very narrow. Hind margin of the pronotum not forming an angular and produced lobe, behind the scutellum 31
 — Epipleurae of the elytra very developed, wider than the two outer interstriae of the elytra, at base. Hind margin of the pronotum forming an angular and produced lobe in front the scutellum
 Genus *Drepanoplatynus* BOUCOMONT.
31. Base of the pygidium not carinate. Pubescence simple. Median tibiae transversally carinate. Hind tibiae transversally carinate or not, but in this latter case with long spines, irregularly spaced 32

- Base of the pygidium carinate. Pubescence scale-like. Median and hind tibiae not transversally carinate, but strongly spinous
Genus *Drepanocerus* KIRBY.
32. Metasternum without raised lines forming a carina. First joint of the hind tarsus slightly dilated and a little longer than the other joints combined; second, third, fourth and fifth joints subcylindrical or subtriangular 33
- Metasternum having on the middle of the anterior half two raised lines forming a carina. First joint of the hind tarsus strongly dilated and much longer than the other joints combined; second, third, fourth and fifth joints short and wide Genus *Tragiscus* KLUG.
33. Striae of the elytra geminate. Hind tibiae not transversally carinate, but with long spines, irregularly spaced. Apex of the median and hind tibiae without setigerous hairs very closed together but with very long spines, irregularly spaced along it. Inner and outer margin of the first joint of the median and hind tarsi irregularly spinose; the margins of the other joints without spines or hairs, but the upper margin of each joint irregularly spinose
Genus *Tiniocellus* PÉRINGUEY.
- Striae of the elytra normal, not geminate. Hind tibiae transversally carinate, the carina with setigerous hairs. Apex of the median and hind tibiae with setigerous hairs very closely arranged. Inner and outer margin of the joints of the median and hind tarsi with simple or setigerous hairs 34
34. Body oblong. Lateral margin of the pronotum not sinuose in front of the posterior angles. Base of the pronotum not marginate. Inner margin of the median and hind tibiae pubescent
Genus *Euoniticellus* JANSSENS.
- Body not oblong. Lateral margin of the pronotum sinuose in front of the posterior angles. Base of the pronotum not marginate. Inner margin of the median and hind tibiae pubescent
Genus *Liatongus* REITTER.
35. Length of the median and hind tarsi normal 36
- Median and hind tarsi (especially the median ones) very long
Genus *Gilletellus* JANSSENS.
36. Metasternum plane, surplane or slightly carinate or longitudinally impressed on middle, this impression not limited by elevated carina forming edges 37
- Metasternum with a median longitudinal wide and deep impression, the lateral margins of this impression elevated and forming angular edges Genus *Allonitis* JANSSENS.

37. Prosternum sharp or a little produced behind of the anterior coxae ...
Genus *Onitis* FABRICIUS.
- Prosternum very produced behind the anterior coxae 38
38. Without clypeal carina. Vertex of the females with a tubercle near the posterior margin Genus *Lophodonitis* JANSSENS.
- With clypeal carina. Vertex of the females with a large ridge dentate at apex Genus *Heteronitis* GILLET.
39. Antennae with nine joints. Joints of the tarsi fusiform; the basal joint shorter than the following one Genus *Afroharoldius* JANSSENS.
- Antennae with eight joints. Joints of the tarsi cylindrical and almost equal Genus *Alloscelus* BOUCOMONT.
40. Apex of the anterior tibiae not truncate, the anterior margin forming a distinctly concave line or sinuose and generally oblique 41
- Apex of the anterior tibiae truncate, the anterior margin forming along its whole length a straight line perpendicular to the inner side of the tibiae, with or without very slight concavity in the upper margin ... 42
41. Head with two anterior transversal carinae, joined by a short longitudinal carina. Genae divided obliquely by a curved and fine carina. Punctuation of the pronotum always simple
Genus *Milichus* PÉRINGUEY.
- Head without anterior transversal carinae, joined by a short longitudinal carina. Genae not divided by a carina. Punctuation of the pronotum simple or not 43
42. Sides of the prosternum with two careniform lines which meet at the anterior angles Genus *Caccobius* THOMSON.
- Sides of the prosternum with one careniform line directed to the lateral margin Genus *Caccophilus* JEKEL.
43. Pronotum generally round, or nearly, at base, rarely forming at middle of the base, a pronounced angle, but in this case the epistoma is 2-dentate or the elytra are light with black spots
Genus *Onthophagus* LATREILLE.
- Pronotum forming, at middle of the base, a pronounced angle, this angle forming a beade. Epistoma not 2-dentate; elytra not light with black spots 44
44. First joint of the labial palpi not dilated. Elytra generally metallic, rarely brown or black Genus *Proagoderus* LANSBERGE.
- First joint of the labial palpi inwardly dilated with a large triangular tooth. Elytra brown or black Genus *Diastellopalpus* LANSBERGE.

CHAPTER II.

**The faunistic concentration of the "Coprinae" in the Congo
(old Belgian Congo territory)**Tribe **SCARABAEINI**.Subtribe **SCARABAEINA**.Genus **SCARABAEUS** LINNÉ.

- S. ebenus* (KLUG) var. *sericeipennis* FAIRMAIRE.
R.C. : Sebinga.
- S. gangeticus* (CASTELNAU).
R.C. : P.N.A. (Vitshumbi, Kalinga, Kabare, Kamande, Katanda, Tshambi), Lusambo.
- S. gangeticus* (CASTELNAU) ssp. *profanus* BOHEMAN.
Ruanda : Kibungu.
- S. kwiluensis* JANSSENS.
R.C. : Leverville.
- S. poggei* (WATERHOUSE).
R.C. : Luashi.
- S. sulcipennis* (QUEDENFELDT).
R.C. : Kasai.

Genus **KHEPER** JANSSENS.

- K. festivus* (HAROLD).
R.C. : P.N.U. (Kaswabilenga, Mubale, Mabwe, Kankunda, Kateke river, Ganza [1.860 m], Kamandula, Bowa river, Kilwezi, Kaziba, Munoi, Dipidi, Kabwe, Mukana, Shinkulu, Kimilombo, Lufwa river, Kamamulongo river, gorges de la Pelenge, Kabenga, Kimiala, Lusinga, Lupiala, Kafwe river), Lulua (Kapanga, Tshipaza), Katanga (Kindu), Ubangi (Basobolo).
- K. festivus* (HAROLD) var. *vanderkelleni* (LANSBERGE).
R.C.

K. intermedius (GILLET).

R.C. : P.N.U. (Kalele river, Lusinga, Dipidi river, Mukana, Mubale, Kimilombo, Kapelwa river, Kabwekanono, Kaswabilenga, Kalumengongo, Kankunda, Kafwe, Dipidi, Kamitungulu, Ngozie).

K. lamarcki (M^{LEAY}).

R.C. : Kwilu, Katanga, Kimwenza, Boma, Lusambo, Bokoro.

K. prodigiosus (ERICHSON).

R.C. : Katanga, Moanda, Boma.

K. pustulosus (GERSTAECKER).

R.C.

K. subaeneus (HAROLD).

R.C. : lac Albert.

K. subaeneus (HAROLD) var. *atratus* GILLET.

R.C. : P.N.G.

Genus **PACHYLOMERA** KIRBY.*P. femoralis* KIRBY.

R.C. : Kivu, Bukavu, Lusambo.

Genus **SCELIAGES** WESTWOOD.*S. augias* GILLET.

R.C. : P.N.U. (Kankunda, Mukana, Kapelwa river).

Tribe **GYMNOPLEURINI**.Genus **GYMNOPLEURUS** ILLIGER.*G. coerulescens* OLIVIER.

R.C. : Kimvula, Uele (Ibembo), Paulis, P.N.G. (Mabanga, mont Embe).

G. colmanti JANSSENS.

R.C. : Sassa.

G. fulgidus OLIVIER.

R.C. : Kisenyi.

G. ignitus KLUG var. *nigrocupreus* JANSSENS.

R.C. : Kwango.

G. jacksoni WATERHOUSE.

R.C. : P.N.U. (Lusinga, Mubale river, Kankunda, Mukana, Kabwekanono, Ngozie, Dipidi river, Kafwe river, Kalumengongo, Kenia, Buye-Bala, Kaswabilenga, Kapelwa river, Mabwe), Gandajika, Kapanga, Kafakumba, Muteba, Mayidi, Kiliba, Mulche, Mukolosimba, Albertville, Bokalakala, Kundelungu.

G. sericeifrons FAIRMAIRE var. *cyaneus* KOLBE.

Ruanda-Urundi : Nduga, Nyamasumu.

G. virens ERICKSON.

R.C. : P.N.U. (Kaswabilenga, Mabwe, Kilwezi, Kiamokoto, Kiwakishi, Kateke), Gandajika, Kapelekese river, Kapanga, Kafakumba, Muteba, Mayidi, Kiliba, Mulche, Maniema, Albertville, Bokalakala (Bolobo).

Genus **GARRETA** JANSSENS.*G. azureus* (FABRICIUS).

R.C. : Kapanga, Kafakumba, Lusambo, Bokuma, Yangambi, Kibaro, Kigwena, Ishambi, Molindi river, Kitumba, P.N.U. (Kankunda, Kaswabilenga, gorges de la Pelenge, Kateke river, Kaziba, Katanda), P.N.A. (May ya Moto, Mabenga, Rwindi, Vitshumbi).

Ruanda-Urundi : Gitarama.

G. azureus (FABRICIUS) ab. *rubrocupreus* JANSSENS.

Ruanda-Urundi : Gitarama, Usumbura.

G. azureus (FABRICIUS) var. *viridimicans* KOLBE.

R.C. : lac Albert, Bokuma, Kapanga, Bosondongo (Ikela), Kisenyi, Nyamurembe.

G. basilewskyi BALTHASAR.

R.C. : Ikela, Bokuma (Tshuapa); Kapanga (Lulua).

G. crenulatus (KOLBE).

R.C. : Uele, lac Albert, Rutshuru, Mabenga.

G. malleolus (KOLBE).

R.C. : Katanga, P.N.U. (Lusinga, Kabwekanono, Dipwa river, Mubale, Mukana, Dipidi river, Kenia, Kafwe river, Manda, Buye Bala, Kapelwa river, Ngozie, Kalumengongo, Kimilombo, Munoi, Kamitangulu river, Mabwe, Kaswabilenga, Kundelungu).

Ruanda-Urundi : Nduga, Ndiza, Gitarama.

G. nitens (OLIVIER) var. *coeruleovirens* (KOLBE).

R.C. : P.N.U. (Kaswabilenga, Mabwe), P.N.G.

Genus **ALLOGYMNOPLEURUS** JANSSENS.*A. alluaudi* (GARRETA).

R.C. : P.N.A. (Vitshumbi, Kalinga, Tshambi, Kamande, Katanda, Rwindi), Kundelungu, Shonga.

Ruanda-Urundi : Nduga, Rukoma, Astrida, Kitega.

- A. chloris* (KLUG).
R.C. : Kapanga, Kafakumba, Albertville.
- A. umbrinus* (GERSTAECKER).
R.C. : P.N.G.

Tribe SISYPHINI.

Genus **SISYPHUS** LATRELLE.

- S. armatus* GORY.
Ruanda-Urundi : Rubengera, Ndiza, Rukoma, Gitarama.
- S. costatus* THUNBERG.
R.C. : Stanleyville, Haut-Uele, P.N.A. (Rutshuru).
- S. crispatus* GORY.
R.C. : Uele, Kivu, P.N.A. (Vitshumbi, Katanda, Bitale).
Ruanda-Urundi : Gitarama, Rubengera, Nduga, Rukoma.
- S. rugosus* GORY.
R.C. : P.N.A. (Vitshumbi, Rwindi).
- S. seminulum* GERSTAECKER.
R.C. : Lomami, Uele, Kivu, P.N.A. (Rwindi), N. Kivu (Keshero), Lulua (Kapanga).
- S. spinipes* THUNBERG.
R.C. : Costermansville, Luvungi, P.N.A. (Vitshumbi, Katanda, Kanyabayongo, Ninda, Tshamugussa).
Ruanda-Urundi : Shangugu, Rubengera, Rukoma, Ndiza, Nduga, Gitarama.

Tribe ALLOSCELINI.

Genus **ALLOSCELUS** BOUCOMONT.

- A. paradoxus* BOUCOMONT.
R.C. : Moto.

Genus **AFROHAROLDIUS** JANSSENS.

- A. ennearthrus* JANSSENS.
R.C. : Élisabethville, Luluabourg.
- A. leleupi* JANSSENS.
R.C. : Kanzenze.
- A. modestus* JANSSENS.
R.C. : Kundelungu.

Tribe **CANTHONINI**.Genus **ANACHALCOS** HOPE.*A. aurescens* BATES.

R.C. : Bumbuli, Kasai, Bas-Uele, Haut-Ituri, Congo da Lemba, Tshibalaka, Tshipaza, Kapanga, Kabongo, Mutaka, Kasongo, Boma, Bokoro, Sankuru, Bokalakala (Bolobo), Iembo, Bas-Itombwe, P.N.G.

A. convexus BOHEMAN.

R.C. : P.N.U. (Mabwe, Kaswabilenga, road Kaswabilenga-Mabwe, Kateke, Kaziba, Kankunda, Mukana), P.N.G.

A. cupreus (FABRICIUS).

R.C. : P.N.A. (Mabenga, May ya Moto, monts Kasali), Kafakumba, Kapanga, Tshipaza, Uvira, Costermansville, Bokuma, Kigwena, Bosodongo, Yangambi, Bikoro, P.N.G.

Ruanda-Urundi : Nyamurembe.

A. procerus GERSTAECKER.

R.C. : P.N.U. (Mabwe, Kaswabilenga, Kateke, gorges de la Pelenge, Kankunda, Kabwe, Mubale, Dipwa river), Kapanga, région des Grands Lacs, Makamba.

Ruanda-Urundi : Nyamurembe, Usumbura, Kibungu.

Tribe **COPRINI**.Subtribe **PINOTINA**.Genus **PEDARIA** CASTELNAU.*P. armata* RAFFRAY.

Ruanda-Urundi : Gitarama, Rukoma.

P. criberima WATERHOUSE.

R.C.

P. intermedia BOUCOMONT.

R.C. : P.N.A. (Vitshumbi).

P. spinosa BOUCOMONT.

Ruanda-Urundi : Rubengera, Gitarama.

P. taylori WATERHOUSE var. *decorsei* BOUCOMONT.

Ruanda-Urundi : Gitarama, Rukoma, Nduga.

P. tuberculigera WATERHOUSE.

Ruanda-Urundi : Rukoma, Nduga.

P. wittei JANSSENS.

R.C. : P.N.A. (Vitshumbi).

Genus **COPTORHINA** HOPE.

- C. auspicata* PÉRINGUEY.
R.C. : Katanga.
- C. davidi* JANSSENS.
R.C. : Katanga (Ankoro), Kundelungu.
- C. nitidipennis* BOHEMAN.
R.C. : Katanga.
- C. optata* PÉRINGUEY.
R.C. : Katanga (Kafakumba).
- C. subaenea* JANSSENS.
R.C. : Élisabethville (Lubumbashi).

Genus **HETEROCLITOPUS** PÉRINGUEY.

- H. burgeoni* BOUCOMONT.
R.C. : Haut-Uele (Moto), Sassa.
- H. collarti* JANSSENS.
R.C. : Faradje.
- H. punctulatus* BOUCOMONT.
R.C. : Haut-Uele (Moto), Mayumbe (Kinanga).

Genus **PINACOTARSUS** HAROLD.

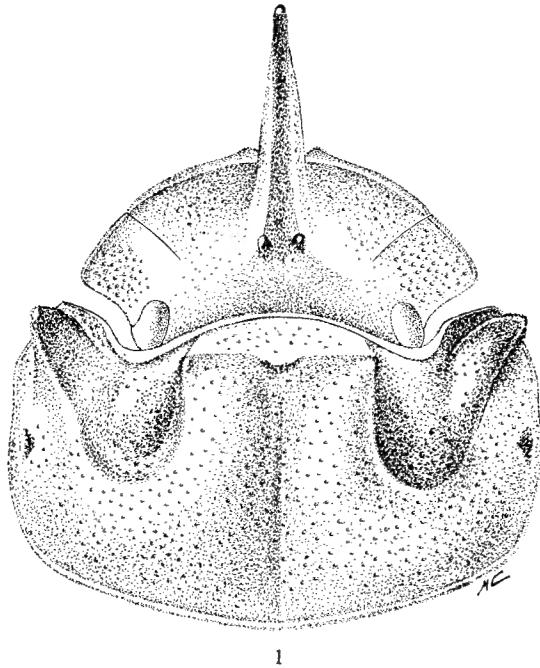
- P. tinantae* BOUCOMONT.
R.C. : Katanga (Élisabethville), Kundelungu.

Genus **STIPTOPODIUS** HAROLD.

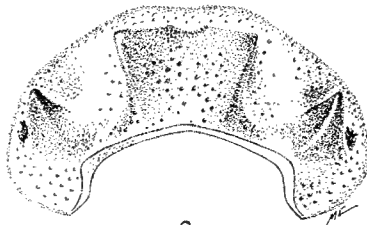
- S. cylindroides* (D'ORBIGNY).
R.C.

Genus **SAPROECIUS** PÉRINGUEY.

- S. hirsutus* BOUCOMONT.
R.C. : Kisantu, Mayumbe (Lolo-Mazinga).



1



2

FIGS. 1-2. — *Copris amabile* FERREIRA.

1 : Head and pronotum (type ♂), dorsal view.
2 : Pronotum (type ♂), anterior view.

Genus **DELOPLEURUS** ERICHSON.*D. gilleti* JANSSENS.

R.C. : Kasai (Luebo forest), Katanga (Lulua), Kapelekese river.

Genus **PARAPHYTUS** HAROLD.*P. ritsemae* (HAROLD).

R.C. : Kindu, Vieux Kasongo.

Subtribe **COPRINA**.Genus **COPRIS** GEOFFROY.Subgenus **COPRIS** s. str.*C. amabile* FERREIRA (Figs. 1, 2).

R.C. : Ruwenzori.

C. arcturus GILLET.

R.C. : Bambesa, Buta.

C. armiger GILLET (Figs. 24, 25).

R.C. : Kapanga, Lomami, Mutaka, Léopoldville, Élisabethville, P.N.U. (Kaswabilenga, Kateke, Kaziba, Mukana), P.N.G.

* *C. basilewskyi* n. sp. (Figs. 45, 46).

R.C. : Stanleyville.

C. bovinus GILLET (Figs. 3, 4).

R.C. : Léopoldville.

C. carmelita FABRICIUS (Fig. 26).

R.C. : Bambesa, Luma, P.N.G.

C. dracunculus FERREIRA.

R.C. : P.N.U. (Mabwe, Kanonga, Kafwe, Dipidi river, Buye Bala, Katongo, Lusinga, Mukana, Kabwekanono, Kalumengongo, Kundelungu), P.N.G.

C. elphenor KLUG.

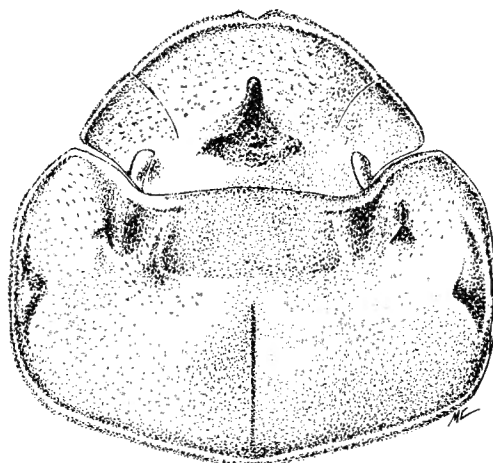
R.C. : P.N.U. (Mabwe, Kaswabilenga, Kateke, Léopoldville, Lusinga, Mukana, Kabwekanono).

* *C. gazellarum* GILLET.

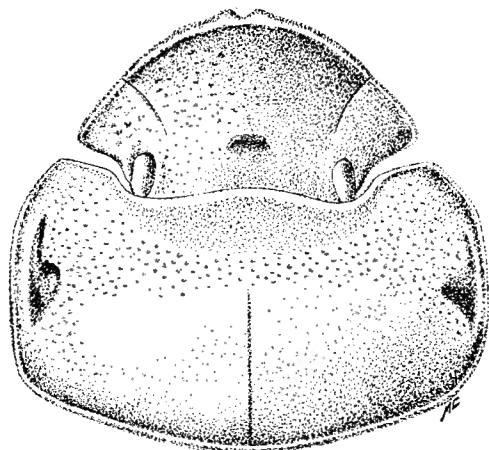
R.C. : P.N.G.

C. inhalatus QUEDENFELDT.

R.C. : Kalani river, Kapanga (Lulua), Luiza river (Katanga), Ngila (Sankuru), Ubungwe, Mubanga, Shamba (Kasai), Kwango (Popokabaka).



3



4

FIGS. 3-4. — *Copris bovinus* GILLET.

Head and pronotum, dorsal view.

1 : Type ♂. — 2 : Type ♀.

C. insidiosus PÉRINGUEY (Fig. 5).

R.C. : Mitwaba (Manono), Kundelungu (Katanga), Lubudi (Lualaba), Lomami (Mwene-Ditu), P.N.U. (Mabwe, Kaswabilenga, Kanonga, Lusinga, Kateke, Lufwa river, Dipidi, Buye Bala, Kamituno, Mukana, Kalumengongo).

Ruanda-Urundi : Gabiro, Bururi, Gitarama, Rukoma, Nduga, Ndiza, Kibungu.

C. integer REICHE.

R.C. : Bukavu, Kanyinya.

Ruanda-Urundi : Kibungu, Tshuruyaga, Gitarama, Rukoma, Nduga, Gatsibu, Kigali.

C. interioris KOLBE (Fig. 27).

R.C. : Bunia, Arara-Aru, Aru, Kanyinya, Bambesa, P.N.G.

* *Copris jucundus* GILLET (Figs. 28, 29).

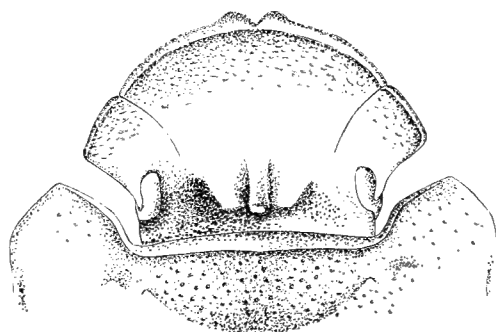
R.C. : P.N.G.

C. laius HAROLD.

R.C. : Bodokuda-Konhovongué.

C. laioides BOUCOMONT.

R.C. : Élisabethville, Mwene-Ditu, Lomami, Katanga.



5

FIG. 5. — *Copris insidiosus* PÉRINGUEY.

Head and pronotum (type ♂).

* *C. megaceratoides* WATERHOUSE.

R.C. : P.N.G.

C. mesacanthus HAROLD.

R.C. : P.N.U. (Kaswabilenga, gorges de la Pelenge, Kanonga, Kankunda, Dipwa river, Mubale, Lusinga, Mukana), P.N.G.

C. mesacanthus HAROLD var. *coriarius* GILLET.

R.C. : Kafakumba, Mahagi, P.N.G.

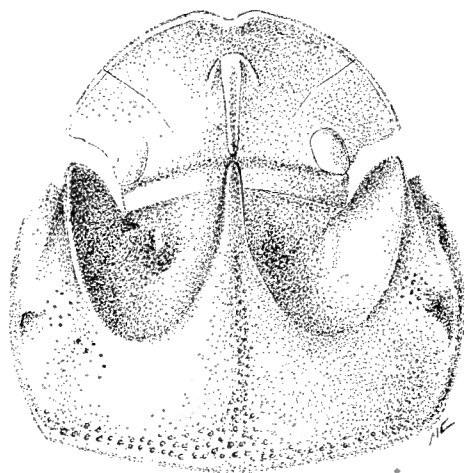
C. misellus PÉRINGUEY.

R.C. : P.N.U. (Kaswabilenga, Kanonga, gorges de la Pelenge, Kankunda, Dipwa river, Mubale, Lusinga, Mukana).

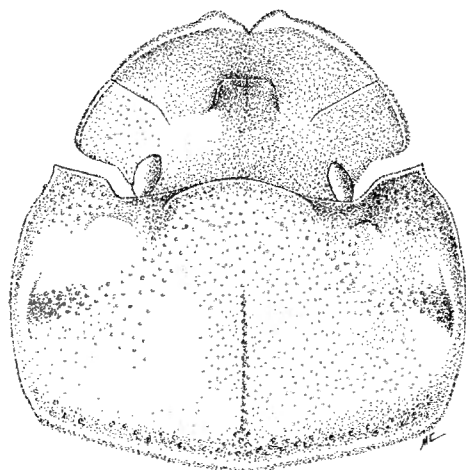
C. moffartsi GILLET (Figs. 30, 31).

R.C. : Kisantu, Akini (Aru), Levi, Bambesa, Demu (Kibali-Ituri), Tukpwo (Uele), Rutshuru, P.N.G.

Ruanda-Urundi : Nduga, Usumbura, Tshuruyaga, Gitarama, Rukoma, Kibungu, Kitega.

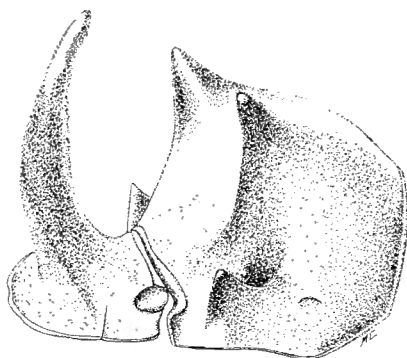


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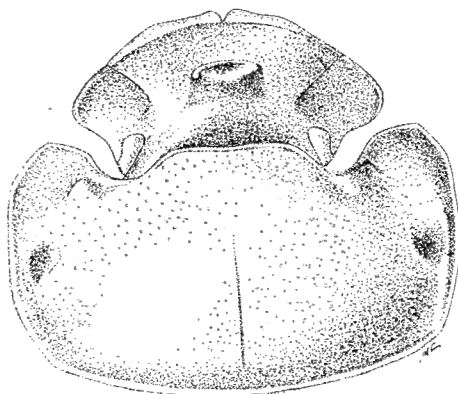


7

FIGS. 6-7. — *Copris tridens* FELSCHÉ.
Head and pronotum, dorsal view.
6 : Type ♂. — 7 : Type ♀.



8



9

FIGS. 8-9. — *Copris wiesei* KOLBE.

Head and pronotum.

8 : Type ♂, lateral view. — 9 : Type ♀, dorsal view.

C. nepos GILLET.

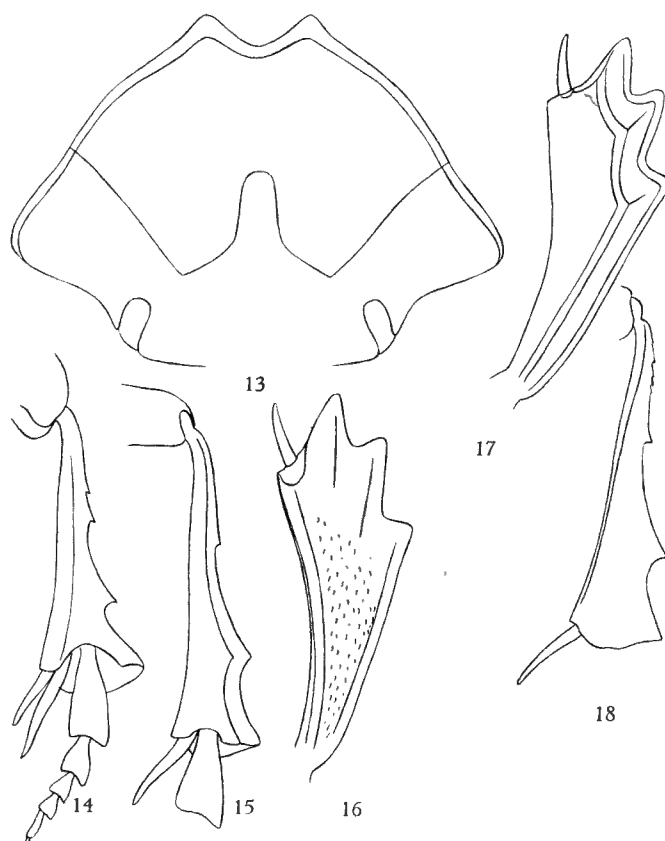
R.C. : P.N.A. (Kalinga, Kamande-Kanyazi, Burunga-lake Mokoto, Kamatembe, Binza-N.E. Rutshuru, Munagana, Muhavura-Burambi, Kanyabayongo, Kibga-S. Vishoke, Bweza, Tshamugussa), Nioka, Kilo-Mines, Bunia (Ituri), Nyakasiba, Logo, Bukavu, Mulungu, Blukwa, Élisabethville.

Ruanda-Urundi : Bururi, Nduga, Ndiza, Astrida, Gitarama, Rukoma, Ninda.

C. orion KLUG.

R.C. : Luluabourg, Albertville, Butiaba, Lulua, Manzadi, Levi, Bukavu, Bambesa, Kaniama, Sandoa, Kafakumba, Bunia, Lomami, Rwankwi, P.N.G.

Ruanda-Urundi : Gitarama, Rukoma, Kitega, Nioka, Bukoma.



FIGS. 13-18. — *Copridaspidus peregrinus* (HAROLD).

13 : Head and pronotum (type ♂). — 14 : Intermediate tibia and tarsus.
15, 18 : Posterior tibia. — 16, 17 : Anterior tibia.

C. orphanus GUÉRIN (Figs. 32, 33).

R.C. : Tshibinda, Élisabethville, Bukavu, P.N.A. (Kisenyi, Kalinga, Vitshumbi, Burunga, Munagana, Burambi, Ninda, May ya Moto, Kanyabayongo, Katanda, Rutshuru, Nyiragongo, Mushumangabo, Tshamugussa), P.N.G.

Ruanda-Urundi : Gitarama, Dendezi, Rubengera, Tshuruyaga, Rukoma, Ndiza, Kibungu, Astrida, Kisenyi, Kitega, Nioka, Arara, Ngowa, Keshero (Goma).

C. overlaeti BALTHASAR.

R.C. : Muteba, Kapanga (Lulua).

C. phylax GILLET.

R.C. : Sassa, Bambesa.

C. tridens FELSCHÉ (Figs. 6, 7).

R.C. : Bambesa, N. lake Kivu (Rwankwi).

C. wiesei KOLBE (Figs. 8, 9).

R.C. : P.N.A. (Kalinga, Burunga-lake Mokoto, Kamatembe, Nyarusambo-Mikeno, Bitashimwa-mont Sesero, Munagana, Burambi-Muhavura, Kundhuru ya Tshuve, Ninda, Binza-N.E. Rutshuru, Kanyabayongo-Kabasha, Ruhengeri, Mabenga-mont Kasale, lake N'Gando, Kibga, Nyabirehe-Karisimbi, Mudende-lake N'Gando, Mugongo-lake N'Gando, Bugeshi-lake N'Gando, Mayumbu forest-Nyamuragira, Binza, Tshamugussa), Rwankwi.

Ruanda-Urundi : contrefort Est Muhavura, Ndiza, Kinazi.

Subgenus **LITOCOPRIS** WATERHOUSE.*L. muticus* BOHEMAN.

R.C. : P.N.U. (Mabwe, Molindi river, May ya Moto, Katanda, Binga, Kaswabilenga, Kanonga, Lukawe, Mateke, Kaziba, Lusinga, Mukana), Bambesa, Léopoldville, Butiaba, Kanyinya, P.N.G.

Ruanda-Urundi : Kibungu, Kitega.

L. punctiventris WATERHOUSE.

R.C. : P.N.G.

Ruanda-Urundi : Tshuruyaga, Gitarama, Rukoma, Nduga, Ndiza, Usumbura.

L. ruandanus BALTHASAR.

Ruanda : Astrida.

Genus **COPRIDASPIQUS** BOUCOMONT.*C. peregrinus* (HAROLD) (Figs. 13-18).

R.C. : Mutaka, Tshibamba, Kapanga, Mwene-Ditu.

Genus **PSEUDOCOPRIS** FERREIRA.*P. tubericollis* (FELSCHÉ).

R.C. : Kaniama, Tshibalaka, Kapanga, P.N.U. (Buye-Bala, Dipidi, Mukelengia, Lusinga, Kapelwa, Kamitunu, Mukana, Kalumengongo).

Genus **PSEUDOPEDARIA** FELSCHÉ.*P. grossa* (THOMSON).

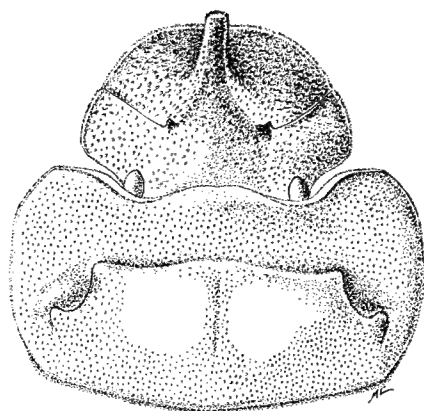
R.C. : Kambowe.

Genus **CATHARSIUS** HOPE.*C. achates* OLIVIER (Figs. 10, 11).

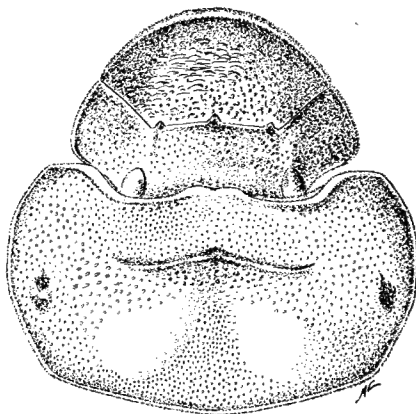
R.C. : Kibali-Ituri (Aru).

* *C. alphaeus* GILLET.

R.C. : P.N.U., Kapanga.



10



11

FIGS. 10-11. — *Catharsius achates* OLIVIER.

Head and pronotum, dorsal view.

10 : Type ♂. — 11 : Type ♀.

C. approximans KOLBE.

R.C. : Mukenge.

C. balubanus KOLBE.

R.C. : Balubaland.

C. biconifer FELSCH (Fig. 12).

R.C. : Kapanga, Lodja, Sankisia.

C. bicornutus KOLBE.

R.C.

* *C. brevicornis* FELSCHÉ (Fig. 34).

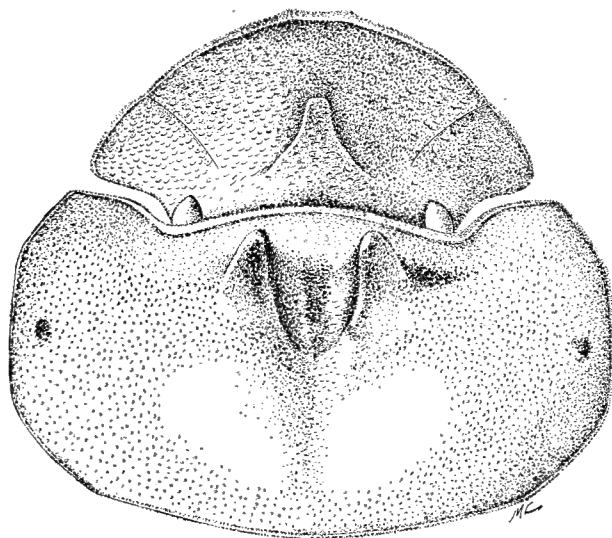
R.C. : P.N.G.

C. cassius KOLBE.

R.C. : Banana.

C. duciformis FERREIRA.

R.C. : P.N.U. (Kaziba, gorges de la Pelenge, Mubale, Munoi a Lupiala).



12

FIG. 12. — *Catharsius biconifer* FELSCHÉ.
Head and pronotum (type ♂), dorsal view.

C. dux HAROLD (Fig. 35).

R.C. : Mwene-Ditu, Mayidi, Kapanga, Tshibamba, Muteba, Kafakumba, Tshibalaka, Isangi, Arara-Aru, Nioka, Yangambi, Bokoro, Lemfu, Luebo-Kamina, Kisantu, Tshibala, Djeka, Luebo, Katoka-Luluabourg, Lualaba-Kabongo, Bokuma, Lokandu, Port-Francqui, Ekoli, Kunungu, Mpese, Bosekele, Bokungu, Bambesa, Lusambo, Kinguingi, rég. Lisala, Mukila, Uele, Kingungi, Stanleyville, Matadi, Léopoldville, Moanda, Boende, Flandria, Lubudi, Eala, Katoka, Luma (Djalasiga), Kabwe, Tumba, Baudoinville, Luashi, Kinda, P.N.G.

C. eteocles CASTELNAU.

R.C. : P.N.G.

* *C. garambae* n. sp. (Fig. 51).

R.C. : P.N.G.

C. gorilla THOMSON.

R.C. : Lundu, Ekoti, Banana, Kapanga, Bokungu, Nioka, Bokuma, Luma.

C. gorilloides FELSCHÉ (Fig. 19).

R.C. : Stanley pool.

C. neptunus KOLBE.

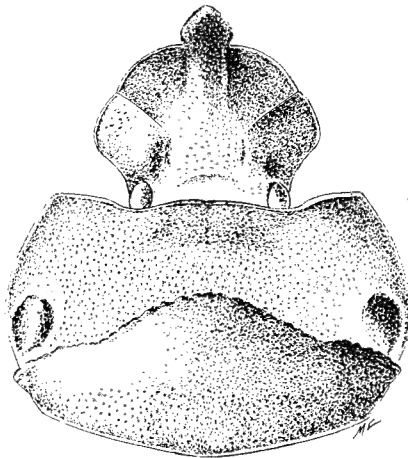
R.C. : P.N.A. (Kalinga, Tshambi, Binza, Ndeko).
Ruanda-Urundi.

C. ninus GILLET (Figs. 36, 37).

R.C. : Stanley pool, Stanleyville, P.N.G.

C. pandion HAROLD (Fig. 20).

R.C. : P.N.U. (Kaswabilenga, Kateke, Kankunda), Kafakumba.



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FIG. 19. — *Catharsius gorilloides* FELSCHÉ.
Head and pronotum (type ♂), dorsal view.

C. phidias OLIVIER (Fig. 40).

R.C. : P.N.U. (Mabwe, Kanonga, Kilwezi, Kankunda, Kimiala, Sampwe, Kenia, Ngozie, Dipidi river, Lusinga, Kafwe, Katongo, Buye-Bala, Kapelwa, Mukana, Kabwekanono, Kalumengongo), Kundelungu, P.N.G.

C. platycerus KLUG (Figs. 38, 39).

R.C. : Rutshuru, mont Kasali, Katanda, Bambesa, Stanley pool, Katoka, P.N.G.

C. platynotus FELSCHÉ.

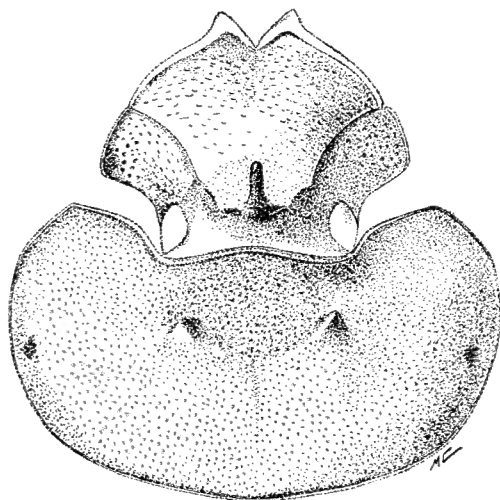
R.C. : P.N.U. (Mabwe, Kaswabilenga, Mukana), Ibembo, Bambesa.

* *C. polynices* KOLBE (Figs. 41, 42).

R.C. : P.N.G.

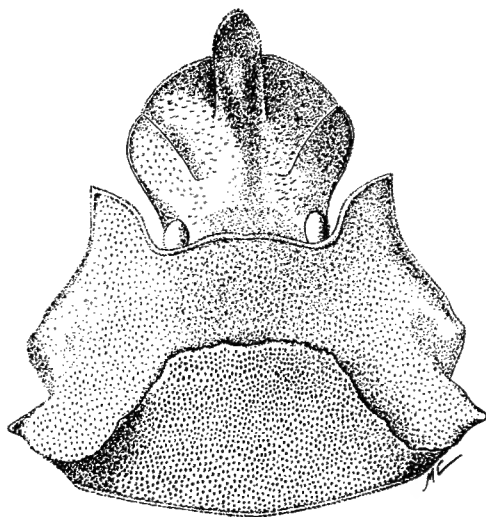
C. rhinocerus KLUG (Fig. 21).

R.C.



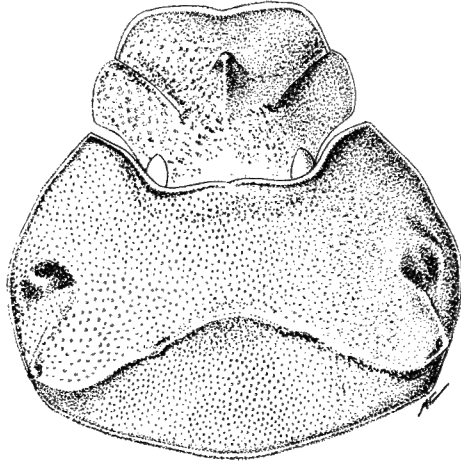
20

FIG. 20. — *Catharsius pandion* HAROLD.
Head and pronotum (type ♂), dorsal view.



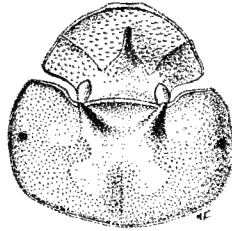
21

FIG. 21. — *Catharsius rhinoceros* KLUG.
Head and pronotum (type ♂), dorsal view.



22

FIG. 22. — *Catharsius spectabilis* GILLET.
Head and pronotum (type ♂), dorsal view.



23

FIG. 23. — *Catharsius tricornutus* DE GEER.
Head and pronotum (type ♂), dorsal view.

C. satyrus KOLBE.

R.C. : Kapanga, Lubudi, P.N.U. (gorges de la Pelenge, Mubale, Kabwe river).

* *C. saegeri* n. sp. (Fig. 52).

R.C. : P.N.G.

C. sesostris WATERHOUSE.

R.C. : P.N.A. (Bitashimwa, Munagana, Kalinga, Ninda, Burambi, Gahinga, Mayumbu forest, Kaswabilenga, Kateke, Kankunda, Lusinga, Mukana, Vitshumbi, Katanda, Tshambi, Kasenyi, Burunga, Tshamugussa), Tshibamba, Mwene-Ditu, Kapanga, Lusambo, Lemfu, Kahinda, Kafakumba, Katoka-Luluabourg, Lukolela, Mayidi, Sandoa, Léopoldville, Flandria, Bokuma, Congo da Lemba, Rwankwi, Bokuma, Bambesa, Léopoldville, Élisabethville, Kasenyi, Kamande, Rwindi, Bunia.

Ruanda-Urundi : Astrida.

C. spectabilis GILLET (Fig. 22).

R.C. : Luashi.

Ruanda-Urundi : Bururi.

C. tricornutus DE GEER (Fig. 23).

R.C. : P.N.U. (Mabwe), P.N.G.

* *C. upembanus* n. sp. (Figs. 53, 54).

R.C. : P.N.U.

Subgenus **METAGATHARSIUS** PAULIAN.

M. basilewskyi BALTHASAR.

R.C. : Élisabethville.

M. kindiai PAULIAN.

R.C. : Lundi (Lulua), Kindia (Katanga).

M. peleus OLIVIER (Fig. 43).

R.C. : P.N.G., P.N.U. (Mabwe).

* *M. useramus* KOLBE (Fig. 44).

R.C. : P.N.G.

M. tchadensis BALTHASAR.

R.C. : N'Gouri (Tchad).

Genus **HELIOCOPRIS** HOPE.

H. andersoni BATES.

R.C. : Musha (Kigali), P.N.G.

H. antenor (OLIVIER).

R.C. : P.N.G., Coquilhatville, Kibali-Ituri, Costermansville, Sassa, Katombe.

H. colossus BATES.

R.C. : Kapona (Katanga), Kapanga (Lulua), Uele, P.N.A. (Tshambi, Vitshumbi, monts Kasali, Kalinga, Katanda, Binza, Mabenga, Ndeko, Ninda, May ya Moto, Mudende), P.N.G.

H. corniculatus JANSSENS.

R.C. : Kapanga (Lulua), Sandoa, Kafakumba, Lomami (Kamina).

H. dolossus JANSSENS.

R.C.

H. eryx (FABRICIUS).

R.C. : Kapanga (Lulua).

H. felschei KOLBE.

R.C. : Bukavu (Kivu), Katana.
Ruanda-Urundi : Gitarama, Bururi.

H. hamadryas (FABRICIUS).

R.C. : Mpala, Bukavu (Kivu), Mutaka (Katanga), Nioka (Kibali-Ituri), Tshipasa (Lulua), Watsa, Tshambi, Kibga, Kalinga, Mudende.
Ruanda-Urundi : Zaza, Gitarama.

H. hamifer HAROLD.

R.C. : Kabongo (Lulua).

H. haroldi KOLBE.

R.C. : Katakokombe (Sankuru), Kasongo (Maniema), Tshipasa, Kapanga (Lulua), Kafakumba, Bokuma, Eala (Équateur), Nioka (Kibali-Ituri), P.N.A. (Tshambi, Binza, Tshanzerwa).

H. japetus KLUG.

R.C. : Kapanga (Lulua), Djeka (Kasai), Tshipasa (Lulua), P.N.G.
Ruanda-Urundi : Kigali, Gitarama.

H. mimus JANSSENS.

R.C. : Kwango (Kikwit), Kanidowaco (Kivu).

H. minus GILLET.

R.C. : Luishia (Lualaba), Kisantu.

H. mutabilis KOLBE.

R.C. : Stanleyville, Banalia, Elisabethville.

H. myrmidon KOLBE.

R.C. : P.N.G.
Ruanda-Urundi : Gitarama, Rukoma, Nduga.

H. neptunoides JANSSENS.

R.C. : Moto, Watsa, Uele, Van Kerkhovenille.

H. pauliani JANSSENS.

R.C. : Luashi (Lulua).

H. quinqueangulatus JANSSENS.

R.C. : Lutunguru (Ituri), Moto (Uele).

H. samson HAROLD.

R.C. : Luhi, Lenze, Buta, Kafakumba, Sandoa, P.N.G.

H. staudingeri KOLBE.

R.C. : Mutaka (Katanda), Elisabethville, P.N.G.

H. sylvanus GILLET.

Ruanda-Urundi : Tshuruyaga.

Tribe **ONITICELLINI**.Subtribe **ONITICELLINA**.Genus **ONITICELLUS** SERVILLE.*O. egregius* KLUG.

R.C. : Kasenyi, Kawa forest.

O. pictus (HAUSMAN).

Ruanda-Urundi : Gitarama, Rukoma.

O. planatus CASTELNAU.

R.C. : Mulungu, lac Vert (Kivu), Kapanga (Lulua), Mutwanya (Stanleyville), Rwankwi (lac Kivu), Nyangwe, Ituri, Mayumbe, P.N.A. (Vitshumbi, Katanda, Tshambi, Kamande, Kalinga, Molindi river, Gahinga, Ninda, Binza, Rwindi, Kanyabayongo, Kibga, Tshamugussa), P.N.U. (Mabwe, Kaswabilenga, Lufira river, Kateke river, Mukana, Kaziba, Kilwezi, Ganza, Lukola river, Lusinga).

Ruanda-Urundi : Gitarama, Kisenyi, Ruhengeri, Rukoma, Nduga, Tshuruyaga, Usumbura, Bururi.

Genus **EUONITICELLUS** JANSSENS.*E. fumigatus* (BOUCOMONT).

R.C. : Mongende, Abimva, Kapanga, Kawa forest, Kaniama, Bambesa, P.N.A. (Kamatembe), P.N.U. (Kaswabilenga, Mabwe).

E. intermedius (REICHE).

R.C. : Kapanga (Lulua), Mpala (Tanganyika), Kavumu to Kabunga (Kivu), Mulungu-Tshibinda, Baudouinville, Albertville, Stanleyville, Ituri, P.N.A. (Vitshumbi, Kanyabayongo).

Ruanda-Urundi : Gitarama, Rukoma, Nduga, Kinazi.

E. kawanus (JANSSENS).

R.C. : Kawa forest, Butiaba, Kasenyi, Nioka, P.N.U. (Kaswabilenga, Mabwe, Kateke).

E. nasicornis (REICHE).

R.C. : Kapanga, Mutwanga (Ruwenzori), P.N.U. (Mabwe, Kaswabilenga, Kaziba, Lusinga, Mukana), Kisantu.

Ruanda-Urundi : Astrida, Shangugu, Rubengera, Gitarama, Rukoma, Ndiza, Nduga.

E. parvus (KRAATZ).

R.C. : Faradje, Uvira.

E. tibatensis (KOLBE).

R.C. : Kapanga (Lulua), Stanleyville, Yebo Moto, Bambesa, Itimbiri, Lulua river, Kalani river, Kapanga, Kaniama, P.N.A. (Vitshumbi), P.N.U. (Kaswabilenga).

E. triangulatus (HAROLD).

R.C. : P.N.A. (Vitshumbi), P.N.U. (Mabwe).
 Ruanda-Urundi : Gitarama, Rukoma, Nduga.

E. wittei (JANSSENS).

R.C. : Basoko, Burunga.

Genus **TINIOCELLUS** PÉRINGUEY.*T. collarti* (JANSSENS).

R.C. : P.N.U. (Ganza, Lukoka river), Kawa forest.

T. panthera (BOUCOMONT).

R.C. : Moero.

T. spinipes (ROTH).

R.C. : Kapanga (Lulua), Kamuena to Kabunga (Kivu), Mingazi, Butiaba, P.N.A. (Vitshumbi, Katanda, Tshambi, Kamande, Molindi river, Rutshuru, Rwindi), P.N.U. (Mabwe, Kaswabilenga, Kankunda, Mubale, Lupiala, Kibwezi, Kiamokoto-Kiwakishi).
 Ruanda-Urundi : Nduga.

Genus **LIATONGUS** REITTER.*L. arrowi* (BOUCOMONT).

R.C. : Rwankwi (N. lake Kivu), Kabare, Itombwe, P.N.A. (Bitashimwa, mont Sesero, Burambi, Ninda, Gahinga, Katanda, Kibga, Kihorwe, Tshamugussa, Karisimbi), Tshibinda, Mulungu, Rwenkeri, Nioka, lake Bulero, Kaubu.
 Ruanda-Urundi : Rubengera, Ruhengeri, Gitarama, Rukoma, Nduga, Biumba.

L. aterrimus (BOUCOMONT).

R.C. : Kiteza, Jadotville.

L. fulvostratus D'ORBIGNY.

R.C. : Kitwabalezi, Mayidi.
 Ruanda-Urundi : Kaniama, Rubengera, Gitarama, Nduga, Ndiza.

L. interruptus (QUEDENFELDT).

R.C. : Kapanga (Lulua), Tshipasa, Mulungu (Tshibinda), Luluabourg, Kishinde, Kipanga, Kabwe, Kisantu, Baraka, Nyangwe, Kaniama, Likandu, Mulungu.

L. militaris (CASTELNAU).

R.C. : P.N.A. (Vitshumbi, Katanda, Tshambi, Kamande, Molindi river, Nianda, Rwindi).
 Ruanda-Urundi : Gitarama, Rukoma, Nduga, Shangugu.

L. schoutedeni (BOUCOMONT).

R.C. : P.N.A. (lake Mokoto, Kibati, Burunga, Kikeri, Kamatembe, Nyarusambo, mont Sesero, Bitashimwa, Tshamugussa, Kibga, Nyabirehe, N'Gando lake, mont Tamira, Nyamuragira, Mubiliba forest, Nyasheke forest, lake Bulero, Ninda), Kasai (Kaubu).
 Ruanda-Urundi : Astrida, Gitarama.

L. sjostedti (FELSCHE).

R.C. : Moto, Watsa to Niangara, Bambesa, Tukwo, Yangambi.

L. spathulatus (ROTH).

R.C. : Katana.

Ruanda-Urundi : Astrida, Gitarama, Gabiru, Kitega, Rubengera, Rukoma, Nduga.

L. taurus (BOUCOMONT).

R.C. : Kapanga, Tshipasa, Kafakumba, Kapanga, Kindu, Bambesa, Kaniama, Mwene-Ditu.

L. testudo (LANSBERGE).

R.C. : Kaniama, Kapanga (Lulua), Ditanto (Katanga).

L. upembanus JANSSENS.

R.C. : P.N.U. (Lusinga, Mukana, Kabwekanono, Kamitunu river, Kamitungulu river, Katombwe-Mukana, Dipidi river, Lusinga, Kapelwa river, Kampadika river, Dipwa river, Manda river, Kalumengongo, Mabwe, Kaswabilenga, Ngozie).

Genus **DREPANOPLATYNUS** BOUCOMONT.*D. gilleti* BOUCOMONT.

R.C. : Urwald, Mawambi.

Genus **TRAGISCUS** KLUG.*T. dimidiatus* KLUG.

R.C. : Ituri, Kasenyi, P.N.A. (Vitshumbi, Kamande, Katanda, Rutshuru).

Subtribe **DREPANOCERINA**.Genus **DREPANOCERUS** KIRBY.*D. abyssinicus* ROTH.

R.C. : Keshero (Goma), Ibanda, Uvira, Nioka, Bambesa.

Ruanda-Urundi : Rukoma, Rubengera, Nyabikenke, Gitarama.

D. ambiguus KIRBY.

R.C. : Baudouinville, P.N.A. (Kabasha).

D. bechynei JANSSENS.

R.C. : Uvira.

D. distinctus JANSSENS.

R.C. : Urundi, Kitega, Uele, Libenge, Bambesa, Abimva, Haut-Uele, Yebo-Moto, Dika, Kibali-Ituri, Nioka, Bunia, Kasenyi, Moliro, Élisabethville, P.N.A. (Kanyabayongo-Kabasha).
Ruanda-Urundi : Gitarama, Rukoma.

D. fastiditus PÉRINGUEY.

R.C. : P.N.A. (Vitshumbi).

D. kirbyi KIRBY.

Ruanda-Urundi : Astrida, Gabiru, Gatsibu, Nioka, Katana, Abimva, Gitarama, Rubengera, Nduga, Rukoma.

D. marshalli BOUCOMONT.

R.C. : P.N.U. (Kaswabilenga, Kiamokoto-Kiwakishi).

Ruanda-Urundi : Gatsibu, Gabiro, Rukoma.

D. parallelus RAFFRAY.

R.C. : Uvira, P.N.A. (Rwinda, Molindi river).

Ruanda-Urundi : Gitarama.

D. sulcicollis (CASTELNAU).

R.C. : Baudouinville, Boma, Libenge, Kibombo, Katana.

Ruanda-Urundi : Rukoma, Gitarama.

Tribe ONITINI.

Genus **ALLONITIS** JANSSENS.*A. nasutus* (FELSCHE).

R.C. : Watsa to Niangara, Kafakumba, Bopoto, P.N.A. (Tshambi).

Genus **CHIRONITIS** LANSBERGE.*C. asbenicus* GILLET.

R.C. : Tchad.

Genus **GILLETELLUS** JANSSENS.*G. collarti* JANSSENS.

R.C. : P.N.U. (Lusinga, Mukana, Dipidi river, Kafwe river).

Genus **HETERONITIS** GILLET.*H. castelnaui* (HAROLD).

R.C. : Pweto, P.N.A. (Vitshumbi, Tshambi, Kanyazi, Kalinga, Ninda, Ndeko, Katanda), P.N.U. (Mukana, Kaswabilenga, Mabwe).

Genus **LOPHODONITIS** JANSSENS.*L. carinatus* (FELSCHE).

R.C. : Haut-Uele (Moto).

Genus **ONITIS** FABRICIUS.*O. adelphus* KOLBE.

R.C. : P.N.A. (Kibati, Burunga, Kamatembe, Nyarusambo, Binza, Bitashimwa, Munagana, Burambi, Kundhuru ya Tshuve, Ninda, Rushayo, Tshumba, contrefort est du Muhavura, Kanyabayongo, Katanda, Rutshuru, N'Gando Lake, Kibga, Nyabirehe, Kiniha, Mudende, Mugongo, Tamira, Bonde, Bugeshi, Kibumba, Mayumbu forest, Bweza, Tshamugussa).

O. aeneomicans GILLET.

Ruanda-Urundi : Gitarama, Rukoma, Nduga.

O. aeneus LANSBERGE.

R.C. : Uele, Moto, Gangala na Bodio.

O. aerarius HAROLD.

R.C. : P.N.A. (Kaswabilenga, Kateke river, Kanonga).
Ruanda-Urundi : Rukoma, Kibungu.

O. aeruginosus KLUG.

R.C. : Haut Uele (Yebo Moto).

O. alexis KLUG.

R.C. : P.N.A. (Vitshumbi, monts Kasali, Katanda, Tshambi, Kanyazi, Kibumba, Kalinga, May ya Moto, Ndeko, Kanyabayongo, Mabenga, Kasali).
Ruanda-Urundi : Rukoma, Nduga, Kinazi, Rukara, Astrida, Tshuruyaga, Gitarama.

O. androcles JANSSENS.

R.C. : Mawambi.

O. artuosus GILLET.

R.C. : Katanga, Élisabethville, Stanleyville, P.N.U. (Mukana).

O. cryptodus GILLET.

R.C. : Kisantu, P.N.U. (Mabwe).
Ruanda-Urundi : Gitarama, Rukoma, Nduga.

O. cupreus CASTELNAU.

R.C. : Ubangi.

O. deceptor PÉRINGUEY.

R.C. : P.N.U. (Kaswabilenga, Kabwekanono, Kateke, Lusinga, Dipidi river, Mukana, Mabwe).

O. fabricii ROTH.

R.C. : P.N.U. (Kaswabilenga, Kankunda, Lusinga, Kateke river, Mabwe).

O. insulanus KOLBE.

Ruanda-Urundi : Wau Isle.

O. lamnifer GILLET.

R.C. : P.N.A. (Kabasha, Kanyazi, Kamande, Katanda, Kanyabayongo, Tshanzerwa).
Ruanda-Urundi : Rukoma, Nduga, Kinazi, Gitarama.

O. lycophron KLUG.

R.C. : Lulua, P.N.U. (Kateke river).

O. mnischechianus JANSSENS.

R.C. : Lukafu, P.N.U. (Lusinga, Karibwe, Mukana, Kaswabilenga, Kankunda, Kabwekanono, Kateke, Dipwa river, Kampadika river, Kafwe river, Kapelwa river, Mabwe, Kalumengongo).

O. monstrosus FELSCHE.

R.C. : Haut Uele, Stanleyville, P.N.U. (Mukana, Kaswabilenga).

O. nemoralis GILLET.

R.C. : Beni and Moera forest, Eala, P.N.A. (Tshambi, Kanyazi, Kalinga, Katanda, Binza, Tshanzerwa, contrefort est du Muhavura).

O. overlaeti JANSSENS.

R.C. : Kapanga, Bambesa.

O. pertubator PÉRINGUEY.

R.C. : Élisabethville, Mwene Ditu, P.N.U. (Munoi, Kaswabilenga).

O. podicinus BOUCOMONT.

R.C. : Kundelungu, P.N.U. (Lusinga, Mukana, Kaswabilenga, Kankunda, Kabwekanono, Dipidi river, Kiamakoto-Kiwakishi, Kapelwa river, Mabwe).

O. pyramus GILLET.

R.C. : Élisabethville, P.N.U. (Lusinga, Mukana, Kabwekanono, Kaswabilenga, Kafwe river).

O. reichei LANSBERGE.

Ruanda-Urundi : Rukoma, Nduga.

O. reichei LANSBERGE var. *rhodesianus* GILLET.

R.C. : P.N.U. (Kaswabilenga, Kateke, Mukana).

O. retrodentatus GILLET.

R.C. : Élisabethville, Haut-Luapula, P.N.U. (Lusinga, Mukana, Kaswabilenga, Kabwekanono, Kateke river, Kapandika, Kapelwa river, Kafwe river, Kalumengongo, Mabwe).

O. robustus BOHEMAN.

R.C. : P.N.A. (Tshambi, monts Kasali, Katanda, Kalinga, Vitshumbi, Kanyazi, Ninda, May ya Moto, Ndeko).

O. sphinx (FABRICIUS).

R.C. : P.N.A. (monts Kasali, Vitshumbi, Kalinga, Katanda, Tshambi, Kanyazi, Kibga, Katanda, May ya Moto, Ndeko, Kanyabayongo, Mabenga, Tshanzerwa), Ituri, P.N.U. (Kaswabilenga, Mabwe, Kateke river, Buye-Bala, Mukana).

Ruanda-Urundi : Tshuruyaga.

O. spinicrus FAIRMAIRE.

R.C. : Ituri.

O. subcrenatus KOLBE.

R.C. : P.N.A. (Tshambi, Burunga, Bitashimwa, Munagana, Sesero, Kundhuru ya Tshuve, Burambi, Gahinga, Ruhengeri, Kanyabayongo, Rutshuru, Kibga, Kiniha, Mudende, Mugongo, Mayumbu forest, Tshamugussa, Bweza).

Ruanda-Urundi : Shangugu, Rubengera, Tshuruyaga, Gitarama, Rukoma, Nduga, Ndiza.

O. sulcipennis FELSCHÉ.

R.C. : P.N.A. (Rutshuru, Nyarusambo, Kundhuru ya Tshuve, Ninda, Rwebeya valley, Kanyabayongo, N'Gando lake, Kibga, Mugongo, Mudende, Tshamugussa, Bweza).

O. uncinatoides JANSSENS.

R.C. : P.N.U. (Lusinga, Mukana, Kabwekanono, Kankunda, Kapelwa river, Kafwe river, Mabwe).

O. uncinatus KLUG.

R.C. : P.N.A. (Vitshumbi, Kalinga, Tshambi, Katanda, Mugongo).

Ruanda-Urundi : Gitarama, Rukoma, Nduga, Kinazi.

O. upembanus JANSSENS.

R.C. : P.N.U. (Kateke river).

O. vanderkelleni LANSBERGE.

R.C. : Lulua, P.N.A. (Kalinga, Tshambi, Munagana, Muhavura, Rwankeri, Ninda, Katanda, Binza, Kanyabayongo, Kibga, Mudende, Nyamuragira, Bweza, Tshamugussa), P.N.U. (Lusinga, Mukana, Kabwekanono, Kaswabilenga, Kateke river, Dipwa river, Katongo, Kapelwa river, Buye-Bala, Mabwe, Kalumengongo, Rubengera).

Ruanda-Urundi : Tshuruyaga, Gitarama, Rukoma, Nduga, Ndiza, Mayaga, Gatsibu.

O. viridulus BOHEMAN.

R.C. : P.N.A. (Vitshumbi, monts Kasali, Tshambi, Kalinga, Kanyazi, Kibga, Katanda, May ya Moto, Ndeko, Kanyabayongo), P.N.U. (Kaswabilenga, Mukana).

Ruanda-Urundi : Astrida, Tshuruyaga, Gitarama, Rukoma, Nduga, Mahembe.

O. vrydaghi JANSSENS.

R.C. : Uele.

O. wittei JANSSENS.

R.C. : P.N.A. (Burunga, Kamatembe, Katanda, Tshamugussa, monts Sesero, Kanyabayongo, Shamhueru).

Tribe ONTHOPHAGINI.

GENUS **PROAGODERUS** LANSBERGE.*P. armicollis* D'ORBIGNY.

R.C. : Kasindi.

P. auratus FABRICIUS.

R.C. : Kigoma, Moto, Dika, Doruma, Bambesa, Tukpwo, Bambili, Mahagi-Niareembe, Kasenyi, camp Rwindi, Nyanza.

P. brucei REICHE.

R.C. : Kisantu, Beni à Lesse, Sandoa, Tshibamba, Kapanga, Kipanga, Kinda, Élisabethville, Mayidi, camp Rwindi.

Ruanda-Urundi : Gabiro, Rubengera, Gitarama, Rukoma, Ndiza.

P. ceratotherium JANSSENS.

R.C. : Haut-Congo.

P. colmanti D'ORBIGNY.

R.C. : Sassa, Watsa to Niangara.

P. confossus D'ORBIGNY.

R.C. : Kindu, Kibombo, Lufulu.

P. cuspidatus D'ORBIGNY.

R.C. : Kisantu, Léopoldville.

P. elgoni D'ORBIGNY.

R.C. : Watsa, Abimva, Bomokandi, Nioka, Mahagi-Niarembe.

P. extensus HAROLD.

R.C. : Stanleyville to Kilo, Yebo.

P. fastosus D'ORBIGNY.

R.C. : Matadi, Ganda-Sundi, Kasamvu, Niali, Batasiala, Masinga, Luali, Tshela.

P. fossidorsis D'ORBIGNY.

R.C. : Mpala, Luembe, Sandoa.

P. gemmatus PÉRINGUEY.

R.C. : Ubemba, Madona, Kasinga, Lumba, Kapanga, Sandoa, Lushishi river, Kafakumba, Luashi.

P. gibbirus D'ORBIGNY.

R.C. : Kisantu, Bambesa, Tshibamba, Kapanga, Kafakumba, Tshipasa, Élisabethville, Kaniama, Mutombo-Mukulu.

P. harpax FABRICIUS.

R.C. : Haut-Congo.

P. katualensis QUEDENFELDT.

R.C. : Cha-Katuala, Kamina, Sandoa, Kapanga, Luiza river, Kalani river, Tshibalaka, Lundje river, Kamelekese river, Katentania, Mayidi.

P. lallieri D'ORBIGNY.

R.C. : Bunkeya, Kapanga, Kafakumba, Élisabethville.

P. lallierianus JANSSENS.

R.C. : Bunkeya, Kafakumba, Kapanga (Lulua).

P. lujendae BATES.

R.C. : Katanga, Mufungwa-Sampwe, Kibenga-Baraka, Madona.

P. monochromus D'ORBIGNY.

R.C. : Flandria, Bokuma, Eala, Lodja, Malela, Yindi, Kunungu, Banania, Kindu, Lulua-bourg, Luebo, Kipali, Kondue.

P. multicornis D'ORBIGNY.

R.C. : Watsa to Niangara, Watsa, Mauda, Moto, Abimva, Bambesa.

P. opulentus D'ORBIGNY.

R.C. : Kapanga, Tshibamba, Lushala, Kalenge, Kafakumba.

P. overlaeti JANSSENS.

R.C. : Kapanga, Tshipasa, Tshibamba, Kafakumba, Kambaza, Kaniama.

P. panoplus BATES.

R.C. : Upemba, Kapanga, Kafakumba, Mwene-Ditu.

P. pegesimallus MARCUS.

R.C. : Kasongo.

P. praedentatus D'ORBIGNY.

R.C.

P. pseudoalcyon D'ORBIGNY.

R.C. : Bambesa, Yangambi.

P. quadrispinosus D'ORBIGNY.

R.C. : Sassa, Doruma.

P. rarus GUÉRIN.

R.C. : Sassa, Tshala, Kapanga, Tshipasa, Kalani river, Tshibamba, Tshibalaka, Kafakumba, Kepaza.

P. semiiris THOMSON.

R.C. : Ibembo, Yambata, Tua, Banga, Kikamba, Batasiala, Buta.

P. speculicollis QUEDENFELDT.

R.C. : between Matadi and Stanley pool, Kwamouth, Léopoldville, Mpala, Mayidi, bassin Lukuga, Dumbi, Sandoa, Kapanga, Luiza river, Kalani river, Kapelekese, Tshibalaka, Sandoa, Kundelungu, Ditanto.

P. subextensus KOLBE.

R.C. : Mwene-Ditu, Kafakumba, Tshibamba, Kapanga.

P. superbus D'ORBIGNY.

R.C. : Moanda, Kibamba, Musinga, Biabu.

P. taymansi D'ORBIGNY.

R.C. : Kasai, Kikwit.

P. trianguliceps D'ORBIGNY.

R.C. : Kapanga, Kafakumba, Dilolo.

P. unidens QUEDENFELDT.

R.C. : Kapanga, Sandoa.

Genus **DIASTELLOPALPUS** LANSBERGE.

D. balubanus KOLBE.

R.C.

D. basilobatus D'ORBIGNY.

Ruanda-Urundi : contrefort est du Muhavura, Rutovu, Tshuruyaga, Bururi.

D. conradti D'ORBIGNY.

R.C.

D. gilleti D'ORBIGNY.

R.C.

D. johnstoni WATERHOUSE.

Ruanda-Urundi : Rubengera, Gitarama, Rukoma, Ndiza.

D. laevibasis D'ORBIGNY.

R.C.

D. lamellicollis QUEDENFELDT.

Ruanda-Urundi : Rubengera, Gitarama, Rukoma, Nduga, Ndiza.

D. murrayi HAROLD.

R.C.

D. tridens FABRICIUS.

R.C.

Genus **CACCOBIUS** THOMSON.

C. crassus D'ORBIGNY.

R.C.

C. cribarius BOUCOMONT.

R.C.

C. gibbosulus D'ORBIGNY.

R.C.

C. inconspicuus FÄHRAEUS.

R.C.

C. seminulum KLUG.

R.C.

Genus **MILICHUS** PÉRINGUEY.

M. apicalis FÄHRAEUS.

Ruanda-Urundi : Gitarama, Rukoma, Nduga.

M. inaequalis BOUCOMONT.

R.C.

M. picticollis GERSTAECKER.

Ruanda-Urundi : Rubengera, Gitarama, Rukoma, Nduga, Ndiga, Bururi.

Genus **CACCOPHILUS** JEKEL.*C. fuliginosus* ROTH.

Ruanda-Urundi : Shangugu, Rubengera, Gitarama, Rukoma.

C. obtusus FÄHRAEUS.

Ruanda-Urundi : Rubengera.

Genus **ONTHOPHAGUS** LATREILLE.*O. abruptus* D'ORBIGNY.

R.C.

O. alienus FREY.

R.C.

O. altilamina D'ORBIGNY.

R.C.

O. angularis D'ORBIGNY.

R.C.

O. apicehirtus D'ORBIGNY.

R.C.

O. armicollis D'ORBIGNY.

R.C.

O. atrostriatus D'ORBIGNY.

R.C.

O. axillaris BOHEMAN.

Ruanda-Urundi : Dendezi

O. balubanus KOLBE.

R.C.

O. bequaerti D'ORBIGNY.

R.C.

O. bidentifrons D'ORBIGNY.

R.C.

O. bifidus REICHE.

R.C.

O. bimarginatus D'ORBIGNY.

R.C.

O. bisbicornis D'ORBIGNY.

R.C.

O. bituber D'ORBIGNY.

R.C.

O. blanchardi HAROLD.

Ruanda-Urundi : Rubengera, contrefort Est Muhavura, Gitarama, Rukoma, Nduga, Ndiza.

O. callosipennis BOUCOMONT.

R.C.

O. carbonarius KLUG.

R.C.

O. catta FABRICIUS.

Ruanda-Urundi : Rukoma, Nduga.

O. chlorophanus D'ORBIGNY.

Ruanda-Urundi : Rubengera, Rukoma.

O. cinctipennis QUEDENFELDT.

R.C.

O. cometes BATES.

R.C.

O. consobrinus PÉRINGUEY.

R.C.

O. contiguicornis D'ORBIGNY.

Ruanda-Urundi : terr. Ruhengeri.

O. corniculatus REICHE.

Ruanda-Urundi : Rubengera, Gitarama, Rukoma.

O. costatus D'ORBIGNY.

R.C.

O. cupreovirens D'ORBIGNY.

R.C.

O. delicatus D'ORBIGNY.

R.C.

O. denticulatus D'ORBIGNY.

R.C.

O. depilis D'ORBIGNY.

R.C.

O. depressifrons D'ORBIGNY.

R.C.

- O. dicerus* D'ORBIGNY.
R.C.
- O. duvivieri* D'ORBIGNY.
R.C.
- O. epilamprus* BATES.
R.C.
- O. erectinasus* D'ORBIGNY.
R.C.
- O. fallax* D'ORBIGNY.
Ruanda-Urundi : Usumbura.
- O. fimetarius* ROTH.
Ruanda-Urundi : Rubengera, Gitarama, Rukoma, Nduga, Kinazi, Gatsibu.
- O. flavorufus* D'ORBIGNY.
R.C.
- O. foveatus* FREY.
R.C.
- O. foveicollis* BOUCOMONT.
R.C.
- O. fungicola* D'ORBIGNY.
R.C.
- O. fuscatus* D'ORBIGNY.
R.C.
- O. gibbidorsis* D'ORBIGNY.
R.C.
- O. gibbifrons* D'ORBIGNY.
R.C.
- O. gonopygus* D'ORBIGNY.
R.C.
- O. helciatus* HAROLD.
R.C.
- O. hemichalceus* D'ORBIGNY.
R.C.
- O. hirtellus* FREY.
R.C.

- O. hulstaerti* BOUCOMONT.
R.C.
- O. imberbis* D'ORBIGNY.
R.C.
- O. impressicollis* BOHEMAN.
R.C.
- O. insignis* PÉRINGUEY.
R.C.
- O. janssensi* FREY.
R.C.
- O. jugicola* D'ORBIGNY.
Ruanda-Urundi : Kisenyi, Rubengera, Gitarama, Rukoma, Nduga, Nyabikenke.
- O. juvencus* KLUG.
Ruanda-Urundi : Rubengera, Gitarama, Rukoma.
- O. kassaicus* D'ORBIGNY.
R.C.
- O. latestriatus* D'ORBIGNY.
R.C.
- O. lemekensis* ssp. *hamatus* FREY.
R.C.
- O. longegranus* FREY.
R.C.
- O. mediofuscatus* D'ORBIGNY.
R.C.
- O. minax* D'ORBIGNY.
R.C.
- O. mixticeps* D'ORBIGNY.
R.C.
- O. naevius* D'ORBIGNY.
R.C.
- O. ocellidorsis* D'ORBIGNY.
R.C.
- O. orthocerus* THOMSON.
R.C.
- O. parcenotatus* D'ORBIGNY.
R.C.

- O. parcepictus* D'ORBIGNY.
Ruanda-Urundi : Gitarama
- O. parumnotatus* FÄHRAEUS.
R.C.
- O. pauliani* FREY.
R.C.
- O. phanaeomorphus* JANSSENS.
R.C.
- O. picatus* D'ORBIGNY.
Ruanda-Urundi : Astrida.
- O. pictisternum* D'ORBIGNY.
R.C.
- O. pictus* REITTER.
R.C.
- O. planaticeps* D'ORBIGNY.
R.C.
- O. praestans* PÉRINGUEY.
R.C.
- O. pseudobidens* D'ORBIGNY.
R.C.
- O. pugionatus* FÄHRAEUS.
R.C.
- O. quadricuspis* D'ORBIGNY.
Ruanda-Urundi : Rubengera, Gitarama, Bururi.
- O. raffrayi* HAROLD.
Ruanda-Urundi : Shangugu, Rubengera, Kisenyi, Gitarama, Rukoma, Nduga, Nyabi-kenke.
- O. rectestriatus* D'ORBIGNY.
R.C.
- O. reticulatus* D'ORBIGNY.
R.C.
- O. rhyncophorus* PÉRINGUEY.
R.C.
- O. rufaticollis* D'ORBIGNY.
R.C.
- O. rufonotatus* D'ORBIGNY.
Ruanda-Urundi : Rubengera, Rukoma.

- O. schoutedeni* BOUCOMONT.
R.C.
- O. semicirculifer* D'ORBIGNY.
R.C.
- O. semicroceus* D'ORBIGNY.
R.C.
- O. sericeicollis* BOUCOMONT.
R.C.
- O. simpliciceps* D'ORBIGNY.
R.C.
- O. splendidus* BOUCOMONT.
R.C.
- O. stuhlmanni* D'ORBIGNY.
Ruanda-Urundi : Rukoma.
- O. sulcipennis* D'ORBIGNY.
Ruanda-Urundi : Kisenyi, Gitarama, Nyabikenke, Mahembe.
- O. subdivisus* D'ORBIGNY.
R.C.
- O. subocellatus* D'ORBIGNY.
Ruanda-Urundi : Gatsibu.
- O. sutiliceps* D'ORBIGNY.
R.C.
- O. tigrinus* D'ORBIGNY.
R.C.
- O. tridentipes* D'ORBIGNY.
R.C.
- O. tschoffeni* D'ORBIGNY.
R.C.
- O. umbratus* D'ORBIGNY.
R.C.
- O. variatus* D'ORBIGNY.
R.C.
- O. variegranosus* D'ORBIGNY.
R.C.
- O. vinctoides* FREY.
R.C.
- O. viviensis* D'ORBIGNY.
R.C.

CHAPTER III.

**A. — The faunistic concentration of the Coprinae
in the Garamba National Park****BIOLOGICAL CELL I.**

(Map I.)

a) IN THE GARAMBA NATIONAL PARK.

« **Savane arbustive sur argile latéritique** (=I/a/1) (Pl. I, Fig. 1).

» Boisement de densité moyenne, d'une hauteur maximum de 5 à 6 m, couvrant la région à l'est de l'abri et s'étendant au nord et au sud. »

Garreta nitens (OLIVIER) var. *coeruleovirens* (KOLBE).

Aka (=I/a/3') (Pl. I, Fig. 2).

« Eau courante de 8 à 12 m de large, sous couvert forestier à peu près continu. Fond rocheux ou de sable. »

Catharsius ninus GILLET.

Aka aval (=I/a/3 a).

« Région en bordure de la rive gauche de la rivière Aka. Savane arbustive assez dense avec îlots de *Parinari curatellifolia* PLANCH. ex. BENTH. »

Allogymnopleurus umbrinus (GERSTAECKER).

Garreta nitens (OLIVIER) var. *coeruleovirens* (KOLBE).

Copris interioris KOLBE.

« **Savane arbustive** (=I/b/1).

» Savane postculturale à boisement clair, sur latérite sénile. »

Scarabaeus gangeticus CASTELNAU.

Anachalcos aurescens BATES.

Anachalcos cupreus (FABRICIUS).

Copris jucundus GILLET.

Copris mesacanthus HAROLD var. *coriarius* GILLET.

Copris moffartsi GILLET.

Litocopris muticus BOHEMAN.

Litocopris punctiventris WATERHOUSE.

Heliocopris colossus BATES.

Heliocopris samson HAROLD.

Catharsius brevicornis FELSCHÉ.

Catharsius polynices KOLBE.

Pedaria criberrima WATERHOUSE.

« **Savane arbustive claire sur pente** (=I/c/1) (Pl. II, Fig. 1).

» Dalle ferrugineuse affleurante en de nombreux endroits. Strate herbacée augmentant de densité vers la Mogbwamu. »

Garreta nitens (OLIVIER) var. *coeruleovirens* (KOLBE).

Copris moffartsi GILLET.

Litocopris muticus BOHEMAN.

Heliocopris samson HAROLD.

« **Source de la rivière Nambili** (=I/c/2').

» Ravin encaissé, sous dalle ferrugineuse effondrée. Rideau forestier mésophile dense confiné aux talus du ravin : *Khaya*, *Erythrophloeum*, fond marécageux à essences hygrophiles : *Mitragyna*, *Spondianthus*; taillis assez dense. »

Copris carmelita FABRICIUS.

Copris interioris KOLBE.

Litocopris muticus BOHEMAN.

b) **OUTSIDE THE BOUNDARIES OF THE PARK.**

« **Camp de Bagbele** (=I/o).

» Plateau. Savane postculturale à *Albizia zygia* MAC BRIDE et *Terminalia* cfr *avicennioides* GUILL. et PERR. Emplacement du poste climatologique de base. »

Copris armiger GILLET.

Copris interioris KOLBE.

Copris orphanus GUÉRIN.

« **Savane boisée** (=I/o/1) (Pl. III, Fig. 1).

» Abords du camp de Bagbele. Savane à boisement clair de 5 à 6 m de hauteur, partiellement postculturale et à Mimosées. »

Allogymnopleurus umbrinus (GERSTAECKER).

Anachalcos aurescens BATES.
Anachalcos cupreus (FABRICIUS).
Copris armiger GILLET.
Copris carmelita FABRICIUS.
Copris gazellarum GILLET.
Copris interioris KOLBE.
Copris mesacanthus HAROLD var. *coriarius* GILLET.
Heliocopris colossus BATES.
Heliocopris staudingeri KOLBE.
Catharsius brevicornis FELSCHÉ.
Catharsius polynices KOLBE.
Catharsius sesostris WATERHOUSE.
Metacatharsius peleus OLIVIER.
Pedaria criberrima WATERHOUSE.
Pedaria tuberculigera WATERHOUSE.

« Rivière Nagbarama (=I/0/2).

» Eau vive sous couvert forestier dense à dominance de *Ficus congoensis* ENGL., formant un marécage au Nord-Est du camp, ensuite dévalant sur un affleurement granitique à découvert. Abords à savane boisée dense. »

Anachalcos cupreus (FABRICIUS).
Copris carmelita FABRICIUS.
Copris interioris KOLBE.
Copris jucundus GILLET.

« Savane de pente » (I/0/3) (Pl. III, Fig. 2).

Garreta nitens (OLIVIER) var. *coeruleovirens* (KOLBE).

BIOLOGICAL CELL II.

(Map II.)

« Savanes à ligneux peu denses (2).

» Arbres de 3 à 5 m, espacés. Types de savanes de crêtes, quelquefois de plateaux, à *Crossopteryx febrifuga* BENTH. Strate herbeuse de faible densité et généralement peu élevée. Sols jaunes à gris, dalles latéritiques parfois apparentes. »

Copris interioris KOLBE (nf).
Copris moffartsi GILLET (nf).
Litocopris muticus BOHEMAN (nf).
Heliocopris samson HAROLD (nf).
Catharsius polynices KOLBE (nf).
Catharsius sesostris WATERHOUSE (nf).

« Savanes arbustives moins denses (3).

» Ligneux ne dépassant guère 3 à 4 m, sauf de grands spécimens isolés. Sols dégradés, généralement jaunes à jaune rougeâtre. Ce type apparaît en nappes dans les savanes herbeuses. »

Litocopris muticus BOHEMAN (fc; nf).

« Savanes herbeuses (4).

» Dominance de Graminées diverses à fort développement. Mêmes éléments ligneux que dans les types 2 et 3, mais dispersés et à port suffrutescent. Arbres isolés de 8 à 10 m de hauteur. Type occupant la majorité du territoire du Parc National de la Garamba. Sols dégradés à faible fraction argileuse, fréquemment décapés, découvrant localement la dalle latéritique. »

Scarabaeus gangeticus CASTELNAU (hd; gc).

Kheper subaeneus (HAROLD) var. *atratus* GILLET (ke; hd; hc; ed; dd; id).

Gymnopleurus coerulescens (OLIVIER) (gc; db; hc).

Allogymnopleurus umbrinus (GERSTAECKER) (hd; hc; ec; fc; cb; gd; dd; id; gc).

Anachalcos aurescens BATES (ec; gd; fb; dd; id; hc; fd; jd; hd; he; ie).

Anachalcos cupreus (FABRICIUS) (gd).

Copris armiger GILLET (dd; id).

Copris carmelita FABRICIUS (fc; ed; he; id).

Copris dracunculus FERREIRA (ec; ed; je; id; ie).

Copris gazellarum GILLET (hd; hc; ec; fc; ed; gc; dd; de; jd; he; id).

Copris interioris KOLBE (hd; ec; fc; ed; cd; gc; dd; fb; ge; id; gd; jd; he; ie; hc).

Copris jucundus GILLET (ec; hd; ke; hc; fc; gd; fb; ed; cd; gc; dd; je; jd; ie; id; he; le).

Copris megaceratoides WATERHOUSE (ec; ed; gc; ge; dd; de; id; jd; ie; le).

Copris mesacanthus HAROLD (hd; ec; gc; jd; id; ed; ie; gd).

Copris mesacanthus HAROLD var. *coriarius* GILLET (ec; id; hd; ed; ie).

Copris moffartsi GILLET (fc; hd; me; hc; ec; id; ed; cd; gc; hc; dd; ge; je; jd; ie; le).

Copris orion KLUG (fc; ec; dd; id; hd; ed; he; je; le).

Copris orphanus GUÉRIN (hd; hc; ec; fc; hd; ed; cd; gc; dd; id; je; jd; ie; le).

Litocopris muticus BOHEMAN (gd; me; hd; hc; ke; ec; id; fb; gc; ge; je; jd; hh; he; ie).

Litocopris punctiventris WATERHOUSE (hd; ec; fc; ed; gc; ge; de; id; dd; je; jd; ie; he; le).

Heliocopris andersoni BATES (le; ec; ed; gc; id; dd; je; jd; hd; he; ie; le; gd; hc).

Heliocopris antenor (OLIVIER) (ec; ed; gc; dd; id; gd).

- Heliocopris colossus* BATES (bc; hd; ed; ec; dd; ge; fd; id; ie; le).
Heliocopris myrmidon KOLBE (hd; ec; fc; cd; gc; ed; ge; dd; id; ie; gd; hd; he; le; jd).
Heliocopris samson HAROLD (ec; lc; hd; ed; dd; id; je; he; ie; le).
Heliocopris staudingeri KOLBE (ec; ed; gc; he; le; ie).
Catharsius brevicornis FELSCHÉ (ec; fd; gd; cd; ed; dd; id; le).
Catharsius dux HAROLD (id).
Catharsius eteocles CASTELNAU (gd; gc; id).
Catharsius platycerus KLUG (hd; ed; ec; dd; he; id; ie; le).
Catharsius phidias OLIVIER (id; cd).
Catharsius polynices KOLBE (hd; ec; gd; ed; cd; gc; fb; dd; ge; id; de; fd; je; jd; ie; he; le; ec; hc).
Catharsius saegeri n. sp. (ie; ge).
Catharsius sesostris WATERHOUSE (ec; gc; gd; dd; id; fd; jd; ed; hd; he; ie; le).
Catharsius tricornutus DE GEER (ed).
Metacatharsius useramaus KOLBE (he; gd; ec).
Pedaria criberrima WATERHOUSE (gc; hd; je; gd; ke; id).
Pedaria spinosa BOUCOMONT (hd; je).
Pedaria taylori WATERHOUSE var. *decorsei* BOUCOMONT (id; ie; gc; le; hd).
Pedaria tuberculigera WATERHOUSE. (gc).
Onitis robustus BOHEMAN (ie; id; ed).

« Savanes de vallées (5).

» Formations herbeuses, denses, de Graminées atteignant de 3 à 5 m (*Urelytrum*), sur alluvions anciennes des terrasses, aussi en mince frange le long de rideaux forestiers. »

- Anachalcos aurescens* BATES (fd).
Copris gazellarum GILLET (fc).
Copris interioris KOLBE (fc; fd; ed).
Copris moffartsi GILLET (ed; fd).
Copris orphanus GUÉRIN (fc).
Litocopris muticus BOHEMAN (fc; fd).
Litocopris punctiventris WATERHOUSE (fc).
Heliocopris colossus BATES (fc).
Heliocopris myrmidon KOLBE (fc).
Heliocopris samson HAROLD (fc).
Catharsius brevicornis FELSCHÉ (fd).
Catharsius phidias OLIVIER (ed).
Catharsius polynices KOLBE (fc).
Catharsius sesostris WATERHOUSE (fc; fd).
Pedaria criberrima WATERHOUSE (fd).

« Groupements herbeux récents (6).

» Savanes herbeuses, sans ligneux, sur sables alluvionnaires. Se rencontrent dans les vallées et peuvent avoir un caractère temporaire sur terrains exondés. Ces formations deviennent permanentes si le cours de la rivière s'est modifié, les soustrayant à l'influence des crues. On y voit apparaître les ligneux suffrutescents tels *Vitex Doniana* SWEET, *Antidesma venosum* TULL. »

- Allogymnopleurus umbrinus* (GERSTAECKER) (gb; gc).
Anachalcos aurescens BATES (gc).
Copris carmelita FABRICIUS (gc).
Copris gazellarum GILLET (gc).
Copris interioris KOLBE (ge; gc; fc; ed).
Copris megaceratoides WATERHOUSE (ge; ed; gc).
Copris mesacanthus HAROLD var. *coriarius* GILLET (gc).
Copris moffartsi GILLET (ge; fd; gc; ed; fc).
Copris orion KLUG (gc).
Copris orphanus GUÉRIN (gc; fc).
Litocopris muticus BOHEMAN (gb; ge; fd; ed; gc).
Litocopris punctiventris WATERHOUSE (ed).
Heliocopris andersoni BATES (gc; ge).
Heliocopris antenor (OLIVIER) (ge).
Heliocopris japetus KLUG (gc).
Heliocopris myrmidon KOLBE (gc; ge).
Heliocopris staudingeri KOLBE (ed).
Catharsius brevicornis FELSCH (fc; gc; ed).
Catharsius phidias OLIVIER (ge).
Catharsius platycerus KLUG (ed; ge).
Catharsius polynices KOLBE (gc; ge; fc).
Catharsius sesostris WATERHOUSE (ed; gc; fc).
Metacatharsius useramus KOLBE (gc; ed).
Pedaria criberrima WATERHOUSE (gc).

« Têtes de source (8).

» Les têtes de source sont dénudées. Habituellement de nature marécageuse dans le premier cas; le milieu ne diffère guère de celui du cours de la rivière lorsque la frange forestière n'existe pas.

» Les têtes de source, ceintes d'un rideau d'arbres, sont encaissées et constituent un biotope plus confiné. Lorsque la dégradation n'est pas trop avancée, elles présentent un taillis d'essences hygrophiles. »

- Copris moffartsi* GILLET (ed).
Litocopris muticus BOHEMAN (df; cd).
Catharsius polynices KOLBE (ed).
Catharsius sesostris WATERHOUSE (ed).

« Rivières à cours boisé ou partie boisée de leurs cours » (9).

Catharsius polynices KOLBE (hd).

Pedaria criberrima WATERHOUSE (dd; ge).

Pedaria taylori WATERHOUSE var. *decorsei* BOUCOMONT (gc).

« Rivières à cours dénudé (10).

» Pas de ligneux ou ligneux isolés. Végétation rivulaire souvent aquatique ou paludicole. »

Allogymnopleurus umbrinus (GERSTAECKER) (gc).

Copris jucundus GILLET (ed).

Copris moffartsi GILLET (ed).

Litocopris muticus BOHEMAN (ed).

« Expansions marécageuses » (11).

Copris interioris KOLBE (ge).

Copris moffartsi GILLET (ge).

Litocopris muticus BOHEMAN (ge).

Heliocopris colossus BATES (ge).

Pedaria criberrima WATERHOUSE (gc).

« Confluents (16).

» Le confluent de deux rivières favorise parfois l'existence d'une végétation plus dense où se mélangent les formations boisées des franges forestières et celles des marécages. »

Copris interioris KOLBE (fc).

« Galeries (17).

» En ce qui concerne la Garamba, seul se rencontre le type de galerie sèche à *Irvingia* et *Nauclea*.

» Les galeries sont toutes à un stade plus ou moins avancé de dégradation. Elles ne sont généralement plus qu'une mince frange ripicole et parfois ne sont plus représentées que par quelques arbres en voie de disparition. »

Catharsius eteocles CASTELNAU (fd).

Catharsius sesostris WATERHOUSE (fd).

« Berges (18).

» Il s'agit de la partie abrupte des rives et des parties affaissées de celles-ci, y compris l'ados parfois présent à la suite de l'accumulation des sables alluvionnaires. Cette désignation a principalement été utilisée pour les

berges de la rivière Garamba, où souvent les Graminées prennent un grand développement, telle *Panicum maximum* JACQ. »

Catharsius sesostris WATERHOUSE (fd).

« **Piste du Parc** » (Pp) (Map 3).

Allogymnopleurus umbrinus (GERSTAECKER) (K55).

Copris jucundus GILLET (K10; K14 to the left).

Copris moffartsi GILLET (K14 to left; K73).

Copris orphanus GUÉRIN (K10).

Litocopris muticus BOHEMAN (K10; K14 to the left; K73).

Litocopris punctiventris WATERHOUSE (K10).

« **Piste frontière** (PFS).

» Piste longeant la frontière, de la source de la rivière Garamba jusqu'au mont Embe. Tronçon sud-est depuis l'aboutissement de la piste du Parc jusqu'à la source de la Garamba. »

Anachalcos aurescens BATES (K7/3).

Copris gazellarum GILLET (K5/7; K7/3).

Copris interioris KOLBE (K7/3).

Copris jucundus GILLET (K7/3).

Copris megaceratoides WATERHOUSE (K7/3).

Copris orion KLUG (K7/3).

Copris orphanus GUÉRIN (K7/3).

Litocopris muticus BOHEMAN (K7/3).

Litocopris punctiventris WATERHOUSE (K7/3).

Heliocopris andersoni BATES (K7/3).

Heliocopris antenor (OLIVIER) (K7/3).

Heliocopris myrmidon KOLBE (K7/3).

Heliocopris staudingeri KOLBE (K7/3).

Catharsius platycerus KLUG (K7/3).

Catharsius polynices KOLBE (K7/3).

Catharsius sesostris WATERHOUSE (K7/3).

Bamangwa (Pl. II, Fig. 2).

« Crête rocheuse (alt. 901,9 m), située à peu près sur le parallèle de Bagbele. »

Copris jucundus GILLET.

Copris moffartsi GILLET.

Litocopris punctiventris WATERHOUSE.

Pedaria taylori WATERHOUSE.

Biadimbi.

« Vaste affleurement rocheux situé entre les rivières Makpe et Aka, au nord du parallèle 4°10. »

Litocopris muticus BOHEMAN.

Embe.

« Inselberg (alt. 1.026,3 m), en territoire soudanais, sur le parallèle 4°40. Bordé à l'est par un grand peuplement de bambous *Oxytenanthera*. »

Gymnopleurus coerulescens (OLIVIER).

Gangala na Bodio.

Copris armiger GILLET.

Copris interioris KOLBE.

Kassi — Garamba.

« Confluent des rivières Kassi et Garamba, sur le 4° parallèle. »

Copris jucundus GILLET.

Mabanga.

« Colline tabulaire surmontée par une dalle latéritique près du mont Ndelele. »

Gymnopleurus coerulescens (OLIVIER).

Copris orphanus GUÉRIN.

Heliocopris myrmidon KOLBE.

Nasero.

Allogymnopleurus umbrinus (GERSTAECKER).

Ndelele.

« Crête de collines et d'éboulis (altitude du point culminant : 900,3 m) située près de la frontière, à l'extrémité de la piste Pp. »

Allogymnopleurus umbrinus (GERSTAECKER) (K120).

Copris gazellarum GILLET (K3).

Copris interioris KOLBE (K3).

Copris megaceratoides WATERHOUSE (K3).

Copris mesacanthus HAROLD (K3).

Copris moffartsi GILLET (K3).

Litocopris punctiventris WATERHOUSE (K3).

Heliocopris japeus KLUG (K3).

Heliocopris myrmidon KOLBE (K3).

Catharsius polynices KOLBE (K3).

Pidigala.

« Rivière, affluent droit de l'Aka, situé dans le nord du Parc. »

Anachalcos aurescens BATES.

Copris interioris KOLBE.

Copris orphanus GUÉRIN.

« Rivière Sanza ».

Anachalcos aurescens BATES.

Copris moffartsi GILLET.

« Savane herbeuse (II/e).

» Fond de vallée. »

Catharsius polynices KOLBE.

« Savane herbeuse » (II/f).

Copris mesacanthus HAROLD var. *coriarius* GILLET.

Litocopris punctiventris WATERHOUSE.

« Forêt d'Isoberlinia » (I so/II).

Copris armiger GILLET.

Copris interioris KOLBE.

Copris megaceratoides WATERHOUSE.

Catharsius polynices KOLBE.

Litocopris muticus BOHEMAN.

Litocopris punctiventris WATERHOUSE.

**B. — Scarabaeids collected in the Garamba National Park
by H. De Saeger expedition**

Fam. SCARABAEIDAE.

Subfam. COPRINAE.

Tribe SCARABAEINI.

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- Ateuchites* CASTELNAU, 1840, *Hist. Nat. Col.*, **2** : 63.
- Ateuchides* REICHE, 1841, *Rev. Zool.*, 211; 1841, *Ann. Soc. ent. Fr.*, 59; 1842, *Ann. Soc. ent. Fr.*, **12** : 22. — WESTWOOD, 1847, *Trans. Ent. Soc. Lond.*, **4** : 225. — LACORDAIRE, 1856, *Gen. Col.*, **3** : 64. — LANSBERGE, 1847, *Ann. Soc. ent. Belg.*, **17** : 177, 193. — DOHRN, 1875, *Stett. Ent. Zeit.*, **36** : 157, 187. — HAROLD, 1879, *Col. Hefte*, **16** : 35.
- Ateuchidae* BURMEISTER, 1846, *Gen. Col.*, Hefte 10, nr. 27.
- Ateuchini* ERICHSON, 1847, *Naturg. Ins. Deutsch.*, **1** (3) : 188. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 21.

Subtribe SCARABAEINA.

- Scarabaeina* JANSSENS, 1949, *Bull. Inst. royal Sc. nat. Belg.*, **25** (15) : 27.
- Scarabaeides* LACORDAIRE, 1856, *Gen. Col.*, **3** : 65, 66 (pars). — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 21 (pars). — KOLBE, 1905, *Zool. Jahrb.*, Suppl., **8** : 553 (pars). — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 5 (pars). — FERREIRA, 1953, *Bol. Soc. Est. Moç.*, (78) : 3.

Genus SCARABAEUS LINNÉ.

- Scarabaeus* LINNÉ, 1758, *Syst. Nat.*, ed. **10** : 345 (type : *Scarabaeus sacer* LINNÉ). — LANSBERGE, 1873, *Ann. Soc. ent. Belg.*, **17** : 182. — BEDEL, 1892, *Abeille*, **27** : 281. — REITTER, 1893, *Best. Tab.*, **24** : 161; 1893, *Verh. naturf. Ver. Brunn.*, **31** : 37, 40. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 23. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 7. — ARROW, 1931, *Fauna Brit. Ind. Col.*, *Lamell. Copr.*, **3** : 38. — BALTHASAR, 1935, *Bestimm. Tab. europ. Col.*, 28. — JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, **16** : 14. — FERREIRA, 1954, *Rev. Fac. Ciênc. Lisboa*, 2^a série, C. **3** (2) : 380; 1953, *Bol. Soc. Est. Moç.*, (78) : 4.

- Actinophorus* CREUTZER, 1799, *Entom. Versuch.*, 79.
Ateuchetus BEDEL, 1892, *Abeille*, **37** : 282, 283. — REITTER, 1893, *Bestimm. Tab.*, **24** : 162; 1893, *Verh. naturg. Ver. Brunn.*, **31** : 41.
Ateuchus WEBER, 1801, *Observ. ent.*, 10. — FABRICIUS, 1801, *Syst. Eleuth.*, **1** : 54. — LACORDAIRE, 1856, *Gen. Col.*, **3** : 66. — SHIPP, 1894, *Entomologist*, **37** : 254, 289, 309; 1895, *Entomologist*, **28** : 218.
Heliocantharus M'LEAY, 1821, *Horae Entom.*, **1** (2) : 497; 1833, *Annul. Javan. Reimpr.*, 49.
Sebasteos WESTWOOD, 1847, *Trans. Ent. Soc. Lond.*, **4** : 226, t. 17, f. 1. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 26, 27. — KOLBE, 1895, *Stett. Ent. Zeit.*, **56** : 333.
Parateuchus SHIPP, 1895, *Entomologist*, **28** : 221.

Scarabaeus gangeticus (CASTELNAU).

- Ateuchus gangeticus* CASTELNAU, 1840, *Hist. Nat. Col.*, **2** : 64 (type : Ceylon, col. R. OBERTHÜR, M. P.).
Scarabaeus gangeticus HAROLD, 1877, *Ann. Mus. Civ. Genova*, **10** : 38. — GILLET, 1907, *Ann. Mus. Civ. Genova*, **3** : 588; 1908, *Mém. Soc. ent. Belg.*, **16** : 63. — ARROW, 1931, *Fauna Brit. India, Col. Lamell.*, **3** : 41. — BALTHASAR, 1935, *Best. Tab. europ. Col. Scarab., Copr.* **1** (115) : 35. — JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, (16) : 36, 54. — FERREIRA, 1954, *Durban Mus, Novit.*, **4** (7) : 94; 1954, *Rev. Fac. Ciênc. Lisboa*, 2^a série, C, **3** : 426, 438, f. 125, 130, 133 (8), 172, 173 (10).
Ateuchus indicus MOTSCHULSKY, 1863, *Bull. Soc. Nat. Moscou*, **36** (1) : 457.
Ateuchus isidis CASTELNAU, 1840, *Hist. Nat. Col.*, **2** : 64. — HAROLD, 1871, *Col. Hefte*, **8** : 4; 1875, *Stett. Ent. Zeit.*, **36** : 452. — ARROW, 1900, *Proc. Zool. Soc. Lond.*, 23.
Ateuchus goryi CASTELNAU, 1840, *Hist. Nat. Col.*, **2** : 64.
Scarabaeus laevigatus KOLBE, 1887, *Nova Acta L. C. Acad.*, **50** : 244; 1895, *Stett. Ent. Zeit.*, **56** : 331.
Scarabaeus nepos FAIRMAIRE, 1884, *Ann. Soc. ent. Belg., C.R.*, **28** : 142. — BEDEL, 1892, *Abeille*, **27** : 284, nota.
Ateuchus profanus BOHEMAN, 1857, *Ins. Caffr.*, **2** : 162.
Scarabaeus profanus PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 29, 48, pl. 37, f. 21.
Scarabaeus pacatus PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 29, 49.

P.N.G. : n° 347, I/b/4, 29.III.1950, leg. H.D.S. (1 sp.); n° 515, I/o/4, 15.IV.1950, leg. H.D.S. (1 sp.); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (1 sp.); n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (1 sp.); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (2 sp.).

Number of specimens : 6.

Geographical distribution. — Arabia. Mozambique (Quelimane). Kalahari (Mabale Flats). South West Africa (Okatcheru, Abachaus, Gobabis). Tanganyika (Ukerewe). Southern Rhodesia (Enkeldoorn, Kanyani river). Transvaal (Rustenburg). Natal (Durban, Umfolosi river). Guinea. Congo (Vitshumbi, P.N.G.).

Genus **KHEPER** JANSSENS.

Kheper JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, (16) : 14, 59 (type : *Ateuchus aegyptiorum* LATREILLE). — FERREIRA, 1952, *Bol. Soc. Est. Moç.*, 23 (78) : 5; 1953, *Estudos Coloniais, Revista da Escola Superior Colonial*, 3 : 3.

Kheper subaeneus (HAROLD) var. **atratus** GILLET.

var. *atratus* GILLET, 1911, *Ann. Soc. ent. Belg.*, 309. — JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, (16) : 65, 72.

P.N.G. : n° 1380, II/ke/4, 15.III.1951, leg. H.D.S. (1 sp.); n° 1397, II/hd/4, 21.II.1951, leg. H.D.S. (10 sp.); n° 1398, II/ke/4, 15.II.1951, leg. H.D.S. (3 sp.); n° 1702, II/hc/4, 9.V.1951, leg. J.V. (1 sp.); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (1 sp.); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (4 sp.); n° 2546, II/id/4, 10.IX.1951, leg. H.D.S. (1 sp.); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (2 sp.); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (13 sp.); n° 3528, II/id/4, 1.V.1952, leg. H.D.S. (2 sp.); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (1 sp.).

Number of specimens : 39.

Geographical distribution. — Congo (P.N.G.).

Tribe **GYMNOPLEURINI**.

Gymnopleurini JANSSENS, 1949, *Bull. Inst. royal Sc. nat. Belg.*, 25 (15) : 27. — FERREIRA, 1956, *Arquivos Mus. Bocage*, Lisboa, 27 : 9; 1959, *Rev. Fac. Ciênc. Lisboa*, 2^a série, C, 7 : 78; 1961, *Bol. Soc. Port. Ciênc. nat.*, Lisboa, 2^a série, 8 : 65.

Gymnopleurides LACORDAIRE, 1856, *Gen. Col.*, 3 : 65, 77 (pars). — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, 12 : 21 (pars). — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 16. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 30; 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, (8). — GOMES-ALVES, 1950, *Anais Junta Inv. Col.*, 5 (6) : 160.

Gymnopleurinae KOLBE, 1905, *Zool. Jahrb. Suppl.*, 8 : 552.

Genus **GARRETA** JANSSENS.

Garreta JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, (18) : 15, 22 (type : *Scarabaeus azureus* FABRICIUS). — PAULIAN, 1945, *Faune de l'Emp. franç.*, 50. — FERREIRA, 1956, *Arquivos, Mus. Bocage*, Lisboa, 17 : 10; 1959, *Rev. Fac. Ciênc. Lisboa*, 2^a série, C, 7 : 80, 137.

Gymnopleurus ILLIGER, 1803, *Mag. Ins.*, 2 : 199 (pars).

Paragymnopleurus SHIPP, 1897, *Entom.*, 30 : 166 (pars). — GARRETA, 1914, *Bull. Soc. ent. Fr.*, 52. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 32.

Garreta nitens (OLIVIER) var. **coeruleovirens** (KOLBE).

var. *coeruleovirens* (KOLBE), 1897, *Käfer D. O. Afr.*, 138. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 46; 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, (18) : 27, 32.

P.N.G. : Nagero, 9-31.III.1954, leg. C. NEBAY (2 sp.); n° 330, Aka aval, 27.III.1950, leg. H.D.S. (2 sp.); n° 353, I/o/3, 31.III.1950, leg. H.D.S. (2 sp.); n° 368, I/c/1, 10.III.1950, leg. H.D.S. (5 sp.); n° 758, I/a/1, 14.VIII.1950, leg. G.D. (1 sp.).

Number of specimens : 12.

Geographical distribution. — Congo (Kaswabilenga, Mabwe, P.N.G.).

Genus **GYMNOPLEURUS** ILLIGER.

Gymnopleurus ILLIGER, 1803, *Mag. Ins.*, 2 : 199 (ex parte) (type : *Scarabaeus flagellatus* FABRICIUS). — LATREILLE, 1807, *Gen. Crust. Ins.*, 2 : 78 (ex parte). — LACORDAIRE, 1856, *Gen. Col.*, 3 : 72, 73 (ex parte). — REITTER, 1893, *Best. Tab.*, 24 : 158, 163; 1893 (1894), *Verh. Naturf. Ver. Brunn.*, 31 : 37, 42. — SHIPP, 1897, *Entomologist*, 30 : 62, 166. — KOLBE, 1897, *Käfer D. O. Afr.*, 135 (ex parte). — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, 12 : 22, 64 (ex parte). — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 16. — GARRETA, 1914, *Bull. Soc. ent. Fr.*, 51, 55. — ARROW, 1931, *Fauna Brit. Ind., Col. Lam., Copr.*, 3 : 46 (ex parte). — BALTHASAR, 1935, *Best. Tab. europ. Col.*, 1 (115) : 38 (ex parte). — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 30; 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, (18) : 15, 40. — FERREIRA, 1956, *Arquivos Mus. Bocage*, Lisboa, 27 : 10; 1959, *Rev. Fac. Ciênc. Lisboa*, 2^a série, C, 7 : 80, 82; 1961, *Bol. Soc. Port. Ciênc. nat.*, Lisboa, 2^a série, 8 : 79.

Spinigymnopleurus SHIPP, 1897, *Entom.*, 30 : 166.

Gymnopleurus coerulescens (OLIVIER).

Scarabaeus coerulescens OLIVIER, 1789, *Entom. Scarab.*, 1 : 189, pl. 27, f. 231 (type : M. P.); 1790, *Encycl. Méth.*, 5 : 178.

Gymnopleurus coerulescens CASTELNAU, 1840, *Hist. nat. Col.*, 2 : 71. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 36, 53; 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, (18) : 46, 61.

Gymnopleurus centralis BATES, 1890, *Proc. Zool. Soc. Lond.*, 482. — JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, (18) : 46, 61.

Gymnopleurus affinis M'LEAY, 1821, *Horae Entom.*, 1 (2) : 5/5; 1833, *Ann. Javan. Reimpr.*, 62. — GARRETA, 1914, *Bull. Soc. ent. Fr.*, 359.

P.N.G. : n° 3204, Mabanga, 20.III.1952, leg. H.D.S. (1 sp.); n° 3367, mont Embe, 21.IV.1952, leg. H.D.S. (4 sp.); n° 3887, II/gc/4, 7.VIII.1952, leg. H.D.S. (1 sp.); n° 1439, II/db/4, 23.III.1951, leg. H.D.S. (1 sp.); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (1 sp.); n° 1748, II/hc/4, 20.IV.1951, leg. J.V. (1 sp.).

Number of specimens : 9.

Geographical distribution. — Between the Cancer tropic and Equator. Congo (P.N.G.).

Genus **ALLOGYMNOPLEURUS** JANSSENS.

Allogymnopleurus JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, (18) : 15, 33 (type : *Gymnopleurus chloris* KLUG). — FERREIRA, 1956, *Arquivos Mus. Bocage*, Lisboa, 27 : 10; 1959, *Rev. Fac. Ciênc. Lisboa*, 2^a série, C, 7 : 80, 125; 1961, *Bol. Soc. Port. Ciênc. nat.*, Lisboa, 2^a série, 8 : 65.

Gymnopleurus ILLIGER, 1803, *Mag. Ins.*, 2 : 199 (pars).

Paragymnopleurus SHIPP, 1897, *Entom.*, 30 : 166 (pars). — GARRETA, 1914, *Bull. Soc. ent. Fr.*, 52. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 32.

**Allogymnopleurus umbrinus* (GERSTAECKER).

Gymnopleurus umbrinus GERSTAECKER, 1871, *Archiv. Naturg.*, 37 (1) : 49 (type : M.Z.B.); 1873, *v. d. Decken's Reise*, 3 (2) : 125, pl. 7, f. 6.

Paragymnopleurus umbrinus JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 48, 64.

Allogymnopleurus umbrinus JANSSENS, 1940, *Mém. Mus. royal d'Hist. nat. Belg.*, (18) : 36, 39.

Gymnopleurus bocandei WATERHOUSE, 1890, *Ann. Mag. Nat. Hist.*, 5 (6) : 368. — GILLET, 1911, *Ann. Soc. ent. Belg.*, 55 : 310.

P.N.G. : Nagero, 9-31.III.1954, leg. C. NEBAY (93 sp.); n° 330, Aka aval, 27.III.1950, leg. H.D.S. (4 sp.); n° 515, I/o/1, 15.IV.1950, leg. H.D.S. (1 sp.); n° 1315, II/gc/10, 1.III.1951, leg. H.D.S. (2 sp.); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (6 sp.); n° 1395, II/hc/4, 28.II.1951, leg. H.D.S. (1 sp.); n° 1400, II/ec/4, 5.III.1951, leg. H.D.S. (1 sp.); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (20 sp.); n° 1405, II/ec/4, 5.III.1951, leg. H.D.S. (1 sp.); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (1 sp.); n° 1441, II/cb/4, 23.III.1951, leg. H.D.S. (2 sp.); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (1 sp.); n° 1526, II/gd/4, 13.IV.1951, leg. H.D.S. (1 sp.); n° 1439, II/db/4, 23.III.1951, leg. H.D.S. (5 sp.); n° 1444, II/hd/4, 23.III.1951, leg. H.D.S. (1 sp.); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (6 sp.); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (4 sp.); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (445 sp.); n° 1457, II/gd/4, 24.III.1951, leg. H.D.S. (1 sp.); n° 1498, II/gd/4, 28.II.1951, leg. H.D.S. (1 sp.); n° 1790, II/gd/6, 16.V.1951, leg. J.V. (2 sp.); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (7 sp.); n° 2110, Mombia/4, 11.VI.1951, leg. J.V. (53 sp.); n° 2367, II/gc/6, 17.VII.1951, leg. H.D.S. (2 sp.); n° 2680, PpK/55, 26.X.1951, leg. H.D.S. (1 sp.); n° 2799, II/gd/4, 27.XI.1951, leg. H.D.S. (1 sp.); n° 3250, Ndelele/K/120/2, 28.III.1952, leg. H.D.S. (2 sp.); n° 3283, II/gd/4, 4.IV.1952, leg. H.D.S. (22 sp.); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (17 sp.); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (20 sp.); n° 3528, II/id/4, 1.V.1952, leg. H.D.S. (143 sp.); n° 3529, II/gc/6, 29.IV.1952, leg. H.D.S. (1 sp.); n° 3531, II/id/4, 1.IV.1952, leg. H.D.S. (104 sp.); n° 3533, II/gc/6, 29.IV.1952, leg. H.D.S. (5 sp.); n° 3887, II/gc/4, 7.VIII.1952, leg. H.D.S. (1 sp.); n° 4045, II/gd/4, 8.IX.1952, leg. H.D.S. (1 sp.).

Number of specimens : 975.

Geographical distribution. — Senegamb. Zanzibar. Sudan (Wau). Kordofan. Congo (P.N.G.).

Tribe CANTHONINI.

Canthonides PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 22. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 26.

Canthoninae KOLBE, 1905, *Zool. Jahrb.*, Suppl. **8** : 551.

Canthonina JANSSENS, 1949, *Bull. Inst. royal Sc. nat. Belg.*, **25** (15).

Genus ANACHALCOS HOPE.

Anachalcos HOPE, 1837, *Coleopt. Manual.*, **1** : 50 (type : *Scarabaeus cupreus* FABRICIUS). — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 22, 81. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 37. — BOUCOMONT, 1933, *Rev. Zool. Bot. Afr.*, **24** (2) : 183-195. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 16.

Chalconotus REICHE, 1841, *Rev. Zool.*, 212. — LACORDAIRE, 1956, *Gen. Col.*, **3** : 80.

Anachalcos aurescens BATES.

Anachalcos aurescens BATES, 1888, *Ent. Month. Mag.*, **24** : 202 (type : col. R. OBERTHÜR, M. P.). — KOLBE, 1897, *Käfer D. O. Afr.*, **24** : 139. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 37. — BOUCOMONT, 1933, *Rev. Zool. Bot. Afr.*, **24** : 185, 190. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 22, 24.

var. *hopei* KOLBE, 1894, *Stett. Ent. Zeit.*, **55** : 175 (type : Sierra Leone, M.Z.B.). — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 37. — BOUCOMONT, 1924, *Rev. Zool. Bot. Afr.*, **24** : 190. — JANSSENS, 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (21) : 24.

P.N.G. : n° 287, riv. Sanza, 6.III.1950, leg. H.D.S. (1 sp.); n° 347, I/b/1, 29.III.1950, leg. H.D.S. (1 sp.); n° 825, I/o/1, 1-15.IX.1950, leg. G.D. (1 sp.); n° 857, I/o/1, IX.1950, leg. G.D. (4 sp.); n° 1405, II/ec/4, 5.III.1951, leg. H.D.S. (1 sp.); n° 1409, II/gd/4, 16.III.1951, leg. H.D.S. (3 sp.); n° 1457, II/gd/4, 24.III.1951, leg. H.D.S. (1 sp.); n° 1498, II/gd/4, 28.II.1951, leg. H.D.S. (180 sp.); n° 1651, II/gc/4, 11.IV.1951, leg. H.D.S. (233 sp.); n° 1748, II/hc/4, 28.IV.1951, leg. J.V. (9 sp.); n° 1813, II/gd/4, 24.V.1951, leg. H.D.S. (1 sp.); n° 2101, II/gd/4, 27.V.1951, leg. H.D.S. (36 sp.); n° 2108, II/fb/4, 18.IV.1951, leg. J.V. (18 sp.); n° 2369, II/dd/4, 7.VIII.1951, leg. H.D.S. (2 sp.); n° 2534, II/2/gd/4, 6-29.VIII.1951, leg. H.D.S. (198 sp.); n° 2544, II/III/gd/4, 13.IX-1.X.1951, leg. H.D.S. (99 sp.); n° 2544 I, II/I/gd/4, 13.IX-1.X.1951, leg. H.D.S. (98 sp.); n° 2544 II, II/gd/4, 13.IX-1.X.1951, leg. H.D.S. (79 sp.); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (1 sp.); n° 2631, II/fd/17, 10.IX.1961, leg. H.D.S. (50 sp.); n° 2633/1, I/II/gd/4, 6.IX.1951, leg. H.D.S. (151 sp.); n° 2636, II/gd/4, 30.IX.1951, leg. H.D.S. (32 sp.); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (5 sp.); n° 2639, II/ie/4, 20.IX.1951, leg. H.D.S. (3 sp.); n° 2739, II/gd/4, 8.XI.1951, leg. H.D.S. (1 sp.); n° 2863, II/gd/4, 5.XII.1951, leg. H.D.S. (2 sp.); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (6 sp.); n° 3074, II/hd/4, 13.X.1951, leg. H.D.S. (58 sp.); n° 3328, Pidigala, 23.IV.1952, leg. H.D.S. (1 sp.); n° 3475, Aka/2, 19.V.1952, leg. H.D.S. (1 sp.); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (5 sp.); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (1 sp.); n° 3666, II/gc/6, 29.V.1952, leg. H.D.S. (4 sp.); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (1 sp.); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (11 sp.); n° 3998, II/id/4, 2.VIII.1952, leg. H.D.S. (2 sp.); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (27 sp.); n° 4003, II/hd/4, 16.VIII.1952, leg. H.D.S. (12 sp.); n° 4009, PFSK/7/3, 31.VII.1952,

leg. H.D.S. (10 sp.); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (1 sp.); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (1 sp.); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (18 sp.); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (11 sp.); n° 4046, II/ec/4, 5.IX.1952, leg. H.D.S. (10 sp.); n° 4049, II/hc/4, 5.IX.1952, leg. H.D.S. (1 sp.).

Number of specimens : 1.390.

Geographical distribution. — Sudan. Tanganyika (Usambara). Haut Chari (Bouca). Oubanghi-Chari (Fort Sibut). Median Chari (Kias, Gory Damraou). Camerun (Satche). Congo Rep. (Brazz.) (Ouagga, Haute Kemo). Congo (Bumbuli, Djeka, Tshibalaka, Tshipasa, Kapanga, Kabongo, Mutaka, Kasongo, Boma, Bokoro, Kiniati-Jasa, Bokalakala, Ibembo, Lower Itombwe, Kasai, Djamba, Faradje, Congo da Lemba, P.N.G.). Dahomey (Djoungou Kouande, Kandy). Liberia. Sierra Leone. Senegal (Casamance, Sedhiou).

Anachalcos cupreus (FABRICIUS).

Scarabaeus cupreus FABRICIUS, 1775, *Syst. Ent.*, 29 (type : M.U.K.). — OLIVIER, 1789, *Entom. Scarab.*, 1 : 156, pl. 7, f. 38; 1790, *Encycl. Méth.*, 5 : 172.

Coprobius cupreus GUÉRIN & PERCHERON, 1835, *Gen. Ins., Col.*, 3 (5), pl. 9, f. 1.

Chalconotus cupreus REICHE, 1841, *Rev. Zool.*, 212.

Anachalcos cupreus KOLBE, 1897, *Käfer D. O. Afr.*, 140. — BOUCOMONT, 1933, *Rev. Zool. Bot. Afr.*, 24 : 185. — JANSSENS, 1938, *Expl. Parc Nat. Albert, Mission G. F. DE WITTE*, (21) : 22, 24, pl. 2, f. 5.

Anachalcos diversipes KOLBE, 1894, *Stett. ent. Zeit.*, 55 : 175 (type : M.Z.B.); 1897, *Käfer D. O. Afr.*, 140. — BOUCOMONT, 1933, *Rev. Zool. Bot. Afr.*, 24 : 192.

P.N.G. : n° 347, I/b/1, 29.III.1950, leg. H.D.S. (4 sp.); n° 432, K, 17-18.IV.1950, leg. H.D.S. (1 sp.); n° 515, I/o/1, 15.IV.1950, leg. H.D.S. (6 sp.); n° 519, I/o/2, 15.V.1950, leg. H.D.S. (1 sp.); n° 825, I/o/1, 1-15.IX.1950, leg. G.D. (2 sp.); n° 857, I/o/1, IX.1950, leg. G.D. (6 sp.); n° 1457, II/gd/4, 24.III.1951, leg. H.D.S. (1 sp.); n° 1498, II/gd/4, 28.II.1951, leg. H.D.S. (2 sp.).

Number of specimens : 24.

Geographical distribution. — Guinea (Konakry, Dixine Foula). Liberia (Sanghwé). Ivoire Coast (Tiassalé, Assikasso, Abidjean, between Kouroukoro and Mankono). Gold Coast (Aburi). Togo (Bismarckburg, Kete Kratje). Dahomey (Ouidah, Zagnanado and Ketou, Djongou). Nigeria (Agoué, Ganagana, Old Calabar). Camerun (Genderorgberg, Bamenda, Ngila, Jaunde Akonolinga). Congo Rep. (Brazz.) (N'Baiki, Haut Sangha, Carnot, Djimtilo, Dar Banda, Fort Sibut). Congo (Haut Lopori, Buta, Jebo, Moto, Bili to Lebo, Kafakumba, Tshipasa, Uvira, Costermansville, Bokuma, Kigwena, Bosodongo, Yangambi, Semliki, Hayera, Faradje, Dungu Nyan-gara Doruma, Mabenga, May ya Moto, mont Kasali, Kibali Ituri, Mahagi, Bikoro, Maniema, Sandoa, P.N.G.). Uganda (Siroko river, lake Victoria). Abyssinie (Dimé, Harrar). Tanganyika (Bagamoyo). Angola (riv. Kwando).

Tribe **COPRINI**.

- Coprini* GILLET, 1911, *Col. Cat.*, JUNK, **38** : 44. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 5. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 10.
- Coprididae* BURMEISTER, 1846, *Gen. Ins.*, Heft 10, Col. nr. 27.
- Coprides* LACORDAIRE, 1856, *Gen. Col.*, **3** : 64, 86. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 21, 109.

Subtribe **COPRINA**.

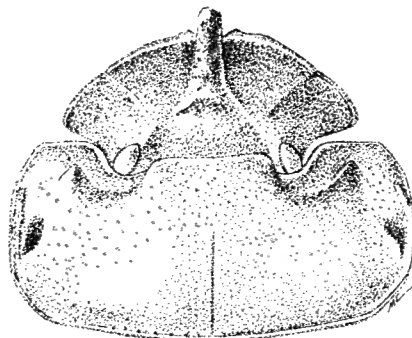
- Coprina* JANSSENS, 1949, *Bull. Inst. royal Sc. nat. Belg.*, **25** (15) : 30.
- Copris* BURMEISTER, 1846, *Gen. Ins.*, Heft 10, Col. nr. 27. — LACORDAIRE, 1856, *Gen. Col.*, **3** : 96.
- Coprinae* KOLBE, 1905, *Zool. Jahrb.*, Suppl. **8** : 549.
- Coprides* GILLET, 1911, *Col. Cat.*, JUNK, **38** : 63.

Genus **COPRIS** GEOFFROY.

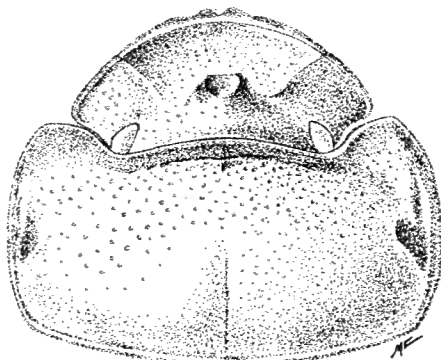
- Copris* GEOFFROY, 1762, *Ins. des envir. de Paris*, **1** : 87, (type : *Scarabaeus lunaris* LINNÉ). — BURMEISTER, 1846, *Gen. Ins.*, Heft 10, Col. nr. 27. — ERICHSON, 1847, *Naturg. Ins. Deutschl.*, **1** (3) : 761, 786. — LACORDAIRE, 1856, *Gen. Col.*, **3** : 95, 96. — REITTER, 1893, *Best. Tab.*, **24** : 160, 214; 1893 (1894), *Verh. naturg. Ver. Brunn.*, **31** : 39, 93. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 110, 342. — SCHAEFFER, 1906, *Trans. Ann. Ent. Soc.*, **32** : 255. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 71; 1921, *Faune entom. Indoch. Fr.*, **4**, *Scarab. Lapar.*, 10. — BOUCOMONT, 1914, *Ann. Soc. ent. Fr.*, **83** : 330. — ARROW, 1931, *Fauna Brit. India, Col. Fam.*, **3**, *Copr.*, 102. — BALTHASAR, 1935, *Best. Tab. europ. Col.*, **115** (1) : 66. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 40. — PAULIAN, 1941, *Faune de France*, **38**, *Col. Scar.*, 57; 1945, *Faune de l'Empire français*, **3** : 71. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94) : 313; 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 11.

Subgenus **COPRIS** s. str.

- Copris* BALTHASAR, 1958, *Acta Ent. Nat. Mus. Pragae*, **32** (517) : 473 (type : *Scarabaeus lunaris* LINNÉ).



24



25

FIGS. 24-25. — *Copris armiger* GILLET.

Head and pronotum, dorsal view.

24 : Type ♂. — 25 : Type ♀.

***Copris armiger* GILLET.**

(Figs. 24-25.)

Copris armiger GILLET, 1910, *Notes Leyden Mus.*, **32** : 1 [type : Usambara (Tg.), M.R.C.B.]; 1911, *Col. Cat.*, JUNK, **38** : 72. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 11.

P.N.G. : n° 86, I/o, XI.1949, leg. H.D.S. (1 ♂); n° 399, I.o.1, 12.IV.1950, leg. G.D. (with light) (1 ♂); n° 426, Gangala-na-Bodio, XI.1949, leg. G.D. (1 ♂); n° 995, II/c, 18.XII.1950, leg. H.D.S. (1 ♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (1 ♂); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (bouses d'éléphants); n° 4018, Iso/II (*Isobertinia* forest), 12.VI.1952, leg. H.D.S. (1 ♂); n° 4019, Iso/II (*Isobertinia* forest), 12.VI.1952, leg. H.D.S. (1 ♂).

Number of specimens : 6 ♂♂, 1 ♀.

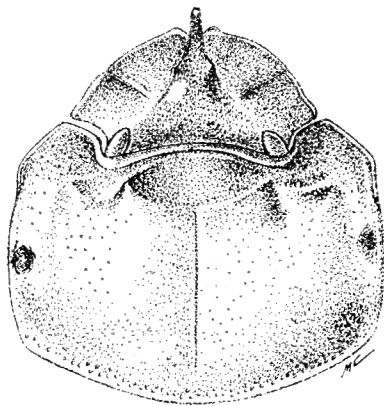
Geographical distribution. — Tanganyika (Usambara). Congo (Kaswabilenga, Kapanga, Lomami, Kateke, Kaziba, Mukana, Léopoldville, Elisabethville, P.N.G.). Southern Rhodesia (Vumba, Salisbury). Transvaal (Marieps, Pretoria Johannesburg). Moçambique (Magude). Northern Rhodesia (N'Changa).

***Copris carmelita* FABRICIUS.**

(Fig. 26.)

Copris carmelita FABRICIUS, 1801, *Syst. Eleuth.*, **1** : 39 (type : Guinea, M.U.K.). — HAROLD, 1875, *Stett. Ent. Zeit.*, **36** : 453. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 73.

Copris morgani WATERHOUSE, 1891, *Ann. Mag. Nat. Hist.*, **7** (6) : 514 (type : Sierra Leone, B.M.). — GILLET, 1908, *Ann. Soc. ent. Belg.*, **52** : 56.



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FIG. 26. — *Copris carmelita* FABRICIUS.
Head and pronotum (type ♂), dorsal view.

P.N.G. : n° 163, I/c/2, 20.I.1950, leg. G.D. (1 ♂, 3 ♀♀); n° 221, I/o/1, 27.II.1950, leg. H.D.S. (1 ♀); n° 519, I/o/2, leg. H.D.S. (1 ♀); n° 825, I/o/1, 15.IX.1950, leg. G.D. (1 ♂); n° 1406, II/fc/4, 20.II.1951, leg. H.D.S. (1 ♂); n° 3536, II/ed/6, 27.V.1952, leg. H.D.S. (1 ♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (3 ♂♂, 1 ♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀).

Number of specimens : 7 ♂♂, 9 ♀♀.

Geographical distribution. — Senegal. Senegamb. Sierra Leone. Congo (Bambesa, Luma, P.N.G.). Uganda (Bussu). Nigeria (Lagos, Panyam, Ileska). Togo (Lome, Kpandu). Guinea (N'Zerekoré). Dahomey (Porto Novo).

Copris dracunculus FERREIRA.

Copris dracunculus FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G.F. DE WITTE, (58) : 13, fig. 1-4 (type : Congo, I.P.N.C.B.).

P.N.G. : n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (1 ♂); n° 1647, II/ed/4, 29.III.1951, leg. J.V. (3 ♀♀); n° 3536, II/je/4, 27.IV.1952, leg. H.D.S. (1 ♂); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (2 ♀♀).

Number of specimens : 2 ♂♂, 6 ♀♀.

Geographical distribution. — Congo (P.N.U., P.N.G.).

***Copris gazellarum GILLET.**

Copris gazellarum GILLET, 1918, *Zool. Mededeelingen*, 4 : 148 (type : Isle Wau, col. FELSCHE, M. Dr.).

P.N.G. : n° 221, I/o/1, 27.II.1950, leg. H.D.S. (1 ♀); n° 1046, II/f, 4.I.1951, leg. J.V. (1 ♀); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (1 ♂); n° 1395, II/hc/4, 28.II.1951, leg. H.D.S. (1 ♂); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♀); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 1458, II/fc/5, 27.III.1951, leg. H.D.S. (1 ♂); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (1 ♂, 2 ♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (1 ♂); n° 1647, II/ed/4, 29.III.1951, leg. J.V. (1 ♂, 1 ♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♂); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♀); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (2 ♂♂); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (1 ♂); n° 2367, II/gc/6, 17.VII.1951, leg. H.D.S. (2 ♀♀); n° 2369, II/dd/4, 7.VIII.1951, leg. H.D.S. (1 ♀); n° 2370, II/dd/4, 22.VIII.1951, leg. H.D.S. (1 ♂); n° 2371, II/de/4, 7.VIII.1951, leg. H.D.S. (1 ♂); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (1 ♀); n° 3075, II/hd/4, 15.X.1951, leg. H.D.S. (1 ♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (4 ♂♂, 5 ♀); n° 3659, PFSK 5/7, 20.VI.1952, leg. H.D.S. (1 ♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (1 ♂); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (1 ♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (1 ♂); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (1 ♀); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (1 ♀); n° 4009, PFSK 7/3, 31.VII.1952, leg. H.D.S. (1 ♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (3 ♂♂, 1 ♀).

Number of specimens : 25 ♂♂, 27 ♀♀.

Geographical distribution. — Isle Wau. Uganda (Entebbe). Congo (P.N.G.). Sudan.

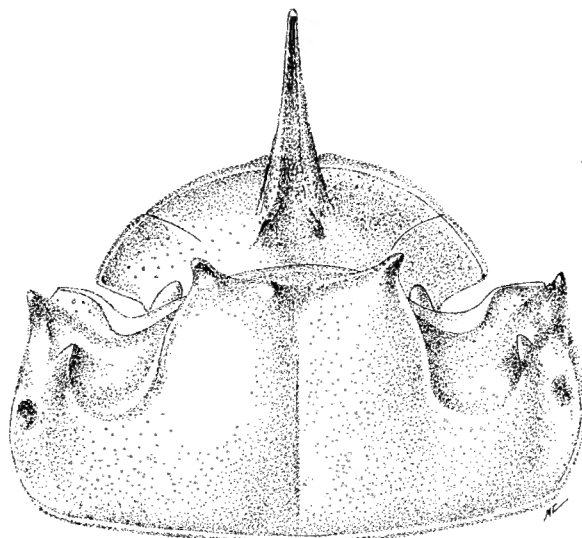
Copris interioris KOLBE.

(Fig. 27.)

Copris interioris KOLBE, 1897, *Käfer D. O. Afr.*, 143 (type : Tanganyika, M.Z.B.). — GILLET, 1907, *Ann. Soc. ent. Belg.*, 51 : 182; 1911, *Col. Cat.*, JUNK, 38 : 74. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, 29 : 43, pl. 2, f. 6, 7; 1956, *Ann. Mus. royal Congo Belge*, série in-8°, *Zool.*, 51 : 355.

Copris pluridens GILLET, 1908, *Mém. Soc. ent. Belg.*, 16 : 70 (type : I.R.S.N.B.); 1911, *Col. Cat.*, JUNK, 38 : 77.

P.N.G. : Gangala na Bodio, 8-12.IV.1945, leg. G. F. DE WITTE (1 ♂, 1 ♀); n° 86, I/o, XI.1949, leg. G.D. (1 ♂, 3 ♀♀); n° 161, I/c/2', 20.I.1950, leg. G.D. (1 ♂); n° 163, I/c/2', 20.I.1950, leg. G.D. (2 ♀♀); n° 221, I/o/1, 27.II.1950, leg. H.D.S. (1 ♀); n° 330, Aka aval, 27.III.1920, leg. H.D.S. (1 ♂); n° 519, I/o/2, 15.V.1950, leg. H.D.S. (1 ♀); n° 825, I/o, 1-15.IX.1950, leg. G.D. (1 ♂); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (3 ♂♂); n° 1391, II/fc/5, leg. H.D.S. (1 ♂, 2 ♀♀); n° 1402, II/cc/4, 5.III.1951, leg. H.D.S. (6 ♂♂, 2 ♀♀); n° 1405, II/cc/4, 5.III.1951, leg. H.D.S. (1 ♂); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (22 ♂♂, 6 ♀♀); n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 1499, II/cc/4, 20.III.1951, leg. H.D.S. (63 ♂♂, 66 ♀♀);



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FIG. 27. — *Copris interioris* KOLBE.
Head and pronotum (type ♂), dorsal view.

n° 1646, II/ed/4, 29.III.1951, leg. J.V. (8 ♂♂, 3 ♀♀); n° 1647, II/cd/4, 29.III.1951, leg. J.V. (82 ♂♂, 84 ♀♀); n° 1648, II/cc/4, 3.IV.1951, leg. H.D.S. (18 ♂♂, 7 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (10 ♂♂, 2 ♀♀); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (17 ♂♂, 27 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (8 ♂♂); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (24 ♂♂, 29 ♀♀); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (42 ♂♂, 24 ♀♀); n° 2108, II/fb/4, 18.IV.1951, leg. J.V. (1 ♀); n° 2109, II/ge/4, 18.V.1951, leg. H.D.S. (1 ♂); n° 2366, II/id/4, 28.VII.1951, leg. H.D.S. (1 ♂); n° 2367, II/ge/6, 17.VII.1951, leg. H.D.S. (11 ♂♂, 6 ♀♀); n° 2368, II/nf/2, 13.VIII.1951, leg. H.D.S. (1 ♀); n° 2369, II/dd/4, 7.VIII.1952, leg. H.D.S. (12 ♂♂, 23 ♀♀); n° 2370, II/dd/4, 22.VIII.1951, leg. H.D.S. (9 ♂♂, 10 ♀♀); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2627, II/hd/4, 3.IX.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (23 ♂♂, 31 ♀♀); n° 2632, II/hd/4, 3.IX.1951, leg. H.D.S. (1 ♀); n° 2633, II/gd/4, 6.IX.1951, leg. H.D.S. (1 ♂); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (13 ♂♂, 7 ♀♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (6 ♂♂, 5 ♀♀); n° 3074, II/hd/4, 13.X.1951, leg. H.D.S. (1 ♂); n° 3358, Pidigala, 23.IV.1952, leg. H.D.S. (2 ♀♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (2 ♂♂); n° 3530, II/hd/4, 7.IV.1952, leg. H.D.S. (3 ♂♂, 1 ♀); n° 3532, II/ge/6, 29.IV.1952, leg. H.D.S. (5 ♂♂, 2 ♀♀); n° 3534, II/id/4, 1.IV.1952, leg. H.D.S. (1 ♀); n° 3536, II/ed/6, 27.IV.1952, leg.

H.D.S. (84 ♂♂, 65 ♀♀); n° 3637, II/jd/4, 3.X.1951, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (9 ♂♂, 5 ♀♀); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (11 ♂♂); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (16 ♂♂, 18 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (31 ♂♂, 24 ♀♀); n° 3666, II/gc/6, 29.V.1952, leg. H.D.S. (2 ♀♀); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (3 ♂♂, 4 ♀♀); n° 3672, II/ie/4, 6.VI.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (18 ♂♂, 28 ♀♀); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (4 ♂♂, 6 ♀♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (4 ♂♂, 9 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (3 ♂♂, 3 ♀♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (1 ♂, 6 ♀♀); n° 4003, II/hd/4, 16.VIII.1952, leg. H.D.S. (2 ♂♂); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (1 ♂, 6 ♀♀); n° 4009, PFSK 7/3, 31.VII.1952, leg. H.D.S. (22 ♂♂, 43 ♀♀); n° 4010, II/fc/6, 4.VII.1952, leg. H.D.S. (1 ♂); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (1 ♂); n° 4012, II/ie/4, 17.VII.1952, leg. H.D.S. (2 ♂♂); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (3 ♀♀); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (4 ♂♂, 1 ♀); n° 4019, Iso/II, 12.VI.1952, leg. H.D.S. (3 ♂♂, 3 ♀♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (30 ♂♂, 16 ♀♀); n° 4049, II/he/4, 5.IX.1952, leg. H.D.S. (2 ♀♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♂, 2 ♀♀).

Number of specimens : 658 ♂♂, 633 ♀♀.

Geographical distribution. — Victoria Nyanza (Bugala). Portuguese Guinea (Bolama). Guinea [Mont Gangan, Fouta Djallon (Dalaba)]. Congo (Bunia, Arara-Aru, Aru, Kanyinya, Bambesa, P.N.G.). Nigeria (Lagos). Camerun (Dalobo). Tanganyika (Kianjuba Bukoba). Uganda.

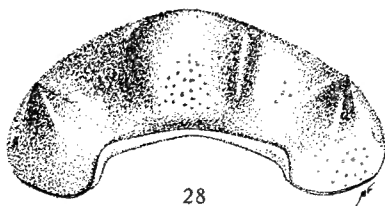
***Copris jucundus GILLET.**

(Figs. 28-29.)

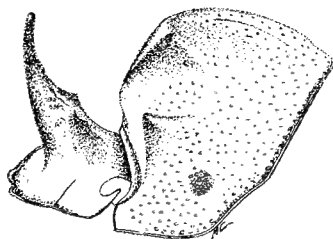
Copris jucundus GILLET, 1933, *Bull. Ann. Soc. ent. Belg.*, 326 [type : Joko (C.), col. GILLET, I.R.S.N.B. !].

P.N.G. : n° 138, I/o/1, 21.XII.1949, leg. G.D. (1 ♂, 1 ♀); n° 202, I/b/1, 8.II.1950, leg. H.D.S. (1 ♂); n° 221, I/o/1, 27.II.1950, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 303, mont Bamangwa, 8.III.1950, leg. H.D.S. (1 ♀); n° 331, I/o/1, 27.III.1950, leg. H.D.S. (1 ♀); n° 347, I/b/1, 29.III.1950, leg. H.D.S. (1 ♀); n° 825, I/o/1, 1-15.IX.1950, leg. G.D. (1 ♀); n° 1042, II/ec/4, 5.III.1951, leg. H.D.S. (5 ♀♀); n° 1084, PpK/10, 11.I.1951, leg. J.V. (2 ♀♀); n° 1106, Kassi-Garamba, 20.I.1951, leg. J.V. (2 ♂♂, 6 ♀♀); n° 1282, II/ed/10, 21.II.1951, leg. H.D.S. (1 ♀); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (27 ♂♂, 44 ♀♀); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (5 ♂♂, 4 ♀♀); n° 1393, II/ke/4, 2.III.1951, leg. H.D.S. (1 ♀); n° 1395, II/he/4, 28.II.1951, leg. H.D.S. (18 ♂♂, 16 ♀♀); n° 1396, II/ke/4, 2.III.1951, leg. H.D.S. (2 ♀♀); n° 1398, II/ke/4, 15.II.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 1400, II/ec/4, 5.III.1951, leg. H.D.S. (2 ♂♂, 5 ♀♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (39 ♂♂, 31 ♀♀); n° 1403, II/ed/5, 26.I.1951, leg. J.V. (7 ♂♂, 8 ♀♀); n° 1405, II/ec/4, 5.III.1951, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 1406, II/fc/4, 20.II.1951, leg. H.D.S. (54 ♂♂, 39 ♀♀); n° 1458, II/fc/5, 27.III.1951, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (46 ♂♂, 48 ♀♀); n° 1500, II/ge/11, 12.III.1951, leg. H.D.S. (1 ♀); n° 1560, II/gd/4, 16.IV.1951, leg. H.D.S. (6 ♂♂, 6 ♀♀); n° 1664, II/fb/4, 18.IV.1951, leg. J.V. (1 ♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (14 ♂♂, 12 ♀♀); n° 1647, II/cd/4, 29.III.1951, leg. J.V. (15 ♂♂, 17 ♀♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (38 ♂♂, 51 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (41 ♂♂, 41 ♀♀); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (13 ♂♂, 28 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (2 ♂♂, 6 ♀♀); n° 1748, II/he/4, 20.IV.1951, leg. J.V. (1 ♀); n° 2098, II/ge/4, 13.V.1951, leg. H.D.S. (20 ♂♂, 30 ♀♀); n° 2099, II/dd/4, 7.VI.1934, leg. H.D.S. (28 ♂♂, 27 ♀♀); n° 2367, II/gc/6, 17.VII.1951, leg. H.D.S. (18 ♂♂, 16 ♀♀); n° 2368, II/nf/2, 13.VIII.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2369, II/dd/4, 7.VIII.

1951, leg. H.D.S. (8 ♂♂, 7 ♀♀); n° 2370, II/dd/4, 22.VIII.1951, leg. H.D.S. (5 ♂♂, 8 ♀♀); n° 2371, II/dc/4, 7.VIII.1951, leg. H.D.S. (2 ♂♂); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (2 ♂♂); n° 2546, II/id/4, 10.IX.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 2627, II/hd/4, 3.IX.1951, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (11 ♂♂, 9 ♀♀); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (3 ♂♂, 4 ♀♀); n° 2632, II/hd/4, 3.IX.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (29 ♂♂, 13 ♀♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (15 ♂♂, 16 ♀♀); n° 2639, II/ic/4, 28.IX.1951, leg. H.D.S. (3 ♂♂, 2 ♀♀); n° 3071, II/id/4, leg. H.D.S. (3 ♂♂, 3 ♀♀); n° 3073, II/hd/4, 14.XII.1951, leg.



28



29

FIGS. 28-29. — *Copris jucundus* GILLET.

28 : Pronotum (type ♂), anterior view.

29 : Head and pronotum (type ♂), lateral view.

H.D.S. (15 ♂♂, 12 ♀♀); n° 3074, II/hd/4, 13.X.1951, leg. H.D.S. (1 ♂); n° 3075, II/hd/4, 15.X.1951, leg. H.D.S. (7 ♂♂, 4 ♀♀); n° 3072, II/hd/4, 14.XII.1951, leg. H.D.S. (5 ♂♂, 4 ♀♀); n° 3280, PpK/14/g/2, 4.IV.1951, leg. H.D.S. (1 ♂); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (2 ♂♂); n° 3529, II/gc/6, 29.IV.1952, leg. H.D.S. (5 ♂♂, 3 ♀♀); n° 3530, II/hd/4, 7.IV.1952, leg. H.D.S. (23 ♂♂, 11 ♀♀); n° 3532, II/gc/6, 29.IV.1952, leg. H.D.S. (53 ♂♂, 70 ♀♀); n° 3533, II/gc/6, 29.IV.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3534, II/id/4, 1.IV.1952, leg. H.D.S. (3 ♀♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (76 ♂♂, 122 ♀♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (2 ♀♀); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (2 ♀♀); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (24 ♂♂, 47 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (23 ♂♂, 30 ♀♀); n° 3666, II/gc/6, 29.V.1952, leg. H.D.S. (5 ♀♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (3 ♂♂, 8 ♀♀); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (2 ♀♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♂, 8 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (3 ♂♂, 2 ♀♀); n° 4003, II/hd/4, 16.VIII.1952, leg. H.D.S. (5 ♂♂, 1 ♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (3 ♂♂, 12 ♀♀); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (6 ♂♂, 4 ♀♀); n° 4009, PFSK 7/3, 31.VII.1952, leg. H.D.S. (25 ♂♂, 84 ♀♀); n° 4010, II/fc/16, 4.VII.1952, leg. H.D.S. (1 ♂, 4 ♀♀); n° 4011, II/fd/5, 24.VI.1952,

leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 4012, II/ie/4, 17.VII.1952, leg. H.D.S. (1 ♂, 3 ♀♀); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (7 ♂♂, 1 ♀); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (2 ♂♂); n° 4017, II/fc/6, 4.VII.1952, leg. H.D.S. (1 ♀); n° 4019, Iso/II, 12.VI.1952, leg. H.D.S. (2 ♀♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (40 ♂♂, 59 ♀♀); n° 4046, II/ec, 5.IX.1952, leg. H.D.S. (1 ♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀).

Number of specimens : 829 ♂♂, 1.047 ♀♀.

Geographical distribution. — Camerun (Joko). Congo (P.N.G.).

***Copris megaceratoides WATERHOUSE.**

Copris megaceratoides WATERHOUSE, 1891, *Ann. Mag. Nat. Hist.*, **7** (6) : 511 (type : Senegamb, B.M.). — GILLET, 1908, *Mém. Soc. ent. Belg.*, **16** : 72, f. 4, 5; 1911, *Col. Cat.*, JUNK, **38** : 76.

P.N.G. : n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (1 ♂, 3 ♀♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (1 ♂, 1 ♀); n° 1647, II/ed/4, 29.III.1951, leg. J.V. (21 ♂♂, 8 ♀♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♂, 5 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. J.V. (7 ♂♂, 6 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (1 ♂); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (3 ♂♂); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (6 ♂♂, 3 ♀♀); n° 2109, II/ge/4, 18.V.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 2367, II/ge/6, 17.VII.1951, leg. H.D.S. (1 ♀); n° 2370, II/dd/4, 22.VIII.1951, leg. H.D.S. (3 ♀♀); n° 2371, II/de/4, 7.VIII.1951, leg. H.D.S. (1 ♂); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (1 ♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (2 ♂♂, 5 ♀♀); n° 2630, II/id/4, 2.X.1951, leg. H.D.S. (1 ♀); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (1 ♂); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (1 ♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (3 ♂♂, 1 ♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (3 ♂♂, 2 ♀♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (2 ♂♂); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (4 ♂♂, 3 ♀♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (10 ♂♂, 6 ♀♀); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (1 ♀); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (5 ♂♂, 5 ♀♀); n° 4018, Iso/II, 12.VI.1952, leg. H.D.S. (4 ♂♂); n° 4019, Iso/II, 12.VI.1952, leg. H.D.S. (1 ♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀).

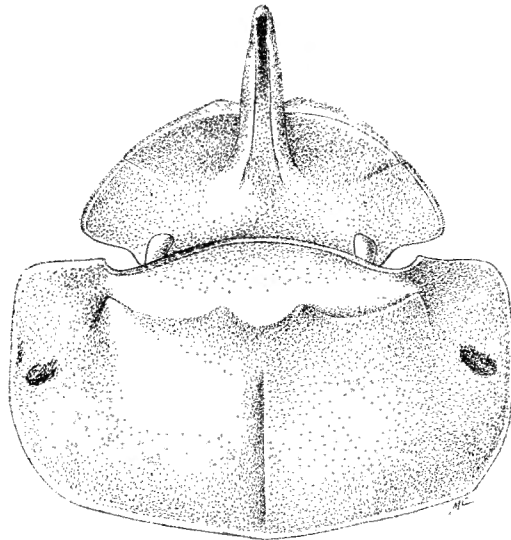
Number of specimens : 87 ♂♂, 71 ♀♀.

Geographical distribution. — Guinea (Mont Gangan. Congo (P.N.G.).

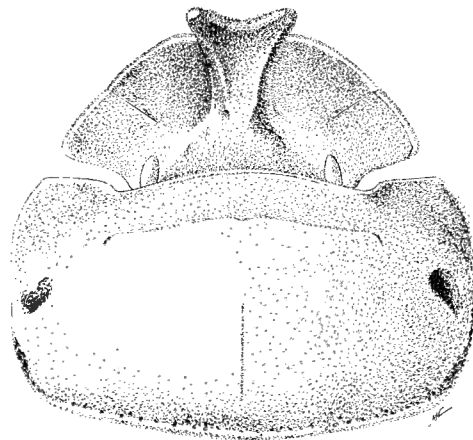
Copris mesacanthus HAROLD.

Copris mesacanthus HAROLD, 1878, *Mitt. Münch. Ent. Ver.*, **2** : 45 (type : Niassa, M.Z.B.). — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 345, 362, t. 33, f. 7. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 76. — FERREIRA, 1958, *South African Animal Life*, **5** : 500; 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 17.

P.N.G. : n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (2 ♀♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♀); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (4 ♂♂); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (1 ♀); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (3 ♀♀); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (1 ♀); n° 3072, II/hd/4, 14.XII.1951, leg. H.D.S. (1 ♀); n° 3073, II/hd/4, 14.XII.



30



31

FIGS. 30-31. — *Copris moffarsi* GILLET.
Head and pronotum, dorsal view.
30 : Type ♂. — 31 : Type ♀.

1951, leg. H.D.S. (2 ♂♂, 6 ♀♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (1 ♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (1 ♀); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (1 ♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♂).

Number of specimens : 8 ♂♂, 23 ♀♀.

Geographical distribution. — Transvaal (Skukuza, Letaba, Marieps Mts, Olifants river, Woodbush, Naboomspruit, Johannesburg, Potchefstroom, Hex River, Waterval onder, Brak river, Blyde river, Barberton. Mozambique (Namaacha). Northern Rhodesia (Kashitu). Southern Rhodesia (Sebakwe, Umtali, Salisbury). Nyasaland (Zomba). Angola (Quirimbo). Congo (P.N.U., P.N.G.). Natal (Frere, Durban, Mfongosi). Ovampoland. Orange Free State (Parijs). Nyasa.

Copris mesacanthus HAROLD var. **coriarius** GILLET.

var. *coriarius* GILLET, 1907, *Ann. Soc. ent. Belg.*, **51** : 178 (type : Abyssinie, I.R.S.N.B. !); 1911, *Col. Cat.*, JUNK, **38** : 73.

P.N.G. : n° 194, I/o/1, 4.II.1950, leg. H.D.S. (2 ♀♀); n° 202, I/b/1, 8.II.1950, leg. H.D.S. (2 ♀♀); n° 221, I/o/1, 27.II.1950, leg. H.D.S. (2 ♀♀); n° 1006, II/f, 27.XII.1950, leg. H.D.S. (3 ♀♀); n° 1046, II/f, 4.I.1951, leg. J.V. (1 ♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (2 ♀♀); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (1 ♂); n° 2632, II/hd/4, 3.IX.1951, leg. H.D.S. (1 ♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (1 ♂, 3 ♀♀); n° 2639, II/ie/4, 28.IX.1951, leg. H.D.S. (1 ♀); n° 3073, II/hd/4, 14.XII.1951, leg. H.D.S. (1 ♀); n° 3665, II/ge/6, 29.V.1952, leg. H.D.S. (1 ♂, 1 ♀).

Number of specimens : 3 ♂♂, 18 ♀♀.

Geographical distribution. — Nigeria (Zungeru). Uganda. Congo (P.N.U., P.N.G.). Zanzibar.

Copris moffartsi GILLET.

(Figs. 30-31.)

Copris moffartsi GILLET, 1907, *Ann. Soc. ent. Belg.*, **51** : 177 [type : Kisantu (R.C.), I.R.S.N.B. !]; 1911, *Col. Cat.*, JUNK, **38** : 76. — JANSSENS, 1956, *Ann. Mus. royal Congo Belge*, série in-8°, *Zool.*, **51** : 354.

P.N.G. : n° 219, I/c/1, 24.II.1950, leg. G.D. (8 ♂♂, 9 ♀♀); n° 287, riv. Sanza, 6.III.1950, leg. H.D.S. (1 ♀); n° 289, mont Bamangwa, 8.III.1950, leg. H.D.S. (1 ♀); n° 647, I/b/1, 28.VI.1950, leg. G.D. (2 ♀♀); n° 1258, II/fc/4, 16.II.1951, leg. J.V. (1 ♂); n° 1282, II/ed/10, 21.II.1951, leg. H.D.S. (1 ♂); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (89 ♂♂, 102 ♀♀); n° 1391, II/fc/5, 28.II.1952, leg. H.D.S. (8 ♂♂, 6 ♀♀); n° 1392 (1 ♂, 1 ♀); n° 1394, II/me/4, 9.II.1951, leg. J.V. (1 ♀); n° 1395, II/hc/4, 28.II.1951, leg. H.D.S. (10 ♂♂, 3 ♀♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (33 ♂♂, 37 ♀♀); n° 1403, II/ed/5, 26.I.1951, leg. J.V. (1 ♂); n° 1405, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (22 ♂♂, 20 ♀♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (10 ♂♂, 10 ♀♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (46 ♂♂, 52 ♀♀); n° 1500, II/ge/11,

12.III.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (70 ♂♂, 54 ♀♀); n° 1647, II/ed/4, 29.III.1951, leg. J.V. (66 ♂♂, 69 ♀♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (41 ♂♂, 33 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (61 ♂♂, 48 ♀♀); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (50 ♂♂, 57 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (5 ♂♂, 6 ♀♀); n° 1748, II/hc/4, 20.IV.1951, leg. J.V. (1 ♂); n° 1749, II/ed/8, 30.IV.1951, leg. J.V. (2 ♂♂, 2 ♀♀); n° 2098, II/gc/4, 13.V.1952, leg. H.D.S. (46 ♂♂, 30 ♀♀); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (4 ♂♂, 6 ♀♀); n° 2367, II/ge/6, 17.VII.1951, leg. H.D.S. (3 ♂♂); n° 2368, II/nf/2, 13.VIII.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 2369, II/dd/4, 7.VIII.1951, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 2370, II/dd/4, 22.VIII.1951, leg. H.D.S. (8 ♂♂, 16 ♀♀); n° 2371, II/dc/4, 7.VIII.1951, leg. H.D.S. (1 ♂); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (2 ♂♂); n° 2546, II/id/4, 10.IX.1951, leg. H.D.S. (2 ♀♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (25 ♂♂, 31 ♀♀); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 2630, II/id/4, 2.X.1951, leg. H.D.S. (1 ♀); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 2635, II/je/4, 8.X.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (54 ♂♂, 61 ♀♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (18 ♂♂, 14 ♀♀); n° 3070, II/fd/6, 5.XII.1951, leg. H.D.S. (2 ♂♂); n° 3071, II/id/4, 7.XI.1951, (5 ♂♂, 3 ♀♀); n° 3073, II/hd/4, 14.III.1951 (4 ♂♂, 1 ♀); n° 3280, PpK/14/g/2, 4.IV.1952, leg. H.D.S. (2 ♂♂); n° 3317, II/hd/4, 11.II.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 3323, PpK/73/4, 9.IV.1952, leg. H.D.S. (4 ♂♂); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (98 ♂♂, 63 ♀♀); n° 3530, II/hd/4, 7.IV.1952, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 3533, II/gc/6, 29.IV.1952, leg. H.D.S. (4 ♂♂, 1 ♀); n° 3534, II/id/4, 1.IV.1952, leg. H.D.S. (15 ♂♂, 6 ♀♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (25 ♂♂, 23 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (3 ♂♂, 5 ♀♀); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (3 ♂♂); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (8 ♂♂, 13 ♀♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (1 ♀); n° 4003, II/hd/4, 16.VIII.1952, leg. H.D.S. (1 ♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (1 ♂); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (12 ♂♂, 5 ♀♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (8 ♂♂, 8 ♀♀); n° 4010, II/fc/6, 4.VII.1952, leg. H.D.S. (1 ♀); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (1 ♂); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (4 ♂♂, 2 ♀♀); n° 4015, II/id/4, 9.VIII.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (1 ♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 4046, II/ec/4, 5.IX.1952, leg. H.D.S. (2 ♀♀); n° 4049, II/hc/4, 5.IX.1952, leg. H.D.S. (2 ♂♂, 8 ♀♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀).

Number of specimens : 909 ♂♂, 841 ♀♀.

Geographical distribution. — Congo [Kisantu; Kibungu (Ruanda); Akini (Aru); Levi; Bambesa, Kitega (Urundi), Demu (Kibali-Ituri); Tukpwo; Rutshuru; Tshuruyaga; Gitarama; Nduga; Rukoma (Ruanda); Usumbura (Urundi); P.N.G.]. Uganda.

Copris orion KLUG.

Copris orion KLUG, 1835, *Erman's Reise, Atlas*, 34 (type : Cafraria, M.Z.B. !). — BOHEMAN, 1857, *Ins. Caffr.*, 2 : 240. — WATERHOUSE, 1891, *Ann. Mag. Nat. Hist.*, 7 (6) : 516. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, 12 : 344, 348. — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 77. — JANSSENS, 1956, *Ann. Mus. royal Congo Belge*, série in-8°, *Zool.*, 51 : 335. — FERREIRA, 1958, *South African Animal Life*, 5 : 501.

var. *caffer* GILLET, 1908, *Mém. Soc. ent. Belg.*, 16 : 70.

var. *centralis* GILLET, 1908, *Mém. Soc. ent. Belg.*, 16 : 70.

P.N.G. : n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (2 ♂♂); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (9 ♂♂, 10 ♀♀); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (1 ♀); n° 2366, II/id/4, 28.VII.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2369, II/dd/4, VIII.1951, leg. H.D.S. (9 ♂♂, 10 ♀♀); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (1 ♂); n° 2632, II/hd/4, 3.IX.1951, leg. H.D.S. (3 ♂♂); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (2 ♂♂); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (2 ♂♂); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (5 ♂♂, 9 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (4 ♂♂, 8 ♀♀); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 4003, II/hd/4, 16.VIII.1952, leg. H.D.S. (2 ♀♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (3 ♂♂, 1 ♀).

Number of specimens : 43 ♂♂, 43 ♀♀.

Geographical distribution. — Transvaal (Christiana, Warmbaths). Congo (Gitarama, Rukoma, Luluabourg, Albertville, Butiaba, Lulua, Manzadi, Levi, Bukavu, Bambesa, Kaniama, Sandoa, Kafakumba, Bunia, Kitega, Nioka, Buhoma, Lomami, Rwankwi, P.N.G.). Angola (Dundo). Tanganyika (Kigonsera). Kenya (Nairobi). Senegal. Nigeria (Bamenda). Mozambique (Ponta do Ouro, Umbeluzi, Zambeze). Cape Province (Cape of Good Hope, Port Elizabeth). Natal (Malvern).

Copris orphanus GUÉRIN.

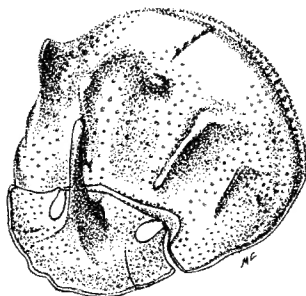
(Figs. 32-33.)

Copris orphanus GUÉRIN, 1847, (1849), *Voy. Lefèbre Abyss.*, 6 (4) : 308, t. 4, f. 3 (type : Abyssinie). — HAROLD, 1869, *Col. Hefte*, 5 : 61. — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 77. — BOUCOMONT, 1925, *Mission Rohan-Chabot*, 122. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 43, pl. 2, f. 8; 1956, *Ann. Mus. royal Congo Belge*, série in-8°, *Zool.*, 51 : 354. *Copris neptis* REICHE, 1847 (1850), in FERRET & GALINIER, 3 : 314, t. 19, f. 3 (type : Abyssinie).

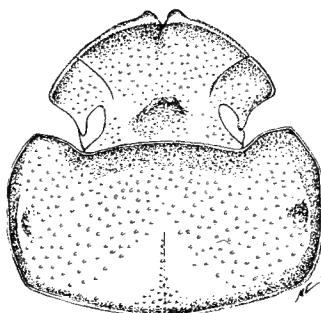
P.N.G. : n° 86, I/o, XI.1949, leg. H.D.S. (1 ♀); n° 1084, PpK/10, 11.I.1951, leg. J.V. (1 ♀); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (5 ♀♀); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (1 ♀); n° 1395, II/he/4, 28.II.1951, leg. H.D.S. (3 ♀♀); n° 1397, II/hd/4, 21.II.1951, leg. H.D.S. (1 ♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (2 ♀♀); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (2 ♂♂, 8 ♀♀); n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (1 ♀); n° 1458, II/fc/5, 27.III.1951, leg. H.D.S. (2 ♀♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (3 ♂♂, 5 ♀♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (1 ♀); n° 1647, II/cd/4, 29.III.1951, leg. J.V. (1 ♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (6 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (2 ♂♂, 10 ♀♀); n° 1650, II/gc/4, 13.V.1951, leg. H.D.S. (5 ♂♂, 5 ♀♀); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (1 ♀); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (3 ♀♀); n° 2369, II/dd/4, 7.VIII.1951, leg. H.D.S. (3 ♀♀); n° 2546, II/id/4, 10.IX.1951, leg. H.D.S. (1 ♂); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (1 ♀); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (1 ♀); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (1 ♀); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2639, II/ie/4, 28.IX.1951, leg. H.D.S. (1 ♂); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 3204, Mabanga, 20.III.1952, leg. H.D.S. (2 ♂♂); n° 3325, Pidigala, 24.IV.1952, leg. H.D.S. (1 ♀); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (1 ♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 3530, II/hd/4, 7.IV.1952, leg. H.D.S. (1 ♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (5 ♂♂, 8 ♀♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (1 ♂, 3 ♀♀); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (1 ♂); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (1 ♂, 6 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (1 ♀); n° 3666, II/gc/6, 29.V.1952, leg. H.D.S. (1 ♀); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (1 ♀); n° 4003, II/hd/4, 16.VIII.1952,

leg. H.D.S. (1 ♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 4010, II/fc/6, 4.VII.1952, leg. H.D.S. (1 ♀); n° 4046, II/ec/4, 5.IX.1952, leg. H.D.S. (1 ♂).

Number of specimens : 33 ♂♂, 97 ♀♀.



32



33

FIGS. 32-33. — *Copris orphanus* GUÉRIN.

Head and pronotum.

32 : Type ♂. — 33 : Type ♀.

Geographical distribution. — Abyssinie. Guinea (Dalaba) Congo [Tshibinda, Élisabethville, Bukavu, Kalinga, Vitshumbi, Burunga, Munagana, Burambi, Ninda, May ya Moto, Kanya-bayongo, Katanda, Rutshuru, Nyiragongo, Mushumangabo, Tshamugussa, Nioka, Arara, Ngowa, Keshero (Goma) P.N.G.]. Ruanda-Urundi : Gitarama, Dendezi, Rubengera, Tshuruyaga, Rukoma, Ndiza, Kibungu, Astrida, Kisenyi, Kitega, Angola (Moxico). Uganda (Ankole). Kenya (Yata Plains, Undurugo).

Subgenus **LITOCOPRIS** WATERHOUSE.

Litocopris WATERHOUSE, 1891, *Ann. Mag. Nat. Hist.*, **8** (6) : 53 [type : *Copris* (*Litocopris*) *punctiventris* WATERHOUSE]. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 41. — BALTHASAR, 1958, *Acta Ent. Mus. Pragae*, **32** (517) : 474. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 11.

Type : *Copris* (*Litocopris*) *punctiventris* WATERHOUSE.

Copris (*Litocopris*) **muticus** BOHEMAN.

Copris muticus BOHEMAN, 1857, *Ins. Caffr.*, **2** : 238 (type : Cafraria, N.R.S. !). — WATERHOUSE, 1891, *Ann. Mag. Nat. Hist.*, **8** (6) : 54. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (58) : 11.

P.N.G. : n° 211, I/c/2', 17.II.1950, leg. G.D. (7 sp.); n° 347, I/b/1, 29.III.1950, leg. H.D.S. (12 sp.); n° 504, Km 7, 10.V.1950, leg. H.D.S. (2 sp.); n° 680, I/c/1, 7.VII.1950, leg. G.D. (4 sp.); n° 1084, PpK/10, 11.I.1951, leg. J.V. (13 sp.); n° 1095, II/gd/4, 6.I.1951, leg. J.V. (5 sp.); n° 1282, II/ed/10, 21.II.1951, leg. H.D.S. (2 sp.); n° 1292, Biadimbi, 24.II.1951, leg. J.V. (1 sp.); n° 1378, II/me/4, 9.II.1951, leg. J.V. (3 sp.); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (6 sp.); n° 1380, II/hc/4, 15.III.1951, leg. H.D.S. (2 sp.); n° 1381, II/df/8, 13.III.1951, leg. J.V. (3 sp.); n° 1385, II/fc/3, 14.III.1951, leg. H.D.S. (1 sp.); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (19 sp.); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (31 sp.); n° 1394, II/me/4, 9.II.1951, leg. J.V. (2 sp.); n° 1395, II/hc/4, 28.II.1951, leg. H.D.S. (4 sp.); n° 1396, II/ke/4, 2.III.1951, leg. H.D.S. (4 sp.); n° 1397, II/hd/4, 21.II.1951, leg. H.D.S. (3 sp.); n° 1398, II/ke/4, 15.II.1951, leg. H.D.S. (2 sp.); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (14 sp.); n° 1405, II/ec/4, 5.III.1951, leg. H.D.S. (1 sp.); n° 1409, II/gd/4, 16.III.1951, leg. H.D.S. (1 sp.); n° 4014, II/id/4, 2.VII.1952, leg. H.D.S. (1 sp.); n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (9 sp.); n° 1497, II/nf/3, 15.III.1951, leg. H.D.S. (1 sp.); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (6 sp.); n° 1500, II/ge/11, 12.III.1951, leg. H.D.S. (3 sp.); n° 1526, II/gd/4, 13.IV.1951, leg. H.D.S. (1 sp.); n° 1536, II/hd/4, 12.IV.1951, leg. H.D.S. (1 sp.); n° 1564, II/fb/4, 18.IV.1951, leg. J.V. (2 sp.); n° 1637, II/cd/8, 3.IV.1951, leg. J.V. (1 sp.); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (22 sp.); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (6 sp.); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (45 sp.); n° 1650, II/ge/4, 22.III.1951, leg. H.D.S. (4 sp.); n° 1747, II/ed/4, V.1951, leg. H.D.S. (1 sp.); n° 1790, II/gb/6, 16.V.1951, leg. J.V. (1 sp.); n° 2098, II/ge/4, 13.V.1951, leg. H.D.S. (13 sp.); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (27 sp.); n° 2109, II/ge/4, 18.V.1951, leg. H.D.S. (19 sp.); n° 2366, II/id/4, 28.VII.1951, leg. H.D.S. (22 sp.); n° 2367, II/ge/6, 17.VII.1951, leg. H.D.S. (3 sp.); n° 2368, II/nf/2, 13.VIII.1951, leg. H.D.S. (28 sp.); n° 2370, II/dd/4, 22.VIII.1951, leg. H.D.S. (2 sp.); n° 2371, II/dc/4, 7.VIII.1951, leg. H.D.S. (6 sp.); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (8 sp.); n° 2546, II/id/4, 10.IX.1951, leg. H.D.S. (13 sp.); n° 2627, II/hd/4, 3.IX.1951, leg. H.D.S. (1 sp.); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (8 sp.); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (18 sp.); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (11 sp.); n° 2635, II/je/4, 8.X.1951, leg. H.D.S. (1 sp.); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (6 sp.); n° 2638, II/ed/4, 2.X.1952, leg. H.D.S. (11 sp.); n° 2639, II/ie/4, 28.IX.1951, leg. H.D.S. (2 sp.); n° 3070, II/fd/6, 5.XII.1951, leg. H.D.S. (1 sp.); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (32 sp.); n° 3072, II/hd/4, 14.XII.1951, leg. H.D.S. (9 sp.); n° 3073, II/hh/4, 14.XII.1951, leg. H.D.S. (1 sp.); n° 3074, II/hd/4, 13.X.1951, leg. H.D.S. (3 sp.); n° 3133, Mabanga, 20.II.1952, leg. H.D.S. (1 sp.); n° 3204, Mabanga, 20.III.1952, leg. H.D.S. (3 sp.); n° 3280, PpK/14/g/2, 4.IV.1952, leg. H.D.S. (2 sp.); n° 3323, PpK/73/4, 9.IV.1952, leg. H.D.S. (2 sp.); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (8 sp.); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (102 sp.); n° 3528, II/id/4, 1.V.1952, leg. H.D.S. (2 sp.); n° 3529, II/ge/6, 29.IV.1952, leg. H.D.S. (2 sp.); n° 3534, II/id/4, 1.IV.1952, leg.

H.D.S. (3 sp.); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (47 sp.); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (9 sp.); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (3 sp.); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (3 sp.); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (9 sp.); n° 3666, II/gc/6, 29.V.1952, leg. H.D.S. (6 sp.); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (75 sp.); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (62 sp.); n° 3733, Iso/II, 12.VI.1952, leg. H.D.S. (2 sp.); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (115 sp.); n° 3975, II/je/4, 26.VIII.1952, leg. H.D.S. (3 sp.); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (9 sp.); n° 4002, II/je/4, 3.IX.1952, leg. H.D.S. (26 sp.); n° 4003, II/hd/4, 16.VIII.1952, leg. H.D.S. (19 sp.); n° 4004, II/lc/4, 26.VI.1952, leg. H.D.S. (24 sp.); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (24 sp.); n° 4009, PFSK/7/3, 31.VII.1952 (24 sp.); n° 4010, II/fc/6, 4.VII.1952, leg. H.D.S. (17 sp.); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (14 sp.); n° 4012, II/ie/4, 17.VII.1952, leg. H.D.S. (7 sp.); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (8 sp.); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (20 sp.); n° 4017, II/fc/6, 4.VIII.1952, leg. H.D.S. (1 sp.); n° 4018, Iso/II, 12.VI.1952, leg. H.D.S. (1 sp.); n° 4019, Iso/II, 12.VI.1952, leg. H.D.S. (27 sp.); n° 4046, II/ec/4, 5.IX.1952, leg. H.D.S. (4 sp.); n° 4049, II/hc/4, 5.IX.1952, leg. H.D.S. (5 sp.); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (5 sp.).

Number of specimens : 1.185.

Geographical distribution. — Congo (Mabwe, Molindi river, May ya Moto, Katanga, Binga, Kaswabilenga, Kanongo, Lukawe, Kaziba, Lusinga, Mukana, Bambesa, Léopoldville, Kibungu, Kitega, Butiaba, Kanyinya, P.N.G.). Cafraria.

Copris (Litocopris) punctiventris WATERHOUSE.

Copris punctiventris WATERHOUSE, 1891, *Ann. Mag. Nat. Hist.*, **8** (6) : 54 [type : Lusitania (Senegamb), B.M.]. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 77.

P.N.G. : n° 285, monts Bamangwa, 7.III.1950, leg. H.D.S. (2 sp.); n° 303, monts Bamangwa, 8.III.1950, leg. H.D.S. (1 sp.); n° 347, I/b/1, 29.III.1950, leg. H.D.S. (2 sp.); n° 1046, II/f, 4.I.1951, leg. J.V. (1 sp.); n° 1084, Pp/k/10, 11.I.1951, leg. J.V. (1 sp.); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (2 sp.); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (4 sp.); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (2 sp.); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (1 sp.); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (4 sp.); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (2 sp.); n° 1647, II/ed/4, 29.III.1951, leg. J.V. (4 sp.); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (15 sp.); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (7 sp.); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (1 sp.); n° 2367, II/ge/6, 17.VII.1951, leg. H.D.S. (6 sp.); n° 2371, II/dc/4, 7.VIII.1951, leg. H.D.S. (2 sp.); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (2 sp.); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (3 sp.); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (1 sp.); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (1 sp.); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (3 sp.); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (1 sp.); n° 2639, II/ie/4, 28.IX.1951, leg. H.D.S. (1 sp.); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (3 sp.); n° 3073, II/hd/4, 14.XII.1951, leg. H.D.S. (2 sp.); n° 3531, II/id/4, 1.IV.1952, leg. H.D.S. (1 sp.); n° 3534, II/id/4, 1.IV.1952, leg. H.D.S. (1 sp.); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (3 sp.); n° 3662, II/he/28, V.1952, leg. H.D.S. (1 sp.); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (1 sp.); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (2 sp.); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (1 sp.); n° 4004, II/ie/4, 26.VI.1952, leg. H.D.S. (1 sp.); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (2 sp.); n° 4009, PFSK 7/3, 31.VII.1952, leg. H.D.S. (5 sp.); n° 4019, Iso/II, 12.VI.1952, leg. H.D.S. (1 sp.); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (1 sp.); n° 4022, II/je/4, 3.IX.1952, leg. H.D.S. (1 sp.).

Number of specimens : 97.

Geographical distribution. — Senegamb (Lusitania). Kamerun (Joko). Congo (P.N.G.); Ruanda (Tshuruyaga, Gitarama, Rukoma, Nduga, Ndiza); Urundi (Usumbura).

Genus **HELIOCOPRIS** HOPE.

Heliocopris HOPE, 1837, *Coleopt. Manual.*, **1** : 23 (type : *Copris pirlmal* FABRICIUS). — BURMEISTER, 1846, *Gen. Ins.*, Heft 10, Col. nr. 27, f. 1, 18. — LACORDAIRE, 1856, *Gen. Col.*, **3** : 98. — REITTER, 1893, *Best. Tab.*, **24** : 160, 213; 1893 (1894), *Verh. naturf. Ver. Brunn.*, **31** : 39, 94. — GAHAN, 1900, *Trans. Ent. Soc. Lond.*, 446. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 109, 310. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 64. — ARROW, 1931, *Fauna Brit. Ind.*, *Col. Lamell.*, **3**, *Copr.*, 84. — BALTHASAR, 1935, *Best. Tab. europ. Col.*, 115, *Scarab. Copr.*, **1** : 58. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 8, 47. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94) : 312, 315.

Type : *Copris pirlmal* FABRICIUS.

Heliocopris andersoni BATES.

Heliocopris andersoni BATES, 1868, *Col. Hefte*, **4** : 88 (type : col. R. OBERTHÜR, M. P.). — FELSCHE, 1907, *Deutsche Ent. Zeitschr.*, 280. — GILLET, 1911, *Col. Cat.*, JUNK, **83** : 64. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 81, 97, f. 87, 88; 1942, *Bull. Mus. royal d'Hist. nat. Belg.*, **18** (17) : 4. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94) : 321, f. VI(1-4); 1958, *South African Animal Life*, **5** : 504, f. 53-55.

Heliocopris coriaceus SHIPP, 1897, in *Donalds Trough unkn. Afric. Countries*, 449.

Heliocopris isidis BOHEMAN (non LATREILLE), 1857, *Ins. Caffr.*, **2** : 214.

Heliocopris isidis ssp. *erythraeus* MÜLLER, 1941, *Atti Mus. Civ. Stor. nat.*, Trieste, **14** (23) : 338.

P.N.G. : n° 1450, II/lc/4, 19.III.1951, leg. J.V. (1 ♂, 1 ♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (2 ♀♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (1 ♂, 4 ♀♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (2 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (2 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (1 ♀); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (10 ♂♂, 10 ♀♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (1 ♀); n° 2630, II/id/4, 12.X.1951, leg. H.D.S. (1 ♂); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (1 ♂); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (3 ♂♂, 4 ♀♀); n° 3072, II/hd/4, 14.XII.1951, leg. H.D.S. (1 ♂, 9 ♀♀); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (1 ♂, 3 ♀♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (3 ♀♀); n° 3533, II/gc/6, 29.IV.1952, leg. H.D.S. (1 ♀); n° 3662, II/he/4, 28.V.1952, (1 ♂); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 3666, II/ge/6, 29.V.1952, leg. H.D.S. (1 ♂); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂, 7 ♀♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (4 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (8 ♂♂, 5 ♀♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (1 ♂); n° 4014, II/id/4, 2.VII.1952, leg. H.D.S. (1 ♂); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (1 ♀); n° 4049, II/hc/4, 5.IX.1952, leg. H.D.S. (2 ♂♂); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀).

Number of specimens : 47 ♂♂, 74 ♀♀.

Geographical distribution. — Southern Rhodesia (Salisbury, between Limpopo and Zambeze, Bulawayo, Sebakwe, Bindura, Victoria Falls). Transvaal (Schoemansville, Pretoria, Maquasi, Klerksdoorp, Rustenburg, Rooiplaat, Louwscreeck, Potchefstroom, Johannesburg, Barberton). Natal (Durban, Estcourt, Evari River, Stanger). Mozambique (Manica). South West Africa (Abachaus, Windhoek, Omaruru, Otjitambe, Outjo, Okahandja, Abenab, Tsumeb, Gaub, Grootfontein). Cape Province (Hope-town). Kalahari (Maun). Nyasaland (Zomba). Kenya (Nairobi). Angola (Kapalongo). Congo : (Musha, P.N.G.).

Heliocopris anterior (OLIVIER).

Copris anterior OLIVIER, 1789, *Ent.*, **1** : 97, pl. 6, f. 42 (type : Senegal, M.P.); 1790, *Encycl. Méth.*, **5** : 152. — FABRICIUS, 1792, *Ent. Syst.*, **1** : 49; 1801, *Syst. Eleuth.*, **1** : 40. — CASTELNAU, 1870, *Hist. Nat. Col.*, **2** : 76.

Heliocopris anterior GILLET, 1907, *Ann. Soc. ent. Belg.*, **51** : 184; 1911, *Col. Cat.*, JUNK, **38** : 64. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 71, 92, f. 65, 66, 67. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94) : 328, 336, f. 7 (2).

Heliocopris exclamationis SHIPP, 1897, *Novit. Zool.*, **4** : 186 (type : M. Tr.). — FELSCHE, 1901, *Deutsche Ent. Zeitschr.*, 154.

P.N.G. : n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (1 ♀); n° 2098, II/ge/4, 13.V.1951, leg. H.D.S. (1 ♀); n° 2367, II/ge/6, 17.VII.1951, leg. H.D.S. (1 ♂); n° 2370, II/dd/4, 22.VII.1951, leg. H.D.S. (1 ♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (3 ♂♂, 2 ♀♀); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (2 ♂♂); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (1 ♀).

Number of specimens : 8 ♂♂, 8 ♀♀.

Geographical distribution. — Senegal. Senegamb. Portuguese Guinea. Guinea. Sierra Leone. Niger. Togo. Nigeria. Kamerun. French Congo. Abyssinie. Congo (Coquilhatville, Kibali-Ituri; Kivu : Costermansville; Sassa region, Haut Congo; Katanga; Katombe; P.N.G.). Southern Rhodesia (between Limpopo and Zambeze). Angola (Dundo).

Heliocopris colossus BATES.

Heliocopris colossus BATES, 1868, *Col. Hefte*, **4** : 88 (type : col. R. OBERTHÜR, M. P.). — KOLBE, 1895, *Stett. Ent. Zeitschr.*, **56** : 336. — FELSCHE, 1907, *Deutsche Ent. Zeitschr.*, 279. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 78, 96, pl. 4, figs. 3, 4. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94) : 325, 336, f. VII (6).

Heliocopris gigas (OLIVIER) (nec LINNÉ), 1789, *Entom.*, **1**, *Scarab.*, 132, pl. 14, f. 137; 1790, *Encycl. Méth.*, **5** : 164. — FELSCHE, 1907, *Deutsche Ent. Zeitschr.*, 279.

Heliocopris antenor PÉRINGUEY (nec OLIVIER), 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 312, 316, pl. 32, f. 6, 6 a. — GILLET, 1907, *Ann. Soc. ent. Belg.*, **51** : 184.

P.N.G. : n° 347, I/b/1, 29.III.1950, leg. H.D.S. (1 ♀); n° 515, I/o/1, 15.IV.1950, leg. H.D.S. (1 ♀); n° 1394, II/fc/5, 28.II.1951, leg. H.D.S. (2 ♀♀); n° 1450, II/bc/4, 19.III.1951, leg. J.V. (1 ♂, 2 ♀♀); n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (3 ♀♀); n° 1500, II/ge/11, 12.III.1951, leg. H.D.S. (1 ♂, 6 ♀♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (1 ♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 1405, II/ec/4, 5.III.1951, leg. H.D.S. (3 ♀♀); n° 1993, II/hc/4, 21.VII.1951, leg. J.V. (1 ♀); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (1 ♂, 3 ♀♀); n° 2109, II/ge/4, 18.V.1951, leg. H.D.S. (1 ♀); n° 2111, II/fd/4, 25.IV.1951, leg. J.V. (1 ♀); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (4 ♂♂, 3 ♀♀); n° 3662, II/id/II/he/4, 28.V.1952, leg. H.D.S. (3 ♂♂, 1 ♀); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (1 ♂); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (3 ♂♂, 1 ♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (3 ♂♂); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (3 ♂♂).

Number of specimens : 27 ♂♂, 35 ♀♀.

Geographical distribution. — Senegal. Senegamb. Guinea. Côte d'Ivoire. Gold Coast. Nigeria. Kamerun. French Congo. Tanganyika. Uganda (Kalinzu forest). Congo (Uele, Tshambi, Vitshumbi, Kasali mont, Kalinga, Katanda, Binza, Mabenga, Ndeko, May ya Moto, Mudende, P.N.G.). Ruanda (Ninda). Southern Rhodesia (Salisbury, between Limpopo and Zambeze, Victoria Falls). Transvaal (Barberton).

Heliocopris japetus KLUG.

Heliocopris japetus KLUG, 1855, *Monatsb. Berl. Akad.*, 655 (type : M.Z.B.); 1862, *Peter's Reise*, 239, pl. 13, f. 3, 4. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 312, 317, pl. 32, f. 8; 1908, *Trans. S. Afr. Phil. Soc.*, **13** : 629. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 66. — JANSSENS, 1939, *Expl. Parc Nat. Albert.*, Mission G. F. DE WITTE, (29) : 70, 91, f. 62-64. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94) : 326, 336. VI (7).

Heliocopris bicarinulatus BOHEMAN, 1860, *Ofv. Vet. Akad. Förh.*, **17** : 108 (type : N.R.S.).

P.N.G. : n° 3665, II/ge/6, 29.V.1952, leg. H.D.S. (1 ♂ maj., 3 ♂♂ minor); n° 4020, Ndelele/3, 29.VIII.1952, leg. H.D.S. (2 ♂♂ minor).

Number of specimens : 6 ♂♂.

Geographical distribution. — Southern Rhodesia (Salisbury, Victoria Falls, Plumtree, Bulawayo). Mozambique (Quelimane). Angola (Humbe). Tanganyika (Nkerewe, Mombassa). Kalahari (Maun). South West Africa (Damaraland). Congo [Kapanga (Lulua); Djeka (Kasai); Tshipasa (Lulua); Kigali, Gitarama (Ruanda), P.N.G.].

Heliocopris myrmidon KOLBE.

Heliocopris myrmidon KOLBE, 1893, *Stett. Ent. Zeit.*, **54** : 138 (type ♀ : M.Z.B.). — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 66. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 65, 89, f. 55.

Heliocopris ertli FELSCHÉ, 1911, *Deutsche Ent. Zeitschr.*, 137 (type : M.Dr.). — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 65.

P.N.G. : n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (13 ♂♂, 2 ♀♀); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (7 ♂♂, 3 ♀♀); n° 1400, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (20 ♂♂, 41 ♀♀); n° 1405, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (2 ♂♂); n° 1458, II/fc/5, 27.III.1951, leg. H.D.S. (1 ♂); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (9 ♂♂, 11 ♀♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (7 ♂♂, 12 ♀♀); n° 1647, II/cd/4, 29.III.1951, leg. J.V. (2 ♂♂, 4 ♀♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (3 ♂♂, 3 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (2 ♀♀); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (9 ♂♂, 7 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (2 ♂♂); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (4 ♂♂, 3 ♀♀); n° 2109, II/ge/4, 18.V.1951, leg. H.D.S. (1 ♂); n° 2367, II/gc/6, 17.VIII.1951, leg. H.D.S. (3 ♂♂, 1 ♀); n° 2369, II/dd/4, 7.VIII.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2628, II/dd/4, 19.IX.1952, leg. H.D.S. (1 ♂); n° 2630, II/id/4, 2.X.1951, leg. H.D.S. (1 ♀); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (1 ♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (2 ♀♀); n° 2639, I/ie/4, 28.IX.1951, leg. H.D.S. (1 ♂); n° 2739, II/gd/4, 8.XI.1951, leg. H.D.S. (1 ♂); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (2 ♀♀); n° 3072, II/hd/4, XII.1951, leg. H.D.S. (1 ♀); n° 3073, II/hd/4, 14.XII.1951, leg. H.D.S. (1 ♀); n° 3075, II/hd/4, 15.X.1951, leg. H.D.S. (2 ♀♀); n° 3210, Mabanga, 24.III.1952, leg. H.D.S. (1 ♂); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (2 ♂♂); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 3531, II/id/4, 1.IV.1952, leg. H.D.S. (1 ♂); n° 3532, II/ge/6, 20.IV.1952, leg. H.D.S. (1 ♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (1 ♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3664, II/id/4, 20.V.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (1 ♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (1 ♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (2 ♂♂); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (2 ♀♀); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (1 ♀); n° 4015, II/id/4, 9.VIII.1952, leg. H.D.S. (3 ♂♂, 5 ♀♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 4046, II/ec/4, 5.IX.1952, leg. H.D.S. (1 ♂, 1 ♀).

Number of specimens : 106 ♂♂, 125 ♀♀.

Geographical distribution. — Gold Coast. Haut Chari (Fort Sibut). Tanganyika (Utinto). Victoria-Nyansa. Ruanda (Gitarama, Rukoma, Nduga). Congo (P.N.G.).

Helicoprís samson HAROLD.

Helicoprís samson HAROLD, 1878, *Mitth. Münch. Ent. Ver.*, **2** : 101 (type : col. R. OBERTHÜR, M. P.); 1879, *Col. Hefte*, **14** : 36. — QUEDENFELDT, 1884, *Berlin Ent. Zeitschr.*, **28** : 270, pl. 8, f. 1 a, b. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 66. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 36, 75, f. 71, 72.

Helicoprís coryndoní SHIPP, 1897, *Novit. Zool.*, **4** : 185, (type : M.Tr.). — FELSCHE, 1901, *Deutsche Ent. Zeitschr.* : 155.

P.N.G. : n° 347, II/b/4, 29.III.1950, leg. H.D.S. (1 ♀); n° 368, I/c/1, 10.III.1950, leg. H.D.S. (1 ♀); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 1400, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♂); n° 1450, II/lc/4, 19.III.1951, leg. J.V. (1 ♀); n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (1 ♂); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (4 ♂♂); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (2 ♂♂); n° 2368, II/nf/2, 13.VIII.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (1 ♂); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (2 ♂♂, 4 ♀♀); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (3 ♂♂, 2 ♀♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3531, II/id/4, 1.IV.1952, leg. H.D.S. (1 ♂); n° 3534, II/id/4, 1.IV.1952, leg. H.D.S. (1 ♂); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (12 ♂♂, 5 ♀♀); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂, 2 ♀♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (10 ♂♂, 6 ♀♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (12 ♂♂, 6 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (8 ♂♂, 5 ♀♀); n° 4012, II/ie/4, 17.VII.1952, leg. H.D.S. (1 ♂); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (3 ♀♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (2 ♂♂).

Number of specimens : 66 ♂♂, 41 ♀♀.

Geographical distribution. — Congo (Lenze, Buta, Kafakumba, Sandoa, P.N.G.). West Africa. Northern Rhodesia. Angola.

Helicoprís staudingeri KOLBE.

Helicoprís staudingeri KOLBE, 1893, *Stett. Ent. Zeit.*, **54** : 199 (type ♀ : M.Z.B.). — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 66. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 78, 95, f. 78.

P.N.G. : n° 515, I/o/1, 15.V.1950, leg. H.D.S. (1 ♂); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (3 ♀♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (2 ♂♂, 2 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (5 ♂♂, 2 ♀♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (1 ♂); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♂); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (1 ♀); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (6 ♂♂, 2 ♀♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (2 ♀♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (2 ♂♂); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (2 ♂♂); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (1 ♀); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (2 ♀♀); n° 4009, PFSK 7/3, 31.VII.1952, leg. H.D.S. (1 ♀).

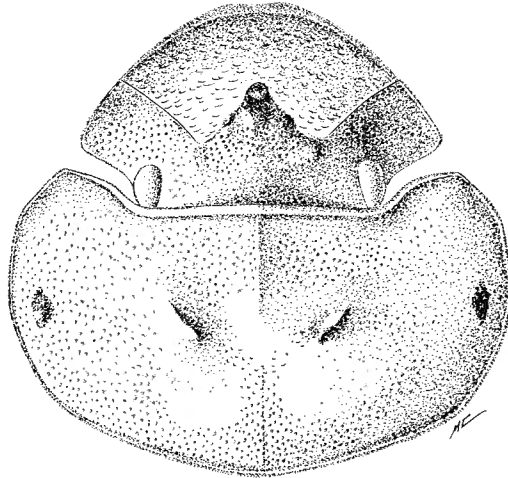
Number of specimens : 20 ♂♂, 17 ♀♀.

Geographical distribution. — Guinea, Kamerun. Haut-Chari. Congo (Élisabethville, Mutaka, P.N.G.).

Genus **CATHARSIUS** HOPE.

Catharsius HOPE, 1837, *Coleopt. Manual*, **1** : 21 (type : *Scarabaeus molossus* LINNÉ). — BURMEISTER, 1846, *Gen. Ins.*, Heft 10, Col. nr. 27. — LACORDAIRE, 1856, *Gen. Col.*, **3** : 98. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 109, 323. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 67; 1921, *Faune Entom. Indoch. Fr.*, **4**, *Scarab.*, 7. — ARROW, 1931, *Fauna Brit. India, Col. Lamell.*, **3**, *Copr.*, 32. — BALTHASAR, 1935, *Best. Tab. europ. Col.*, **115**, *Copr.*, **1** : 62. — PAULIAN, 1939, *Rev. Fr. Ent.*, **6** : 13; 1945, *Faune de l'Empire français*, **3** : 68. — JANSSENS, 1939, *Expl. Parc Nat. Albert, Mission G. F. DE WITTE*, (29) : 44. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94) : 313.

Type : *Scarabaeus molossus* LINNÉ.



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FIG. 34. — *Catharsius brevicornis* FELSCHÉ.
Head and pronotum (type ♂), dorsal view.

Catharsius s. str.***Catharsius brevicornis** FELSCHÉ.

(Fig. 34.)

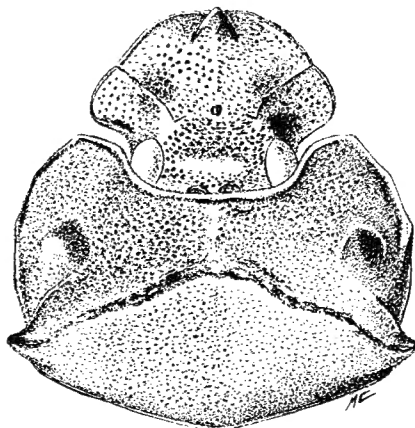
Catharsius brevicornis FELSCHÉ, 1907, *Deutsche Ent. Zeitschr.*, 283 (type ♂ : Camerun, col. FELSCHÉ, M. Dr. !). — GILLET, 1908, *Ann. Soc. ent. Belg.*, **52** : 56 (♀); 1911, *Col. Cat.*, JUNK, **38** : 67.

P.N.G. : n° 202, I/b/1, 8.II.1950, leg. H.D.S. (1 ♂); n° 221, I/o/1, 27.II.1950, leg. H.D.S. (1 ♂); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (4 ♂); n° 1406, II/fc/4, 20.III.1951, leg. H.D.S. (1 ♂); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (5 ♂♂, 2 ♀♀); n° 4017, II/fc/6, 4.VII.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (3 ♂♂, 1 ♀); n° 1560, II/gd/4,

16.IV.1951, leg. H.D.S. (1 ♂); n° 1647, II/cd/4, 29.III.1951, leg. J.V. (9 ♂♂, 1 ♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♂); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (6 ♂♂, 4 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (1 ♂); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (1 ♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (1 ♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (2 ♀♀); n° 3532, II/gc/6, 29.IV.1952, leg. H.D.S. (1 ♀); n° 3533, II/gc/6, 29.IV.1952, leg. H.D.S. (1 ♂); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (3 ♂♂); n° 4004, II/le/4, 26.IV.1952, leg. H.D.S. (1 ♂); n° 4010, II/fc/6, 4.VII.1952, leg. H.D.S. (2 ♀♀); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (1 ♂); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (3 ♂♂); n° 4046, II/ec/4, 9.IX.1952, leg. H.D.S. (1 ♀).

Number of specimens : 48 ♂♂, 21 ♀♀.

Geographical distribution. — Camerun. Congo (P.N.G.).



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FIG. 35. — *Catharsius dux* HAROLD.
Head and pronotum (type ♂), dorsal view.

***Catharsius dux* HAROLD.**

(Fig. 35.)

Catharsius dux HAROLD, 1878, *Mitth. Münch. Ent. Ver.*, **2** : 101 (type : Guinea, M.Z.B.); 1879, *Col. Hefte*, **16** : 38. — QUEDENFELDT, 1884, *Berl. Ent. Zeitschr.*, **28** : 271. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 68. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 22, f. 6-13.

P.N.G. : n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (1 ♂).

Geographical distribution. — Congo [Mwene-Ditu, Mayidi, Kapanga, Tshibamba, Muteba, Kafakumba, Tshibalaka, Isangi, Arara-Aru, Nioka, Yangambi, Bokoro, Lemfu, Luabo-Kamina, Kisantu, Tshibala, Djeka,

Luebo, Katoka-Luluabourg, Lualaba-Kabongo, Bokuma, Lokandu, Fort-Franqui, Ekoli, Kunungu, Mpese, Bosekele, Bokungu, Bambesa, Lusambo, Kingungi, rég. Lisala, Mukila, Uele, Stanleyville, Matadi, Léopoldville, Moanda, Boende, Flandria, Lubudi, Eala, Katoka, Luma (Djalasiga), Kabwe, Thumba, Baudouinville, Luashi, Kinda, P.N.G.]. Uganda (Bussu Busoga). Angola (Lunda, Bimbi, Ebanga). Guinea.

Catharsius eteocles CASTELNAU.

Catharsius eteocles CASTELNAU, 1840, *Hist. Nat., Col.*, **2** : 78 (type : Senegal).
— GILLET, 1911, *Col. Cat.*, JUNK, **38** : 68.

P.N.G. : n° 1453, II/gd/4, 25.III.1951, leg. H.D.S. (1 ♀); n° 1498, II/gd/4, 28.II.1951, leg. H.D.S. (1 ♀); n° 1651, II/gc/4, 11.IV.1951, leg. H.D.S. (1 ♂); n° 2543/1, II/1/gd/4; 6-29.VIII.1951, leg. H.D.S. (2 ♀♀); n° 2543/3, II/3/gd/4, 6-29.VIII.1951, leg. H.D.S. (1 ♀); n° 2544, II/III/gd/4, 13.IX-1.X.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2544, II/I/gd/4, 13.IX-1.X.1951, leg. H.D.S. (4 ♂♂, 9 ♀♀); n° 2631, II/fd/17, 10.IX.1951, leg. H.D.S. (2 ♂♂, 4 ♀♀); n° 2633/1, I/II/gd/4, 6.IX.1951, leg. H.D.S. (1 ♀); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (1 ♂).

Number of specimens : 9 ♂♂, 20 ♀♀.

Geographical distribution. — Senegal. Portuguese Guinea. Congo (P.N.G.).

***Catharsius garambae** n. sp.

(Fig. 51.)

P.N.G. : n° 3536, II/ed/6, 27.IV.1952 (1 ♂, holotype).

Geographical distribution. — Congo : P.N.G.

Catharsius ninus GILLET.

(Figs. 36-37.)

Catharsius ninus GILLET, 1918, *Zool. Meded.*, **4** : 147 [type : Stanleyville (R.C.), I.R.S.N.B.!).

P.N.G. : n° 3485, Aka, 20.V.1952, leg. H.D.S. (1 ♂).

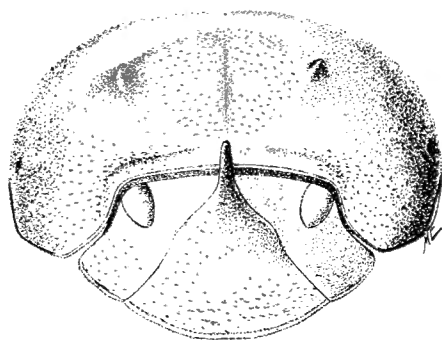
Geographical distribution. — Congo (Stanleyville, P.N.G.).

Catharsius platycerus KLUG.

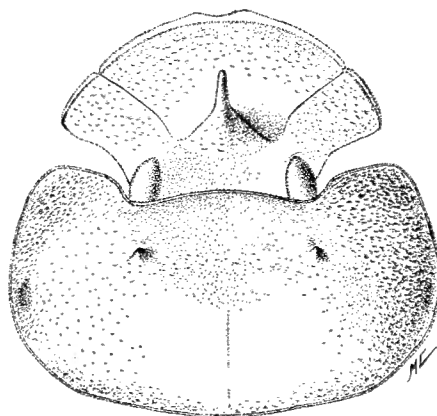
(Figs. 38-39.)

Catharsius platycerus KLUG, 1855, *Monatsb. Berlin Akad.*, 655 [type : Sena (P.M.), M.Z.B. !]; 1862, *Peter's Reise*, 240, pl. 13, f. 7. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 325, 326. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 70. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 45.

Catharsius gibbicollis GERSTAECKER, 1884, *Jahr. Wiss. Anstalt. Hamb.*, **1** : 50.
— GILLET, 1907, *Ann. Mus. Civ. Genova*, **3** (3) : 595.



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FIGS. 36-37. — *Catharsius ninus* GILLET.

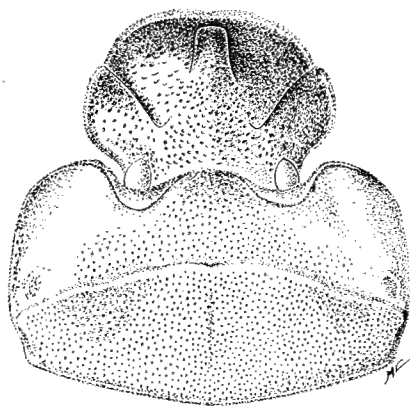
Head and pronotum.

36 : Type ♂, anterior view. — 37 : Type ♂, dorsal view.

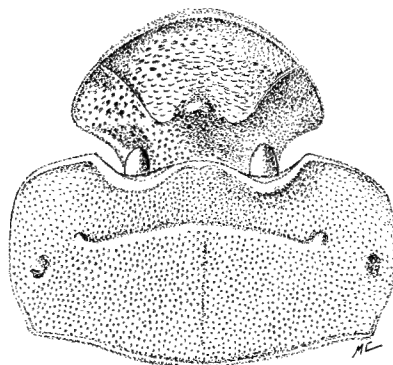
Catharsius obtusicornis BOHEMAN, 1857, *Ins. Caffr.*, **2** : 217 [type : Cafraria, N.R.S. !]. — FELSCHE, 1901, *Deutsche Ent. Zeitschr.*, 149; 1904, *Arkiv. Zool.*, 400. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 69. — FERREIRA, 1960, *Rev. Ent. Moç.*, **3** (1) : 8, 29, 50, figs. 22, 23.

Catharsius princeps KOLBE, 1893, *Sitz. — Ber. Ges. naturf. Fr.*, Berlin, 140 [type : Stanley pool (R.C.), M.Z.B. !].

P.N.G. : n° 1455, II/hd/4, 23.III.1951, leg. H.D.S. (2 ♂♂); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (8 ♂♂, 6 ♀♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♂, 2 ♀♀); n° 1747, II/ed/4, 4.V.1952, leg. H.D.S. (2 ♂♂); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (2 ♀♀); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (4 ♀♀); n° 3534, II/id/4, 1.IV.1952, leg. H.D.S. (1 ♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (9 ♂♂, 13 ♀♀);



38



39

Figs. 38-39. — *Catharsius platycerus* KLUG.

Head and pronotum.

38 : Type ♂. — 39 : Type ♀.

n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (4 ♂♂, 7 ♀♀); n° 3666, II/ge/6, 29.V.1952, leg. H.D.S. (6 ♂♂, 6 ♀♀); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (3 ♂♂, 1 ♀); n° 3669, II/hd/9, 24.VI.1952, leg. H.D.S. (2 ♂♂); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (10 ♂♂, 7 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (1 ♀); n° 4004, II/ie/4, 26.VI.1952, leg. H.D.S. (2 ♂♂, 1 ♀); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (1 ♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (2 ♀♀); n° 4014, II/id/4, 2.VII.1952, leg. H.D.S. (3 ♂♂, 3 ♀♀).

Number of specimens : 55 ♂♂, 61 ♀♀.

Geographical distribution. — Cape Province (Cafraria. Congo (Bambesa, Stanley pool, Rutshuru, Mont Kasali, Katanda, Katoka, P.N.G.). Abyssinie. Mozambique (Sena).

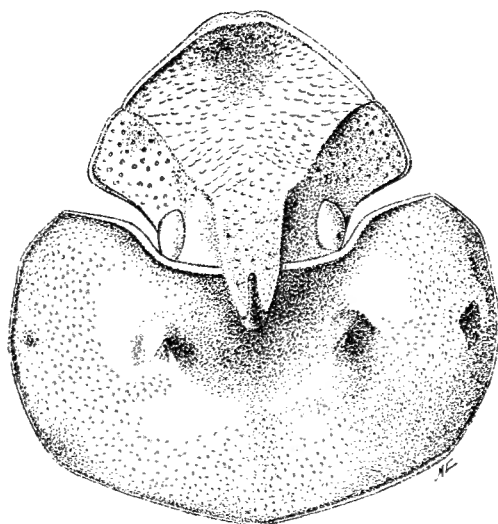
Catharsius phidias OLIVIER.

(Fig. 40.)

Catharsius phidias OLIVIER, 1789, *Entom.*, **1**, *Scarab.*, 106, t. 17, f. 153 (type: Senegal, M.P.). — CASTELNAU, 1840, *Hist. Nat. Col.*, **2**: 77. — GILLET, 1911, *Col. Cat.*, JUNK, **38**: 69. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58): 28, f. 28.

P.N.G. : n° 1403, II/ed/5, 26.I.1951, leg. J.V. (1 ♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (1 ♀); n° 3665, II/ge/6, 29.V.1952, leg. H.D.S. (1 ♀); n° 1647, II/ed/4, 29.III.1952, leg. J.V. (2 ♀♀).

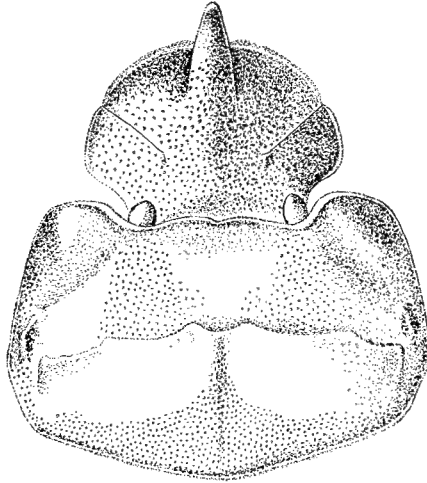
Number of specimens : 6 ♀ ♀.



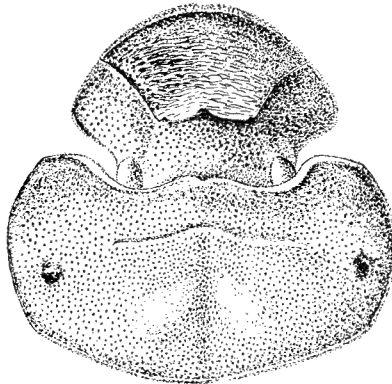
40

FIG. 40. — *Catharsius phidias* OLIVIER.
Head and pronotum (type ♂), dorsal view.

Geographical distribution. — Senegal. Congo (Mabwe, Kanonga, Kilwezi, Kankunda, Kimiala, Sampwe, Kenia, Ngozie, Dipidi, Lusinga river, Kafwi, Katongo, Buye-Bala, Kapelwa, Mukana, Kabwekano, Kalumengongo, Kundelungu, P.N.G.).



41



42

FIGS. 41-42. — *Catharsius polymices* KOLBE.

Head and pronotum, dorsal view.

41 : Type ♂. — 42 : Type ♀.

***Catharsius polynices KOLBE.**

(Figs. 41-42.)

Catharsius polynices KOLBE, 1893, *Sitz. Ber. Ges. naturf. Fr.*, Berlin, 135 (type : Lake Nyasa, M.Z.B. 1). — GILLET, 1907, *Ann. Mus. Civ. Stor. nat. Genova*, 3 (3) : 596; 1911, *Col. Cat.*, JUNK, 38 : 70.

P.N.G. : n° 202, I/b/1, 8.II.1950, leg. H.D.S. (1 ♀); n° 380, I/o/1, 6.IV.1950, leg. H.D.S. (1 ♀); n° 399, I/o/1, 13.IV.1950, leg. H.D.S. (2 ♂♂); n° 515, I/o/1, 15.IV.1950, leg. H.D.S. (1 ♂, 2 ♀♀); n° 825, I/o/1, 1-15.IX.1950, leg. G.D. (4 ♀♀); n° 995, II/e, 18.XII.1950, leg. H.D.S. (2 ♀♀); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 1391, II/fc/5, 23.II.1951, leg. H.D.S. (1 ♀); n° 1402, II/ec/4, 5.III.1951, leg. H.D.S. (1 ♀); n° 1643, II/gd/4, 28.IV.1951, leg. H.D.S. (1 ♀); n° 1555, II/gd/4, 16.IV.1952, leg. H.D.S. (1 ♀); n° 1595, II/gd/4, 20.IV.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 1643, II/gd/4, 28.IV.1951, leg. H.D.S. (1 ♀); n° 1646, II/ed/4, 29.III.1951, leg. J.V. (1 ♂, 2 ♀♀); n° 1647, II/cd/4, 29.III.1951, leg. J.V. (1 ♀); n° 1648, II/ec/4, 3.IV.1951, leg. H.D.S. (1 ♀); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (3 ♂♂, 3 ♀♀); n° 1747, II/ed/4, 4.V.1951, leg. H.D.S. (12 ♂♂, 18 ♀♀); n° 1749, II/ed/8, 30.IV.1951, leg. J.V. (1 ♂); n° 1813, II/gd/4, 24.V.1951, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 1859, II/gd/4, 5.VI.1951, leg. H.D.S. (3 ♀♀); n° 2098, II/gc/4, 13.V.1951, leg. H.D.S. (8 ♂♂, 24 ♀♀); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (122 ♂♂, 145 ♀♀); n° 2108, II/fb/4, 18.IV.1951, leg. J.V. (11 ♂♂ maj., 10 ♂♂ minor, 17 ♀♀); n° 2109, II/ge/4, 18.V.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 2133, II/gd/4, 24.VII.1951, leg. H.D.S. (1 ♂ minor); n° 2366, II/id/4, 28.VII.1951, leg. H.D.S. (31 ♂♂ major, 50 ♂♂ minor, 125 ♀♀); n° 2367, II/gc/6, 17.VII.1951, leg. H.D.S. (94 ♂♂ major, 39 ♂♂ minor, 127 ♀♀); n° 2368, II/nf/2, 13.VIII.1951, leg. H.D.S. (2 ♂♂, 3 ♂♂ minor, 5 ♀♀); n° 2369, II/dd/4, 7.VIII.1951, leg. H.D.S. (9 ♂♂, 6 ♂♂ minor, 10 ♀♀); n° 2370, II/dd/4, 22.VIII.1951, leg. H.D.S. (1 ♂, 2 ♂♂ minor); n° 2371, II/de/4, 7.VIII.1951, leg. H.D.S. (1 ♀); n° 2482, II/gd/4, 24.IX.1951, leg. H.D.S. (1 ♂); n° 2524, II/gd/4, 8.X.1951, leg. H.D.S. (2 ♂♂, 1 ♀); n° 2543, II/l/gd/4, 6-29.VIII.1951, leg. H.D.S. (1 ♂, 3 ♀♀); n° 2543/2, II/gd/4, 6-29.VIII.1951, leg. H.D.S. (1 ♂ minor); n° 2543, II/3/gd/4, 6-29.VIII.1951, leg. H.D.S. (4 ♀♀); n° 2545, II/id/4, 10.IX.1951, leg. H.D.S. (23 ♂♂, 22 ♂♂ minor, 80 ♀♀); n° 2546, II/id/4, 10.IX.1951, leg. H.D.S. (13 ♂♂, 22 ♀♀); n° 2627, II/hd/4, 3.IX.1951, leg. H.D.S. (2 ♂♂ minor, 7 ♀♀); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (10 ♂♂, 24 ♂♂ minor, 13 ♀♀); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 2631, II/fd/4, 10.IX.1951, leg. H.D.S. (2 ♂♂); n° 2632, II/hd/4, 3.IX.1951, leg. H.D.S. (2 ♂♂ minor, 1 ♀); n° 2633/1, I/II/gd/4, 6.IX.1951, leg. H.D.S. (1 ♂, 5 ♀♀); n° 2633/2, 2/II/fd/4, 6.IX.1951, leg. H.D.S. (1 ♂ minor, 2 ♀♀); n° 2634, II/je/4, 8.X.1951, leg. H.D.S. (7 ♂♂, 6 ♂♂ minor, 24 ♀♀); n° 2635, II/je/4, 8.X.1951, leg. H.D.S. (2 ♂♂); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (4 ♂♂, 4 ♂♂ minor, 7 ♀♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (29 ♂♂, 32 ♀♀); n° 2639, II/ie/4, 28.IX.1951, leg. H.D.S. (1 ♂ minor, 3 ♀♀); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (20 ♂♂, 6 ♂♂ minor, 28 ♀♀); n° 3072, II/hd/4, 14.XII.1951, leg. H.D.S. (1 ♂ minor, 3 ♀♀); n° 3073, II/hd/4, 14.XII.1951, leg. H.D.S. (2 ♀♀); n° 3075, II/hd/4, 15.X.1951, leg. H.D.S. (4 ♂♂ minor); n° 3482, Aka, 19.V.1952, leg. H.D.S. (1 ♂, 1 ♂ minor); n° 3526, II/hd/4, 28.IV.1952, leg. H.D.S. (47 ♂♂, 40 ♂♂ minor, 116 ♀♀); n° 3532, II/gc/6, 29.IV.1952, leg. H.D.S. (20 ♂♂, 11 ♂♂ minor, 22 ♀♀); n° 3533, II/gc/6, 29.V.1952, leg. H.D.S. (1 ♂, 1 ♂ minor, 8 ♀♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (49 ♂♂, 40 ♂♂ minor, 37 ♀♀); n° 3638, II/ed/4, 2.X.1951, leg. H.D.S. (1 ♂, 3 ♀♀); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (118 ♂♂, 133 ♀♀, 69 ♂♂ minor); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (24 ♂♂, 3 ♂♂ minor, 35 ♀♀); n° 3664, II/id/4, 29.V.1952, leg. H.D.S. (117 ♂♂, 2 ♂♂ minor, 103 ♀♀); n° 3665, II/gc/6, 29.V.1955, leg. H.D.S. (55 ♂♂, 34 ♂♂ minor, 31 ♀♀); n° 3666, II/ge/6, 29.V.1952, leg. H.D.S. (38 ♂♂, 2 ♂ minor, 57 ♀♀); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (102 ♂♂, 19 ♂♂ minor, 164 ♀♀); n° 3669, II/hd/9, 24.VI.1952, leg. H.D.S. (4 ♂♂, 10 ♀♀); n° 3672, II/ie/4, 6.VI.1952, leg. H.D.S. (1 ♂ minor); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (85 ♂♂, 29 ♂♂ minor, 138 ♀♀); n° 3699, II/id/4, 29.V.1952, leg. H.D.S. (127 ♂♂, 85 ♂♂ minor, 194 ♀♀); n° 3960, II/id/4, 22.VIII.1952,

leg. H.D.S. (164 ♂♂, 108 ♂♂ minor, 283 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (44 ♂♂, 19 ♂♂ minor, 113 ♀♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (45 ♂♂, 47 ♂♂ minor, 209 ♀♀); n° 4003, II/hd/4, 16.VIII.1952 (142 ♂♂, 89 ♂♂ minor, 195 ♀♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (90 ♂♂, 36 ♂♂ minor, 110 ♀♀); n° 4005, II/ie/4, 9.VIII.1952, leg. H.D.S. (72 ♂♂, 36 ♂♂ minor, 114 ♀♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (25 ♂♂, 38 ♀♀, 16 ♂♂ minor); n° 4010, II/fc/6, 4.VII.1952, leg. H.D.S. (80 ♂♂, 56 ♂♂ minor, 109 ♀♀); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (55 ♂♂, 39 ♂♂ minor, 82 ♀♀); n° 4012, II/ie/4, 17.VII.1952, leg. H.D.S. (18 ♂♂, 12 ♂♂ minor, 59 ♀♀); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (84 ♂♂, 30 ♂♂ minor, 94 ♀♀); n° 4014, II/id/4, 2.VII.1952, leg. H.D.S. (30 ♂♂, 36 ♂♂ minor, 63 ♀♀); n° 4015, II/id/4, 9.VIII.1952, leg. H.D.S. (6 ♂♂, 9 ♂♂ minor, 12 ♀♀); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (34 ♂♂, 35 ♂♂ minor, 70 ♀♀); n° 4017, II/fc/6, 4.VII.1952, leg. H.D.S. (14 ♂♂, 11 ♂♂ minor, 33 ♀♀); n° 4019, Iso/II, 12.VI.1952, leg. H.D.S. (4 ♂♂, 2 ♂♂ minor, 1 ♀); n° 4020, Ndelele/3, 29.VII.1952, leg. H.D.S. (6 ♂♂, 5 ♂♂ minor, 8 ♀♀); n° 4046, II/ee/4, 5.IX.1952, leg. H.D.S. (19 ♂♂, 10 ♂♂ minor, 31 ♀♀); n° 4049, II/hc/4, 5.IX.1952, leg. H.D.S. (44 ♂♂, 34 ♂♂ minor, 85 ♀♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (42 ♂♂, 43 ♂♂ minor, 113 ♀♀).

Number of specimens : 2.241 ♂♂, 1.201 ♂♂ minor, 3.663 ♀♀.

Geographical distribution. — Portuguese Guinea. Nyasa See. Congo (P.N.G.).

***Catharsius saegeri** n. sp.

(Fig. 52.)

P.N.G. : n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂, holotype); n° 2098, II/ge/4, 13.V.1951, leg. H.D.S. (1 ♀, alotype).

Geographical distribution. — Congo (P.N.G.).

Catharsius sesostris WATERHOUSE.

Catharsius sesostris WATERHOUSE, 1888, *Proc. Zool. Soc. Lond.*, 86 (type : Egypt, B.M.). — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 70. — BALTHASAR, 1935, *Best. Tab. europ. Col.*, 115, *Scarab.*, (1) : 66. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 44, pl. 1, f. 7, 8. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 29.

Copris pithecius OLIVIER (non FABRICIUS), 1790, *Entom.*, 1, *Scarab.*, 117, pl. 9, f. 73; 1790, *Encycl. méth.*, 5 : 159. — CASTELNAU, 1840, *Hist. Nat. Col.*, 2 : 78.

Catharsius pylades PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, 12 : 325, 332, pl. 33, f. 25, pl. 38; 1908, *Trans. S. Afr. Phil. Soc.*, 13 : 629. — GILLET, 1907, *Ann. Mus. Civ. Genova*, 3 (3) : 597.

P.N.G. : n° 515, I/o/1, 15.IV.1950, leg. H.D.S. (1 ♂, 1 ♀); n° 825, I/o/1, 1-15.IX.1950, leg. G.D. (1 ♀); n° 1391, II/fc/5, 28.II.1951, leg. H.D.S. (1 ♂); n° 1499, II/ec/4, 20.III.1951, leg. H.D.S. (1 ♂); n° 1650, II/gc/4, 22.III.1951, leg. H.D.S. (1 ♀); n° 1651, II/gc/4, 11.IV.1951, leg. H.D.S. (1 ♀); n° 1749, II/ed/8, 30.IV.1952, leg. J.V. (1 ♂); n° 1788, II/gd/4, 18.V.1951, leg. H.D.S. (1 ♂); n° 1901, II/fd/18, 11.VI.1951, leg. H.D.S. (1 ♂); n° 2099, II/dd/4, 7.VI.1951, leg. H.D.S. (1 ♀); n° 2101, II/gd/4, 27.V.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2368, II/nf/2, 13.VIII.1951, leg. H.D.S. (1 ♀); n° 2543, II/l/gd/4, 6-29.VIII.1951, leg. H.D.S. (2 ♂♂); n° 2628, II/dd/4, 19.IX.1951, leg. H.D.S. (1 ♀); n° 2629, II/id/4, 25.IX.1951, leg. H.D.S. (1 ♂, 1 ♀);

n° 2631, II/fd/17, 10.IX.1951, leg. H.D.S. (1 ♀); n° 2633/1, 1/II/gd/4, 6.IX.1951, leg. H.D.S. (1 ♀); n° 2633/2, 2/II/fd/4, 6.IX.1951, leg. H.D.S. (1 ♀); n° 2637, II/jd/4, 3.X.1951, leg. H.D.S. (1 ♂, 1 ♀); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (4 ♂♂, 2 ♀♀); n° 3071, II/id/4, 7.XI.1951, leg. H.D.S. (1 ♂); n° 3074, II/hd/4, 13.X.1951, leg. H.D.S. (1 ♀); n° 3527, II/id/4, 1.V.1952, leg. H.D.S. (1 ♀); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (2 ♂♂); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (1 ♂, 6 ♀♀); n° 3663, II/id/4, 29.V.1952, leg. H.D.S. (3 ♂, 4 ♀♀); n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (1 ♀); n° 3666, II/gc/6, 29.V.1952, leg. H.D.S. (1 ♀); n° 3667, II/ie/4, 4.VI.1952, leg. H.D.S. (1 ♂, 3 ♀♀); n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (3 ♂♂, 2 ♀♀); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 3998, II/id/4, 2.VII.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 4002, II/ie/4, 17.VII.1952, leg. H.D.S. (7 ♂♂, 5 ♀♀); n° 4003, II/hd/4, 16.VII.1952, leg. H.D.S. (5 ♂♂, 1 ♀); n° 4004, II/le/4, 26.VI.1952, leg. H.D.S. (1 ♂, 1 ♀); n° 4009, PFSK/7/3, 31.VII.1952, leg. H.D.S. (4 ♂♂, 7 ♀♀); n° 4010, II/fc/6, 4.VII.1952, leg. H.D.S. (2 ♀♀); n° 4011, II/fd/5, 24.VI.1952, leg. H.D.S. (1 ♂); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (2 ♂♂, 2 ♀♀); n° 4014, II/id/4, 2.VII.1952, leg. H.D.S. (2 ♂♂, 3 ♀♀); n° 4015, II/id/4, 9.VIII.1952, leg. H.D.S. (1 ♂); n° 4016, II/ie/4, 9.VIII.1952, leg. H.D.S. (4 ♀♀); n° 4051, II/id/4, 22.VIII.1952, leg. H.D.S. (1 ♀).

Number of specimens : 53 ♂♂, 65 ♀♀.

Geographical distribution. — Guinea. Southern Rhodesia. Natal. Nigeria. Tanganyika. Mozambique. Erithrea (Ghinda). Somalia (Dolo, Giuba). Angola (between Capalongo and Dongo; Bailundo; Muleke; Kuvangu; Bimbi). Egypt. Congo [Kaswabilenga, Kateke, Kankunda, Lušinga, Mukana, Vitshumbi, Kamande, Katanda, Tshambi, Bokuma, Léopoldville, Élisabethville, Kasenyi, Rwindi, Bunia, Burunga, Bitashimwa, Munagana, Kalinga, Ninda, Burambi, Gahinga, Mayumbu forest, Tshamugussa], P.N.G.

Catharsius tricornutus DE GEER.

(Fig. 23.)

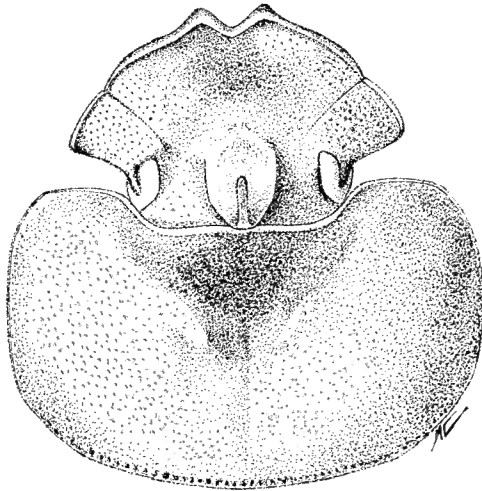
Catharsius tricornutus DE GEER, 1778, *Mém. Ins.*, 7 : 637, t. 47, f. 16. — KOLBE, 1893, *Sitz. Ber. Ges. naturf. Fr.*, Berlin, 139. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, 12 : 325, 333, t. 33, f. 13. — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 71. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 30, f. 29.

Catharsius areolatus BOHEMAN, 1857, *Ins. Caffr.*, 2 : 222.

Catharsius nemestrinus FABRICIUS, 1781, *Spec. Ins.*, 22. — HERBST, 1789, *Käfer*, 2 : 6, t. 7, f. 6. — BOHEMAN, 1857, *Ins. Caffr.*, 2 : 220.

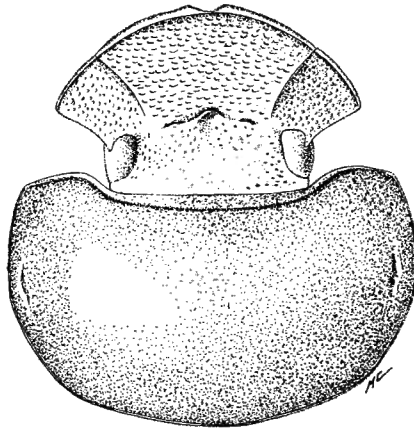
P.N.G. : n° 1403, II/ed/5, 26.I.1951, leg. J.V. (1 ♀); n° 1647, II/ed/4, 19.III.1951, leg. J.V. (2 ♀♀).

Geographical distribution. — Congo : [Mabwe], P.N.G. Mozambique (Limpopo river, Pungue river). Transvaal (Zoutpansberg, Lydenburg, Pretoria, Nelspruit, Zoutpan). Southern Rhodesia (Salisbury, Chirinda forest). Kalahari (Maun). Cape Province (Port Elizabeth). Natal (Bwana M'Kubwa). Angola (Mukoti, Muleke).



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FIG. 43. — *Metacatharsius peleus* OLIVIER.
Head and pronotum (♂, dorsal view).



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FIG. 44. — *Metacatharsius useramus* KOLBE.
Head and pronotum, dorsal view.

Subgenus **METACATHARIUS** PAULIAN.

Metacatharsius PAULIAN, 1939, *Rev. fr. d'Ent.*, **6** (1): 13. — FERREIRA, 1955, *Bol. Soc. Est. Moç.*, (94): 313.

Metacatharsius peleus OLIVIER.

(Fig. 43.)

Catharsius peleus OLIVIER, 1789, *Entom.*, **1**, *Scarab.*, 186, t. 28, f. 249 (type : Senegal, M.P.); 1790, *Encycl. Méth.*, **5** : 167. — HAROLD, 1878, *Mitth. Münch. Ent. Ver.*, **2** : 42. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 69. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 26, f. 21.

Metacatharsius peleus PAULIAN, 1939, *Rev. fr. d'Ent.*, **6** (1): 14. — MÜLLER, 1947, *Atti Mus. Civ. Stor. nat.*, Trieste, **16** (7): 90.

P.N.G. : n° 437, I/o/1, 22.IV.1950, leg. H.D.S. (3 ♂♂); n° 511, I/o/1, 10.V.1950, leg. H.D.S. (1 ♂).

Number of specimens : 4 ♂♂.

Geographical distribution. — Senegal. Sudan. Haut Volta (Oubangui). Congo : [Mabwe], P.N.G.

***Metacatharsius useramus** KOLBE.

(Fig. 44.)

Catharsius useramus KOLBE, 1893, *Sitz. — Ber. Ges. naturf. Fr.*, Berlin., 147 [type : Mwiansi (Tg.), M.Z.B.]. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 71.

Metacatharsius useramus PAULIAN, 1939, *Rev. fr. d'Ent.*, **6** (1): 16.

P.N.G. : n° 3665, II/gc/6, 29.V.1952, leg. H.D.S. (3 sp.); n° 3662, II/he/4, 28.V.1952, leg. H.D.S. (2 sp.); n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (2 sp.); n° 4013, II/gd/4, 4.VIII.1952, leg. H.D.S. (1 sp.); n° 1649, II/ec/4, 3.IV.1951, leg. H.D.S. (1 sp.).

Number of specimens : 9.

Geographical distribution. — Tanganyika (Mwiansi in Useramo). Congo : P.N.G.

Subtribe PINOTINA.

- Copris* BURMEISTER, 1846, *Gen. Ins.*, Heft 10, Col. nr. 27 (pars).
Pinotinae KOLBE, 1905, *Zool. Jahrb.*, Suppl. **8** : 548, 588.
Pinotides GILLET, 1911, *Col. Cat.*, JUNK, **38** : 44.
Pinotina JANSSENS, 1949, *Bull. Inst. royal Sc. nat. Belg.*, **25** (15) : 29.

Genus **PEDARIA** CASTELNAU.

- Pedaria* CASTELNAU, 1832, *Ann. Soc. ent. Fr.*, **1** : 403 (type : *Pedaria nigra* CASTELNAU). — LACORDAIRE, 1856, *Gen. Col.*, **3** : 88, 89. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, **12** : 109, 277. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 45. — BOUCOMONT, 1922, *Bull. Mus. Hist. Nat.*, Paris, **7** : 490. — LEA, 1923, *Rec. S. Austr. Mus.*, **2** : 394. — CARTER, 1936, *Proc. Linn. Soc. N. S. Wales*, **61** : 101. — BALTHASAR, 1937, *Arb. morph. tax. Ent. Berl.*, **4** : 202. — JANSSENS, 1939, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (29) : 6, 9. — FERREIRA, 1954, *Mem. Mus. Dr. Alvaro de Castro*, **4** : 26; 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 31.

Pedaria criberrima WATERHOUSE.

- Pedaria criberrima* WATERHOUSE, 1890, *Ann. Mag. Nat. Hist.*, **6** (6) : 377 [type : Old Calabar (Ng.), B.M.]. — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 45. — BOUCOMONT, 1922, *Bull. Mus. Hist. Nat.*, Paris, **7** : 492. — FERREIRA, 1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 31.

P.N.G. : n° 1651, II/gc/4, 11.IV.1951, leg. H.D.S. (2 sp.); n° 1379, II/hd/4, 21.II.1951, leg. H.D.S. (2 sp.); n° 347, I/b/1, 29.III.1950, leg. H.D.S. (3 sp.); n° 515, I/o/1, 15.IV.1950, leg. H.D.S. (6 sp.); n° 3975, II/je/4, 26.VIII.1952, leg. H.D.S. (2 sp.); n° 3744, II/dd/9, 7.VII.1952, leg. H.D.S. (7 sp.); n° 3739, II/gc/11, 4.VII.1952, leg. H.D.S. (3 sp.); n° 194, I/o/1, 4.II.1950, leg. H.D.S. (1 sp.); n° 4022, II/je/4, 3.IX.1952, leg. H.D.S. (1 sp.); n° 1361, II/ge/9, 12.III.1951, leg. H.D.S. (1 sp.); n° 4059, II/gc/4, 16.IX.1952, leg. H.D.S. (1 sp.); n° 3529, II/gc/6, 29.IV.1952, leg. H.D.S. (1 sp.); n° 2101, II/gd/4, 27.V.1951, leg. H.D.S. (1 sp.); n° 1398, II/ke/4, 15.II.1951, leg. H.D.S. (1 sp.); n° 1327, II/fd/5, 6.III.1951, leg. H.D.S. (1 sp.); n° 1409, II/gd/4, 16.III.1951, leg. H.D.S. (1 sp.); n° 1813, II/gd/4, 24.V.1951, leg. H.D.S. (1 sp.); n° 2426, II/id/4, 10.IX.1951, leg. H.D.S. (1 sp.).

Number of specimens : 43.

Geographical distribution. — Nigeria (Old Calabar, Minna). Dahomey (Kandy). Ivory Coast. Congo : [Kaswabilenga], P.N.G. French Congo (N'Jari, Nieboro, Fort Archambault, Pays Sara, Dai). Niger (Koulikouro). Bahr el Ghazal (M'Bokou). Ghana. High Volta (Sikasso-Bobo-San). Angola (Bimbi).

Pedaria spinosa BOUCOMONT.

Pedaria spinosa BOUCOMONT, 1922, *Bull. Mus. Hist. Nat.*, Paris, **7** : 491
(types : M.R.C.B.; B.M.).

P.N.G. : n° 3975, II/je/4, 26.VIII.1952, leg. H.D.S. (1 sp.); n° 1379, II/hd/4, 21.II.1951,
leg. H.D.S. (1 sp.).

Number of specimens : 2.

Geographical distribution. — Congo : [Kundelungu], P.N.G.
Angola (Kuwango, Mukoti).

Pedaria taylori WATERHOUSE var. **decorsei** BOUCOMONT.

BOUCOMONT, 1922, *Bull. Mus. Hist. Nat.*, Paris, **7** : 492. — FERREIRA, 1959,
Expl. Parc Nat. de l'Upemba, Mission G. F. DE WITTE, (58) : 32.

P.N.G. : n° 285, mont Bamangwa, 7.III.1950, leg. H.D.S. (1 sp.); n° 2426, II/id/4, 10.IX.
1951, leg. H.D.S. (1 sp.); n° 2639, II/ie/4, 28.IX.1951, leg. H.D.S. (1 sp.); n° 1281, II/ge/8,
22.II.1951, leg. H.D.S. (1 sp.).

Number of specimens : 4.

Geographical distribution. — French Equatorial Africa (Fort
Sibut; Fort Archambault : Ba Karé ou Boungoul; Oubanghi : Fort Possel).
Bahr el Ghazal (Nomotina). Northern Rhodesia (Chisanga). Congo [Kas-
wabilenga], P.N.G.

Pedaria tuberculigera WATERHOUSE.

Pedaria tuberculigera WATERHOUSE, 1890, *Ann. Mag. Nat. Hist.*, **6** (6) : 375
(type : Senegamb, B.M.). — GILLET, 1911, *Col. Cat.*, JUNK, **38** : 46. —
BOUCOMONT, 1922, *Bull. Mus. Hist. Nat.*, Paris, **7** : 491. — FERREIRA,
1959, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (58) : 32.

P.N.G. : n° 3532, II/gc/4, 29.IV.1952, leg. H.D.S. (1 sp.); n° 515, I/o/4, 15.IV.1950, leg.
H.D.S. (1 sp.).

Number of specimens : 2.

Geographical distribution. — Senegamb. Senegal (Dakar).
Northern Rhodesia (Mouengoua). Congo : [Mukana], P.N.G.

Tribe ONITINI.

Genus ONITIS FABRICIUS.

Onitis FABRICIUS, 1798, *Suppl. Ent. Syst.*, 2 (type : *Scarabaeus inuus* FABRICIUS); 1801, *Syst. Eleuth.*, 1 : 26. — CASTELNAU, 1840, *Hist. Nat. Col.*, 2 : 88. — LACORDAIRE, 1856, *Gen. Col.*, 3 : 103, 104. — LANSBERGE, 1875, *Ann. Soc. ent. Belg.*, 18 : 14, 49. — BEDEL, 1892, *L'Abeille*, 27 : 251. — REITTER, 1893, *Bestimm. Tab.*, 24 : 217; 1893, (1894), *Verh. naturf. Ver. Brunn.*, 31 : 96. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, 12 : 108, 118. — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 92. — ARROW, 1931, *Fauna Brit. India, Col. Lamell.*, 3, *Copr.*, 386. — JANSSENS, 1937, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, (11) : 13, 15; 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (12) : 5, 1951, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (3) : 7.

Type : *Scarabaeus inuus* FABRICIUS.

***Onitis robustus* BOHEMAN.**

Onitis robustus BOHEMAN, 1857, *Ins. Caffr.*, 2 : 246 (type : Cafraria, N.R.S.). — LANSBERGE, 1875, *Ann. Soc. ent. Belge.*, 51, 75, ♂, ♀. — PÉRINGUEY, 1900 (1901), *Trans. S. Afr. Phil. Soc.*, 12 : 122, 146, t. 34, f. 7. — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 97. — JANSSENS, 1937, *Mém. Mus. royal d'Hist. nat. Belg.*, 2^e série, (11) : 32, 82; 1938, *Expl. Parc Nat. Albert*, Mission G. F. DE WITTE, (12) : 10, 16, pl. f. 7, ♂; 1951, *Expl. Parc Nat. de l'Upemba*, Mission G. F. DE WITTE, (3) : 14, f. 13; 1952, *Bull. Inst. royal Sc. nat. Belg.*, 28 (34) : 5. — FERREIRA, 1958, *South African Animal Life*, 5 : 508, f. 63-65.

Onitis zambesianus PÉRINGUEY, 1896, *Trans. Ent. Soc. Lond.*, 154 (type : Zambeze, S.A.M.).

Onitis lunaris KOLBE, 1897, *Käfer D. O. Afr.*, 145, ♂ (type : Tanganyika, M.Z.B.). — GILLET, 1911, *Col. Cat.*, JUNK, 38 : 96.

P.N.G. : n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (1 sp.); n° 2638, II/ed/4, 2.X.1951, leg. H.D.S. (1 sp.); n° 3960, II/id/4, 22.VIII.1952, leg. H.D.S. (1 sp.).

Number of specimens : 3.

Geographical distribution. — Cape Province (Cafraria, Nossob). Tanganyika. Nyasa See. Zambeze. Congo : [Tshambi, monts Kasali, Katanda, Kalinga, Vitshumbi, Kanyazi, Ninda, May ya Moto, Ndeko], P.N.G. Mozambique.

CHAPTER IV.

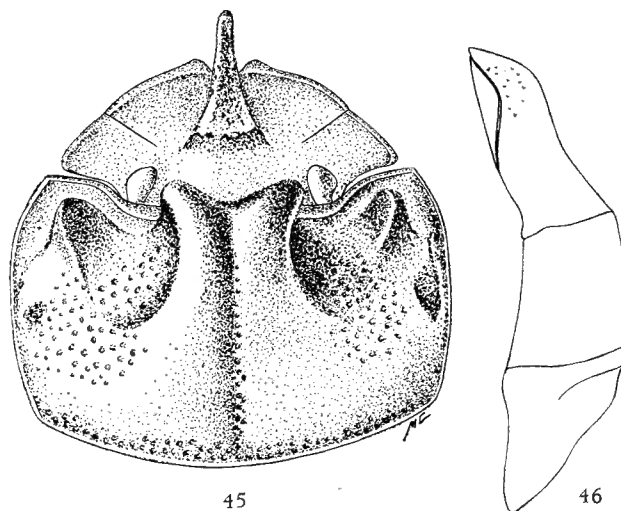
Description of new species ⁽¹⁾**[*Copris basilewskyi* n. sp.].**

(Figs. 45-46.)

Holotype ♂. — Length: 17,5 mm. Body reddish-brown and very shiny. Head marginate; clypeus incised in middle; epistoma rugose-punctate; around the cephalic horn, the epistoma is smooth; genae roughly punctate; vertex smooth; cephalic horn long, a little curved backwards, round at apex, anteriorly smooth and laterally subcarinate and rugose, posteriorly with small tubercles, wide at base and with two tubercles, one of each side, and with three small tubercles close together. Pronotum finely marginate, except at the anterior margin which has a wide marginate; anterior declivous nearly vertical, a little concave at middle and laterally produced; in the centre and at base punctate, the punctations forming a triangle whose base is the anterior margin of the pronotum, the punctations continue laterally to the lateral concave impressions; vertex of the triangle continues with the punctures which constitutes the longitudinal median groove of the disc, the groove being very deep; disc is smooth on each side of the groove and very shiny, forming anteriorly two round and diverging lobes; on each side of the pronotum and laterally to these lobes there is a big and roughly punctate concavity, this is limited on the outside by a wide, triangular and finely punctate tubercle; the inner face and the apex of outer face of this tubercle is punctated and at base the punctations are rough; these punctations are continuous with the lateral punctations of the pronotum and the anterior angles, which are not sharp, but subround; lateral foveae deep, punctated and outwardly limited by an elevated, subcarinate and very finely punctated surface; at the hind margin, the pronotum is roughly punctated. Prothoracic episterni punctured and pubescent. Elytra convex, very shiny; striae deep and strongly punctated; intervals slightly convex and smooth; 8th stria not visible at apical half. Metasternum laterally punctured; disc smooth, anteriorly

(¹) The species between [] are outside the Park's boundaries.

impressed and with a median longitudinal groove at apical half. Anterior femora hairy, punctated, the punctations a little finer at the upper margin. Intermediate and hind femora at apex and at lower half of the ventral face; at the upper half the punctures are not close together. Abdominal sternites with some punctures. Pygidium marginate, the margination not separated from the surface by a groove at apex; surface densely punctate, except at



FIGS. 45-46. — *Copris basilewskyi* n. sp.
45 : Head and pronotum (type ♂), dorsal view.
46 : Aedeagus (type ♂), lateral view.

middle of the base, which is smooth. Anterior tibiae with three outer and big teeth, the fourth one nearly obsolete. Spur of the anterior tibiae curved outwardly.

Holotype ♂ : Stanleyville (R.C.); Litoko (Elengalale), 1954, leg. P. SAUSSUS, M.R.C.B.

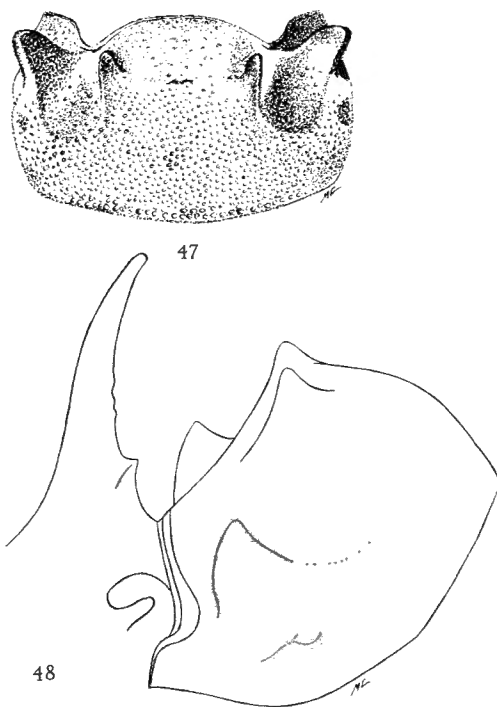
I have the pleasure of naming this new species in honour of Mr. P. BASILEWSKY.

[*Copris brittoni* n. sp.].

(Figs. 47-48.)

Body black, a little shiny. Pubescence reddish-brown. Length 14,5 mm.

Holotype ♂. — Head marginate; clypeus incised at middle and angulose on each side of the incision; epistoma rugose-punctate; genae punctated; vertex finely punctured; cephalic horn very long, nearly straight, a little



FIGS. 47-48. — *Copris brittoni* n. sp.
 47 : Pronotum (type ♂), dorsal view.
 48 : Head and pronotum (type ♂), lateral view.

curved backwardly at apex, laterally flat, laterally and posteriorly rugose and with two small diverging teeth posterior above the base. Pronotum finely marginate, except anteriorly where the margination is wide, especially in front of the eyes; anterior median part elevated, in declivous, punctate, the punctations not dense but abundant, being finer at the upper part of the declivous which has, at the middle, two small and geminate tubercles; on each side and above the declivous is tuberculate; seen from above these

tubercles are pronounced and rhomboid; they are produced downwards, and do not form any sharp ridge or carina, but don't reach the anterior margin of the pronotum, and exterior to these, the pronotum is deeply concave and punctate; exterior to these concavities, the pronotum has a triangular clearly developed, punctate horn; the punctations are denser on the outer face than on the inner face; lateral foveae are small and not carinate outwardly; disc and the whole surface of the pronotum deeply and closely punctate; at the hind margin, the punctations are bigger and shallower; anterior angles are almost right angles and sharp; sides of the pronotum sinuous at the anterior angles. Prothoracic episternum laterally punctate and hairy. Metasternum laterally punctate; disc smooth, anteriorly foveolate and with a slight median groove. Pygidium marginate and deeply punctate. Elytra convex, deeply striate; punctures of the striae very dense; interstriae slightly convex and smooth. Femora densely punctate. Anterior tibiae with four outer teeth. Anterior spur curved inwardly.

Holotype ♂ : Lushato (Tg.), B.M.

I have the pleasure of naming this new species in honour of Dr. BRITTON, entomologist of the British Museum (Natural History), London.

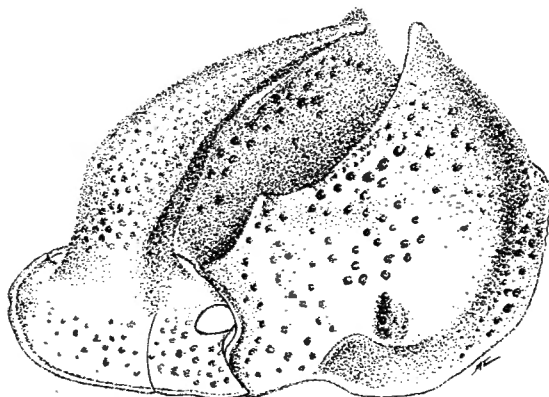
[*Copris pseudobootes* n. sp.].

(Fig. 49.)

Black and shiny. Head much wider than long, marginate and broadly concave at middle of the clypeal margin, which forms two small teeth on each side of this concavity; epistoma punctate; genae strongly angulose and granulose; cephalic horn flat, very wide at basal part, when it is seen from the front it has the form of a leaf, curved backwards, from the base; anterior face very rugose, laterally carinate; posteriorly without tubercles. Pronotum much wider than long; anterior border concave at median part and marginate; lateral margin forming a concavity at the anterior angle, which is pronounced; median part deeply impressed, the concavity roughly punctate and limited on each side, by a large area slightly elevated but which is wider than high and anteriorly and posteriorly dentate at the upper margin and having a small tooth near the anterior tooth; these areas are punctate; lateral foveae roughly punctate; surface of the carina, at lateral foveae, smooth and being prolonged in a small and smooth salience, near the lateral formations. Prothoracic episternum with a transversal carina which does not reach the outer margin of the prothorax. Elytra longer than the head and the pronotum combined; convex, with the striae punctate and the interstriae finely aciculate. Metasternum laterally punctate; metasternal apophysis smooth and very densely punctured laterally, and some punctations at the anterior margin of each sternite. Pygidium punctate, the punctures disappearing at apex; the margination of

the pygidium present at apex. Anterior femora strongly punctate. Median and hind femora with strong not very dense punctations, nearly smooth at the upper margin. Anterior tibiae 4-dentate outwardly. Length : 22 mm.

Holotype ♂ : Usagara (Tg.), 1918, leg. NEVINSON (B.M.).



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FIG. 49. — *Copris pseudobootes* n. sp.
Head and pronotum (type ♂), lateral view.

[*Copris vrydaghi* n. sp.].

Holotype ♂. — Black and shiny. Antennae rust in colour. Head marginate, densely and strongly punctate; clypeus incised at middle; vertex finely punctate; cephalic horn long, strong, especially at base, a little curved backward, round at apex, laterally punctate and with two tuberculiform and geminate teeth, posteriorly. Pronotum marginate, with the anterior margin a little concave at middle, with the anterior angles pronounced and sharp; anterior median declivous slightly concave, with rugose punctures, leaving a median smooth space; disc with close and strong punctures, longitudinally grooved at middle and with the median lobe 4-tuberculate; median declivous of the pronotum separated from the lateral lamelliform formation by a big concavity covered with scamiform granules; lateral foveae deep and punctate. Elytra convex; striae strongly punctate; interstriae with close but not deep punctation; 8th stria strong, completely joining with the 7th stria, at apex; base carinate from the 6th stria. Pygidium marginate and closely punctate. Mesosternum strongly punctate. Metasternum roughly punctate laterally; metasternal apophysis smooth and longitudinally grooved at middle. Abdominal sternites laterally punctate.

Metasternum roughly punctate laterally; metasternal apophysis smooth and longitudinally grooved at middle. Abdominal sternites laterally punctate. Femora strongly punctate. Anterior tibiae 4-dentate outwardly; anterior spur truncate at apex and directed inwardly. Length 14 mm.

Holotype ♂ : Estcourt (N.), S.A.M.

Paratype ♂ : Weenen (N.), III.1926, leg. H. P. THOMASSET, B.M.

I have the pleasure of naming this new species in honour of Mr. J. VRYDAGH.

[**Catharsius congolensis** n. sp.].

(Fig. 50.)

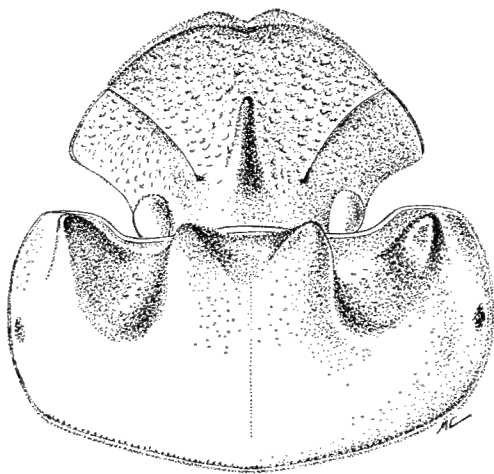
Body reddish-brown, shiny. Pubescence reddish-brown. Antennae reddish. Length 18 mm.

Holotype ♂. — Head marginate; clypeus incised in the centre; genae granulose; epistoma with big granules, like scales; genal sutures carinate and tuberculate in the frons; cephalic horn long, erect, laterally flat, posteriorly bicarinate; between the eyes, the surface is smooth. Pronotum marginate; anterior margin slightly convex; disc slightly grooved in the middle, smooth and shiny, with some fine punctures at hind margin; on the median anterior part, the disc has two saliences, separated by a concavity which is finely grooved in the middle; of each side there is a big concavity which is limited on the outside by a tuberculiform and strong salience; the concavities are punctate; laterally and anteriorly, the pronotum is punctate, the punctation is like small scales; lateral foveae deep; anterior angles obtuse; lateral margin round; at the posterior end there is a row of punctures. Prothoracic episternum punctate and hairy, with a very small transversal carina, only at the margin of the procoxal concavity. Prosternal apophysis punctate and hairy, carinate longitudinally. Mesosternum with very closely punctation. Metasternum shagrinéd, except in the middle of the disc, where it is longitudinally grooved; laterally and on the disc, the punctures are pubescent; meso-mesosternal suture slightly round. Abdominal sternites punctate and hairy. Pygidium marginate, the punctures rare and with hairs. Elytra carinate at base, convex; striae punctate; intervals convex and smooth; eighth stria not carinate; apex of the elytra finely punctate. Anterior femora ventrally with rough puncture. Intermediate femora with scattered punctures. Anterior tibiae with three outer teeth; ventral face with three oblique carinae corresponding to each tooth; inner angle of the tibiae produced in a strong tooth; anterior spur a little curved outwardly. Intermediate tibiae with the apical margin straight, not dentate. Hind tibiae with the apical margin also without teeth. Middle and hind tibiae like the other species of *Catharsius*.

One specimen, collected at Bambesa, has the eighth stria of the elytra carinate at base.

This species has been in the genus *Catharsius* HOPE, although one specimen only has the eighth stria carinate at base. All the generical characters belong to the genus *Catharsius*; so the existence of the eighth stria, carinate or not, does not seem sufficiently important as character to permit the separation of the genus *Copris* GEOFFROY from *Catharsius* HOPE.

Material. — Congo : Lulua (Tshala), V.1930, leg. F. G. OVERLAET (1 ♂, holotype, M.R.C.B.), V.1931, leg. F. G. OVERLAET (1 ♂, paratype, M.R.C.B.); Bambesa, 11.V.1938, leg. J. VRYDAGH (1 ♂, paratype, M.R.C.B.).



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FIG. 50. — *Catharsius congolensis* n. sp.
Head and pronotum (type ♂), dorsal view.

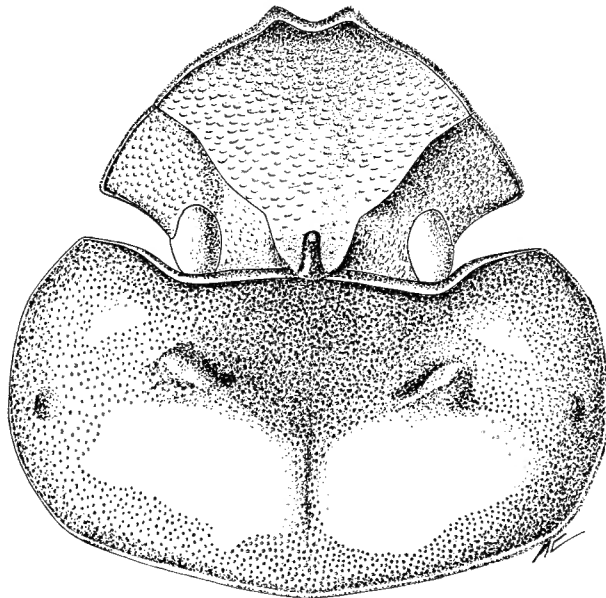
***Catharsius garambae* n. sp.**

(Fig. 51.)

Black. Pubescence reddish-brown. Length 22 mm.

Holotype ♂. — Head marginate; clypeus bilobed at middle and a little curved upward; club of the antennae very long, curved and longer than the scape; epistoma granulate-squamiform; genal sutures elevated; genae granulate; cephalic horn flat, and tongue-like at the base, backwardly curved and with the apical part elongated, conical and slightly curved frontwards; anteriorly, the base of the horn has transversal punctures. Pronotum marginate; anterior median part a little elevated, concave, granulate and laterally and above with a strong tubercle; the granules of the declivous

prolonged in the median groove of the disc, and in a strip at the hind margin of the pronotum; of each side of the median groove, the disc is convex and has a broad and smooth area; laterally and in front of the tubercles of the pronotum, there is also a small shining and smooth area, laterally, the pronotum is completely granulose; lateral foveae with some granules. Elytra a little dull, carinate at base, with not deep striae but with some



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FIG. 51. — *Catharsius garambae* n. sp.
Head and pronotum (type ♂), dorsal view.

punctures; interstriae finely aciculate; 8th stria carinate at basal half. Pygidium marginate and punctate. Mesasternum laterally granulose; disc foveolate at apex. Abdominal sternites laterally punctate. Anterior femora punctate; intermediate and hind femora nearly smooth. Spur of the anterior tibiae curved inwardly at apex.

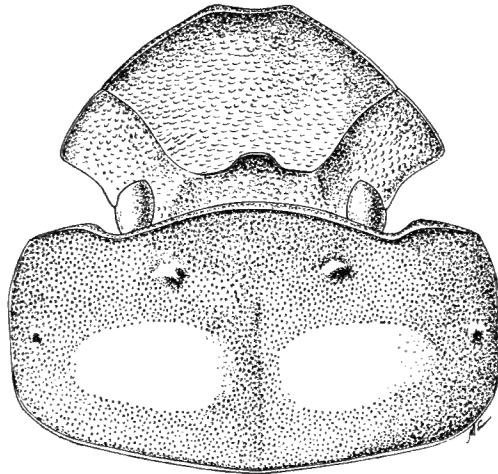
Material. — R.C. : P.N.G., n° 3536, II/ed/6, 27.IV.1952, leg. H.D.S. (holotype, ♂, I.P.N.C.B.).

Catharsius saegeri n. sp.

(Fig. 52.)

Black. Pubescence reddish-brown. Length 19 mm.

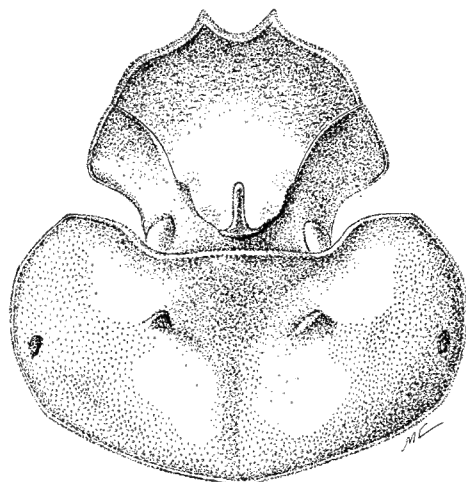
Holotype ♂. — Head marginate; club of the antennae very long, curved and longer than the first joint; clypeus curved upwardly, at middle and slightly concave at centre; epistoma transversally rugose; genae granulo-lose; genal sutures elevated and connected with the transversal cephalic carina, which is elevated in the centre in a small horn; vertex transversally



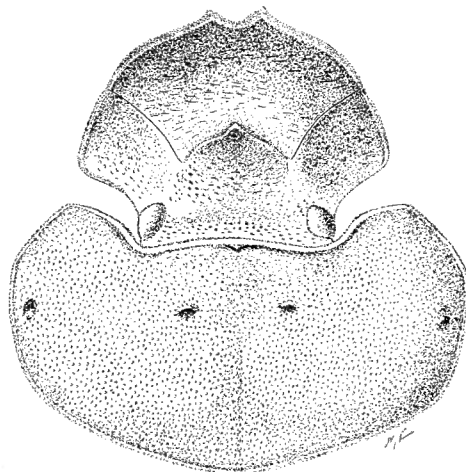
52

FIG. 52. — *Catharsius saegeri* n. sp.
Head and pronotum (type ♂), dorsal view.

granulose. Pronotum marginate and granulose, with two anterior smooth and shining tubercles and two transversal, broad and shiny, of each side of the median groove of the disc; lateral foveae deep. Elytra carinate at base, dull, and with the striae not deep and punctate; first interstria convex; 8th stria carinate at basal half. Pygidium marginate and punctate. Abdominal sternites laterally punctate. Metasternum finely granulose laterally and with fine punctures on the anterior part of the disc and foveolated behind. Anterior femora with broad and widely separated punctures at the apex, from each puncture arises one hair. Intermediate and hind femora with two or three broad punctures with hairs, at apex. Spur of the anterior tibiae curved inwardly.



53



54

FIGS. 53-54. — *Catharsius upembanus* n. sp.
Head and pronotum, dorsal view.
53 : Holotype ♂. — 54 : Allotype ♀.

Allotype ♀. — Head similar to that of the male, with a frontal carina, wide in the middle. Pronotum with two outlines of saliences, anteriorly, and with two shining spots, on each side of the median part of the disc.

I have the pleasure of naming this new species in honour of Mr. H. DE SAEGER.

Material. — R.C. : P.N.G., n° 3687, II/ie/4, 4.VI.1952, leg. H.D.S. (holotype, ♂, I.P.N.C.B.); P.N.G., n° 2098, II/ge/4, 13.V.1951, leg. H.D.S. (allotype, ♀, I.P.N.C.B.).

[**Catharsius upembanus** n. sp.].

(Figs. 53-54.)

Body reddish brown. Pubescence reddish brown. Length 30 mm.

Holotype ♂. — Head marginate; clypeus with two sharp teeth, turned upwardly, widely separated; the clypeus, laterally, is subangulose; epistoma with transversal and irregular punctures; genal sutures produced and continuous with the lateral carina of the cephalic horn; genae with transversal punctures outwardly; frons smooth and shiny; cephalic horn smooth and shiny, in form of a wide blade at base, dentate laterally and ending in a long and narrow horn, slightly curved forwards and with the apex round. Pronotum marginate; anterior margin nearly straight; anterior angles obtuse; surface finely granulose, with two shiny areas, without granules, in front of the prothoracic tubercles and another two, one of each side, behind the same tubercles, in the disc; disc grooved in the middle. Prothoracic episternum punctate and hairy. Metasternum laterally very hairy and punctate; disc longitudinally grooved in the middle and foveolate at apex. Abdominal sternites punctate. Pygidium marginate and densely punctate. Elytra carinate at base, a little dull with a silky aspect; striae punctate; interstriae finely punctate; eighth stria carinate at basal half. Anterior femora with the ventral face punctate, the punctation is very dense and pubescent in the centre. Middle femora with strong punctures at apex, the rest is finely punctate. Hind femora finely punctate, with broad punctures below. Anterior tibiae three-dentate behind.

Allotype ♀. — Head broad, marginate, with the clypeus bidentate, as in the male; epistoma with transverse punctures; frons elevated in a rough, triangular carina, slightly curved to the front; genae entirely granulose. Pronotum very wide and short, marginate, with the lateral margin tubercles, anteriorly.

Material. — R.C. : P.N.U. : Dipidi river (1.700 m), 22.IV.1947, leg. G. F. DE WITTE (holotype, ♂, I.P.N.C.B.); Lusinga (1.760 m), 25.III.1947, leg. G. F. DE WITTE (allotype, ♀, I.P.N.C.B.); Kankunda (1.300 m), 19.XI.1947, leg. G. F. DE WITTE (paratype, ♀, I.P.N.C.B.).

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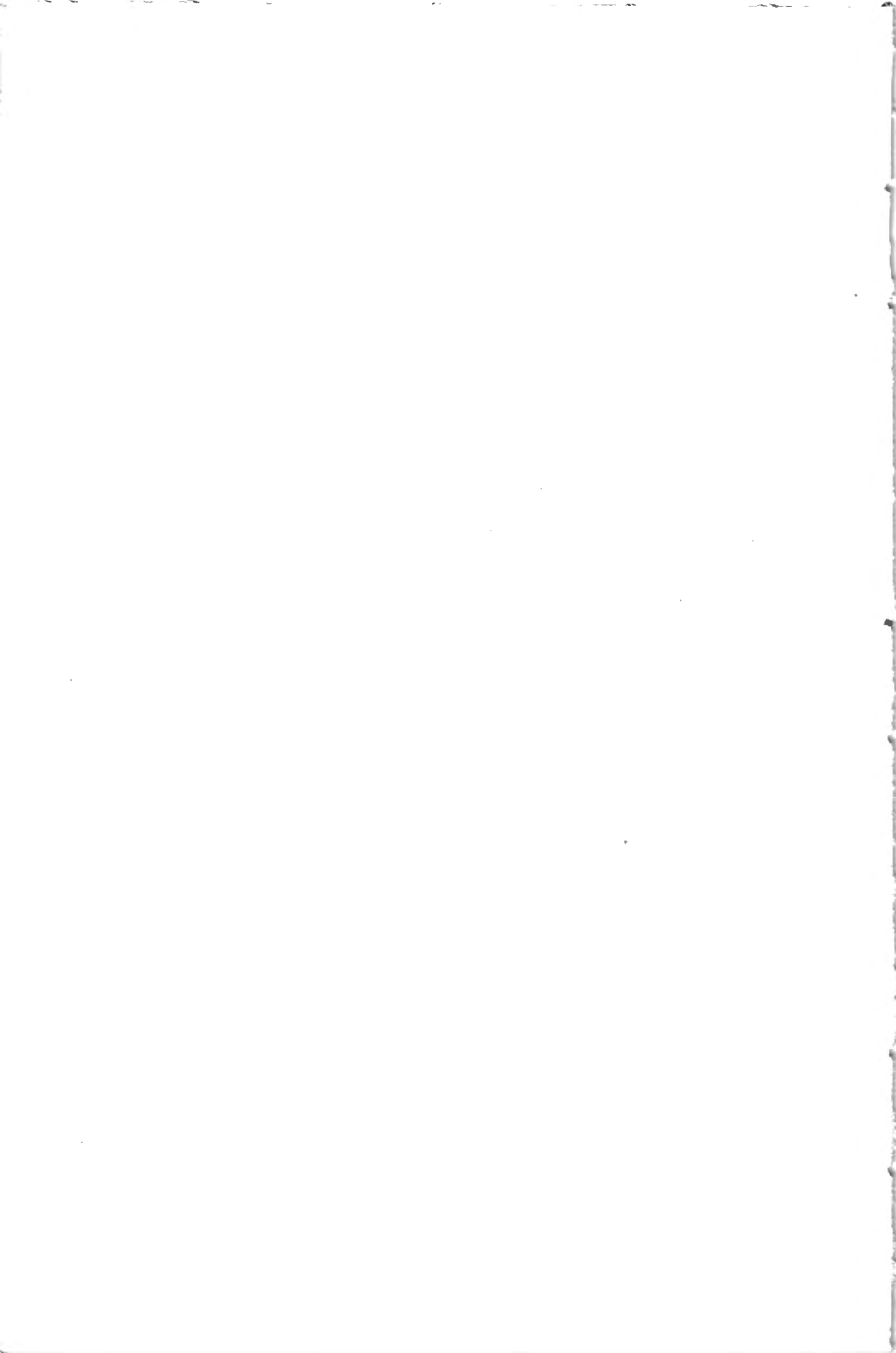


PLATE I



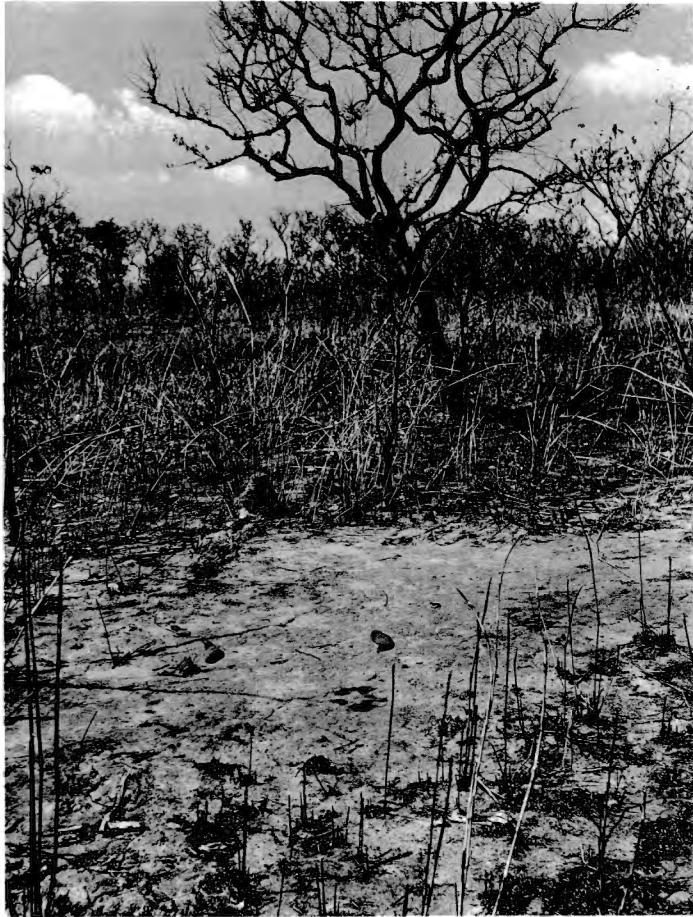


Fig. 1. — « Patakpali ». — Garamba National Park. (1/a/1).

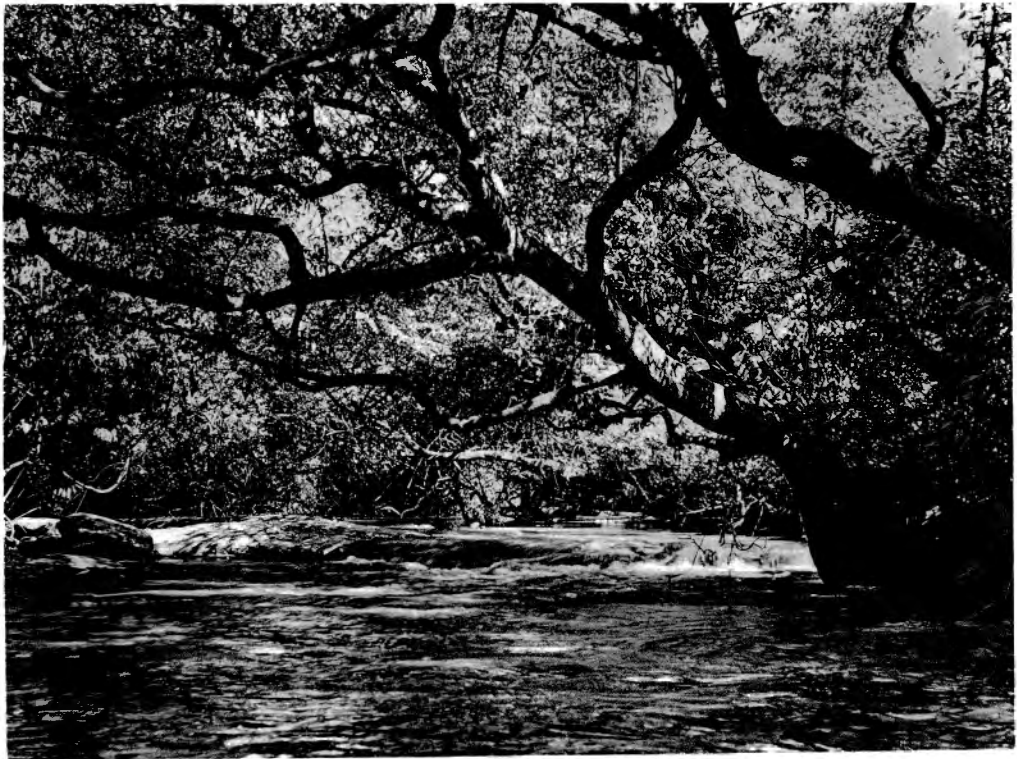


Fig. 2. — Aka river. — Garamba National Park. (1/a/3').



PLATE II

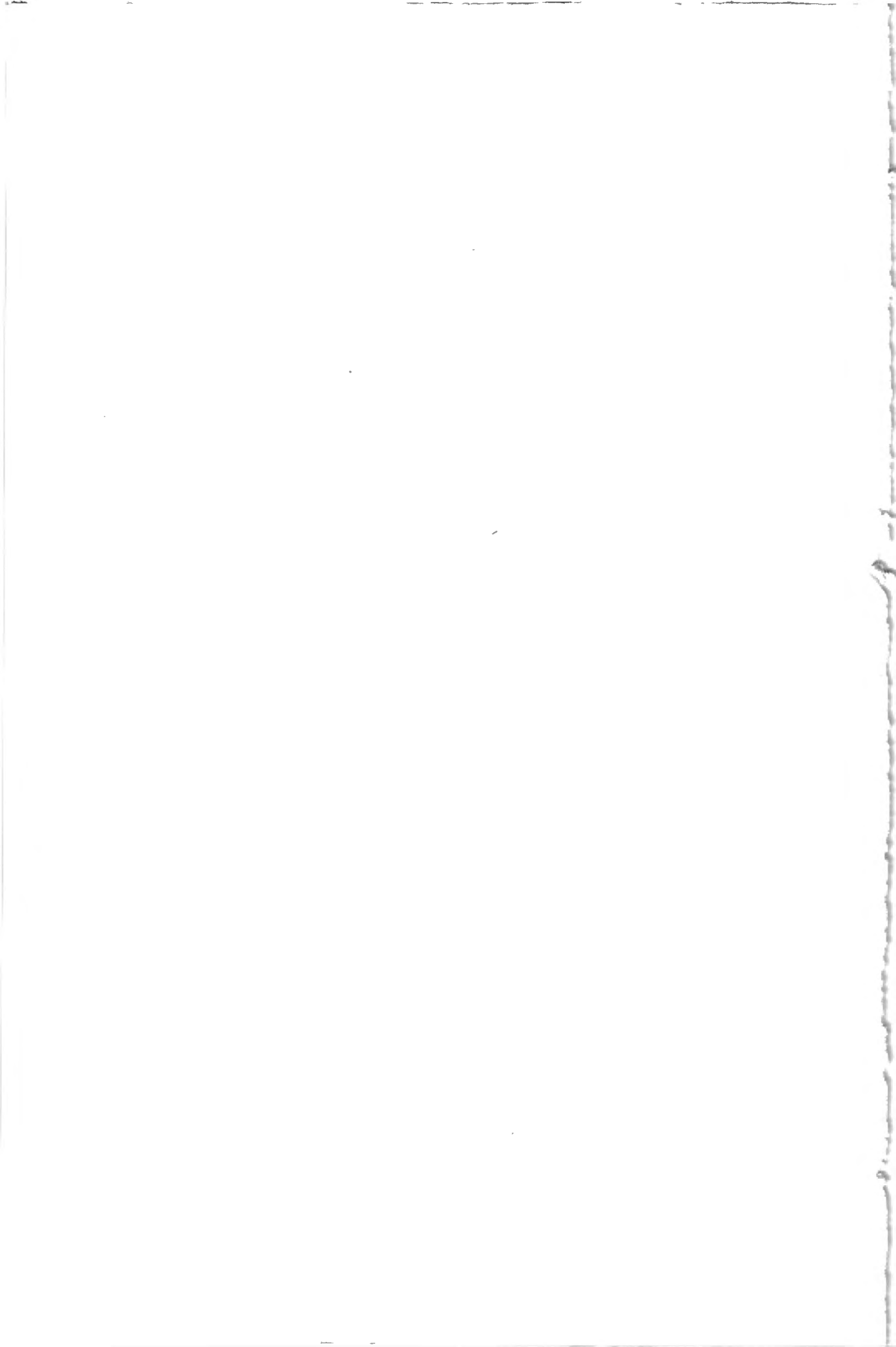




Fig. 1. — Savanna near the forest galerie. — Garamba National Park. (1/c/1).



Fig. 2. — Bamangwa Mont (alt. 902 m). — Garamba National Park.

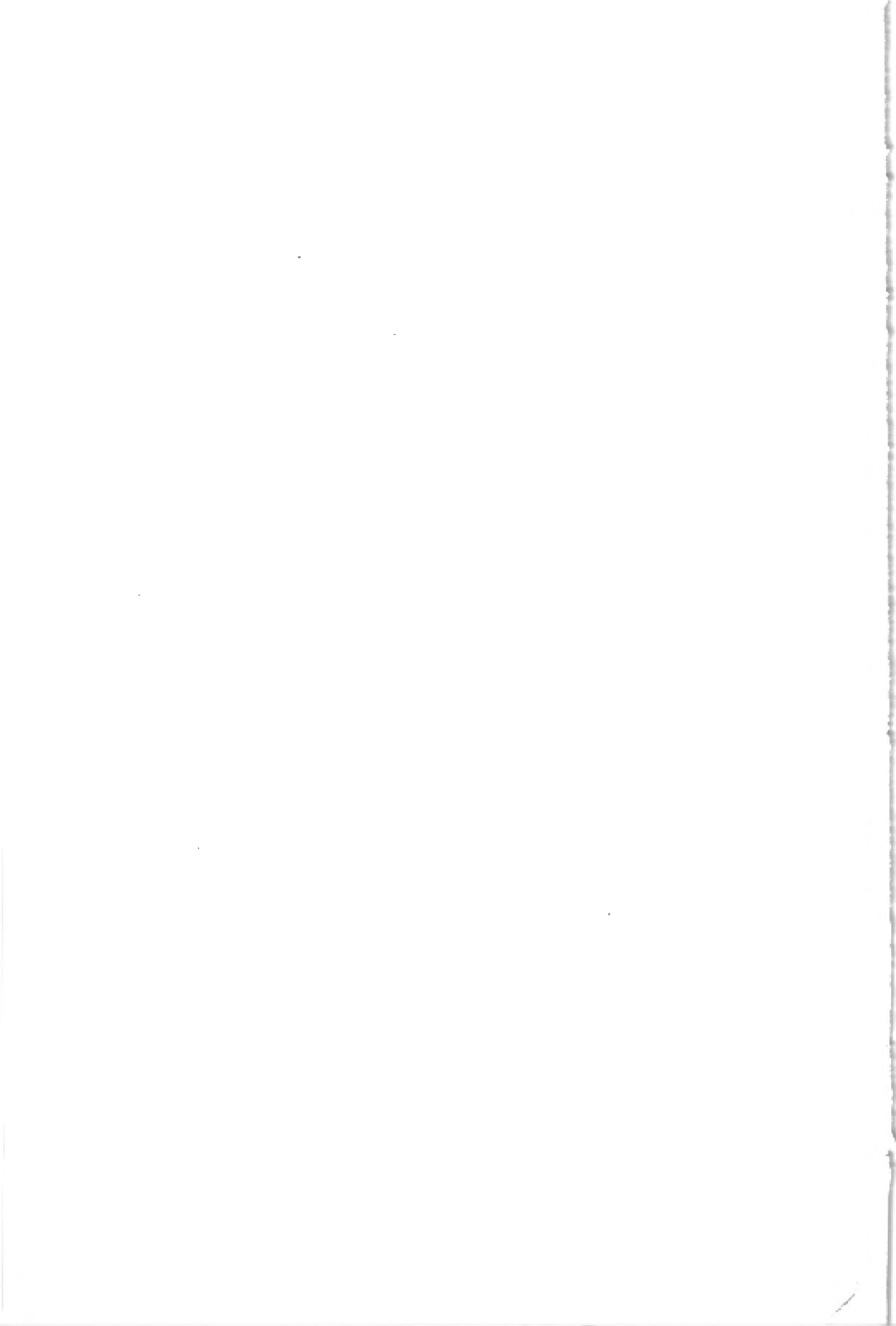


PLATE III

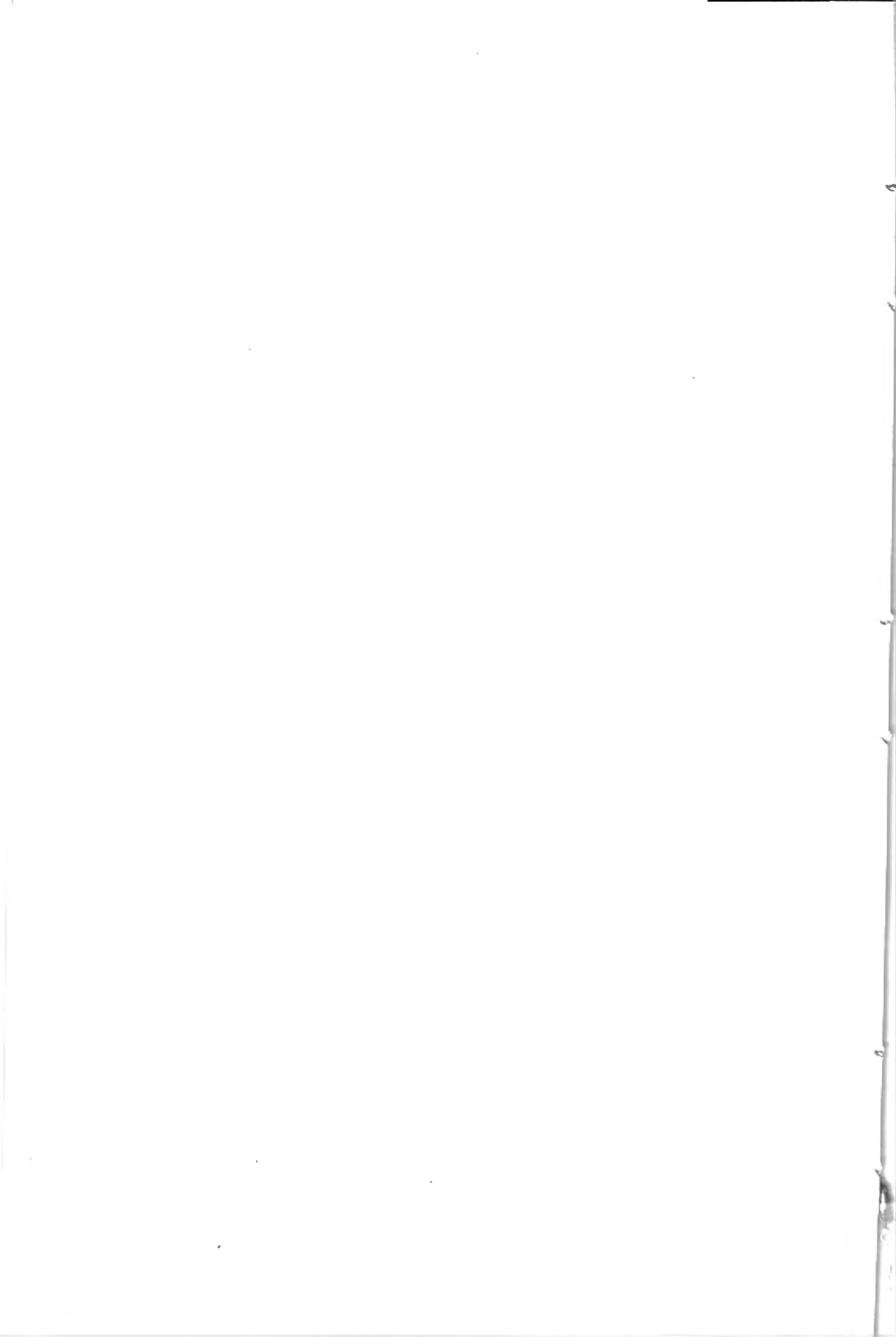




Fig. 1. — Savanna abounding with wood. — Garamba National Park. (1/o/1).



Fig. 2. — Vegetation of the Napokomweli river. — Garamba National Park. (1/o/3).



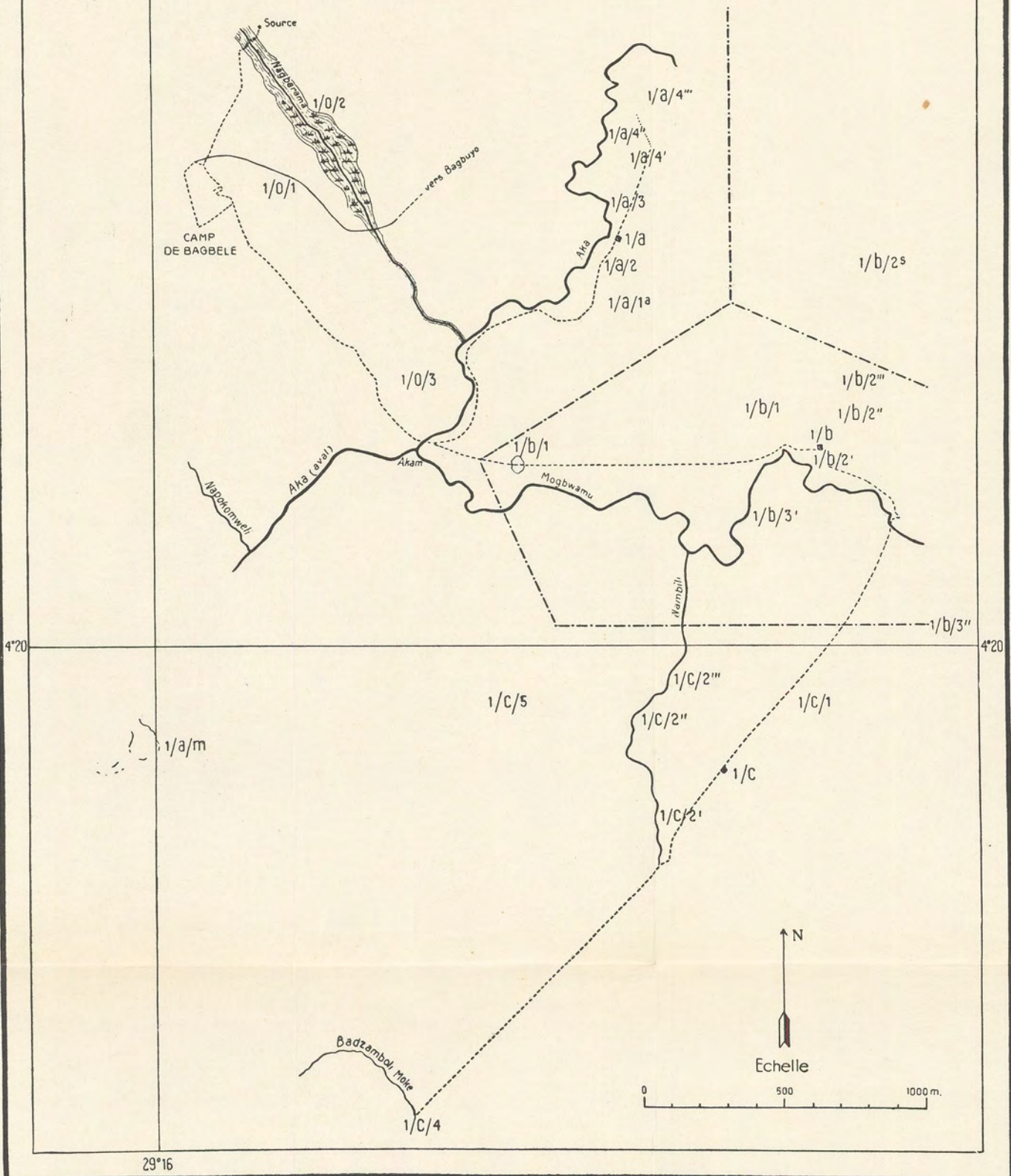
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EXPLORATION DU PARC NATIONAL DE LA GARAMBA

MISSION H. DE SAEGER

1949 - 1952

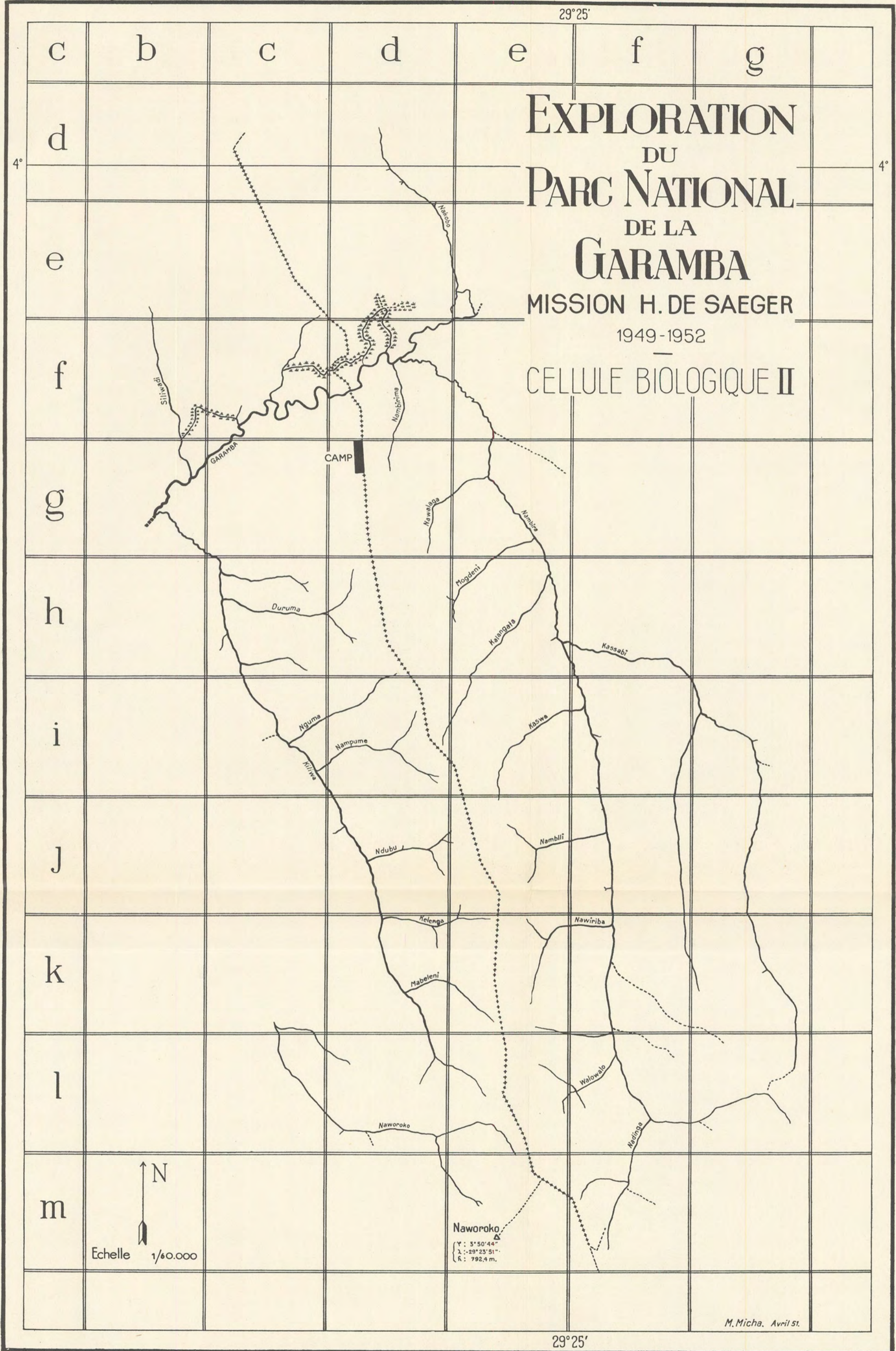
CELLULE BIOLOGIQUE I



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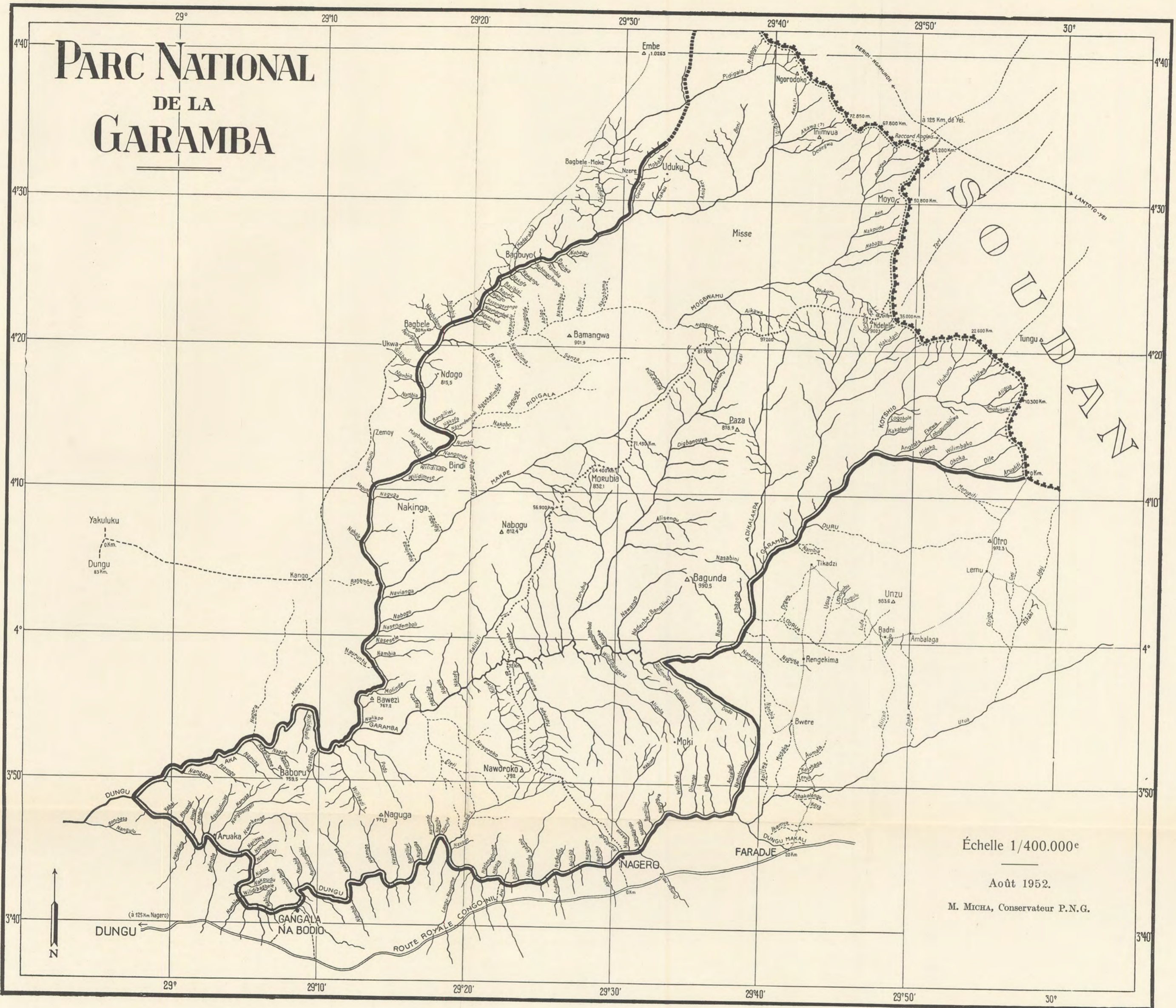
MAP I.

I. — BIOLOGICAL CELL.



MAP II.
II. — Biological cell.

PARC NATIONAL DE LA GARAMBA



Échelle 1/400.000^e
 Août 1952.
 M. MICHA, Conservateur P.N.G.

MAP III.
 Garamba National Park.

Published August 31, 1962.
