

**Results of the Benin Mission 2001 and the Zambia Mission 2002
of F. & L. Kantner.
(Coleoptera: Hydrophilidae)
FRANZ HEBAUER**

ABSTRACT

The entomologists F. and L. Kantner from Czechia have undertaken two scientific missions to the West African state Benin (2001) and to the South African state Zambia (2002). The output of Hydrophiloidea including new species is listed and discussed in this paper. Four new species, *Berosus* (s.str.) *nigricollis* sp.n., *Chasmogenus rhodesiensis* sp.n., *Hydrobiomorpha perssoni* sp.n. and *Coelostoma kantnerorum* sp.n. are described and illustrated. The evaluated material including the types is deposited in the Staatliches Museum für Naturkunde Stuttgart.

KEY WORDS:

Insecta, Coleoptera, Hydrophilidae, new species, Benin, Zambia.

ABBREVIATIONS AND ACKNOWLEDGEMENTS

CFH Coll. Franz Hebauer, Plattling, Germany
MNS Staatliches Museum für Naturkunde Stuttgart
ZML Zoological Museum Lund, Sweden

First records for the listed species are marked with an asterix.

I am grateful to Dr. Wolfgang Schawaller from the Staatliches Museum für Naturkunde Stuttgart and to Dr. Roy Danielsson from the Zoological Museum Lund for the opportunity to examine the Hydrophiloidea outputs from the Africa Expeditions and for donating paratypes of the new described species. Special thanks to Prof. Garth Foster for reading the manuscript.

INTRODUCTION

Benin Mission 2001

Localities:

- a) Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001.
- b) Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001.
- c) Benin c.occ. 25 km S of Natitingou, Sinu Issire (L'Attacora), 30.vi.2001.
- d) Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001.
- e) Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001.
- f) Benin bor.occ. Kerou env. 50 km NE Natitingou, 23.vi.2001.
- g) Benin c.or. Kokora env. 52 km N of Save, 21.vi.2001, leg.
- h) Benin bor.occ. 45 km N of Natitingou, Tandava env., 26.vi.2001.
- i) Benin, Save env. Dept. du Zou, 16.-20.vi.2001.

SPECIES LIST

***Berosus (Berosus) gebieni* KNISCH, 1922**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner.
Further distribution: Cameroon, Kenya, Malawi, Tanzania, DR Congo.

***Berosus (Berosus) ?invisitatus* BALFOUR-BROWNE, 1952 (2 females).**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner.
Further distribution: Benin, Burkina Faso, Ghana, Guinea, Ivory Coast.
Note: Only two females were available.

***Berosus (Berosus) nigerianus* SCHÖDL, 1994**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner.
Further distribution: Cameroon, Gabon, Guinea, Ivory Coast, Liberia, Niger, Nigeria, Senegal.

***Berosus (Berosus) nigriceps* FABRICIUS, 1801**

Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner.
Further distribution: Angola, Bernin, Botswana, Burkina Faso, Mauritania, Namibia, Niger, Nigeria, Senegal, South Africa, Sudan, Tanzania, Tchad, DR Congo, Zimbabwe, Cape Verde Islands.

***Berosus (Berosus) vitticollis* BOHEMANN, 1851**

Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001, leg. F. & L. Kantner.
Further distribution: Angola, Botswana, Burkina Faso, Burundi / Rwanda, Cameroon, Ethiopia, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Libya, Malawi, Mozambique, Namibia, Niger, Nigeria, Senegal, Sierra Leone, Somalia, South African Rep., Sudan, Tanzania, Tchad, Uganda, Zaire, Zambia, Malgasy area.

***Allocotocerus segrex* (D'ORCHYMONT, 1939)**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner.
Further distribution: Congo-Brazzaville, Gabon, Kenya, Mozambique, Namibia, South African Rep., Tanzania, Uganda, DR Congo, Zambia.

***Amphiops globus* ERICHSON, 1843**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner;
Benin c.occ. 25 km S of Natitingou, Sinu Issire (L'Attacora), 30.vi.2001, leg. F. & L. Kantner;
Benin, Save env. Dept. du Zou, 16.-20.vi.2001, leg. F. & L. Kantner.
Further distribution: Angola, Burundi / Rwanda, Cameroon, Congo-Brazzaville, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Mozambique, Namibia, Nigeria, Sierra Leone, South African Rep., Tanzania, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

***Amphiops lasioides* RÉGIMBART, 1903**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner.
Further distribution: Congo-Brazzaville, Egypt, Gabon, Gambia, Guinea, Namibia, Senegal, Sierra Leone, South African Rep., Sudan, Tchad, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

***Amphiops senegalensis* (CASTELNAU, 1840)**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner; Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner.
Further distribution: Angola, Botswana, Burundi / Rwanda, Cameroon, Congo-Brazzaville, Egypt, Ethiopia, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Mali, Morocco, Mozambique, Namibia, Nigeria, Senegal, Sierra Leone, South African Rep., Sudan, Tanzania, Uganda, DR Congo, Zambia, Zimbabwe, Cape Verde Islands, Malgasy area.

***Amphiops* sp. (1 female).**

Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner.

***Paracymus chalceus* RÉGIMBART, 1903**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner.
Further distribution: Angola, Botswana, Burundi / Rwanda, Cameroon, Ethiopia, Gabon, Gambia, Ghana, Ivory Coast, Kenya, Malawi, Mauritania, Mozambique, Namibia, Nigeria, Senegal, Sierra Leone, South African Rep., Sudan, Tanzania, Togo, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

***Helochaeres (Helochaeres) dilutus* (ERICHSON, 1843)**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner.
Further distribution: Angola, Botswana, Burundi / Rwanda, Cameroon, Congo-Brazzaville, Ethiopia, Gambia, Ghana, Ivory Coast, Kenya, Liberia, Mozambique, Namibia, Senegal, South African Rep., Sudan, Tanzania, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

***Helochaeres (Hydrobaticus) dolus* D'ORCHYMONT, 1939**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner; Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner; Benin c.or. Kokora env. 52 km N of Save, 21.vi.2001, leg. F. & L. Kantner.
Further distribution: Cameroon, Congo-Brazzaville, Gambia, Ghana, Ivory Coast, Nigeria, Senegal, Sierra Leone, Sudan, Tanzania, DR Congo.

***Helochaeres (Helochaeres) ellipticus* RÉGIMBART, 1907**

Benin c.occ. 25 km S of Natitingou, Sinu Issire (L'Attacora), 30.vi.2001, leg. F. & L. Kantner.
Further distribution: Burkina Faso, Cameroon, Congo-Brazzaville, Ethiopia, Gabon, Ghana, Guinea, Ivory Coast, Liberia, Nigeria, Uganda, DR Congo.

***Helochaeres (Hydrobaticus) itylus* BALFOUR-BROWNE, 1952**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner.
Further distribution: Cameroon, Congo-Brazzaville, Gambia, Ghana, Guinea, Ivory Coast, Senegal.

***Helochaeres (Helochaeres) longipalpis* (MURRAY, 1859)**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner; Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner; Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner; Benin c.or. Kokora env. 52 km N of Save, 21.vi.2001, leg. F. & L. Kantner.
Further distribution: Angola, Botswana, Burkina Faso, Burundi / Rwanda, Cameroon, Central African Rep., Congo-Brazzaville, Egypt, Ethiopia, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mozambique, Namibia, Nigeria, South African Rep., Sudan, Tanzania, Togo, Tchad, Uganda, Zaire, Zambia, Zimbabwe, Malgasy area.

***Helochaeres (Hydrobaticus) lutulentus* BALFOUR-BROWNE, 1952**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner.
Further distribution: Mauritania.

***Helochaeres (Hydrobaticus) mediastinus* D'ORCHYMONT, 1939**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner; Benin bor.occ. Kerou env. 50 km NE Natitingou, 23.vi.2001, leg. F. & L. Kantner.
Further distribution: Angola, Ethiopia, Kenya, Namibia, Tanzania, Malgasy area.
New for Benin.

***Helochaeres (Hydrobaticus) menulus* D'ORCHYMONT, 1943**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner.
Further distribution: Kenya, Nigeria, Tanzania, DR Congo.

***Helochares (Hydrobaticus) balfourbrownei* HANSEN, 1999**

Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001, leg. F. & L. Kantner; Benin bor.occ. 45 km N of Natitingou, Tandava env., 26.vi.2001, leg. F. & L. Kantner.
Further distribution: Burkina Faso, Ghana, Guinea, Ivory Coast, Liberia, Nigeria, Sierra Leone.
Annotation: This is a typical West African species.

Helochares (Hydrobaticus) spp.

(females of this subgenus are generally not to identify).

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner; Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner; Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner; Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001, leg. F. & L. Kantner; Benin bor.occ. 45 km N of Natitingou, Tandava env., 26.vi.2001, leg. F. & L. Kantner; Benin, Save env. Dept. du Zou, 16.-20.vi.2001, leg. F. & L. Kantner.

Note: Females of this subgenus are not to identify with certainty.

Chasmogenus sp. (single female).

Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner.

Note: Females of this genus are not to identify with certainty.

***Enochrus (Methyrus) lucens* HEBAUER, 2002**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner.

***Enochrus (Methyrus) cf meracus* BALFOUR-BROWNE, 1952 (single female).**

Benin c.or. Kokora env. 52 km N of Save, 21.vi.2001, leg. F. & L. Kantner.

***Sternolophus angolensis* (ERICHSON, 1843)**

Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner; Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001, leg. F. & L. Kantner.
Further distribution: Angola, Burundi / Rwanda, Congo-Brazzaville, Ethiopia, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Malawi, Mozambique, Namibia, Sierra Leone, South African Rep., Tanzania, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

***Sternolophus solieri* CASTELNAU, 1840**

Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner; Benin c.occ. 25 km S of Natitingou, Sinu Issire (L'Attacora), 30.vi.2001, leg. F. & L. Kantner; Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner; Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001, leg. F. & L. Kantner; Benin bor.occ. Kerou env. 50 km NE Natitingou, 23.vi.2001, leg. F. & L. Kantner; Benin c.or. Kokora env. 52 km N of Save, 21.vi.2001, leg. F. & L. Kantner.

Further distribution: Algeria, Burkina Faso, Burundi / Rwanda, Congo-Brazzaville, Egypt, Ethiopia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mali, Mozambique, Namibia, Nigeria, Sierra Leone, South African Rep., Uganda, DR Congo, Zimbabwe, Cape Verde Islands, Malgasy area.

***Hydrobiomorpha perssoni* sp.n.**

Holotypus (male): "Guinea-Bissau: Cacheu 5 km W Bula, 23.6.1993, leg. S. Persson" (ZML).- Paratypes: 1 male, 1 female: same data as holotype; 3 female: same locality, but 31.6.1993; 12.7.1993, 19.8.1992 (ZML, CFH); 2 male: "Benin c.or., Sontou, Dept. du Borgou 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner (MNS, CFH); 1 male: "Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner" (MNS).

Description: Total length: 18 mm; total width: 8 mm.- Striking elongate, rather flat, shining black.- Penultimate segment of maxillary palpi in the male strongly pen-shaped and curved (similar to the Australian *H. helenae* BLACKBURN). Prosternal carina almost straight and even, completely rounded anteriorly in lateral view, angulate anteriorly, without long acute spine. Lateral bead of elytron not explanate, bordered by single row of rather fine punctures.

Metasternal keel short, obtusely rounded posteriorly, not exceeding posterior coxae. Last abdominal sternum with smooth apical field lacking any punctation and pubescence. Aedeagus with the accessory lateral branch of parameres bifid, divided in an inner spine and in a more basal situated outer lobe, laterally accompanied by a strong ventral spine of almost the same length; median lobe evenly attenuated in distal half; apex not widened, with patched strong spine-lamella on each side medio-dorsally. (Fig. 1).

Discussion: This species comes very close to *H. distincta* (HOPE, 1843) in external characters but it is clearly separate from the latter in the male by the peculiar shape of the maxillary palpi. In the female it is to distinguish from *H. distincta* by the single-breasted and not explanate lateral bead of elytral border.

Etymology: This remarkable species is dedicated to its discoverer S. Persson from the Zoological Museum Lund, Sweden.

***Hydrobiomorpha zetha* (BALFOUR-BROWNE, 1950)**

Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner. Further distribution: Ghana, Guinea, Ivory Coast, Malawi, Namibia, Nigeria, Senegal, Togo, DR Congo.

****Coelostoma anthracinum* BALFOUR-BROWNE, 1939**

Benin bor.occ. 45 km N of Natitingou, Tandava env., 26.vi.2001, leg. F. & L. Kantner. Further distribution: Gambia, Guinea, Ivory Coast, Senegal, Sierra Leone.

***Coelostoma (s.str.) kantnerorum* sp.n.**

Holotypus (male): "Benin c.or. Sontou, Dept. du Borgou, 55 km NNE of Parakou, 4.vii.2001, leg. F. & L. Kantner.- Paratypes: 1 female (same data as holotype (CFH).

Description: Total length: 4.3-4.5 mm; total width: 2.5-2.8 mm.- Oval, widest between shoulders, strongly convex, shining, without microsculpture; surface black, underside castaneous; mouthparts and tarsi yellow, femora ferrugineous, tibiae piceous.

Punctuation of head, pronotum and elytra rather coarse, very dense, punctural interstices less than punctural diameter, elytra without traces of series at sides. Pronotum strongly narrowed from base to anterior angles, c. 2.5 as wide (basally) as long (medially). Elytra slightly narrowed from base to broadly rounded apex, 1.2 x as long as their combined width (at base), not explanate laterally. Prosternum not dentate anteriorly; mesofemora not pubescent beneath, glabrous, rather coarsely punctate. Metafemora normally flattened, not triangularly enlarged at hind margin. First ventrite not carinate medially; fifth ventrite entire. Aedeagus (length: 1.0 mm, width: 0.57 mm), widest in the middle, basal piece about as long as parameres, the latter strongly narrowed, converging and pointed terminally; median lobe much shorter than parameres, almost parallel-sided, flat (not keeled), with shallow triangular excavation at apex; gonopore basally, rather large, regularly triangular; base of median lobe with low triangular lateral expansions (Fig. 4).

Discussion: This species comes close to the east African *C. jeanneli* MOUCHAMPS. Except for the smaller size it differs from that mainly in the median lobe of aedeagus more robust, not longitudinally keeled and fitted with lateral expansions.

Etymology: This species is named after its finders F. & L. Kantner.

***Coelostoma* spp. (females)**

Benin centr. Bembéréké env., 105 km N of Parakou, 2.vii.2001, leg. F. & L. Kantner; Benin bor.occ. 45 km N of Natitingou, Tandava env., 26.vi.2001, leg. F. & L. Kantner; Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001, leg. F. & L. Kantner.

Note: Females of this genus are not to identify with certainty.

***Spercheus cerisyi* GUÉRIN MENEVILLE, 1842**

Benin bor.or. Kandi env. Saa Dept. du Borgou, 22.vi.2001, leg. F. & L. Kantner; Benin c.occ. Ouari Mare env. 50 km W of Parakou, 1.vii.2001, leg. F. & L. Kantner.

Further distribution: Angola, Botswana, Congo-Brazzaville, Egypt, Ethiopia, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Malawi, Mauritania, Mozambique, Namibia, Niger, Nigeria, Senegal, Sierra Leone, South African Rep., Sudan, Tanzania, Tchad, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

Zambia Mission 2002

Localities:

- a) Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002
- b) Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002
- c) Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002
- d) Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002
- e) Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002
- f) Zambia: 100 km SW of Serenje, Central prov., 8.xii.2002
- g) Zambia bor., 150 km W of Kitwe, 3.xii.2002
- h) Zambia: Centr prov. Ohibombo env. 14.xii.2002

Species list:

***Berosus (Berosus) nigricollis* sp.n.**

Holotypus (male): "Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner" (MNS).- Paratypes: 7 exs.: same data as holotype (MNS, CFH); 1 ex.: "Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner" (MNS); 1 ex. (male): "Congo-Brazzaville, leg. Onore \ P.K. Rouge, 8.III.1979, Plateau des Batékes mares en Savane" (CFH).

Description: Total length: 3.0 - 3.2 mm; total width: 1.2 - 1.5 mm.- Oblong oval: elytra widest in apical third, moderately convex; pale yellow, extendedly blackened as follows: Head entirely black with metallic reflections; pronotal disc with large transverse black patch attaining anterior and posterior margin in the middle; elytra with black shoulder patches and with two large sutural patches, one before and one behind the middle of elytra, one black patch on each side near lateral margin; punctural striae and interstitial punctures black. Underside yellowish brown, abdomen more darkened. Mouthparts yellow, ultimate segment of maxillary palpi blackened in apical half; antennal club obscured. Legs yellow, femora and tibiae obscured in the middle (Fig. 5).

Head coarsely and very densely punctate; punctural distances less than punctural diameter, shining; eyes large, separated by c. 2x eye width. Pronotum almost rectangular, 1.6x as wide as long. Elytra 1.5x as long as their combined width (in posterior third); punctural striae narrow, little impressed, interstriae relatively wide, flat, each covered with 1-2 rows of large setiferous punctures. Mentum smooth and shining, without microsculpture, coarsely punctate. Elevated middle portion of metasternum drop-shaped, rugosely punctate, with a longitudinal furrow in the middle. First visible ventrite entirely keeled medially. Hind margin of 5th visible sternite with wide emargination, latter with triangular median expansion, lateral sides of the emargination slightly directed to midline (Fig.2c). Base of all femora densely pubescent, except terminal fifth.- Aedeagus similar to that of *B. bergrothi* RÉGIMBART and *B. vinsoni* BALFOUR-BROWNE (SCHÖDL 1994), characterized by a club-shaped median lobe and the parameres pen-shaped (Fig. 2a, b).

Discussion: This peculiar species belongs to the *B. nigriceps*-group (sensu SCHÖDL, 1994),

It is not likely to be confused with any other *Berosus* for its pronotum extendedly black. It comes closest to the Malgassic *B. bergrothi* and *B. vinsoni* in the male genitalia.

***Berosus (Enoplurus) cuspidatus* ERICHSON, 1843**

Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002, leg. F. & L. Kantner (MNS); Further distribution: Angola, Botswana, Burundi / Rwanda, Cameroon, Congo-Brazzaville, Egypt, Ethiopia, Gabon. Gambia, Ghana, Guinea, Ivory Coast, Kenya, Mozambique, Namibia, Nigeria, Senegal, Somalia, South African Rep., Sudan, Tanzania, Tchad, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

***Berosus (Enoplurus) crassus* BALFOUR-BROWNE, 1952**

Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS);
Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002, leg. F. & L. Kantner (MNS);
Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);
Further distribution: Benin, Burundi / Rwanda, Congo-Brazzaville, Ghana, Guinea, Kenya, Liberia, Namibia, Nigeria, Sudan, Uganda, Zambia.

****Berosus (Enoplurus) pudens* BALFOUR-BROWNE, 1954**

Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002, leg. F. & L. Kantner (MNS);
Further distribution: South African Rep., Zambia.

****Allocotocerus magnus* HEBAUER, 2002**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: Kenya.- New for Zambia.

***Allocotocerus segrex* (D'ORCHYMONT, 1939)**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: Congo-Brazzaville, Gabon, Kenya, Mozambique, Namibia, South African Rep., Tanzania, Uganda, DR Congo.

***Amphiops globus* ERICHSON, 1843**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS); Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS); Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);
Further distribution: Angola, Benin, Burundi / Rwanda, Cameroon, Congo-Brazzaville, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Namibia, Nigeria, Sierra Leone, South African Rep., Tanzania, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

***Amphiops lasioides* RÉGIMBART, 1903**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: Benin, Congo-Brazzaville, Egypt, Gabon, Gambia, Guinea, Namibia, Senegal, Sierra Leone, South African Rep., Sudan, Tchad, Uganda, DR Congo, Zambia, Zimbabwe, Malgasy area.

****Paracymus incomptus* WOOLDRIDGE 1977**

Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002, leg. F. & L. Kantner (MNS);
Zambia: Centr prov. Ohibombo env. 14.xii.2002, leg. F. & L. Kantner (MNS);
Further distribution: Burundi / Rwanda, Ethiopia, Kenya, Tanzania, Uganda, Zimbabwe.

****Anacaena glabella* D'ORCHYMONT, 1942**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);

***Helochaeres (Hydrobaticus) difficilis* D'ORCHYMONT, 1939**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS); Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS); Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002, leg. F. & L. Kantner (MNS); Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);
Further distribution: Kenya, Sudan, Tanzania, Uganda, DR Congo.

***Helochaeres (Hydrobaticus) livianus* D'ORCHYMONT, 1939**

Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS);
Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS);
Further distribution: Burundi / Rwanda, Tanzania, Uganda, DR Congo.

***Helochaeres (Helochaeres) longipalpis* (MURRAY, 1859)**

Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);

Further distribution: Angola, Benin, Botswana, Burkina Faso, Burundi / Rwanda, Cameroon, Central African Rep., Congo-Brazzaville, Egypt, Ethiopia, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mozambique, Namibia, Nigeria, South African Rep., Sudan, Tanzania, Togo, Tchad, Uganda, DR Congo, Zimbabwe Malgasy area.

***Helochares (Helochares) pallens* (MACLEAY, 1825)**

Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);
Further distribution: Benin, Botswana, Burundi / Rwanda, Cameroon, Ethiopia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mozambique, Namibia, South African Rep., Sudan, Tanzania, Tchad, Uganda, Zaire, Zimbabwe, Malgasy area.

***Chasmogenus patrizii* (BALFOUR-BROWNE, 1948)**

Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);
Further distribution: Cameroon, Kenya, Namibia, Somalia, South African Rep., Sudan, Tanzania, Uganda, Zimbabwe.

***Chasmogenus* spp. (female)**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L. Kantner (MNS); Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS); Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS);
Note: Females of this genus are not to identify with certainty.

***Chasmogenus rhodesiensis* sp.n.**

Holotypus (male): "Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner" (MNS).

Description: Total length: 4.0 mm; total width: 2.0 mm.- Oval, moderately convex; piceous with clypeus and sides of pronotum and elytra ferrugineous; maxillary palpi, antennal whip and tarsi yellow.

Head with moderately coarse and rather dense punctation. Eyes of moderate size, separated by c. 5x eye width. Pronotum widest at base, strongly narrowed anteriorly, twice as wide (basally) as long (medially); posterior angles obtusely rounded, lateral rim very fine; disc rather strongly, very densely punctate; punctural interstices sometimes less than punctural diameter; anterolateral systematic punctures numerous, extended almost to the middle of pronotum. Elytra widest at midlength, c. 1.4x as long as their combined width, rather finely and obsoletely, less densely punctate; three irregular rows of coarser punctures conspicuous, inner row distinct from base to apex; sutural stria abbreviated in basal fourth.- Aedeagus with basal piece much longer than parameres; the latter almost parallel-sided, apically hooked inward, with acute preapical tooth (Fig. 3).

Discussion: This species is next to *C. mauritiensis* BALFOUR-BROWNE, especially for the bifid parameres. It differs from that in the much smaller size, in the smaller eyes and in the shape of the male genitalia; the parameres are much shorter and more parallel-sided than in the compared species (BALFOUR-BROWNE 1958; HEBAUER 1992); the internal lobe of the penis is almost parallel-sided and cut off apically, while this structure is clearly club shaped in *C. mauritiensis*. Females are not to identify with certainty.

***Enochrus (Methydrus) circumductus* (RÉGIMBART, 1905)**

Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS); Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: Botswana, Burundi / Rwanda, Cameroon, Ethiopia, Gabon, Kenya, Namibia, South African Rep., Sudan, Tanzania, Uganda, DR Congo, Zimbabwe, Cape Verde Islands.

***Enochrus (Methydus) ituriensis* HEBAUER, 2001**

Zambia: Copperbelt Prov. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS).

Further distribution: Gabon, Nigeria, Liberia, Uganda, DR Congo.

***Enochrus (Enochrus) natalensis* (GEMMINGER & HAROLD, 1868)**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L. Kantner (MNS);

Further distribution: Angola, Benin, Botswana, Burkina Faso, Burundi / Rwanda, Cameroon, Ethiopia, Gabon, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mali, Namibia, Nigeria, Senegal, Sierra Leone, South African Rep., Sudan, Tanzania, Togo, Uganda, Zaire, Zimbabwe, Malgasy area.

***Enochrus (Methydus) picinus* (RÉGIMBART, 1903)**

Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner" (MNS);

Further distribution: Madagascar, Mauritius, Tanzania.

Annotation: A single male of this Malgassic species confirms repeatedly the expanded distribution to Eastern Africa (HEBAUER, 2003). The specimens of Tanzania and Zambia are of rather small sizes (4.0 - 4.2 mm); they are probably representing a subspecies with more slender shape.

***Sternolophus angolensis* (ERICHSON, 1843)**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L. Kantner (MNS);

Further distribution: Angola, Benin, Burundi / Rwanda, Cameroon, Congo-Brazzaville, Ethiopia, Gabon, Gambia, Ghana, Ivory Coast, Kenya, Liberia, Malawi, Mozambique, Namibia, Sierra Leone, South African Rep., Tanzania, Uganda, DR Congo, Zimbabwe, Malgasy area.

***Hydrobiomorpha wencki* (P. D'OLIVEIRA, 1880)**

Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS);

Further distribution: Angola, Burkina Faso, Burundi / Rwanda, Cameroon, Egypt, Gabon, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Malawi, Namibia, Senegal, South African Rep., Tanzania, Togo, Uganda, DR Congo, Zimbabwe.

***Coelostoma aethiopicum* D'ORCHYMONT, 1936**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L. Kantner (MNS); Zambia:

Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS); Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS);

Further distribution: Ethiopia, Nigeria, South African Rep., DR Congo.

****Coelostoma brownei* MOUCHAMPS, 1958**

Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002, leg. F. & L. Kantner (MNS);

Further distribution: Angola, DR Congo.

****Coelostoma erinna* BALFOUR-BROWNE, 1950**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L. Kantner (MNS); Zambia:

Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS); Zambia:

Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);

Further distribution: Malawi, Mozambique, DR Congo, Zimbabwe.

***Coelostoma neavei* BALFOUR-BROWNE, 1950**

Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS);

Further distribution: Namibia, DR Congo.

***Coelostoma phalacroides* RÉGIMBART, 1903**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L. Kantner (MNS); Zambia: 100

km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS);

Further distribution: Ivory Coast, Namibia, Niger, Senegal, Sierra Leone, Togo, Uganda, Zimbabwe, Malgasy area.

****Coelostoma proximum* MOUCHAMPS, 1958**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: South African Rep., Zimbabwe.

***Coelostoma rufitarse* (BOHEMANN, 1851)**

Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS);
Further distribution: Angola, Botswana, Burundi / Rwanda, Gabon, Gambia, Ghana, Guinea, Kenya, Liberia, Mozambique, Namibia, Sierra Leone, South African Rep., Tanzania, Uganda, DR Congo, Cape Verde Islands, Malgasy area.

****Psalitrus balfouri* BAMEUL, 1991**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: Sudan.

***Cercyon (Arcocercyon) dieganus* RÉGIMBART, 1903**

Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS);
Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS);
Further distribution: Botswana, Burundi / Rwanda, Congo-Brazzaville, Egypt, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Mozambique, Namibia, Niger, Nigeria, Sierra Leone, South African Rep., Tanzania, Uganda, DR Congo, Zimbabwe, Malgasy area.

****Cercyon (Clinocercyon) fulvinasus* RÉGIMBART, 1907**

Zambia: Copperbelt pr. 60 km SE of Kitwe, 13.vii.2002 / 17.vii.2002, leg. F. & L. Kantner (MNS);
Further distribution: Burundi / Rwanda, Cameroon, Ghana.

****Cercyon (Paracycreon) laminatus* SHARP, 1873**

Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS);
Further distribution: Ethiopia, Kenya.

***Cercyon (Arcocercyon) luteus* D'ORCHYMONT, 1942**

Zambia bor. occ. Solwezi env., North Western prov., 2.vii.2002, leg. F. & L. Kantner (MNS);
Zambia: Copperbelt 80 km W of Chingola, 12.vi.2002, leg. F. & L. Kantner (MNS); Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS); Zambia: 100 km SW of Serenje, Central prov., 8.xii.2002, leg. F. & L. Kantner (MNS); Zambia bor., 150 km W of Kitwe, 3.xii.2002, leg. F. & L. Kantner (MNS);
Further distribution: Benin, Botswana, Burundi / Rwanda, Congo-Brazzaville, Mozambique, Namibia, Sierra Leone, South African Rep., Tanzania, Uganda, DR Congo, Zimbabwe.

****Cercyon (Arcocercyon) lutosus* RÉGIMBART, 1907**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: Burundi / Rwanda, Gabon, Kenya.

****Cercyon (Arcocercyon) luxus* D'ORCHYMONT, 1942**

Zambia: 100 km SW of Serenje, Central prov., 7.xii.2002, leg. F. & L. Kantner (MNS); Zambia: 100 km SW of Serenje, Central prov., 8.xii.2002, leg. F. & L. Kantner (MNS);
Further distribution: Kenya, DR Congo.

***Spercheus senegalensis* CASTELNAU, 1832**

Zambia: Copperbelt pr.W of Kapiri Mposhi, 13.vii.2002, leg. F. & L.Kantner (MNS);
Further distribution: Benin, Botswana, Burundi / Rwanda, Cameroon, Congo-Brazzaville, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Malawi, Mozambique, Namibia, Nigeria, Senegal, South African Rep., Sudan, Tanzania, Togo, Tchad, DR Congo, Zimbabwe, Malgasy area.

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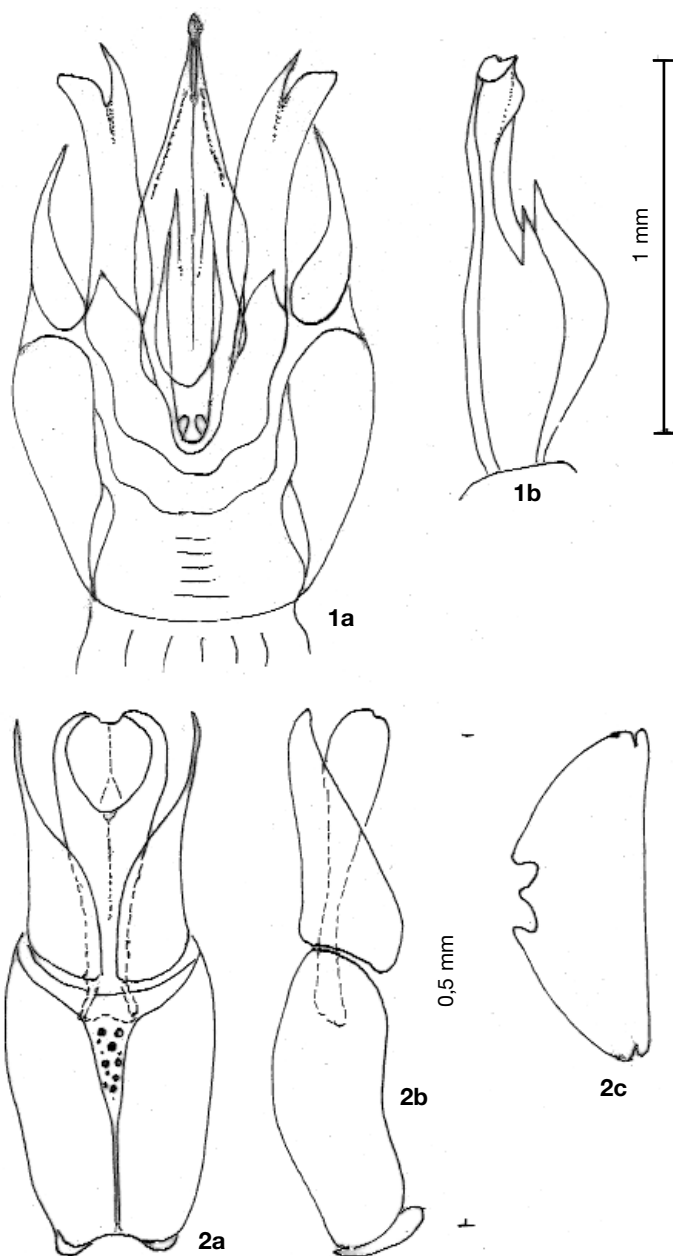


Fig. 1: *Hydrobiomprpha perssoni* sp.n.: aedeagus; **1a)** dorsal aspect, **1b)** penis, lateral aspect.
Fig. 2: *Berosus* (s.str.) *nigricollis* sp.n.; **2a)** aedeagus (dorsal aspect), **2b)** aedeagus (lateral aspect), **2c)** 5th visible sternite.

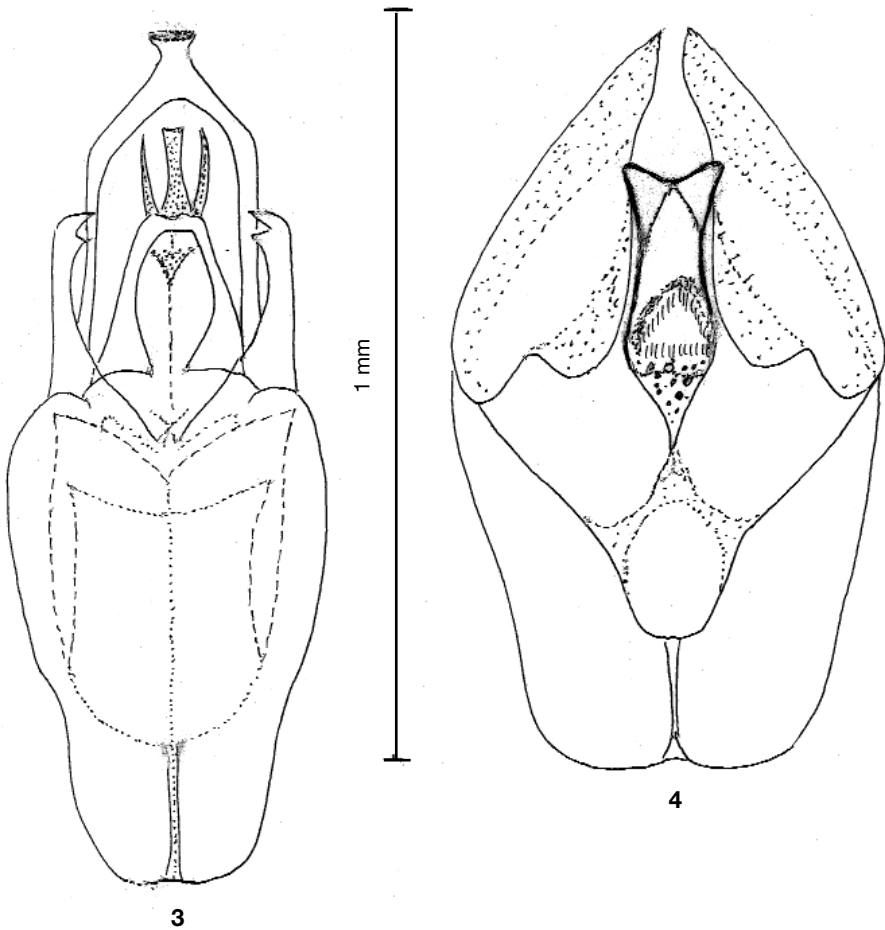


Fig. 3: *Chasmogenus rhodesiensis* sp.n.: aedeagus (ventral aspect).
Fig. 4: *Coelostoma kantnerorum* sp.n.: aedeagus (dorsal aspect).

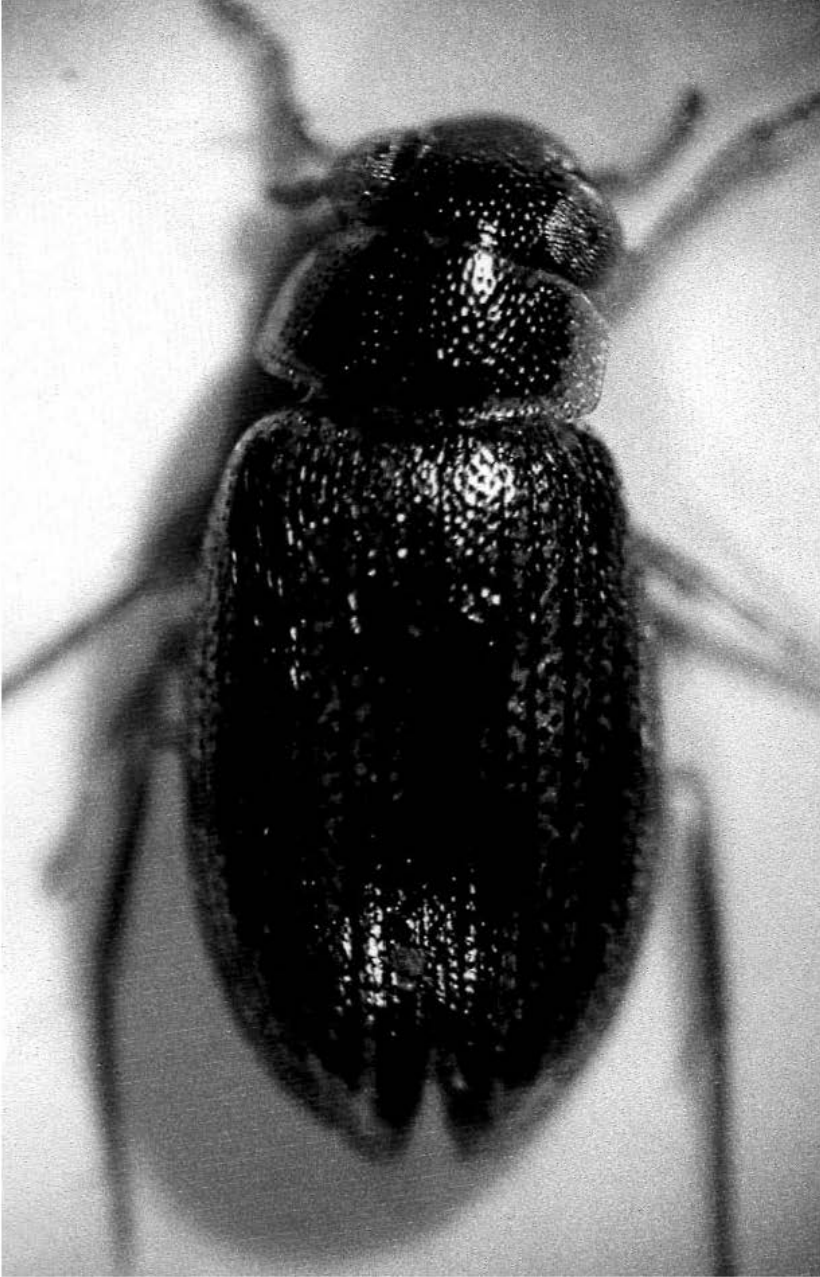


Fig. 5: *Berosus* (s.str.) *nigricollis* sp.n.; Habitus.

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