

## ARTIGO / ARTÍCULO / ARTICLE

*Cryptorhopalum panthera* sp. nov., a new species from French Guiana (Coleoptera: Dermestidae: Megatomini).Andreas Herrmann<sup>1</sup>, Jiří Háva<sup>2</sup> & Marcin Kadej<sup>3</sup><sup>1</sup> Bremervörder Strasse 123, 21682. D - 21682 Stade, Germany. e-mail: herrmann@coleopterologie.de<sup>2</sup> Department of Forest Protection and Entomology, Faculty of Forestry and Wood Sciences, Czech University of Life Sciences, Kamýčká 1176, CZ-165 21, Prague 6 - Suchbát, Czech Republic. e-mail: jh.dermestidae@volny.cz<sup>3</sup> Department of Invertebrate Biology, Evolution and Conservation, Institute of Environmental Biology, Faculty of Biological Science, University of Wrocław, Przybyszewskiego 63/77, PL-51-148 Wrocław, Poland. e-mail: marcin.kadej@uni.wroc.pl

**Abstract:** *Cryptorhopalum panthera* sp. nov. is described, illustrated and compared with other species of the genus occurring in French Guiana. Furthermore a list of all *Cryptorhopalum* species recorded so far from French Guiana is provided.

**Key words:** Coleoptera, Dermestidae, Megatominae, *Cryptorhopalum*, taxonomy, new species, French Guiana.

**Resumen:** *Cryptorhopalum panthera* sp. nov., nueva especie de la Guayana Francesa (Coleoptera: Dermestidae: Megatomini). Se describe e ilustra *Cryptorhopalum panthera* sp. nov., y se compara con otras especies del género presentes en la Guayana Francesa. También se incluye una lista de todas las especies de *Cryptorhopalum* citadas hasta ahora de la Guayana Francesa.

**Palabras clave:** Coleoptera, Dermestidae, Megatominae, *Cryptorhopalum*, taxonomía, nueva especie, Guayana Francesa.

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## Introduction

In April, 2007 the Société Entomologique Antilles-Guyane (S.E.A.G.) was established by a group of entomologist friends to study and get to know the entomological fauna of French Guiana. Since this date, the members have sampled many locations as the Mountain of Horses (current since September, 2008), the Reserve of Nouragues (current since July, 2009), the Mount Itoupé (2<sup>nd</sup> highest summit of French Guiana), Saül (begun in August, 2010), the Reserve Trinité, in particular. The devices of trappings constituted by: window traps, Malaise traps, Polytraps, and traps with fermented fruits are found every week and the sortings of purées of insects are made in the office of the S.E.A.G.

Since all members of the S.E.A.G. are skilled entomologists, many of the specimens could be identified by themselves. Despite of this, the identification of beetles belonging to the family Dermestidae down to species level in a reliable way is quite problematical, so this material was sent to the first author asking for examination. During this examination it turned out that several of the dermestid species sampled were never recorded from this country before, being some of them even new to Science.

The genus *Cryptorhopalum* Guérin-Méneville, 1838 contains 157 valid species and subspecies worldwide (Mroczkowski 1968; Blackwelder 1945; Beal 1985; Háva 2003, 2009; Háva & Herrmann 2013), most of them occurring in Neotropical and Nearctic regions (Kadej & Háva 2013), and four descriptions concerning fossil species (Háva & Prokop 2004).

From French Guiana so far eight species have been recorded (Herrmann & Háva 2011; Háva & Herrmann 2013). In the present paper the authors record and describe another new species of *Cryptorhopalum* which has been detected in that country.

## Material and Methods

The following measurements were made:

- a) total length (TL) - linear distance from anterior margin of pronotum to apex of elytra.
- b) pronotal length (PL) - maximal length measured from anterior margin to posterior margin.
- c) pronotal width (PW) - maximal linear transverse distance.
- d) elytral length (EL) - linear distance from shoulder to apex of elytron.
- e) elytral width (EW) - maximal linear transverse distance.

## Description

Subfamily Megatominae  
Tribe Megatomini  
Genus *Cryptorhopalum* Guérin-Méneville, 1838

*Cryptorhopalum panthera* sp. nov.  
(Figs. 1-3)

**Type material.** Holotype (♀): "Guyane: Commune de Roura, Montage des Chevaux, 4°43N - 52°24'W, FIT leg. S.E.A.G." Paratypes (7 ♀♀) from the same location, but with different collecting dates: 27.06.2010, 12.06.2011, 21.11.2010, 2.01.2011, 1.02.2011, 28.03.2011, 16.01.2011 and 16.01.2011. The Holotype and 6 paratypes deposited in coll. A. Herrmann, 1 paratype in coll. J. Háva. The specimens of the described species are provided with a red, printed label showing the following text: "HOLOTYPUS [PARATYPUS respectively] *Cryptorhopalum panthera* sp. n., A. Herrmann, J. Háva & M. Kadej det. 2014".

### Description.

**Female.** Cuticle of dorsal surface of body dark brown with black spots; small, short oval (Fig. 1). Body measurements (in mm): TL 2.5, PL 0.6, PW 1.4, EL 2.0, EW 1.7. Head dark brown and especially at its lateral sides somewhat blackish towards the underside, coarsely punctate, sparsely covered with long, procumbent ochre hairs. Palpi light brown. Eyes large with extremely short, erected and hardly visible microsetae. Ocellus present on front. Antenna 11-segmented, the whole club as well as the first two segments of the shaft red brown; other segments of shaft yellowish, with sparsely light brown setation. Club densely covered with short pubescence which makes it look dull, as long as the rest of antenna, consisting of two longish oval segments; the last one is slightly shorter than the previous segment (Fig. 2). Pronotum dark reddish brown with four black spots; quite coarsely punctate, covered with suberected, long and ochre hairs, the black spots are covered with black pubescence and stand nearly in a transversal line, two big spots in central part of pronotum and a smaller one located on lateral side near pronotal margin. Pronotal lateral margins smooth, untoothed, not visible from above altogether. Scutellum shiny darkish brown, small and somewhat triangular with a broadly rounded tip, without pubescence and distinct puncture. Elytrae darkish brown with six black spots, covered with long, suberected ochre hairs except the black spots which are covered by black hairs instead, puncture similar to those on pronotum, lateral margins smooth, untoothed; humeri with a slight bump; each elytron has six distinct black spots, an anterior spot at the elytral base on shoulder, two spots in middle and two in apical third (each pair standing in transversal line), the last spot is located near the apical end directly on suture (Fig. 1). Epipleura

not visible from above, darkish. Legs and tarsi light brown, very sparsely covered with a few short light brown hairs. Mesosternum darkish brown to black, covered sparsely with suberected, long and ochre hairs (like in the pronotum). Abdominal sternites I-V brown, coarsely punctate, quite densely covered with recumbent light brown hairs.

**Male.** The male of this species is unknown so far.

**Variation.** All paratypes have roughly the same size as the holotype.

**Differential diagnosis.** The new species belong to the "*Cryptorhopalum quadripunctatum* species group" and looks quite similar to *Cryptorhopalum brulei* Herrmann & Hava, 2011, but differs in the distinct big black spots on the elytra as well as in the punctuation of the head, furthermore the habitus of the whole body appears somewhat broader seen in a direct comparison:

	<i>Cryptorhopalum panthera</i> sp. nov.	<i>Cryptorhopalum brulei</i> Herrmann & Hava, 2011
Black patterns on the elytra	Six distinct big spots	Several indistinct spots, building three transversal blurred fasciae
Punctuation of the head	Dense and very coarse punctuation on the frons	Punctuation on the frons sparsely and less coarse
Habitus of the body	Appears slightly broader	Appears slightly narrower

It differs from all other known *Cryptorhopalum* species in the typical arrangement of the six distinct black spots decorating the ochre elytral pubescence.

**Etymology.** The name regards to the conspicuous black spots on the elytra which resemble feebly the fur of the Jaguar, *Panthera onca*.

#### List of *Cryptorhopalum* recorded from French Guiana

*Cryptorhopalum brulei* Herrmann & Hava, 2011  
*Cryptorhopalum difficile* Reitter, 1881  
*Cryptorhopalum eximium* Arrow, 1915  
*Cryptorhopalum orbiculosum* Reitter, 1881  
*Cryptorhopalum panthera* sp. nov.  
*Cryptorhopalum quadripunctatum* Guérin-Méneville, 1838  
*Cryptorhopalum sexsignatum* Reitter, 1881  
*Cryptorhopalum stachi* Mroczkowski, 1958  
*Cryptorhopalum viridipubens* Pic, 1923

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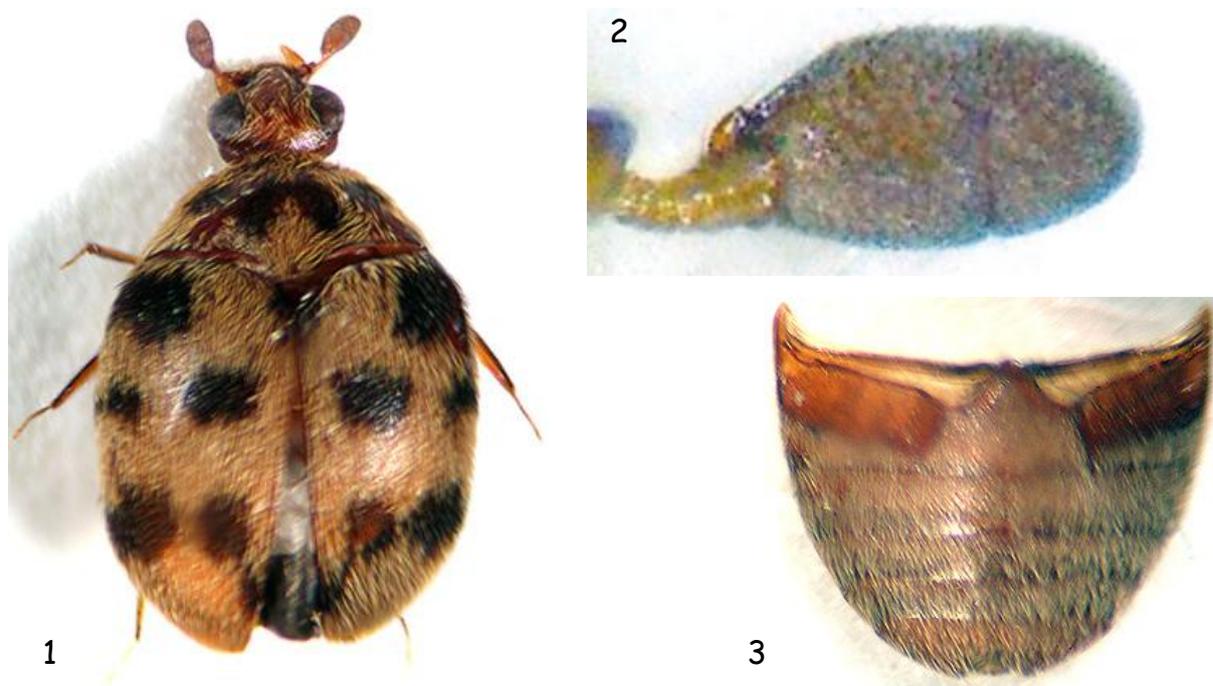
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**Figs. 1-3.-** *Cryptorhopalum panthera* sp. nov. (Holotype, female). 1.- Habitus (dorsal aspect); 2.- Antenna; 3.- Abdominal segments I-V.