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## Contribution to the species of *Cryptorhopalum* (Coleoptera: Dermestidae) described by David Sharp from the Neotropical Region – Part 3

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### Abstract

The genus *Cryptorhopalum* Guérin-Ménéville, 1838 from the Neotropical Region is reviewed. Six species described by Sharp and Reitter are studied, and lectotypes are designated for the following three species: *Cryptorhopalum dubium* Sharp, 1902, *Cryptorhopalum subfasciatum* Sharp, 1902 and *Cryptorhopalum teapense* Sharp, 1902 (all of them from Mexico). A new synonym is proposed: *Cryptorhopalum apicale* (Mannerheim, 1843) (= *Cryptorhopalum subfasciatum* Sharp, 1902 **syn. nov.**).

**Key words:** Taxonomy, lectotype designation, Coleoptera, Dermestidae, *Cryptorhopalum*, Neotropical Region.

### Resumen

**Contribución sobre las especies de *Cryptorhopalum* (Coleoptera: Dermestidae) descritas por David Sharp de la Región Neotropical – 3ª parte**

Se revisa el género *Cryptorhopalum* Guérin-Ménéville, 1838 de la Región Neotropical. Se estudian seis especies descritas por Sharp o Reitter y se designan lectotipos para las siguientes tres especies: *Cryptorhopalum dubium* Sharp, 1902, *Cryptorhopalum subfasciatum* Sharp, 1902 y *Cryptorhopalum teapense* Sharp, 1902 (todas ellas de México). Se propone una nueva sinonimia: *Cryptorhopalum apicale* (Mannerheim, 1843) (= *Cryptorhopalum subfasciatum* Sharp, 1902 **syn. nov.**).

**Palabras clave:** Taxonomía, designación de lectotipos, Coleoptera, Dermestidae, *Cryptorhopalum*, Región Neotropical.

### Laburpena

**David Sharp-ek Eskualde Neotropikaletik deskribaturiko *Cryptorhopalum* generoko espezieei buruzko ekarpena (Coleoptera: Dermestidae) – 3. zatia**

Eskualde Neotropikaleko *Cryptorhopalum* Guérin-Ménéville, 1838 generoa errebisatzen da. Sharp-ek edo Reitter-ek deskribaturiko sei espezie aztertu dira, lektotipoak hautatuz ondoko espezieentzat: *Cryptorhopalum dubium* Sharp, 1902, *Cryptorhopalum subfasciatum* Sharp, 1902 eta *Cryptorhopalum teapense* Sharp, 1902 (denak Mexikokoak). Sinonimia berri bat proposatzen da: *Cryptorhopalum apicale* (Mannerheim, 1843) (= *Cryptorhopalum subfasciatum* Sharp, 1902 **syn. nov.**).

**Gako-hitzak:** Taxonomia, lektotipo-hautaketa, Coleoptera, Dermestidae, *Cryptorhopalum*, Eskualde Neotropikala.

## Introduction

The genus *Cryptorhopalum* Guérin-Méneville, 1838 is distributed in the Nearctic and Neotropical Regions and currently contains 150 species and subspecies (Beal, 1975, 1985; Háva, 2003; Herrmann and Háva, 2011). The present article offers results in continuation of the preceding articles published by the author (Háva, 2007, 2009).

## Material and methods

The lectotypes are designated in order to stabilize the nomenclature in this genus according to Article 74.7.3. of the Code (ICZN, 1999). Specimens of the species designated here are provided with red written labels with the text as follows: «Lectotype [or Paralectotype, respectively], species name Sharp, J. Háva design. 2012».

Abbreviations:

BMNH	British Museum of Natural History, London, United Kingdom.
JHAC	Private Entomological Laboratory & Collection, Únětice u Prahy, Prague-west, Czech Republic.

## Results

### 1. Sharp's species

#### *Cryptorhopalum dubium* Sharp, 1902 (Fig. 1a)

*Cryptorhopalum dubium* Sharp, 1902: 654.

TYPE MATERIAL: 9 syntypes: Lectotype designated here (♂): «Mexico, Salle Coll.» / «Cordova» / «Type» [red circle], (BMNH). Paralectotypes: (5 spec.): the same data as lectotype, (BMNH); (2 spec.): «Cordova, Vera Cruz, Höge», (1 BMNH, 1 JHAC); (1 spec.): «Belize, Blancaneaux», (BMNH).

REMARKS: According to the characters mentioned by Beal (1975, 1985), the species belongs to the *C. triste* species group. The species is similar to *C. instabile* Sharp, 1902 but differs from it by the structure of antennae and male genitalia.

DISTRIBUTION: Species known from Belize and Mexico.

#### *Cryptorhopalum apicale* (Mannerheim, 1843)

*Anthrenus apicalis* Mannerheim, 1843: 258.

SYN.: *Cryptorhopalum subfasciatum* Sharp, 1902: 657 **syn. nov.**  
*Cryptorhopalum coloradense* Casey, 1916: 192.  
*Cryptorhopalum fontinale* Casey, 1916: 194.  
*Cryptorhopalum grisescens* Casey, 1916: 195.  
*Cryptorhopalum tuckeri* Casey, 1916: 192.

TYPE MATERIAL: 2 syntypes of *Cryptorhopalum subfasciatum*: Lectotype designated here (♂): «Mexico, Salle Coll.» / «Guajalajara» / «Type» [red circle], (BMNH). Paralectotype (♀): the same data as holotype (BMNH).

OTHER MATERIAL STUDIED: *Cryptorhopalum subfasciatum*: Mexico, Nuevo Leon, 17 mi W Linares, 27-31.v.1971, on flowers, 1 ♀, (JHAC).

REMARKS: According to the characters mentioned by Beal (1975, 1985), the species belongs to the *C. triste* species group. All the morphological characters of *Cryptorhopalum subfasciatum* are identical with those of *Cryptorhopalum apicale*. *C. subfasciatum* is a junior synonym of *C. apicale*.

DISTRIBUTION: Species known from Western US and Mexico.

#### *Cryptorhopalum teapense* Sharp, 1902 (Fig. 1b)

*Cryptorhopalum teapense* Sharp, 1902: 658.

TYPE MATERIAL: 5 syntypes: Lectotype designated here (♂): «Teapa, Tabasco, March, H.H.S.» / «Type» [red circle], (BMNH). Paralectotypes: (4 spec.): the same data as lectotype, (3 BMNH, 1 JHAC).

REMARKS: According to the characters mentioned by Beal (1975, 1985), the species belongs to the *C. triste* species group. The species is very similar to *C. fusculum* LeConte, 1854 but differs from it by a smaller antennal club. Male terminal antennomere is unusually small, narrower than the penultimate one.

DISTRIBUTION: Species known from Mexico.

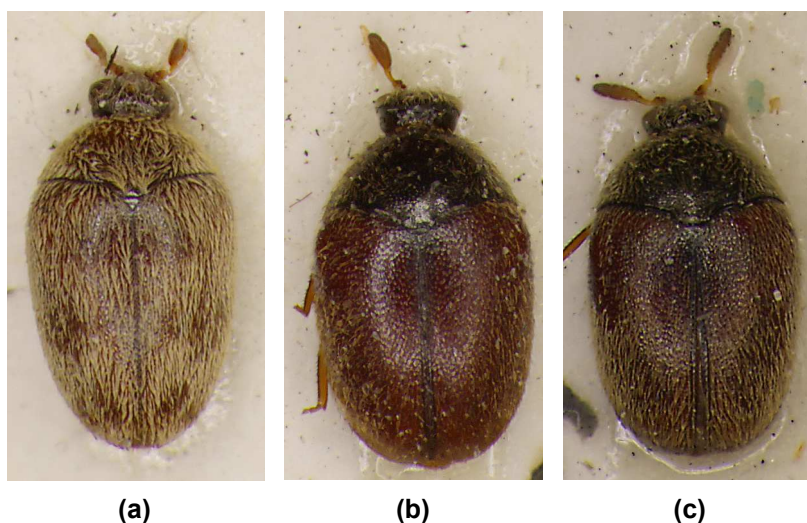
### 2. Other two Reitter's species from Sharp's collection

#### *Cryptorhopalum incanum* Reitter, 1881 (Fig. 1c)

*Cryptorhopalum incanum* Reitter, 1881: 45.

*Cryptorhopalum incanum*: Sharp, 1902: 660 (redescription).

MATERIAL EXAMINED: «Mexico, Tapachula, Chiapas, Höge», 1 ♂, 1 ♀, D. Sharp det., (BMNH).



**FIGURE 1.** Habitus (dorsal aspect) of: (a) *Cryptorhopalum dubium* Sharp, 1902, paralectotype; (b) *Cryptorhopalum teapense* Sharp, 1902, lectotype; (c) *Cryptorhopalum incanum* Reitter, 1881.

REMARKS: Reitter (1881) described the species from Mexico. Sharp (1902) redescribed the species and compared it with *C. teapense* and *C. guatemalenum*. *C. incanum* is visually similar to *C. teapense* and differs from it by the shape of antennae; male antennal club is long and slender, terminal antennomere length is more than half the length of the penultimate one. Type deposit of *C. incanum* is unknown, the male specimen from the Sharp's collection could be stated as neotype specimen. According to the characters mentioned by Beal (1975, 1985), the species belongs to the *C. triste* species group.

DISTRIBUTION: Species known from Mexico.

#### ***Cryptorhopalum rufipes* Reitter, 1881**

*Cryptorhopalum rufipes* Reitter, 1881: 44.

*Cryptorhopalum rufipes*: Sharp, 1902: 660 (redescription).

MATERIAL EXAMINED: «Mexico, Puebla, Salle Coll.», 4 spec., (3 BMNH, 1 JHAC); «Mexico, Cordova, Salle Coll.», 1 spec., (BMNH).

REMARKS: According to the characters mentioned by Beal (1975, 1985), the species belongs to the *C. triste* species group. Reitter (1881) described the species from Mexico and Sharp (1902) redescribed it. Type deposit of *C. rufipes* is unknown; the male specimen

from Sharp's collection could be stated as neotype specimen.

DISTRIBUTION: Species known from Mexico.

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### **References**

- BEAL RS. 1975. Description of adult and larval stages of a new species of *Cryptorhopalum* from Arizona and Mexico (Coleoptera: Dermestidae). *Proceedings of the Entomological Society of Washington* **77**: 228-233.
- BEAL RS. 1985. A taxonomic revision of the Nearctic species of *Cryptorhopalum* (Dermestidae: Coleoptera). *Transactions of the American Entomological Society* **111**: 171-221.

- CASEY TL. 1916. Some random studies among the Clavicornia. Dermestidae. *Memoirs on the Coleoptera*. VII. New Era Printing Co., PA. Lancaster.
- HÁVA J. 2003. *World Catalogue of the Dermestidae (Coleoptera)*. Studie a Zprávy Oblastního Muzea Praha-východ v Brandýse nad Labem a Staré Boleslavi, Supplementum 1: 1-196.
- HÁVA J. 2007. Contribution to the species of *Cryptorhopalum* (Coleoptera: Dermestidae) described by David Sharp from the Neotropical region – Part 1. *Entomological Problems* **37**: 83-86.
- HÁVA J. 2009. Contribution to the species of *Cryptorhopalum* (Coleoptera: Dermestidae) described by David Sharp from the Neotropical region – Part 2. *Baltic Journal of Coleopterology* **9**: 129-133.
- HERRMANN A, HÁVA J. 2011. Contribution to the genus *Cryptorhopalum* Guérin-Méneville, 1838 (Coleoptera: Dermestidae: Megatomini) from French Guyana. *Studies and Reports, Taxonomical Series* **7**: 145-150.
- ICZN (INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE). 1999. *International Code of Zoological Nomenclature, Fourth Edition, adopted by the International Union of Biological Sciences*. International Trust for Zoological Nomenclature. London.
- MANNERHEIM CG. 1843. Beitrag zur Kaefer-Fauna der Aleutischen Inseln, der Insel Sitkha und Neu-Californiens. *Bulletin de la Société Impériale des Naturalistes* **16**: 175-314.
- REITTER E. 1881. Die aussereuropäischen Dermestiden meiner Sammlung, Mit 70 Diagnosen neuer Arten. *Verhandlungen Naturforschenden Vereines Briinn* **19**[1880]: 27-60.
- SHARP DS. 1902. Dermestidae (pp: 642-669). In: Godman F, Salvin O. (Eds.). *Biologia Centrali-Americana. Insecta. Coleoptera. Vol. II. Part. 1*. Dulau and Co. London.

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