Studies and Reports
Taxonomical Series 18(1): 73-76, 2022

# A new species of Dermestidae (Coleoptera) from Guatemala

Jiří HÁVA[1] & José Francisco GARCÍA-OCHAETA[2]

[1]Forestry and Game Management Research Institute,
Strnady 136, CZ-156 00 Praha 5 - Zbraslav, Czech Republic
e-mail: jh.dermestidae@volny.cz
[2]Laboratorio de Diagnóstico Fitosanitario,
Ministerio de Agricultura Ganadería y Alimentación
Petén, Guatemala
e-mail: jfranciscogarciaochaeta@gmail.com

**Taxonomy, new species, description, Coleoptera, Dermestidae, *Cryptorhopalum*, Guatemala**

**Abstract.** *Cryptorhopalum monzoni* sp. nov. from Guatemala is described, illustrated and compared with a similar species, *Cryptorhopalum prenai* Herrmann & Háva, 2013.

## INTRODUCTION

The dermestid genus *Cryptorhopalum* Guérin-Méneville, 1838 including 167 species distributed in Nearctic and Neotropical Regions. From Guatemala 15 species have been still recorded (Háva 2015, 2021, 2022). A new recently collected species belonging to the "triste species group" is described below.

## MATERIAL AND METHODS

Type described species are deposited at Universidad del Valle de Guatemala Collection of Arthropods (UVGC).

The specimens were photographed with a Motic SMZ-161 stereomicroscope. Species are arranged in alphabetical order. The nomenclature follow the catalogue of Háva (2015a) and mitogenomic study (Motyka et al. 2021).

The following abbreviations of measurements were used:
total length (TL) - linear distance from anterior margin of pronotum to apex of elytra.
elytral width (EW) - maximum linear transverse distance.

The holotype and paratype specimens was labelled, with a red printed label (holotype) and yellow printed label (paratype) bearing the text as follows: "HOLOTYPE" or "PARATYPE" *Cryptorhopalum monzoni* sp. nov. Háva & García-Ochaeta det. 2021.

## DESCRIPTION

### *Cryptorhopalum monzoni* sp. nov.
(Figs. 1-5)

**Type material.** Holotype (♂): Guatemala, Chimaltenango, Patzún, 14°39´42.379´´N 90°58´30.496´´W, vi.2019, Col. José Francisco García Ochaeta, (UVGC). Paratype (1 ♂): same data as holotype (UVGC); (2 ♂♂, 1 ♀): same data, but Nov. 2021 (UVGC).

**Description of male.** Male measurements (in mm): TL 2.12-2.33, EW 1.16-1.31. Dorsal integument black, setation decumbent, golden-yellow (Fig. 1). Ventral integument black, setation decumbent, golden-yellow (Fig. 2). Head shiny black and finely punctated, covered with several golden-yellow decumbent setation. Palpi light brown. Median frontal ocellus present. Eyes large with hardly visible short microsetae. Antennae light brown, with yellow setation, consisting of 11 antennomeres, antennal club with 2 antennomeres (Fig. 3). Pronotum with black integument and long golden-yellow setation. Elytra much more densely and finely punctated as the pronotum, with black integument and also short golden-yellow decumbent setation. Scutellum black, small, triangular and without punctation and setation. Epipleuron short, black with some yellow decumbent setation. Metasternum finely punctate with golden-yellow decumbent setation. Abdominal visible ventrites black, densely and coarsely punctated, with golden-yellow decumbent setation (Fig. 4). Legs: tarsi brown, tibiae brown, femora dark brown, sparsely covered with very short and fine decumbent golden-yellow setae. Male genitalia transverse section of bridge joining the parameters narrower, parameres broad with long setation (Fig. 5).

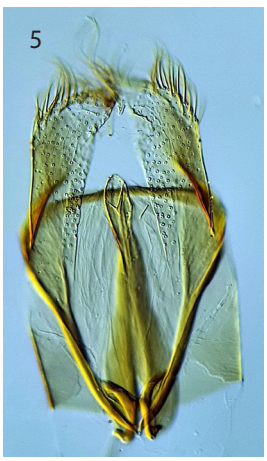
**Female.** Unknown.

**Differential diagnosis.** The new species belongs to the "*triste* species group", from Guatemala known to comprise two species: *C. guatemalenum* Sharp, 1902 and *C. instabile* Sharp, 1902; the new species differs from them by the elongate body form, structure of antennae and male genitalia. The new species resembles very much the species *Cryptorhopalum prenai* Herrmann & Háva, 2013 (Costa Rica, Panama), but differs from it by the structure of antennae and male genitalia.

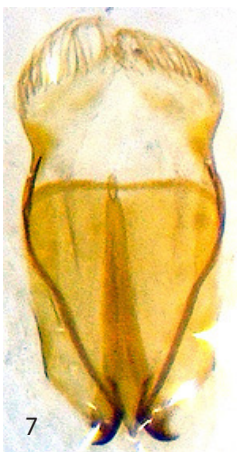
**Etymology.** We are very proud to name this species after José Monzón Sierra, an entomologist at the Universidad del Valle de Guatemala.












Figs. 1-6. *Cryptorhopalum monzoni* sp. nov.: 1- habitus dorsal aspect; 2- habitus ventral aspect; 3- antenna; 4- male genitalia; 5- abdomen; *C. prenai* Herrmann & Háva, 2013: 6- antenna; 7- male genitalia.

## LIST OF *CRYPTORHOPALUM* SPECIES RECORDED FROM GUATEMALA

*C. equisolae* Sharp, 1902
*C. ducale* Sharp,1902
*C. flammulatum* Sharp, 1902
*C. germanum* Sharp, 1902
*C. guatemalenum* Sharp, 1902
*C. instabile* Sharp, 1902
*C. misellum* Sharp, 1902
*C. monzoni* Háva & García-Ochaeta sp. nov.
*C. mordelloide* Sharp, 1902
*C. mroczkowskii* Háva, 2014
*C. muenchmeyeri* Háva, 2022
*C. ochraceum* Sharp, 1902
*C. pedestre* Sharp, 1902
*C. quadripunctatum* Guérin-Méneville, 1838
*C. subtile* Sharp, 1902
*C. vestitum* Sharp, 1902

ACKNOWLEDGEMENTS. We are very grateful to José Monzón Sierra for the revision of the manuscript. The paper was supported by the Ministry of Agriculture of the Czech Republic, institutional support MZE-RO0118.

## REFERENCES

Háva J. 2015. *World Catalogue of Insects. Volume 13. Dermestidae (Coleoptera).* Leiden/Boston: Brill, xxvi + 419 pp.

Háva J. 2021. Dermestidae World (Coleoptera). - World Wide Web electronic publication (open in 2004): http://www.dermestidae.wz.cz (update January 2021)

Háva J. 2022: A new *Cryptorhopalum* species and notes on Dermestidae (Coleoptera) from Guatemala. *Munis Entomology & Zoology* 17(1): ???-???

Herrmann A. & Háva J. 2013a: A new species of the genus Cryptorhopalum (Coleoptera: Dermestidae: Megatominae) from Costa Rica. *Entomologische Zeitschrift,* Stuttgart 123: 91-92.

Motyka M., Kusý D., Háva J., Jahodářová E., Bílkova R., Vogler A. P. & Bocak L. 2021: Mitogenomic data elucidate the phylogeny and evolution of life strategies of Dermestidae (Coleoptera). *Systematic Entomology*: *Published Online: 16 Sept 2021,* DOI: 10.1111/syen.12520

*Received: 16.10.2021*
*Accepted: 20.11.2021*
*Printed: 31.3.2022*