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A NEW SPECIES OF THE GENUS *CRYPTORHOPALUM* GUÉRIN-MÉNEVILLE, 1838 FROM FLORIDA, U.S.A. (COLEOPTERA: DERMESTIDAE: MEGATOMINAE: MEGATOMINI: CRYPTORHOPALINA)

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[Herrmann, A. & Háva, J. 2025. A new species of the genus *Cryptorhopalum* Guérin-Méneville, 1838 from Florida, U.S.A. (Coleoptera: Dermestidae: Megatominae: Megatomini: Cryptorhopalina). Munis Entomology & Zoology, 20 (supplement): 4152-4157]

ABSTRACT: A new species from the beetle family Dermestidae, *Cryptorhopalum hollowayi* sp. nov., has been found in Florida, U.S.A. It is described and illustrated here, along with a list of all species of the genus that have been reported from this US state to date. The following species are newly recorded: *Cryptorhopalum fuscum* LeConte, 1854 (West Virginia); *Cryptorhopalum rubidum* Beal, 1979 (Texas).

KEY WORDS: Taxonomy, new species, faunistic, new records, Coleoptera, Dermestidae, Megatominae, *Cryptorhopalum*, U.S.A, Nearctic Region

The genus *Cryptorhopalum* Guérin-Méneville, 1838 is widespread in the Neotropical and Nearctic regions. Including fossil evidence, there are currently just under 200 different species belonging to this genus; about 50 of them are recorded from North America, whereas only 5 occur in Florida (Háva & Herrmann, 2021). Over the past two decades, the two authors have published several new *Cryptorhopalum* species (Háva & Prokop, 2004; Háva, 2007, 2009, 2011, 2012a,b, 2013, 2014, 2015a,b, 2016, 2017, 2018, 2021, 2022, 2023, 2024; Herrmann & Háva, 2011, 2013, 2018; Herrmann, Háva & Kadej, 2014, 2016, 2017; Kadej & Háva, 2013; Háva, Herrmann & Kadej, 2015; Poinar & Háva, 2015; Háva & Turienzo, 2019; Háva & Hodeček, 2023, 2025). Herein, we describe a next new species from this genus, currently only found in Florida.

MATERIAL AND METHODS

The specimens were stored for 7 days in a solution of 1% pepsin in hydrochloric acid to free them roughly from protein tissues and making the extremities of the body moveable. The abdomen was disconnected from the body and glued upside-down onto the same cardboard plate, just behind the beetle. Before doing this the genitalia was excluded and then cleaned with a fine needle in a drop of 99% glycerol. Afterwards it was also glued onto the plate behind the beetle, firmly embedded in a drop of a solution consisting of polyvinylpyrrolidone, aqua demineralisata and diglycerin (the liquid solution becomes permanently

solid after a few minutes). Photos of the body and the abdomen were taken with a digital SLR camera Sony alpha 35, connected with an objective Nikon CF N Plan Achromat 4x 160/- and extension rings; for the photos of the genitalia and antenna a Bresser Junior USB-Handmikroskop at 200x magnification was used. Because of the low depth of field all photos were taken as layered images, afterwards combined on a PC by using the stacking program CombineZP. Nomenclature and systematics in this paper follow Háva (2025).

The materials are deposited in the following collections:

AHEC Andreas Herrmann, private collection, Stade, Germany;

JHAC Jiří Háva, Private Entomological Laboratory & Collection, Únětice u Prahy, Prague-West, Czech Republic.

The following measurements were made:

Total length (TL) - linear distance from anterior margin of pronotum to apex of elytra.

Pronotal length (PL) - maximal length measured from anterior margin to posterior margin.

Pronotal width (PW) - maximal linear transverse distance.

Elytral length (EL) - linear distance from shoulder to apex of elytron.

Elytral width (EW) - maximal linear transverse distance.

The specimens of the species described here are provided with a red, printed label with text as follows: "HOLOTYPE [respectively PARATYPE], *Cryptorhopalum hollowayi* sp. nov., A. Herrmann & J. Háva det. 2025".

TAXONOMY

Cryptorhopalum hollowayi sp. nov.

(Figs. 1-5)

Type material. Holotype (♂): Sarasota County, Florida Bee Island/Myakka River State Park, 27°15.118'N, 82°15.089'W, 11-26 Feb. 2002 leg. Foltz, JL. by a turp/etoh funnel trap, (AHEC). Paratypes: (1 ♂, 1 ♀): with the same record data as the holotype, (AHEC); (1 ♂): Liberty County, Florida Torreya State Park 2 April 2005, leg. Leavengood, J. M. & Nearn, E., (AHEC); (3 ♂♂): Saufley Hgts., 8-10 mi. N.E. of Pensacola, FLA, III.1945, sweeping, (JHAC).

Remark. The holotype is missing the left hind leg, and a female paratype is broken.

Description. Male body measurements of the holotype (mm): TL 3.0, PL 0.8, PW 1.5, EL 2.2, EW 1.6; colour of the body entirely black, longish oval, head coarse and dense punctate, dull, with a few bright setae. Eyes large with hardly visible microsetae. Ocellus distinctly present on frons. Pronotum roughly two times broader than long, narrowed from the apical to the anterior edges, lateral margins untoothed and not visible from above, punctuation on the disk finer and more sparse than on the head, covered towards the hind edges and lateral margins with sparse decumbent bright setae. Scutellum small, triangular, glabrous, with some punctuation at the anterior margin. Elytra very dense and much more coarsely punctate than the pronotum, covered sparsely with short

suberect dark setae towards the margins a few bright setae intermixed (Fig. 1). The antennae consist of 11 antennomeres; entirely black with a long cylindrical club consisting of two large segments, combined they reach roughly the length of the shaft (Fig. 2). Sternites I-V darkish brown to black, with similar punctuation and pubescence as the elytra (Fig. 3). Legs thin and darkish, with a single row of erect black setae at their lateral edges, tarsi almost as long as the tibiae. Aedeagus as in figures 4 and 5.

Female. Habitually similar to male, but with a much smaller antenna club.

Variation. Body size: TL 2.7-3.0 mm.

Differential diagnosis. The genitalia of *Cryptorhopalum hollowayi* sp. nov. resembles somewhat the genitalia of *Cryptorhopalum ruficorne* LeConte, 1854 (see Figs. 6-7), but that species has reddish antennae and a broader pronotum. From all other species belonging to the genus, *Cryptorhopalum hollowayi* sp. nov. differs particularly in the conspicuous form of its genitalia.

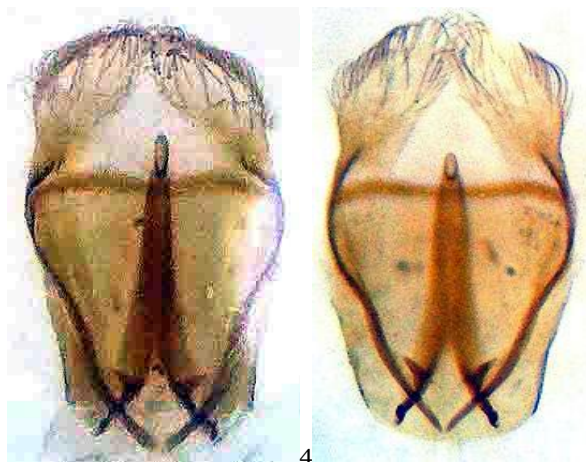
Etymology. The species name was chosen in honour of the English entomologist Graham Holloway, a specialist in the beetle family Dermestidae.

Distribution. So far only known from Florida, U.S.A.

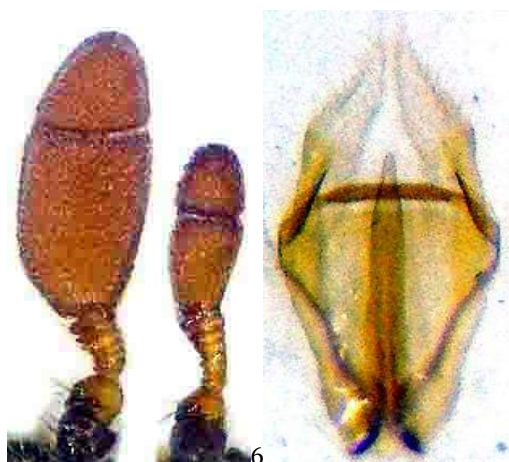
LIST OF ALL *CRYPTORHOPALUM* SPECIES KNOWN FROM FLORIDA

Cryptorhopalum floridanum Casey, 1916
Cryptorhopalum focale Beal, 1985
Cryptorhopalum hollowayi sp. nov.
Cryptorhopalum ruficorne LeConte, 1854
Cryptorhopalum schneppi Hava, 2021
Cryptorhopalum triste LeConte, 1854





Figures 1-5. *Cryptorhopalum hollowayi* sp. nov.: 1- habitus, dorsal aspect; 2- antennae (left ♂, right ♀); 3- abdomen; 4- genitalia (holotype); 5- genitalia (paratype).



Figures 6-7. *Cryptorhopalum ruficorne* LeConte, 1854: 6- antennae (left ♂, right ♀); 7- genitalia.

NEW RECORDS

Cryptorhopalum fusculum LeConte, 1854

Material examined: USA, WV, Preston Co., Bruceton Mills, 11-18. July 1994, W. L. Drosselmeyer, Lindgren funnel trap, 1 ♂, J. Háva det., (JHAC); USA, WV, Upshur Co., Buckhannon, 21 May to 4 June 1999, D.Hacken, Lindgreen funnel trap, 1 ♂, J. Háva det., (JHAC).

Distribution. Distribution in U.S.A. published by Háva & Herrmann (2021), new to West Virginia.

Cryptorhopalum rubidum Beal, 1979

Material examined: USA, TEX, Big Bend Nat. Pk., Green Gulch, 5300', 14 May 1959, Howden & Becker, 1 ♀, J. Háva det., (JHAC).

Distribution. Distribution in U.S.A. published by Háva & Herrmann (2021), new to Texas.

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LITERATURE CITED

- 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.
- Háva, J. 2011. A contribution to knowledge of the Dermestidae (Coleoptera) from the Bahamas with descriptions of two new species from Great Inagua Island. Calodema, 188: 1-7.
- Háva, J. 2012a. A new *Cryptorhopalum* species (Coleoptera: Dermestidae: Megatominae) from Andros Island, the Bahamas. Calodema, 216: 1-4.
- Háva, J. 2012b. Contribution to the species of *Cryptorhopalum* (Coleoptera: Dermestidae) described by David Sharp from the Neotropical Region - Part 3. Heteropteris Revista de Entomología, 12 (2): 209-212.
- Háva, J. 2013. *Cryptorhopalum quadripunctatum* Guérin-Ménéville, 1838 (Coleoptera: Dermestidae: Megatominae), a new species and genus for Suriname. Calodema, 255: 1-3.
- Háva, J. 2014. A new *Cryptorhopalum* species from Guatemala (Coleoptera: Dermestidae: Megatomini). Studies and Reports, Taxonomical Series, 10 (1): 85-88.
- Háva, J. 2015a. *Cryptorhopalum sharpi* sp. nov., a new species from Ecuador (Coleoptera: Dermestidae: Megatominae). Arquivos Entomológicos, 13: 213-214.
- Háva, J. 2015b. Contribution to the knowledge of *Cryptorhopalum equisoliae* species group, with description of *Cryptorhopalum occultum* sp. nov. from Argentina (Coleoptera: Dermestidae: Megatominae). Arquivos Entomológicos, 13: 257-260.
- Háva, J. 2016. Two new species of Dermestidae (Coleoptera) from Bolivia and Venezuela. Arquivos Entomológicos, 15: 21-24.
- Háva, J. 2017. Contribution to the knowledge of Dermestidae (Coleoptera) deposited in Naturhistorisches Museum Wien, with descriptions of three new species. Studies and Reports, Taxonomical Series, 13 (2): 287-297.
- Háva, J. 2018. Contribution to the knowledge of Dermestidae (Coleoptera) deposited in Museum National d'Histoire Naturelle, Paris, France. Studies and Reports, Taxonomical Series, 14 (1): 31-68.
- Háva, J. 2021. *Cryptorhopalum schneppi* sp. nov., a new species from Florida (Coleoptera: Dermestidae: Megatominae). Linzer Biologische Beiträge, 53 (1): 497-501.
- Háva, J. 2022. A new *Cryptorhopalum* species and notes on Dermestidae (Coleoptera) from Guatemala. Munis Entomology & Zoology, 17 (1): 386-389.
- Háva, J. 2023. A new *Cryptorhopalum* species from French Guiana (Coleoptera: Dermestidae: Megatominae). Folia Heyrovskyana, Series A, 31 (2): 1-3.
- Háva, J. 2024. A new *Cryptorhopalum* species from Trinidad and Tobago (Coleoptera: Dermestidae: Megatominae). Munis Entomology & Zoology, 19 (2): 668-670.
- Háva, J. 2025. World Catalogue of the Dermestidae (Coleoptera). Ůnětice/Praha: Private Entomological Laboratory and Collection, 368 pp.
- Háva, J. & Herrmann, A. 2021. Checklist of Dermestidae (Insecta: Coleoptera: Bostrichoidea) of the United States. Insecta Mundi, 0871: 1-16.
- Háva, J., Herrmann, A. & Kadej, M. 2015. *Cryptorhopalum calvum* sp. nov., a new species from the Neotropical Region (Coleoptera: Dermestidae: Megatominae). Arquivos Entomológicos, 13: 313-316.
- Háva, J. & Hodeček, J. 2023. A new *Cryptorhopalum* species from Dominican Republic (Coleoptera: Dermestidae: Megatominae). Faunitaxys, 11 (48): 1-3.
- Háva, J. & Hodeček, J. 2025. Two additional new species of *Cryptorhopalum* (Coleoptera: Dermestidae: Megatominae) from the Dominican Republic. Faunitaxys, 13 (6): 1-5.
- Háva, J. & Prokop, J. 2004. New fossil dermestid-beetles (Coleoptera: Dermestidae) from the Dominican amber, with an appendix listing known fossil species of this family. Acta Societatis Zoologicae Bohemicae, 68: 173-182.

- Háva, J. & Turienzo, P.** 2019. Two new Dermestidae (Coleoptera) species from Argentina. *Folia Heyrovskyana, Series A*, 27 (1): 19-25.
- 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.
- Herrmann, A. & Háva, J.** 2013. A new species of the genus *Cryptorhopalum* (Coleoptera: Dermestidae: Megatominae) from Costa Rica. *Entomologische Zeitschrift, Stuttgart*, 123: 91-92.
- Herrmann, A. & Háva, J.** 2018. A new species of the genus *Hemirhopalum* Sharp, 1902 (Coleoptera: Dermestidae) from Paraguay. *Studies and Reports, Taxonomical Series*, 14 (2): 265-267.
- Herrmann, A., Háva, J. & Kadej, M.** 2014. *Cryptorhopalum panthera* sp. nov., a new species from French Guiana (Coleoptera: Dermestidae: Megatomini). *Arquivos Entomológicos*, 10: 189-192.
- Herrmann, A., Háva, J. & Kadej, M.** 2016. *Cryptorhopalum rubromaculatum* sp. nov., a new species from French Guyana (Coleoptera: Dermestidae: Megatomini). *Studies and Reports, Taxonomical Series*, 12 (1): 83-87.
- Herrmann, A., Háva, J. & Kadej, M.** 2017. Description of two new species of the genus *Cryptorhopalum* from French Guiana (Coleoptera: Dermestidae: Megatomini). *Studies and Reports, Taxonomical Series*, 13 (2): 309-314.
- Kadej, M. & Háva, J.** 2013. Key to species of the genus *Cryptorhopalum* (Coleoptera: Dermestidae) occurring in the Greater Antilles with description of six new species from Hispaniola. *Zoological Studies*, 52 (5): 1-15.
- Poinar, G. & Háva, J.** 2015. New Dermestidae (Coleoptera) from Dominican Amber. *Palaeodiversity*, 8: 1-11.