

Contribution to the species of *Cryptorhopalum* (Coleoptera: Dermestidae) described by David Sharp from the Neotropical region - Part 2.

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The genus *Cryptorhopalum* Guérin-Méneville, 1838 from the Neotropical region is reviewed. The 12 species described by Sharp are studied, and lectotypes designated for 10 species. New faunistic records are presented for: *Cryptorhopalum discedens* Sharp, 1902 (Mexico: Tamaulipas); *Cryptorhopalum germanum* Sharp, 1902 (Mexico: Oaxaca); *Cryptorhopalum gravidum* Sharp, 1902 (Mexico: Puebla); *Cryptorhopalum ventanense* Sharp, 1902 (Mexico: Vera Cruz); *Cryptorhopalum vicinum* Sharp, 1902 (Mexico: México). A new synonym are proposed: *Cryptorhopalum germanum* Sharp, 1902 (= *Cryptorhopalum argutum* Sharp, 1902 **n. syn.**).

Key words: Taxonomy, faunistics, new synonymy, lectotype designation, Coleoptera, Dermestidae, *Cryptorhopalum*, Neotropical region.

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INTRODUCTION

The genus *Cryptorhopalum* Guérin-Méneville, 1838 is distributed in the Nearctic and Neotropical regions and presently contains 150 species and subspecies (Beal 1985, Háva 2003, 2009). The present article is follows of the preceeding article published by author (Háva 2007).

a red written label with text as follows: „Lectotype [or Paralectotype, respectively], *species name* Sharp, J. Háva design. [year]”.

Abbreviations: BMNH - British Museum Natural History, London, UK; JHAC - author's collection; MZLU - Museum of Zoology, Lund University, Lund, Sweden.

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 here designated are provided with

LIST OF TAXA

1. *Cryptorhopalum robustum* Sharp, 1902

Cryptorhopalum robustum Sharp, 1902: 660.

Type material. 3 Syntypes: Lectotype here designated (female): „Jalapa, [Vera Cruz], Mexico, Hoegge“ \ „Type“ [red circle], (BMNH). Paralectotypes (2 females): the same data as lectotype, (BMNH).

Additional material. „Mexico, Vera Cruz, \Tolome, 4.vii.[19]41“, 1 male, (JHAC).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species is described from Mexico: Vera Cruz.

2. *Cryptorhopalum ventanense* Sharp, 1902

Cryptorhopalum ventanense Sharp, 1902: 661.

Type material. 3 Syntypes: Lectotype here designated (male): „Ventanas, Durango, Höge“ \ „Type“ [red circle], (BMNH). Paralectotypes (1 male, 1 female): the same data as lectotype, (BMNH).

Additional material. Mexico, Rinconada, Ver. [Vera Cruz], ca. 2000 ft. Alt., 29.vi.[19]41, 1 male, (JHAC).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species is described from Mexico: Durango, new for Vera Cruz.

3. *Cryptorhopalum gravidum* Sharp, 1902

Cryptorhopalum gravidum Sharp, 1902: 661.

Type material. 4 Syntypes: Lectotype here designated (male): „Chilpancingo, Guerrero, 4600 ft, June, H. H. Smith“ \ „Type“ [red circle], (BMNH). Paralectotypes: (2 males): „Chilpancingo, Guerrero“; (1 male): „Cuernavaca, Morelos, Höge“, all in (BMNH).

Additional material. Mexico, Puebla, 10 km S Petlalcingo, 5.vii.1992, 1800 m, H. Mühle lgt., 1 male, 1 female, (JHAC); Mexico, Puebla, 10 km NW Petlalcingo, 5-7.vii.1992, H. Mühle lgt., 5 spec., (JHAC); Mexico, Puebla, Acatlan, 4.vii.1992, H. Mühle lgt., 1 spec., (JHAC); Mexico, Morelos, 15 km E Cuernavaca, Canon de Lobos, 3.vii.1992, H. Mühle lgt., 2 males, (JHAC); the same but, 1300 m, S. Bily lgt., 4 spec., (JHAC).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species is described from Mexico: Guerrero and Morelos, new for Puebla.

4. *Cryptorhopalum discedens* Sharp, 1902

Cryptorhopalum discedens Sharp, 1902: 666.

Type material. Holotype (male): „Teapa, Tabasco, March, H. H. S.“ \ „Type“ [red circle], (BMNH).

Additional material. Mexico, Tamps [Tamaulipas], 300 m, Gomez Farías, 6.vi.-7.viii.1983, S. & J. Peck lgt. \ flight intercept trap, 1 male, (JHAC).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species is described from Mexico: Tabasco, new for Tamaulipas.

5. *Cryptorhopalum funestum* Sharp, 1902

Cryptorhopalum funestum Sharp, 1902: 661.

Type material. 3 Syntypes: Lectotype here designated (male): „Chilpancingo, Guerrero, 4600 ft, June, H. H. Smith“ \ „Type“ [red circle], (BMNH). Paralectotypes: (1 male): the same data; (1 male): „Ventanas [Jalisco], Mex., 2000 ft., Forrer“; (1 male): „Acapulco, Guerrero, Höge“, all in (BMNH).

Additional material. Mexico, Jalisco, Acatlan, 27.vii.[19]41, 1 male, (JHAC).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species is described from Mexico: Guerrero and Jalisco.

6. *Cryptorhopalum germanum* Sharp, 1902

Cryptorhopalum germanum Sharp, 1902: 655.
Cryptorhopalum argutum Sharp, 1902: 656 n. syn.

Cryptorhopalum argutum var. *cordovanum* Sharp, 1902: 656; Háva, 2007: 83.

Type material. 30 Syntypes: Lectotype here designated (male): „Guatemala City, Champion“ \ „Type“ [red circle], (BMNH). Paralectotypes: (10 spec.): the same data as lectotype (9 BMNH, 1 JHAC); (4 spec.): „Duenas, Guatemala, G. C. Champion“, (BMNH); (3 spec.): „Tonila, Colima, Höge“, (BMNH); (5 spec.): „Guanajuato“ \ „Mexico, Salle Coll.“, (BMNH); (4 spec.): „Acaguizotla, Guerrero, 2500 ft, Oct. H. H. Smith“, (BMNH); (1 spec.): „Cuernavaca, Morelos, June, H. H. S.“, (BMNH); (1 spec.): „Yolos“ \ „Mexico, Sallé Coll.“, (BMNH); (1 spec.): „Capetillo, Guatemala, G. C. Champion“, (BMNH).

Additional material. Mexico, Oaxaca, 53 km N Oaxaca City, hwy 175, Rio Grande, 1450 m, 5.x.1990, sweeping near large river, R. Baranowski leg., 3 spec., (2MZLU, 1 JHAC).

Remarks. Antennae of both species is very small different in largest of terminal segment. The elytral patterns is varified in largest and numbering. Male and female genitalia of both species is identical. The variety *Cryptorhopalum argutum* var. *cordovanum* synonymized by the author as synonymum of *C. argutum* (Háva, 2007). *Cryptorhopalum argutum* is therefore a junior synonym of *C. germanum*. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. quadrimaculatum* species group.

Distribution. Species known from Mexico: Guanajuato, Guerrero, Morelos; Guatemala, new for Mexico: Oaxaca.

7. *Cryptorhopalum cyphonoide* Sharp, 1902

Cryptorhopalum cyphonoide Sharp, 1902: 664.

Type material. 12 Syntypes: Lectotype here designated (male): „Jalapa [Vera Cruz], Mexico, Hoege.“ \ „Type“ [red circle], (BMNH). Paralectotypes: (7 spec.): the same data as lectotype (6 BMNH, 1 JHAC); (1 spec. not sexed): “Cordova” [Sonora] \ “Mexico, Salle coll.”, (BMNH); (3 spec.): “Orizaba” [Chiapas] \ „Mexico, Salle coll.“, (BMNH).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species known from Mexico: Chiapas, Guerrero, Sonora, Vera Cruz.

8. *Cryptorhopalum fraternum* Sharp, 1902

Cryptorhopalum fraternum Sharp, 1902: 667.

Type material. 12 Syntypes: Lectotype here designated (male): „Omiteme, Guerrero, 8000 ft., Aug. H.H. Smith“ \ „Type“ [red circle], (BMNH). Paralectotypes: (1 spec.): the same data as lectotype (JHAC); (3 males, 1 female): “Chilpancingo, Guerrero, 4600 ft., June H. H. Smith”, (BMNH); (1 male): “Xucumanatlan, Guerrero, 7000 ft., July H. H. Smith”, (BMNH).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. haplotes* species group.

Distribution. Species known from Mexico: Guerrero.

9. *Cryptorhopalum sordidum* Sharp, 1902

Cryptorhopalum sordidum Sharp, 1902: 662.

Type material. 11 Syntypes: Lectotype here designated (male): „Guanajuato“ \ “Mexico, Salle coll.” \ „Type“ [red circle], (BMNH). Paralectotypes: (8 spec.): the same data as lectotype (7 BMNH, 1 JHAC); (1 male): “Cordova” [Sonora] \ “Mexico, Salle”, (BMNH); (1 male): “Guajuco, Nuevo Leon, Dr. Palmer”, (BMNH).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species known from Mexico: Guanajuato, Sonora.

10. *Cryptorhopalum vicinum* Sharp, 1902

Cryptorhopalum vicinum Sharp, 1902: 667.

Type material. 7 Syntypes: Lectotype here designated (male): „Jalapa [Vera Cruz], Mexico, Hoegge“ \ „Type“ [red circle], (BMNH). Paralectotypes: (3 spec.): the same data as lectotype (BMNH); (3 males): “Cerro de Plumas [Oaxaca], Mexico, Hoegge”, (2 BMNH, 1 JHAC).

Additional material. Mexico, Tlaxcala, Vera Cruz, 4.vii.1957, Selander leg., 1 male, (JHAC); Mexico, México, Amumululuco, 30.viii.1969, on Artemisia, 1 male, (JHAC).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. haplotes* species group.

Distribution. Species known from Mexico: Oaxaca, Vera Cruz, new for México.

11. *Cryptorhopalum laterale* Sharp, 1902

Cryptorhopalum laterale Sharp, 1902: 659.

Type material. Holotype (female): “Jalapa [Vera Cruz], Mexico, Hoegge” \ „Type“ [red circle], (BMNH).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species known from Mexico: Vera Cruz.

12. *Cryptorhopalum celatum* Sharp, 1902

Cryptorhopalum celatum Sharp, 1902: 659.

Type material. 7 Syntypes: Lectotype here designated (male): „Acaguizotla, Guerrero, 3500 ft, Oct. H. H. Smith“ \ „Type“ [red circle], (BMNH). Paralectotypes: (3 spec.): the same data as lectotype (BMNH); (2 females): “Chilpancingo, Guerrero, 4600 ft, Oct. H. H. Smith”, (BMNH); (1 male): “Rincon, Guerrero, 2800 ft, Sept. H. H. Smith”, (JHAC).

Remarks. According the characters mentioned by Beal (1975, 1985) the species belongs to the *C. triste* species group.

Distribution. Species known from Mexico: Guerrero.

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