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## CONTRIBUTION TO KNOWLEDGE OF THE GENUS *APSECTUS* (COLEOPTERA, DERMESTIDAE, TRINODINAE) FROM MEXICO AND NEOTROPICAL REGION

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**Contribution to Knowledge of the Genus *Apsectus* (Coleoptera, Dermestidae, Trinodinae) Mexico and Neotropical Region.** Háva J. — *Apsectus kaliki* sp. n. from Guyana is described, illustrated and compared with all the known Neotropical species of the genus *Apsectus* LeConte, 1854. Lectotypes are designated for *Apsectus centralis* Sharp, 1902 and *Apsectus hystrix* Sharp, 1902.

**Key words:** taxonomy, new species, lectotype designation, Coleoptera, Dermestidae, Trinodinae, Mexico, Neotropical Region.

**К изучению рода *Apsectus* (Coleoptera, Dermestidae, Trinodinae) из Мексики и Неотропического региона.** Гава Ю. — Иллюстрированное описание *Apsectus kaliki* sp. n. из Гайяны и сравнение с известными неотропическими видами рода *Apsectus* LeConte, 1854. Обозначены лектотипы *Apsectus centralis* Sharp, 1902 and *Apsectus hystrix* Sharp, 1902.

**Ключевые слова:** таксономия, новый вид, обозначение лектотипа, Coleoptera, Dermestidae, Trinodinae, Мексика, Неотропический регион.

### Introduction

The genus *Apsectus* LeConte, 1854 contains 8 species occurring in the Nearctic and Neotropical Regions (Beal 1959, Mroczkowski 1968, Háva 2003). The present article summarizes Neotropical species described by Sharp (1902) and Beal (1959) and presents a description of a new species from Guyana; the species described by Reitter (1881) and Sharp (1902) from Mexico are also included.

### 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 a red hand-written label with text as follows: “Lectotype (or Paralectotype, respectively), *species name* Sharp, J. Háva design. 2009”.

Abbreviations:

AHEC — Andreas Herrmann private collection, Stade, Germany;

BMNH — Natural History Museum, London, United Kingdom;

JHAC — Private Entomological Laboratory and Collection, Jiří Háva, Prague-west, Czech Republic;

USNM — United States National Museum, Washington, USA.

Separate labels are indicated by slashes (/).

The species are arranged alphabetically; the nomenclature and zoogeography follow those by Háva (2003, 2012).

## Review of species

### Genus *Apsectus* LeConte, 1854

#### *Apsectus centralis* Sharp, 1902

Sharp, 1902: 669.

Type material. Lectotype ( $\sigma$ ) (designated here): “Guatemala” / “Salle Coll. ” / “*Apsectus minutus* Type D. S.” (BMNH). Paralectotypes (2  $\varphi$ ) “Guatemala City, Champion” / “*Apsectus centralis* Type D. S.” (BMNH).

Other material studied: Guatemala: “Guatemala city, Rodriguez”, 3 damaged specimens (BMNH); San Lorenzo, Zacapa Dpto., 1800 m, 7–18.07.1986, malaise trap at edge of pine forest, 1 spec. (L. LeSage lgt.), (JHAC). Panama: Colyn, 12.05.2004, 1 spec., (Schmidl lgt.) (AHEC); Canas Castilla, La Cruz, 8.05.2006, Holzer lgt., 1 spec. (AHEC).

Distribution: Costa Rica, Guatemala, Panama.

#### *Apsectus dichromus* Beal, 1959

Beal, 1959: 136.

Type locality: Panama, Canal Zone, Barro Colorado Island.

Type material. Holotype deposited in (USNM).

Other material studied: Panama, Canal Zone, Borro Colorado I., 26.01.1959, H. S. Dybas, lgt., 1 spec. (JHAC).

Remarks. Original description, together with all important figures serves well its purpose and therefore there is no need for the species redescription.

Distribution: Panama.

#### *Apsectus hystrix* Sharp, 1902

Sharp, 1902: 668; Kadej, 2012: 127 (larva).

Type material. Lectotype ( $\sigma$ ) (designated here): “Amula, Guerrero, 6000 ft, Sept., H. H. Smith” / “*Apsectus hystrix* Type D. S.” (BMNH). Paralectotypes (4 spec.): the same data as lectotype (BMNH).

Other material studied: Mexico: Miltepec, Oaxaca, 21.07.1984, 1 spec. (Woolley lgt.) (AHEC); Mexico, S. L. P. Tamazunchale, 23.08.1948, 1 spec. (Fager lgt.) (JHAC).

Distribution: Mexico.

#### *Apsectus kaliki* Háva sp. n. (fig. 1–4)

Type material. Holotype ( $\sigma$ ): “Guyana, Georgetown, Tropenbog Centre, 10. vi. 1999, on bush with white flies” / “R. G. Booth, BMNH (E) 2001–132” (BMNH). Paratype ( $\varphi$ ): the same data as with the holotype (JHAC). Specimens of the species described here are provided with a red, printed label with texts as follows: “HOLOTYPE (or PARATYPE, respectively) *Apsectus kaliki* sp. n. Jiří Háva det. 2011”.

Description. Male. Body small and oval, entirely black to dark brown, more or less shiny. Body length 1.6 mm, maximum body breadth 1.0 mm. Head coarsely punctate, sparsely covered with long, erected yellow hairs; the puncture is partly indistinct and somewhat blurred. Palpi light brown. Eyes large, with hardly visible, short and erected microsetae. Ocellus present on frons. Antennae yellow, 11-segmented, the last three segments forming a distinct club sparsely covered with light brown pubescence; the terminal segment much smaller and suboval (fig. 1), light brown. Pronotum shiny, dark brown, sparsely and coarsely punctured (some finer punctures are intermixed), sparsely covered with erect, long brown and yellow hairs; density of punctures and pubescence increases towards the lateral margins; pronotal lateral margins smooth, untoothed; prominent sub-lateral carina on each side, subparallel to lateral margin. Scutellum triangular, without any pubescence or punctuation, dark brown and shiny. Elytra shiny, dark brown to black, sparsely covered with long, erect yellow and brown hairs, punctures similar to those on the pronotum, lateral margins smooth, untoothed; humeri with a small distinct bump Epipleura brown, sparsely punctured, without pubescence. Legs totally light brown,

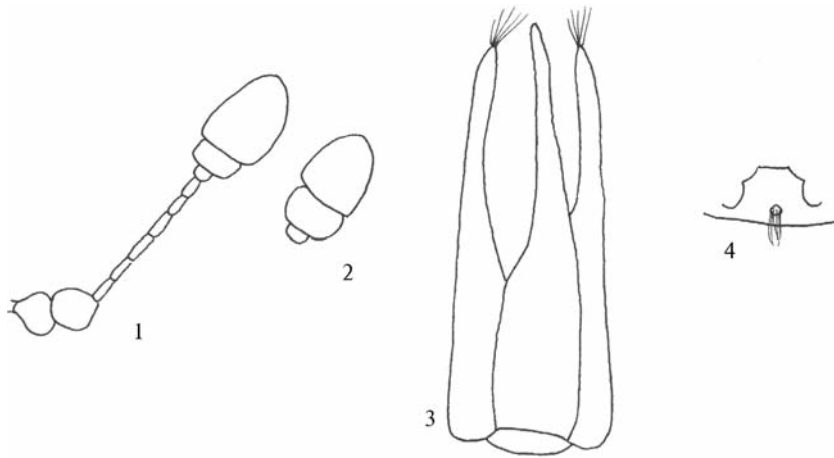


Fig. 1–4. *Apsectus kaliki* sp. n.: 1 — antenna of male; 2 — antennal club of female; 3 — aedeagus; 4 — first visible abdominal sternite with setal tuft.

Рис. 1–4. *Apsectus kaliki* sp. n.: 1 — антенна самца; 2 — булава антенны самки; 3 — эдеагус; 4 — первый видимый стернит брюшка с пучком щетинок.

sparingly covered with suberect, short light yellow hairs. Mesosternum darkish, sparsely punctate, with a few recumbent yellow hairs. Abdominal sternites brown, finely punctate, sparsely covered with recumbent light yellow hairs. Aedeagus (fig. 3).

Female. Body length 1.5 mm, maximum body breadth 1.1 mm. Externally similar to male, but differs by the structure of antennal club (fig. 2). First visible abdominal sternite with setal tuft in the middle (fig. 4).

Differential diagnosis. The new species is similar to *Apsectus centralis* Sharp, 1902, but differs from it by the characters mentioned in the key below.

Name derivation. Dedicated in memoriam to my friend and colleague in Dermestidae Mr. Vladimír Kalík (\*1918–†2010).

### *Apsectus mexicanus* (Reitter, 1881)

Reitter, 1881: 60 (*Trinodes*); Arrow, 1915: 449; Beal, 1959: 136; Mroczkowski, 1968: 156; Háva, 2003: 50.

Material examined. 1 male with labels: “*Apsectus mexicanus*” / “Mexico, Salle Coll., Cordova, 1911–403” (BMNH).

Original description. “Parvus, niger, subtiliter punctatus, erecte fusco-hirtus, prothorace plica subhumerali longa longitudini dimidio superante, plica humerali minus distincta, antennis pedibusque rufis. Long. 1.4 mm.”

Remarks. The holotype is not located (not in the Reitters collection at the Hungary Museum, Budapest, (O. Merkl pers. comm.)). Arrow (1915) synonymized the species with *A. hystrix*, but without specification of the type material. Beal (1959) discussed the species and removed it from synonymy, but status of the species is uncertain.

Distribution: Mexico.

### *Apsectus minutus* Sharp, 1902

Sharp, 1902: 669.

Type material. Holotype (male): “Chilpancingo, Guerrero, 4600 ft, June, H. H. Smith” / “*Apsectus minutus* Type D. S.” (BMNH).

Distribution: Mexico.

*Apsectus obscurus* Sharp, 1902

Sharp, 1902: 669.

Type material. Holotype (female): “Toxpan” / “Mexico, Salle Coll.” / “*Apsectus obscurus* Type D. S.” (BMNH).

Distribution: Mexico.

**Key to the Neotropical species of the genus *Apsectus*****Таблица для определения неотропических видов рода *Apsectus***

1. Elytra bicolorous, brown with buff yellow apical third (Panama). ..... *Apsectus dichromus*  
— Elytra unicolorous. .... 2
2. Elytra unicolorous, black; body setation long, white; antennae brown; male terminal antennal segment short and suboval (Guyana). ..... *Apsectus kaliki* sp. n.  
— Elytra unicolorous, brown; body setation unicolorously dark brown; antennae dark brown; male terminal antennal segment long (Costa Rica, Guatemala, Panama). ..... *Apsectus centralis*

I am very much obliged to Maxwell Barclay and Sharon Shute (BMNH), who made possible study of the type material.

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