

***Cavoptinus philippinensis* sp. nov., a new species from the Philippines
(Coleoptera: Bostrichoidea: Ptinidae)**

Jiří HÁVA¹ & Petr ZAHRADNÍK²

¹Private Entomological Laboratory & Collection,
Rýznerova 37/37, CZ-252 62 Únětice u Prahy, Prague-west, Czech Republic
e-mail: jh.dermestidae@volny.cz

²Forestry and Game Management Research Institute,
Strnady 136, CZ-252 02 Jíloviště, Czech
e-mail: zahradnik@vulhm.cz

Taxonomy, new species, Coleoptera, Ptinidae, Ptininae, *Cavoptinus*, the Philippines

Abstract. A new species *Cavoptinus philippinensis* sp. nov. belonging to the genus *Cavoptinus* Pic, 1931, still including three species - *Cavoptinus albonotatus* Pic, 1931, *Cavoptinus luzonicus* Zahradník & Háva, 2017 and *Cavoptinus palawanicus* Háva & Zahradník, 2020, all from the Philippines, is described, illustrated and compared with other species of the genus.

INTRODUCTION

The genus *Cavoptinus* Pic (1931) - type species *Cavoptinus albonotatus* Pic, 1931, recently contains three species known from the Philippines: Palawan I., Mindanao I. and Luzon I. (Bellés 1983, 1989, 1991; Zahradník & Háva 2014, 2017; Háva & Zahradník 2020) In the present article we describe a new species from the Philippines: Palawan I. and Luzon I.. This genus is similar to the genera *Cylindroptinus* Pic, 1910 (one species from Buru I.), *Luzonoptinus* Pic, 1923 (one species from the Philippines), and *Maheoptinus* Pic, 1903 (four subgenera, 10 species – all from the Oriental Region

MATERIAL AND METHODS

We have studied original descriptions of all four mentioned genera - *Cavoptinus* Pic, 1931, *Cylindroptinus* Pic, 1910, *Luzonoptinus* Pic, 1923 and *Maheoptinus* Pic, 1903 (including all four subgenera: *Maheoptinus* s. str., *Cephaloptinus* Bellés, 1983, *Kalimantanus* Bellés, 1991 and *Luzonites* Bellés, 1983) and all species - Bellés 1983, 1989, 1991; Pic 1899, 1902, 1903a, b, 1908, 1910, 1918, 1923a, b, 1931.

Specimens of the presently described species are provided with a red, printed labels with text as follows: „HOLOTYPE (or PARATYPE) *Cavoptinus philippinensis* sp. nov. J. Háva & P. Zahradník det. 2022”

The mentioned material is deposited in the following collections:

- JHAC Private Entomological Laboratory and Collection, Jiří Háva, Únětice u Prahy, Prague west, Czech Republic;
PZPC Petr Zahradník, private collection, Jesenice u Prahy, Czech Republic.

TAXONOMY

Cavoptinus philippinensis sp. nov.

(Figs. 1a-e)

Type material. Holotype (♂): Philippines, Palawan, Roxas, October 2020, local collector, (JHAC). Paratypes: (1 ♂): same data as holotype, (JHAC); (1 ♀): Philippines, South Luzon, Mindoro Oriental, Baco, September 2020, local collector, (PZPC).

Description of holotype. Shortly oval, slightly transversally convex, body length 2.9 mm, greatest width 1.2 mm (Fig. 1a). Piceous black, antennae, palpi and legs very dark brown, brown setation erect and long, white setation recumbent and short.

Head slightly convex, shining, finely and densely punctuate, punctures almost touched, with intermixed white and brown setation, on vertex sparser. Eyes relatively large, globular, glabrous. On frons, between eyes with a few long erect setae. Palpi dark brown. Antennae consist of eleven antennomeres, filiform, without antennal club (Fig. 1c). All antennomeres with dense, long semierect, brown setae dorsally, ventrally with intermixes white setation.

Pronotum slightly longitudinal (Fig. 1b). Sides of pronotum slightly parallel (in dorsal view), in middle slightly narrowed. Disc of pronotum with short, broad, oval depressions. The depressions covered by white setation. Surface of pronotum shining, coarsely punctuate. Part of surface covered by short white setae (especially on border of depression) and with long dense erect, brown setae, especially on border of pronotum.

Scutellum triangular, covered densely by white setae.

Elytra parallel, obtusely ended, with distinct shoulders, shining, with long erect, brown setae and short white setae. Each elytron with tenth striae consisting of large, longitudinal punctures. Interstriae narrower than striae. Each elytron with one humeral bump with spot, posterior spot and apical spot of white, short setae. Epipleuron short with brown setae.

Abdomen covered by white, recumbent setation, abdominal ventrite V with individual, long setation (Fig. 1e).

Legs dark brown, slim, covered by intermixed yellow and white setation, femur more robust. Tibiae as long as tarsi. All tarsomeres short and wide, slightly emarginate. Claws large, without teeth.

Metasternum covered by grey setation, with longitudinal suture, inclined anteriorly from base (Fig. 2a).

Male genitalia see Fig. 1d.

Female. Externally similar to male; body length 2.8 mm, greatest width 1.2 mm.

Differential diagnosis. The new species very similar to species belonged to genus *Maheoptinus*, but differs from them by the characters in following key, from similar species belonging to genus *Cavoptinus* (*Cavoptinus albonotatus* Pic, 1931, *C. luzonicus* Zahradník & Háva, 2017 and *Cavoptinus palawanicus* Háva & Zahradník, 2020) differs by the short form of body, structure of pronotal carinae, elytral spots, long abdominal setation on ventrite V and structure of male genitalia.

Etymology. Named according to the type locality, the Philippines.

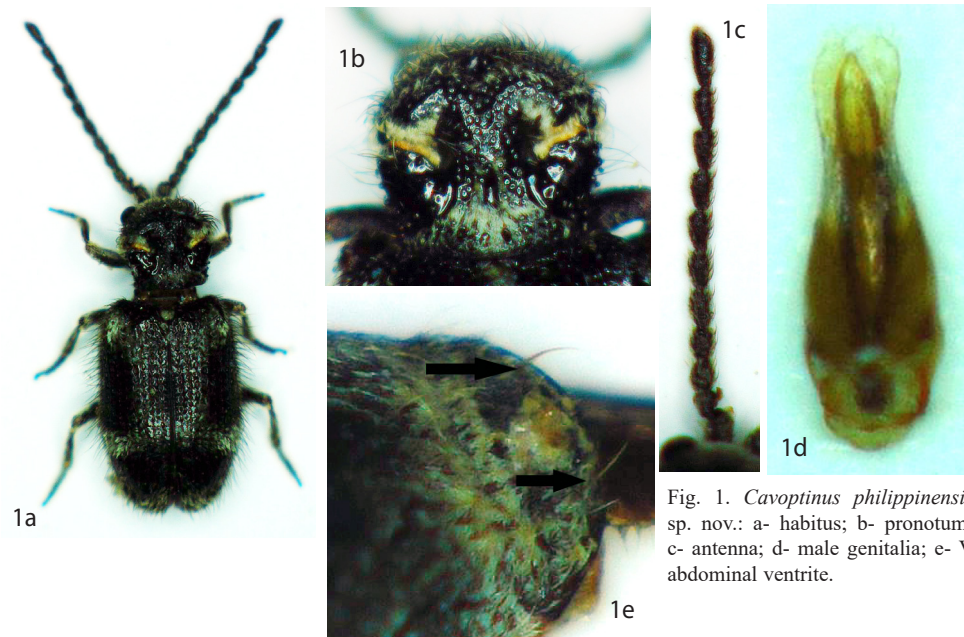
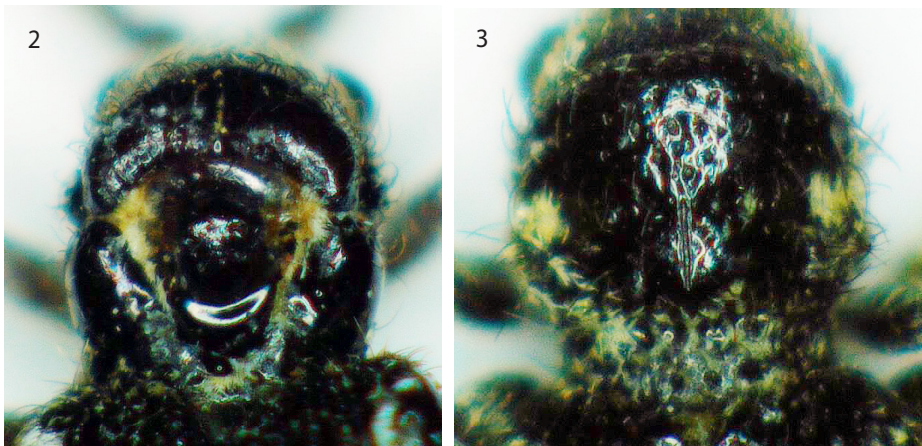


Fig. 1. *Cavoptinus philippinensis* sp. nov.: a- habitus; b- pronotum; c- antenna; d- male genitalia; e- V abdominal ventrite.



Figs. 2-3. Pronotum: 2- *Cavoptinus luzonicus* Zahradník & Háva, 2017; 3- *Cavoptinus palawanicus* Háva & Zahradník, 2020.

KEY OF GENERA

1. Temples between eyes and pronotum distinct *Maheoptinus* Pic, 1903
- Temples between eyes and pronotum indistinct 2
2. Pronotum elongate, distinctly longer than wide *Cylindroptinus* Pic, 1910
- Pronotum almost squared or transverse 3
3. Metasternum with longitudinal suture, inclined anteriorly from base *Cavoptinus* Pic, 1931
- Metasternum without suture *Luzonoptinus* Pic, 1923

ACKNOWLEDGEMENTS. The paper was supported by the Ministry of Agriculture of the Czech Republic, institutional support MZE-RO0118.

REFERENCES

- BELLÉS X. 1983: Révision des *Maheoptinus* Pic, 1903, et des genres voisins (Col., Ptinidae). *Annales de la Société Entomologique de France (N.S.)* 19: 7-16.
- BELLÉS X. 1989: Descripción de *Maheoptinus negrosianus* n. sp. y análisis filogenético y biogeográfico del grupo *Maheoptinus* (Coleoptera, Ptinidae). *Miscelanea Zoologica* 11: 147-153.
- BELLÉS X. 1991: Los generos *Kedirinus* nov., *Sundaptinus* nov. y *Hanumanus* nov. en el Archipelago Indo-Australiano y sureste Asiatico, y nuevos datos sobre el genero *Maheoptinus* Pic (Coleoptera, Ptinidae). *Graellsia* 47: 71-96.
- HÁVA J. & ZAHRADNÍK P. 2020: *Cavoptinus palawanicus* nov. sp., a new species from the Philippines (Coleoptera, Bostrichoidea, Ptinidae). *Linzer Biologische Beiträge* 52(1): 85-88.
- PIC M. 1899: Diagnoses de Ptinides et Anthicides [Col.] des collections du Muséum de Paris. *Bulletin du National Muséum d'Histoire Naturelle* 5: 28-31.
- PIC M. 1902: Coléoptères asiatiques nouveaux. *L'Échange, Revue Linnéenne* 18(205): 1-3.
- PIC M. 1903a: Diagnoses génériques et spécifiques de divers Coléoptères exotiques. *L'Échange, Revue Linnéenne* 19: 182-183.
- PIC M. 1903b: Espèces et variétés nouvelles de Coléoptères. *L'Échange, Revue Linnéenne* 19(226): 161-163.
- PIC M. 1908: *Hedobia* et Ptinides exotiques nouveaux. *Annali del Museo Civico di Storia Naturali di Genova* 3: 606-607.
- PIC M. 1910: Coléoptères exotiques nouveaux ou peu connus. (Suite). *L'Échange, Revue Linnéenne* 26: 45-47.
- PIC M. 1918: Courtes descriptions diverses. *Mélanges Exotico-entomologiques* 27: 1-24.
- PIC M. 1923a: Nouveaux Coléoptères exotiques. *Bulletin de la Société Entomologique de France* 1923: 142-143.
- PIC M. 1923b: Nouveautés diverses. *Mélanges Exotico-Entomologiques* 40: 3-32.
- PIC M. 1931: Nouveautés diverses. *Mélanges Exotico-entomologiques* 57: 1-36.
- ZAHRADNÍK P. & HÁVA J. 2014: Catalogue of the world genera and subgenera of the superfamilies Derodontoidea and Bostrichoidea (Coleoptera: Derodontiformia, Bostrichiformia). *Zootaxa* 3754: 301-352.
- ZAHRADNÍK P. & HÁVA J. 2017: *Cavoptinus luzonicus* sp. nov., a new species from the Philippines (Coleoptera: Bostrichoidea: Ptinidae). *Studies and Reports, Taxonomical Series* 13(2): 511-515.

Received: 26.8.2022
Accepted: 20.10.2022
Printed: 31.3.2023