

## Contribution to the species of the genus *Orphinus* (Coleoptera: Dermestidae) described by Maurice Pic with a description of *Picorphinus* subgen. n.

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*Orphinus* (*Picorphinus*) subgen. n. is described and illustrated and the type species *Orphinus* (*Picorphinus*) *guernei* Pic, 1916 is redescribed. *Orphinus* (*Orphinus*) *tonkineus* Pic, 1922 is firstly illustrated and its lectotype designated. One new synonymy is proposed: *Orphinus* (*Orphinus*) *apicalis* Pic, 1918 (= *Orphinus rufofasciatus* Pic, 1924 syn. n.)

Key words: Coleoptera, Dermestidae, *Orphinus*, taxonomy, description, new subgenus, new synonymy, lectotype designation, Oriental subregion.

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### INTRODUCTION

Family Dermestidae ranks among one of the commonly known beetle families currently containing about 1300 species and subspecies worldwide (Háva 2003, 2008). Tribe Megatomini currently contains 38 genera and subgenera, divided into the 7 genera groups (Háva 2004). This paper aims to contribute to knowledge of the species in the genus *Orphinus* as described by Maurice Pic and deposited in the Muséum National d'Histoire Naturelle, Paris, France (MNHN). This study has originally been undertaken by Mr. V. Kalík (Pardubice, Czech republic) and I am pleased to present this paper as a continuation of his studies.

### MATERIAL AND METHODS

The shades of colours used in the descriptions are classified according to Paclt (1958), integumental structures are named according to Harris (1979). Locality labels of the mentioned materials are quoted in the original version. Separate labels are indicated by forward slash (/). Remarks of the authors are found in square brackets [ ]. The lectotypes are herein designated in order to stabilize the nomenclature of this genus according to the Article 74.7.3. of the Code (ICZN 1999).

## RESULTS

### *Orphinus* Motschulsky, 1858

#### *Picorpinus* subgen. n.

Type species: *Orphinus guernei* Pic, 1916: 16.

Differential diagnosis. New subgenus differs from the nominal subgenus by the characters given in the following key:

a(b) terminal antennal segment long and suboval antennal segment X narrow (Fig. 4) (east palearctic and oriental regions) .....  
.....*Faloorphinus* (Pic, 1931)

antennal segment X very broad (Fig. 2) (Sri Lanka) ..... *Picorpinus* subgen. n.

b(a) terminal antennal segment oval or circular (Fig. 5)

body small, oval or slightly convex; colour patterns and pubescence of elytra variable (cosmopolitan).....*Orphinus* Motschulsky, 1858

body robust, parallel-sided, elongate; each elytron with large, red, transverse fasciae in anterior part (China) .....  
.....*Curtorpinus* (Pic, 1954)

Etymology. The name of the new subgenus is composed using the name of the famous French entomologist Maurice Pic and genus name *Orphinus*.

### *Orphinus (Picorpinus) guernei* Pic, 1916 comb. subgen. n. (Figs 1-2)

*Orphinus guernei* Pic, 1916: 16.

*Orphinus (Orphinus) guernei*: Mroczkowski, 1968: 128. (catalogued)

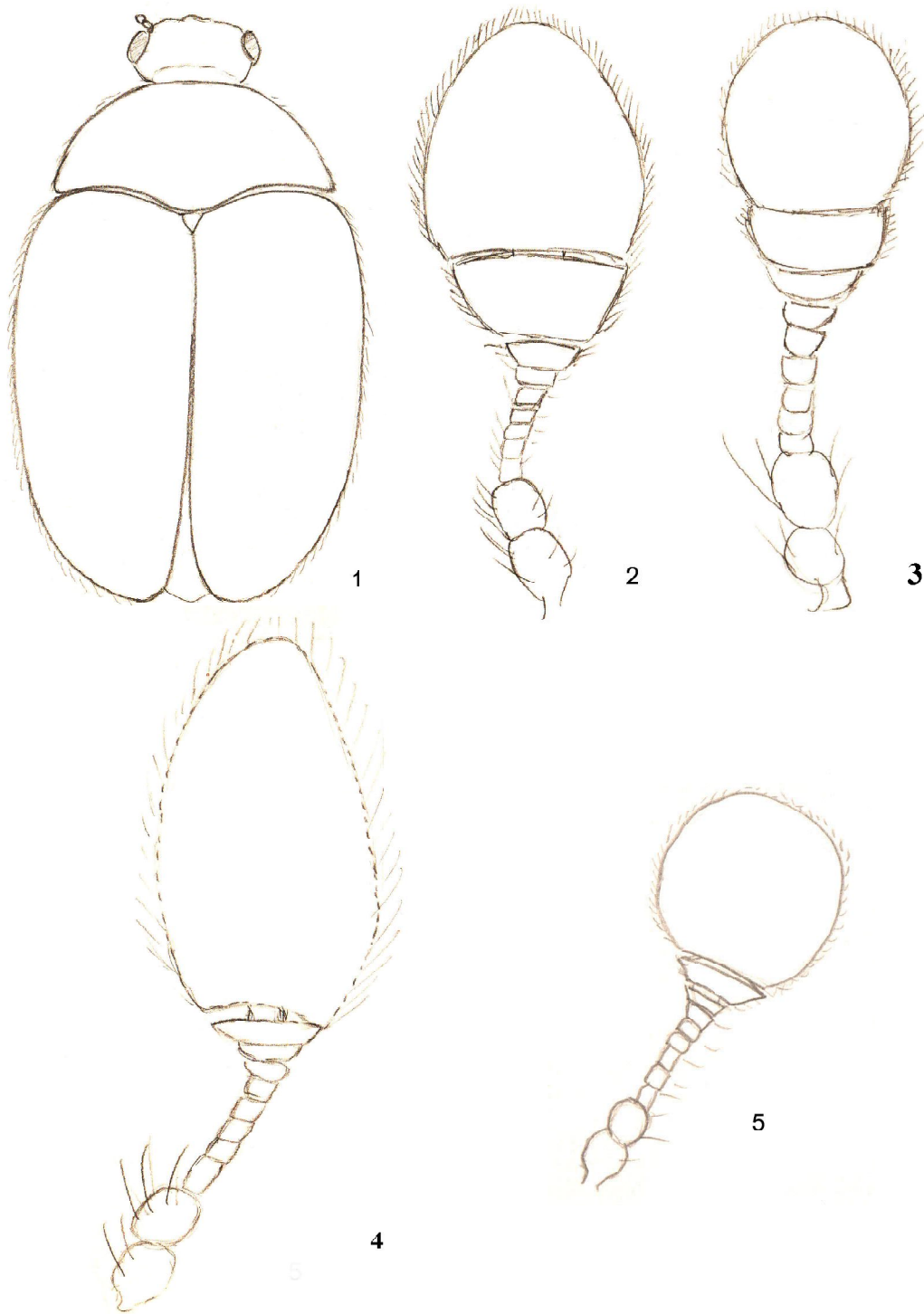
*Orphinus (Orphinus) guernei*: Háva, 2003: 122. (catalogued)

Type material. Holotype (male): „Kandy, 20/3 (J. de Guerne)“ [handwritten label] / „Thaumaglossa“ [handwritten label] / „Orphinus probabl“ [handwritten label] / „Type“ [handwritten label] / „non Orphinus par ses antennes“ [handwritten label] / „Orphinus Guernei Pic“ [handwritten label] / „Type“ [red, printed label]. Holotype deposited in MNHN.

Original description. „*Orphinus Guernei* n. sp. Oblong-oval, nitidus, minute et sparse punctatus, atro et fulvo pubescens, niger, antennis, tibiis tarsisque testaceis. Long. 2.5 mill. Ceylan : Kandy (J. de Guerne). – Peut se placer près de *O. funestus* Arrow.”

Redescription. Body (Fig. 1) dorsally and ventrally dark brown; oval, body length 2.5 mm; maximum body width 1.4 mm. Head finely punctate, fringed with long brown pubescence. Palpi brown; pubescence on mentum denser; eye very large, fringed with brown setae; ocellus in front present. Antennae 11-segmented, brown, fringed with short brown setae; club 3-segmented, terminal antennal segment long and suboval (Fig. 2); segment X very broad. Punctuation of pronotal disk similar to that of head, densely foveolate posteriorly, with long brown pubescence. Pronotal antennal cavity very broad, coarsely punctate. Scutellum triangular, fringed with short light brown pubescence. Elytra densely foveolate with long brown pubescence; cuticle dark brown without patterns of differently colored pubescence. Epipleuron brown, finely punctate. Legs brown, with light-brown pubescence. Mesosternum laterally coarsely punctate, punctures fine otherwise. Abdominal sternites with short light brown pubescence; first abdominal segment with distinct oblique discal striae. Male genitalia: parameres slightly curved towards apex, median lobe broad. Female unknown.

Remarks. *O. guernei* is habitually very similar to *O. funestus* Arrow, 1915 (antennae yellow), but differs from it by the form and colour of antennae.



Figs 1-5. *Orphinus* (*Picorpinus*) *guernei* Pic, 1916: 1- habitus, dorsal aspect; 2- male antenna; *Orphinus* (*Orphinus*) *tonkineus* Pic, 1922: 3- female antenna; *Orphinus* (*Falsoorphinus*) sp.: 4- male antenna; *Orphinus* (*Orphinus*) sp.: 5- male antenna. All original figures by V. Kalík.

Mr. Kalik has loaned this species 30 years ago (during the years 1977-1978) and has studied the holotype. Male genitalia of this species is in very bad shape.

Distribution. This species is known only from Sri Lanka.

### ***Orphinus (Orphinus) apicalis* Pic, 1918**

*Orphinus apicalis* Pic, 1918: 2.

*Orphinus rufofasciatus* Pic, 1924: 3 syn. n.

Type material. *Orphinus apicalis*: Holotype (male): „Java, collection Le Moulte“ [printed label] / „Type“ [handwritten label] / „Orphinus apicalis Pic“ [handwritten label] / „Type“ [red, printed label]. Holotype deposited in MNHN. *Orphinus rufofasciatus*: Holotype (female): „Los Banos, P.I., Baker“ [printed label] / „Type“ [handwritten label] / „rufofasciatus n sp“ [handwritten label] / „Type“ [red, printed label]. Holotype deposited in MNHN.

Remarks. Pic (1918) described the species *Orphinus apicalis* from Java; he next (1924) described the same species as *Orphinus rufofasciatus* from Luzon. According to the study of type material both these species are identical. *Orphinus rufofasciatus* is therefore junior synonym of *Orphinus apicalis*.

Distribution. This species is known from Java, Philippines: Luzon and Sumatra.

### ***Orphinus (Orphinus) tonkineus* Pic, 1922 (Fig. 3)**

*Orphinus tonkineus* Pic, 1922: 6.

Type material. Two syntypes (females): „Laebho, Tonkin“ [handwritten label] / „Type“ [handwritten label] / „Orphinus tonkineus n sp“ [handwritten label] / „Type“ [red, printed label]. Type material deposited in MNHN.

One specimen is herewith designated as Lectotype, and second as paralectotype. Specimens herewith designated are provided with a red written label with the following: „Lectotype [Paralectotype, respectively], *Orphinus (Orphinus) tonkineus* Pic, J. Háva design. 2008“.

Remarks. Original description lacks figures. Female antenna of this species is herewith illustrated for the first time (Fig. 4).

Distribution. This species is so far known only from Vietnam.

## **ACKNOWLEDGEMENTS**

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