

***Orphinus* (s. str.) *mroczkowskii* sp. n. from North Korea  
(Coleoptera: Dermestidae: Megatomini)**

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**ABSTRACT.** *Orphinus* (s. str.) *mroczkowskii* sp. n. from North Korea is described, illustrated and compared with related species.

**KEY WORDS:** taxonomy, morphology, Coleoptera, Dermestidae, *Orphinus*, new species, North Korea.

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INTRODUCTION

The present paper follows preceding recently papers about the genus *Orphinus* MOTSCHULSKY, 1858 from Palaearctic region (HÁVA 2001, 2003, 2004, HÁVA & HERRMANN 2004). In material studied recently we have found specimens representing a new species from North Korea. Its description is given below.

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## METHODS

## Explanation of abbreviations:

BMNH - British Museum of Natural History [= The Natural History Museum], London, United Kingdom,

MiIZ – Muzeum i Instytut Zoologii PAN, Warszawa, Poland,

BL - body length (measured from the head anterior margin to the apex of elytra),

BW - body width (measured between two anterolateral humeral calli),

PL - pronotum length (measured from the top of the anterior margin to scutellum),

PW - pronotum width (measured between the two posterior angles of pronotum),

SL - sternites length (measured from the anterior margin to the apex of posterior margin),

SW - sternites width (measured between two lateral margins in the anterior part of sternites),

AFL - antennal fossa length (measured along the antennal fossa),

LMP - length of lateral margin of pronotum (measured as the distance between inferior part of pronotum and exterior angle).

All measurements are given in millimeters. The morphological structures (antenna, wing, genitalium, galea and lacinia, ninth abdominal sternite, tarsal claw) were observed under phase contrast microscope Nikon Eclipse E 600 with a drawing attachment in transparent light in glycerin. All morphological structures were put into plastic micro vials with glycerin under proper specimens. Photos were taken with the camera Nikon Coolpix 4500. Locality labels are cited in the original version. Separate labels are indicated by slashes (/). Remarks of the authors are found in square brackets [ ].

## SYSTEMATICS

*Orphinus* (s. str.) *japonicus* ARROW, 1915**Material examined**

Type material: holotype (male): Fukushima, 26.vii-29.vii.81, Japan, G. Lewis 1910-320., J. Háva revid. 2001., (BMNH).

Non type material: Kubo, Mima-gun Tokushima-ken, Shikoku, Japan, 30.VII.1949, leg. M. Chujo/Inst. Zool. P.A.N. Warszawa 62/65/*Orphinus japonicus* Arrow, M. Mroczkowski 1955 det., 1 female, (MiIZ).

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(Figs 1-8 )

*Orphinus japonicus*: MROZKOWSKI, 1966: 440

**Material examined**

Type material: Holotype (male): Korea, Phjongjang hortus Moran, 29.V.1965, leg. M. Mroczkowski et A. Riedel / Inst. Zool. P.A.N. Warszawa 62/65 / *Orphinus japonicus* Arrow, M. Mroczkowski 1955 det. / *Orphinus mroczkowskii* sp. n. V. Kalik det. 84. (MiIZ).

### Differential diagnosis

The new species similar to *O.* (s. str.) *japonicus* ARROW, 1915 but differs from it in the morphology of antennae and dorsal habitus.

*Orphinus japonicus* ARROW: dorsal integument black; anterior transverse fasciae very broad and slightly reaching the suture; body form elongated and parallel; terminal antennal segment large, circular; segment X broad.

*Orphinus mroczkowskii* sp. n.: dorsal integument brown; anterior transverse fasciae broad near humera and narrow near suture, not reaching suture; body form oval; terminal antennal segment large, oval; segment X narrow.

### Description

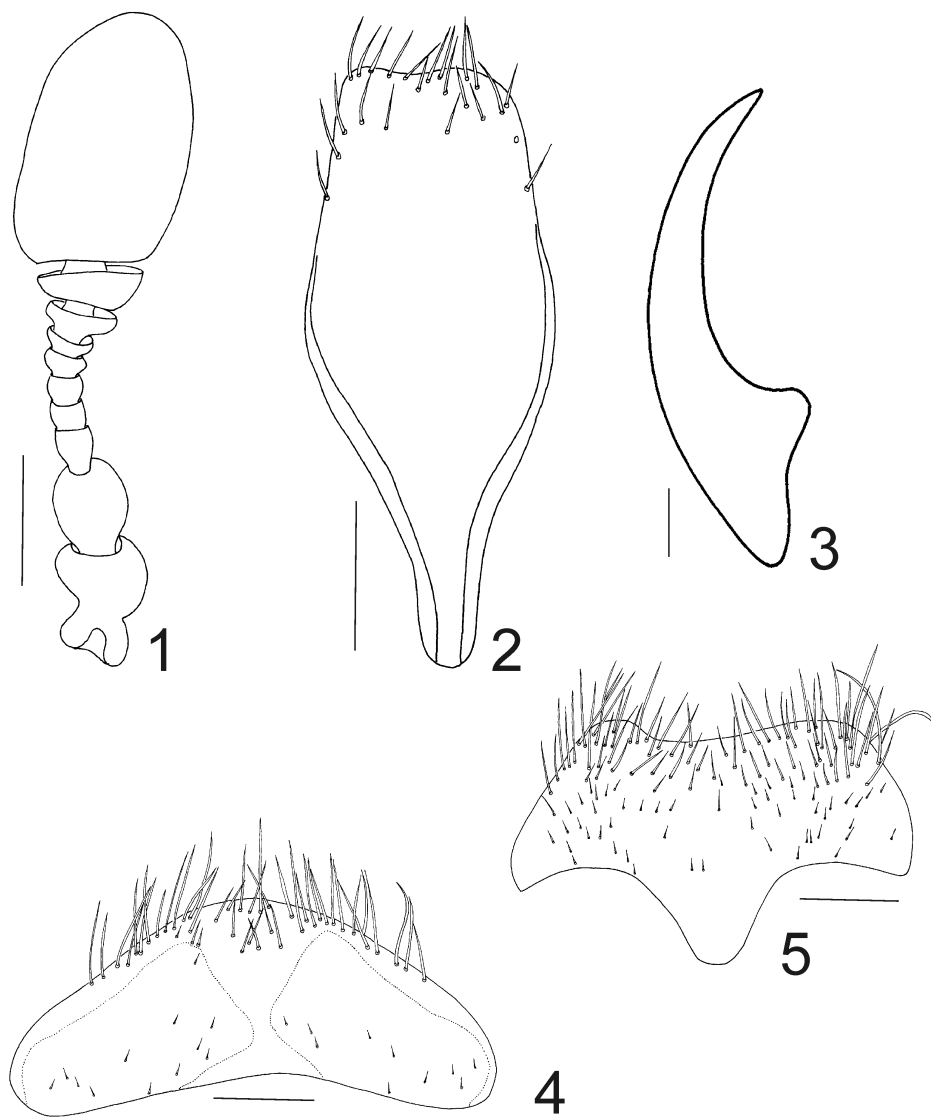
Body strongly convex, ovate, almost round, covered with black pubescence, gently but densely punctated (BL: 2.4; BW: 1.3) (Fig. 6). Head with big convex eyes. Frons with gentle punctation, covered with black pubescence. Antenna of male brown, 10-segmented. The last (10-th) segment the biggest, oval, covered densely with light-brown pubescence and measures about third of the antennae length (Fig. 1). The remaining segments of antenna narrow and oblate. Antenna occupy whole cavity of antennal fossa. Antennal fossa completely open (AFL: 0.25) along whole length (LMP: 0.4) of lateral margin of the pronotum. Pronotum (PL: 0.5; PW: 1.1) and elytra dark brown, gently but densely punctuated, covered with black pubescence. Narrow, transverse band created by red coloration of chityn. The band extends from lateral margin of elytra, under humeral calli to suture, but does not reach the suture. Prosternum punctate on disc, without impunctate median line. Mesosternal disc with punctation as that on the prosternum. Abdominal sternite (SL: 1.2; SW: 1.2) dark-brown, covered with light-yellow pubescence (Fig. 7). Legs covered with light pubescence on the dorsum. Legs with brown coloration. Tarsus with two tarsal-claws emarginated, gently curved (Fig. 3). Ninth abdominal sternite spatula-like with few short setae on top (Fig. 2). Sixth abdominal tergite light-brown, with two types of setae: longer at the posterior margin and shorter laterally in the anterior part of tergite (Fig. 4). Wing as in figure 8.

### Name derivation

The species name is dedicated to the Polish excellent taxonomist Prof. dr hab. Maciej MROCKOWSKI.

### Remarks

There are no drawings depicting male genitalia because of their very bad condition – paramers and aedeagus had been broken before preparation which is thought to be a result of glue crystallization.



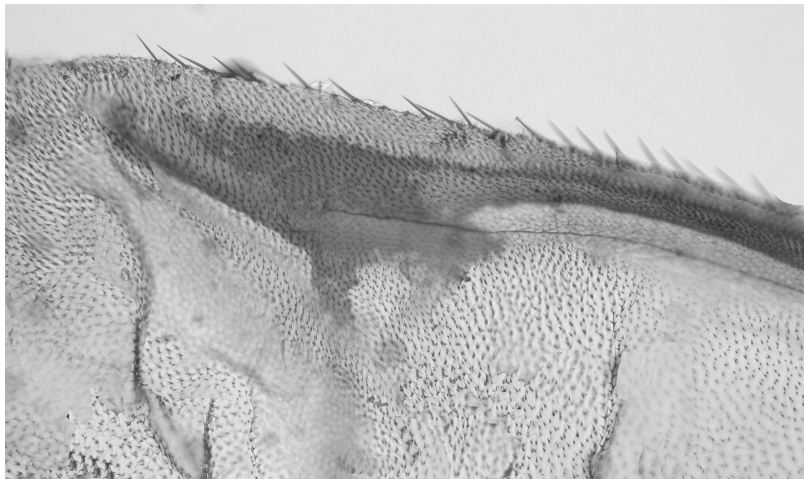
**Figs 1-5.** *Orphinus mroczkowskii* sp. n. 1 - male antenna; 2 - 9<sup>th</sup> abdominal sternite; 3 - tarsal-claw; 4 - 6<sup>th</sup> abdominal tergite; 5 - 6<sup>th</sup> abdominal sternite. Scal bar: Figs 1-2, 4-5: 0.1 mm; Fig. 3: 0.01 mm



**Fig. 6.** *Orphinus mroczkowskii* sp. n., habitus dorsal.



**Fig. 7.** *Orphinus mroczkowskii* sp. n., sternites.



**Fig. 8.** *Orphinus mroczkowskii* sp. n., wing.

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