

Descriptions of two new *Orphinus* Motschulsky, 1858 species from China (Coleoptera: Dermestidae: Megatominae)

Jiří HÁVA^{1,2}

¹Department of Forest Protection and Entomology,
Faculty of Forestry and Wood Sciences,
Czech University of Life Sciences,

Kamýcká 1176, CZ-165 21, Prague 6 - Suchbát, Czech Republic

²Private Entomological Laboratory and Collection,
Rýznerova 37, CZ - 252 62 Únětice u Prahy, Praha-západ, Czech Republic
e-mail: jh.dermestidae@volny.cz

Taxonomy, new species, Coleoptera, Dermestidae, Megatominae, *Orphinus*, China

Abstract. *Orphinus* (*Orphinus*) *ornatus* sp. nov. from China: Yunnan Province, and *O.* (*O.*) *hrdlickai* sp. nov. from China: Taiwan are described, illustrated and compared. The new species are characterized by their ornamental elytral fasciae and structure of antennae and male genitalia. *Orphinus* (*Orphinus*) *xianae* Herrmann, Háva et Zhang, 2011 is newly recorded from Hebei province.

INTRODUCTION

The genus *Orphinus* Motschulsky, 1858 currently includes nearly 100 species worldwide; from China, only 13 species have been still recorded (Hua 2002, Háva 2007, 2013, 2015, Herrmann et al. 2011, Kadej et al. 2015). The present article describes two new species recently collected in China and belonging to the nominotypical subgenus *Orphinus*.

MATERIAL AND METHODS

The size of the beetles or of their body parts can be useful in species recognition, and therefore, the following measurements were made:

Total length (TL) - linear distance from anterior margin of pronotum to apex of elytra.

Elytral width (EW) - maximum linear transverse distance.

Holotypes are deposited in Private Entomological Laboratory & Collection, Jiří Háva, Únětice u Prahy, Prague-West, Czech Republic (JHAC).

RESULTS

***Orphinus* (*Orphinus*) *ornatus* sp. nov.** (Figs. 1-4)

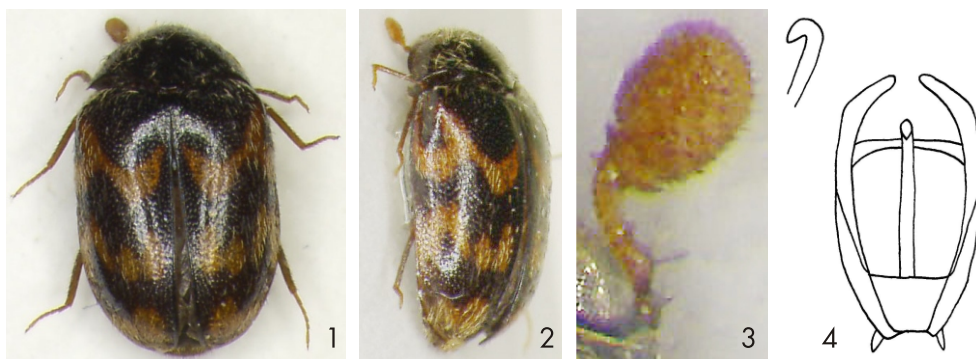
Type material. Holotype (♂): "China, S Yunnan, (Xishuangbanna), ca. 30 km NW Jinghong vic., Bameng, 1700-2000 m" / "Hua Zhuliangzi Mts., N22°08.01 E100°31.54, 30.v.2008, sec. Forest", (JHAC). The specimen of the presently described species is provided with a red, printed label with texts as follows: „HOLOTYPE, *Orphinus* (*Orphinus*) *ornatus* sp. nov. Jiří Háva det. 2015”.

Description. Male. Body black and orange on dorsal surfaces, black on ventral surfaces; small and oval (Figs. 1-2). Body measurements (mm): TL 2.7 EW 1.7. Head coarsely punctate, with short, recumbent, yellow setation. Palpi brown; setation on mentum denser. Eye very large,

with brown microsetae. Ocellus on front present. Antennae light brown with brown setae, with 11 antennomeres, antennal club with two antennomeres, terminal antennomere large, circular (Fig. 3). Pronotum on the disc punctate like head, densely foveolate posteriorly, with long, recumbent, yellow setation. Scutellum triangular, without setation. Elytra finely punctate, with long, yellow, recumbent setation; cuticle black; each elytron with three transverse, orange fasciae covered with yellow setation (Figs. 1-2). Legs brown, with yellow setation. Mesosternum coarsely punctate laterally, otherwise finely punctate, covered with yellow, short, recumbent setation. Abdominal visible ventrites finely punctate, with short, recumbent, yellow setation. Pygidium dark brown with yellow setation. Male genitalia in (Fig. 4).

Female unknown.

Diagnosis. The new species belongs to the nominotypical subgenus based on the structure of terminal antennomere; from other known *Orphinus* species, it differs by its characteristic elytral colour pattern.



Figs. 1-4. *Orphinus (Orphinus) ornatus* sp. nov. (holotype): 1- habitus, dorsal aspect; 2- habitus, dorso-lateral aspect; 3- antenna of male; 4- aedeagus and tip of medial lobe, lateral aspect.

Etymology. Named according to the characteristic ornamental elytral fasciae.

***Orphinus (Orphinus) hrdlickai* sp. nov.**

(Figs. 5-7)

Type material. Holotype (♀): "China, Taiwan, Taichung Co. Wu Ling, 6.vi.2008, Liu Lan-Yu leg., (JHAC). The specimen of the presently described species is provided with a red, printed label with texts as follows: „HOLOTYPE, *Orphinus (Orphinus) hrdlickai* sp. nov. Jiří Háva det. 2015".

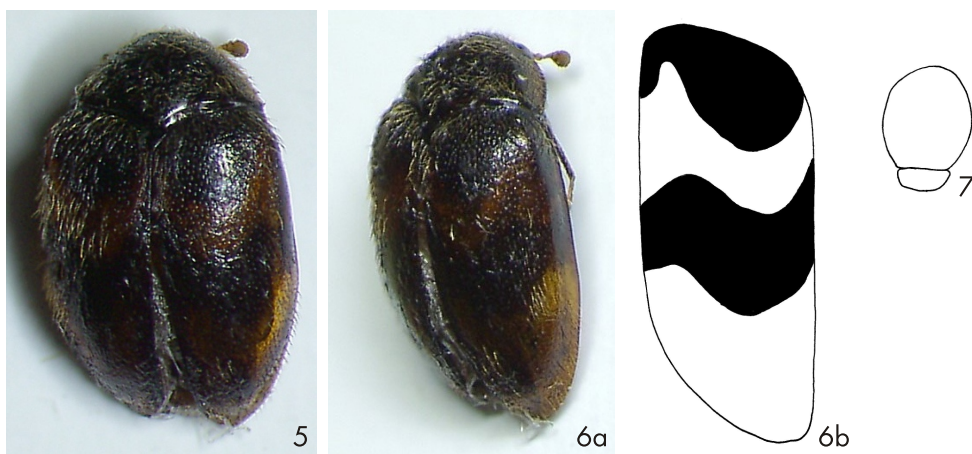
Description. Male. Body black and orange on dorsal surfaces, black on ventral surfaces; small and oval (Figs. 5-6). Body measurements (mm): TL 2.9 EW 1.7. Head coarsely punctate, with short, recumbent, yellow setation. Palpi brown; setation on mentum denser. Eye very large, with brown microsetae. Ocellus on front present. Antennae light brown with brown setae, with 11 antennomeres, antennal club with two antennomeres, terminal antennomere circular (Fig. 7). Pronotum on the disc punctate like head, densely foveolate posteriorly, with long, recumbent, yellow setation. Scutellum triangular, without setation. Elytra finely punctate, with long, yellow, recumbent setation; cuticle black; each elytron with a transverse, orange fascia in anterior half

and an orange fascia in apical third, covered with yellow setation (Figs. 5-6). Legs brown, with yellow setation. Mesosternum coarsely punctate laterally, otherwise finely punctate, covered with yellow, short, recumbent setation. Abdominal visible ventrites finely punctate, with short, recumbent, yellow setation. Pygidium dark brown with yellow setation.

Male unknown.

Diagnosis. The new species belongs to the nominotypical subgenus based on the structure of the terminal antennomere; from other known *Orphinus* species, it differs by its characteristic elytral colour pattern.

Etymology. The epithet is a patronym honouring the entomologist and my friend Jan Hrdlička (Babice u Říčan, Czech Republic), a specialist in the family Carabidae subfamily Brachininae (Coleoptera).



Figs. 5-7. *Orphinus (Orphinus) hrdlickai* sp. nov. (holotype): 5- habitus, dorsal aspect; 6- habitus, dorso-lateral aspect; 7- antennal club of female.

***Orphinus (Orphinus) xianae* Herrmann, Háva et Zhang, 2011**

Material examined: China, Hebei pr., Xingtai Taihang Mts., 1300 m, Neiqiu, Xinjiayu, 17-20.v.2002, M. Knízek lgt., 2 spec., J. Háva det., (JHAC).

Distribution. The species was described from Beijing prov.; new to Hebei province.

Remarks. Specimens collected from pheromone trap baited for bark beetles *Dendroctonus valens* LeConte (Curculionidae: Scolytinae).

LIST OF THE *ORPHINUS* SPECIES KNOWN FROM CHINA**Genus *Orphinus* Motschulsky, 1858****Subgenus *Curtophinus* (Pic, 1954)**

Orphinus bicolor (Pic, 1954) Fujian, Taiwan

Subgenus *Falsoorphinus* Pic, 1931

Orphinus barthelemyi Kadej, Aston, Háva et Herrmann, 2015 Hong Kong
Orphinus chinensis Háva, 2004 Hebei
Orphinus meiyingae Herrmann, Háva et Zhang, 2011 Beijing
Orphinus ovalis (Arrow, 1915) Fujian
Orphinus pseudoovalis Háva, 2004 Hong Kong, Hubei, (Vietnam)

Subgenus *Orphinus* Motschulsky, 1858

Orphinus beali Herrmann, Háva et Zhang, 2011 Yunnan
Orphinus fasciatus (Matsumura et Yokoyama, 1928) Taiwan; (Japan; the Philippines: Luzon;
 Papua New Guinea)
Orphinus aethiops Arrow, 1915 Taiwan (Angola; Cameroon; Nigeria;
 Mauritius; Sumatra)
Orphinus fulvipes (Guérin-Méneville, 1838) Beijing, Guangdong, Guangxi, Guizhou,
 Sichuan, Yunnan (Cosmopolitan species)
Orphinus hrdlickai **sp. nov.** Taiwan
Orphinus ornatus **sp. nov.** Yunnan
Orphinus petri Háva, 2013 Hebei
Orphinus xianae Herrmann, Háva et Zhang, 2011 Beijing, Hebei
Orphinus yunnanus Háva, 2004 Yunnan

Note. The species *Orphinus japonicus* Arrow, 1915 was mentioned by Hua (2002) from Beijing and Yunnan, but the records should be revised since a similar species was recently described from China.

ACKNOWLEDGEMENTS. I am obliged very much to Miloslav Rakovič (Dobřichovice, Czech Republic) for reading the manuscript. This research was supported by the Internal Grant Agency (B0118/004), Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Prague.

REFERENCES

- HÁVA J. 2007: Dermestidae pp. 57, 299-320. In: LÖBL I. & SMETANA A. (eds.): *Catalogue of Palaearctic Coleoptera. Volume 4. Elateroidea - Derodontoidea - Bostrichoidea - Lymexyloidea - Cleroidea and Cucujoidea*. Stenstrup: Apollo Books, 935 pp.
- HÁVA J. 2013: A new species of *Orphinus* Motschulsky, 1858 from China (Coleoptera: Dermestidae). *Entomologische Zeitschrift, Stuttgart* 123: 25-26.
- HÁVA J. 2015: *World Catalogue of Insects. Volume 13. Dermestidae (Coleoptera)*. Leiden/Boston: Brill, xxvi + 419 pp.
- HERRMANN A., HÁVA J. & ZHANG S. 2011. A contribution to knowledge of Dermestidae (Coleoptera) from China. *Studies and Reports, Taxonomical Series* 7: 131-138.
- HUA LI-ZHONG 2002. *List of Chinese Insects. Vol. II*. Zhongshan (Sun Yat-sen) University Press: Guangzhou, China, 612 pp.