

**Study of the genus *Orphinus* Motschulsky, 1858.  
Part 2 - species from the Palaearctic Region  
(Coleoptera: Dermestidae: Megatominae)**

Jiří HÁVA

Forestry and Game Management Research Institute,  
Strnady 136, CZ-156 00 Praha 5 - Zbraslav, Czech Republic  
e-mail: jh.dermestidae@volny.cz

**Taxonomy, new species, new records, Coleoptera, Dermestidae, Megatominae, *Orphinus*, Palaearctic Region**

**Abstract.** The following four new species are described, illustrated and compared with similar species: *Orphinus* (*O.*) *borowskii* sp. nov. (China: Taiwan); *O.* (*F.*) *turnai* sp. nov. (China: Hubei); *O.* (*O.*) *ludmilae* sp. nov. (China: Yunnan); *O.* (*O.*) *bengalensis* sp. nov. (India: Darjeeling). The following species are newly recorded: *Orphinus* (*O.*) *unifasciatus* Háva, 2006 (Nepal) and *O.* (*O.*) *petri* Háva, 2013 (China: Beijing). Species recorded from the Palaearctic Region are listed.

INTRODUCTION

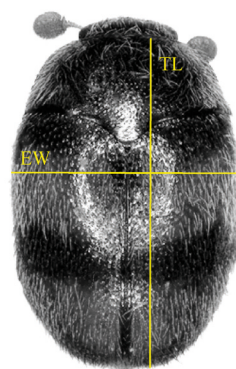
The dermestid genus *Orphinus* Motschulsky, 1858 comprises four subgenera and currently contains 137 species worldwide (Háva 2015, 2020a). In the present article, 5 new species collected in China and north India are described. The article is a continuation of a series of previous articles about *Orphinus* species from Oriental and Palaearctic Regions (Háva 2004, 2008, 2012, 2013a-c, 2014, 2015b-c, 2016a-f, 2017a-c, 2018a-b, 2020b-c, Háva & Kadej 2014, 2016, Herrmann & Háva 2014, 2015, 2018, 2020, Herrmann et al. 2011, Kadej et al. 2015, Kadej & Háva 2014, Kitano 2013, Kitano & Háva 2013, 2018) and a first part of the study from Afrotropical Region (Háva 2020c).

MATERIAL AND METHODS

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

TL total length - linear distance from anterior margin of pronotum to apex of elytra.

EW elytral width - maximum linear transverse distance.



The following collections codes is used:

HNHM Hungarian Natural History Museum, Budapest, Hungary;

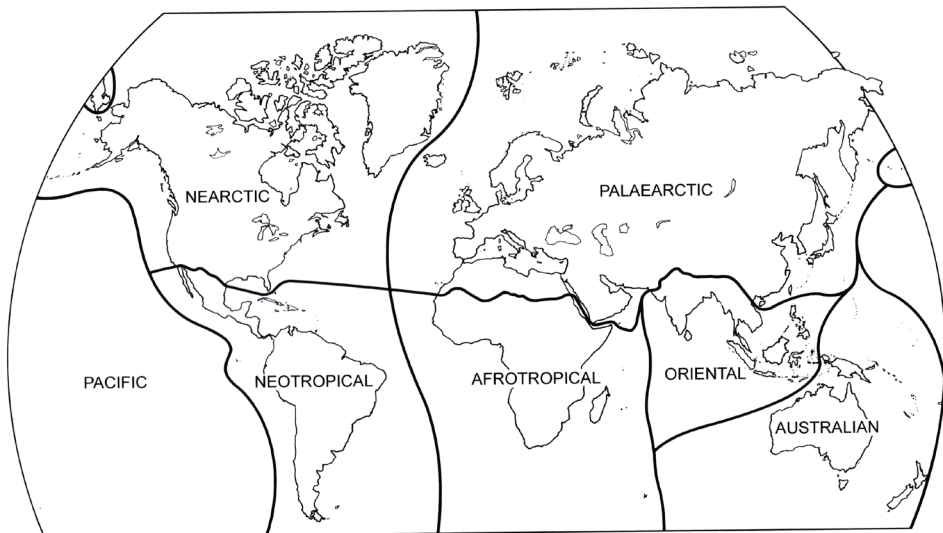
JHAC Jiří Háva, Private Entomological Laboratory & Collection, Únětice u Prahy, Prague-West, Czech Republic;

NMPC National Museum, Praha, Czech Republic.

Specimens of the presently described species are provided with red, printed labels with the text as follows: “HOLOTYPE [or PARATYPE, respectively] *name of taxon* sp. nov. Jiří Háva det. 2020”.

Nomenclature and systematics used in the present paper follow Háva (2015).

Geographic Regions follow the Palaearctic Catalogue (Map. 1). For the article purposes, Asia includes Sinai and the Arabian Peninsula (including Soqotra), Turkey east of the Bosphorus, the Middle East and Central Asian countries, Russia east of the main ridge of the Ural mountains, North Korea, Japan (including Ryukyu (= Nansei-shotô) Islands and the Japanese Pacific Islands), the entire People’s Republic of China, Taiwan, Bhutan, Nepal, North India along the base of the Himalaya (Arunachal Pradesh, Uttarakhand (= Uttaranchal), north-western area of former Uttar Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim) and all of Pakistan. Thus, India is the only state for which the strict political boundaries are not respected. Large parts of Uttar Pradesh south of Nepal are overpopulated plains. Information on Coleoptera from this North Indian state is based almost exclusively on its former Himalayan districts lying west of Nepal, which are in the present state Uttarakhand. Nevertheless, data from the actual Uttar Pradesh are accepted for taxa that may transit northwards.



Map. 1. The limits of geographic Regions.

## RESULTS

### **Genus *Orphinus* Motschulsky, 1858**

<b>Subgenus/region</b>	AF	AU	NE	NT	OR	PA
<i>Curtorphinus</i>					2	1
<i>Falsoorphinus</i>					6	11
<i>Orphinus</i>	26	21	2	1	48	23
<i>Picorphinus</i>					1	

Distribution of species in Regions (not included here described new taxa): AF - Afrotropical, AU - Australian, NE - Nearctic, NT - Neotropical, OR - Oriental, PA - Palearctic.

<b>Subgenus/subregion</b>	EU	ME	CA	EP
<i>Curtorphinus</i>			1	
<i>Falsoorphinus</i>			9	4
<i>Orphinus</i>	1 <sup>i</sup>	4	20	5
<i>Picorphinus</i>				

Distribution of species in Palearctic Subregions (not included here with the new taxa described): EU - Euro-Siberian, ME - Mediterranean, CA - Central-Asian, EP - East-Palearctic, i - introduced.

### **Species from Nepal**

#### ***Orphinus (Orphinus) unifasciatus* Háva, 2006**

**Material examined:** Nepal, Myagdi Distr., Mahabhir to Beg Khola, 1000-1500 m, 15.v.1995, 1 ♀, J. Háva det., (JHAC).

**Distribution.** Species known from India: Uttaranchal Pradesh, Himachal Pradesh, new for Nepal.

### **Species from north India**

#### ***Orphinus (Orphinus) bengalensis* sp. nov.**

(Figs. 1-3)

**Type material.** Holotype (♀): India, W Bengal, Darjeeling Distr., Goomti, 1200 m / sifted mosses on trees, 27-30.v.1980, (JHAC).

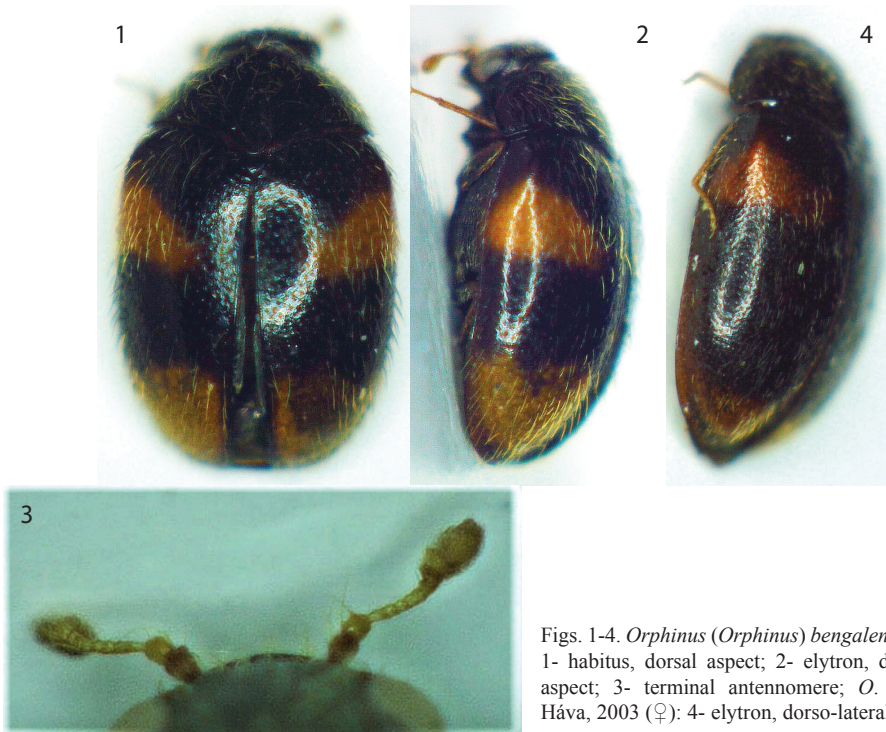
**Description.** Female. Body oval, TL 2.3 mm, EW 1.5 mm. Head, pronotum, scutellum and elytra black, shiny, each elytron black with two orange patterns (Fig. 1), dark brown on venter. Head finely punctate with long, recumbent, yellow setation. Palpi brown; setation on mentum denser. Eyes large, with yellow microsetae. Ocellus on frons present. Antennae brown with yellow setae, with 11 antennomeres, antennal club with 2 antennomeres,

terminal antennal segment circular (Fig. 3). Pronotum black, disc finely punctate, densely foveolate posteriorly, with long, recumbent, yellow setae. Scutellum black, triangular, shiny, without setation. Elytra coarsely punctate; humerus with one small bump; elytral surface with long, recumbent yellow and brown setation; each elytron with two orange patterns with yellow setation (Figs. 1-2). Epipleuron brown, anteriorly broad, finely punctate, with short, yellow setation. Legs: femora dark brown, tibiae yellowish-brown with yellow setation. Mesosternum coarsely punctate laterally, otherwise finely punctate, covered by long, recumbent, yellow setation. Pygidium dark brown, with brown setation. Abdominal visible ventrites brown, with short, recumbent, yellow setation.

Male. Unknown.

**Differential diagnosis.** The new species is similar to *O. (O.) kresli* Háva, 2003, but differs from it by the structure of antennae and arrangement of elytral spots; from *O. (F.) weigeli* Herrmann, Háva & Kadej, 2014, it differs by the circular terminal antennomere and arrangement of elytral spots.

**Etymology.** Toponymic, named after the type locality - Bengal.



Figs. 1-4. *Orphinus (Orphinus) bengalensis* sp. nov.: 1- habitus, dorsal aspect; 2- elytron, dorso-lateral aspect; 3- terminal antennomere; *O. (O.) kresli* Háva, 2003 (♀): 4- elytron, dorso-lateral aspect.

## Species from China

### *Orphinus (Orphinus) beali* Herrman, Háva & Zhang, 2011

**Material examined:** „China, Sichuan Prov., Moxi env., Hailuogou vall., near Cableway Station, 3050 m, 29°34'4''N 101°59'5''E / 18-21.vi.2014, mixed forest with *Abies*, *Betula*, *Rhododendron*, broadleaved trees, J. Hájek, J. Růžička & M. Tkoč leg.“, 1 ♂, J. Háva det., (NMPC).

**Distribution.** Species known from China: Sichuan, new locality data from Sichuan.

### *Orphinus (Orphinus) petri* Háva, 2013

**Material examined:** „China centr., Beijing, 20.5.[19]89, O. Majzlan lgt.“, 1 ♀, J. Háva det., (JHAC).

**Distribution.** Species known from China: Hebei, new to Beijing.

### *Orphinus (Falsoorphinus) turnai* sp. nov.

(Figs. 5-7)

**Type material.** Holotype (♀): „China, E Hubei, Dabie Shan, Wujiashan forest park, 31° 1'N 115°8'E, 18-19.vii.2003, J. Turna lgt.“, (JHAC).



Figs. 5-8. *Orphinus (Falsoorphinus) turnai* sp. nov.: 5- habitus, dorsal aspect; 6- elytron, dorso-lateral aspect; 7- terminal antennomere; *O. (F.) yeti* Háva, 2008: 8- elytron, dorso-lateral aspect.

**Description.** Female. Body oval, TL 1.8 mm, EW 1.2 mm. Head, pronotum, scutellum, dark brown, matt, elytra dark brown with orange spot and apical part, matt (Fig. 9), dark brown on venter. Head finely punctate with long, recumbent, intermixed white and yellow setation. Palpi brown; setation on mentum denser. Eyes large, with yellow microsetae. Ocellus on frons present. Antennae brown with yellow setae, with 11 antennomeres, antennal club with 2 antennomeres, terminal antennal segment oval (Fig. 11). Pronotum dark brown, laterally lighter brown, disc finely punctate, densely foveolate posteriorly, with long, recumbent, intermixed white and yellow setation. Scutellum dark brown, triangular, without setation. Elytra finely punctate; humerus with one small bump; elytral surface with long, recumbent white and yellow setation; each elytron with one orange triangular anterior spot reaching to lateral part but not reaching to humeri, and orange apical part (Fig. 10). Epipleuron brown, anteriorly broad, finely punctate, with short, white setation. Legs brown with yellow setation. Mesosternum coarsely punctate laterally, otherwise finely punctate, covered by long, recumbent, yellow setation. Pygidium dark brown with yellow setation. Abdominal visible ventrites dark brown, with short, recumbent, yellow setation.

Male. Unknown.

**Differential diagnosis.** The new species is very similar to *O. (F.) yeti* Háva, 2008, but differs from it by the structure of terminal antennomere, dense setation on pronotum and arrangement of elytral spots (triangular anterior spot reaching to lateral part but not reaching to humeri - new species; triangular anterior spot reaching to lateral part and reaching to humeri - *yeti*).

**Etymology.** Patronymic, dedicated to Czech coleopterologist and collector of the new species Jaroslav Turna (Czech Republic).

***Orphinus (Orphinus) ludmilae* sp. nov.**

(Figs. 9-12)

**Type material.** Holotype (♂): „China SE, Yunnan prov., Guangnan, Kuisheng, 23°59'N 105°03'E, 1500 m, 26.v.2017, Jatua lgt.“, (JHAC).

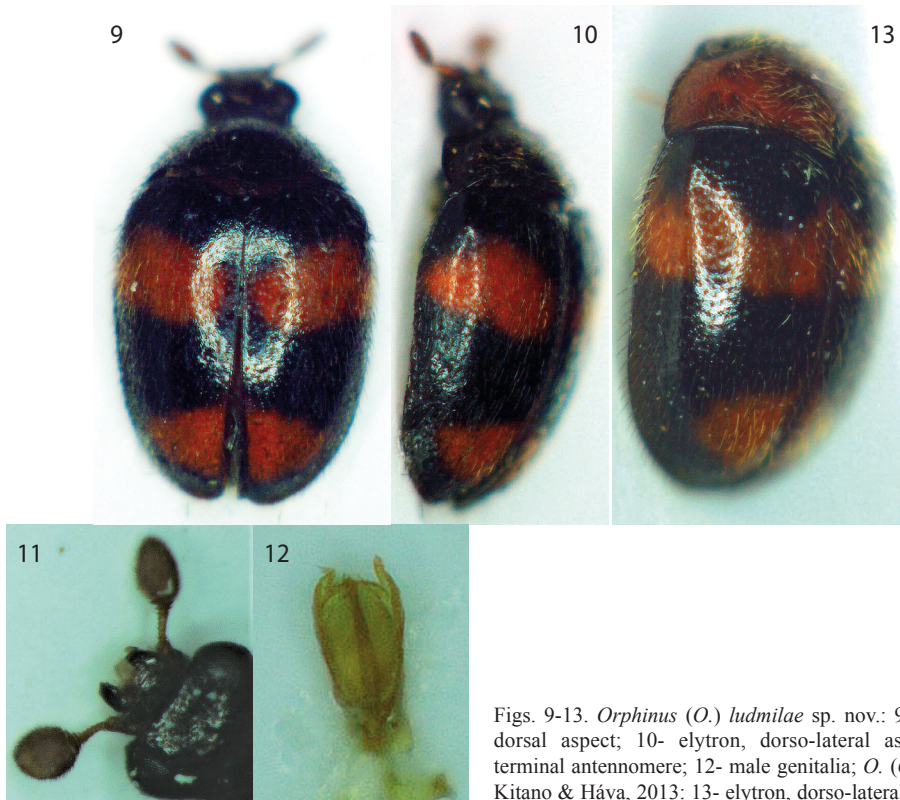
**Description.** Male. Body oval, TL 2.4 mm, EW 1.6 mm. Head, pronotum, scutellum black, shiny, elytra black with reddish spots, shiny, (Figs. 13-14), black on venter. Head finely punctate with long, recumbent, yellow setation. Palpi brown; setation on mentum denser. Eyes large, with yellow microsetae. Ocellus on frons present. Antennae brown with yellow setae, with 11 antennomeres, antennal club with 2 antennomeres, terminal antennal segment circular and large (Fig. 15). Pronotum black, disc finely punctate, densely foveolate posteriorly, with long, recumbent, yellow setae. Scutellum black, triangular, without setation. Elytra black, finely punctate; humerus with one small bump; elytral surface with long, recumbent brown setation, each elytron with two reddish spots covered by yellow setation. Epipleuron black, anteriorly broad, coarsely punctate, with short, yellow setation. Legs dark brown with short, yellow setation. Mesosternum coarsely punctate laterally,

otherwise finely punctate, covered by long, recumbent, yellow setation. Pygidium dark brown, with black setation. Abdominal visible ventrites black, with short, recumbent, black setation. Male genitalia (Fig. 16).

Female. Unknown.

**Differential diagnosis.** The new species very similar to *O. (O.) horaki* Kitano & Háva, 2013, but differs from it by the arrangement of elytral spots, unicolorously black pronotum, structure of antennae and male genitalia.

**Etymology.** Patronymic, dedicated memoriam to my mom Ludmila Hávoová (\*1945-†2020).



Figs. 9-13. *Orphinus (O.) ludmilae* sp. nov.: 9- habitus, dorsal aspect; 10- elytron, dorso-lateral aspect; 11- terminal antennomere; 12- male genitalia; *O. (O.) horaki* Kitano & Háva, 2013: 13- elytron, dorso-lateral aspect.

## Species from Taiwan

### *Orphinus (Orphinus) borowskii* sp. nov.

(Figs. 14-17)

**Type material.** Holotype (♂): Taiwan, Heshhe, Nantou County, 2-17.vi.2008, J. Borowski lgt., (JHAC).

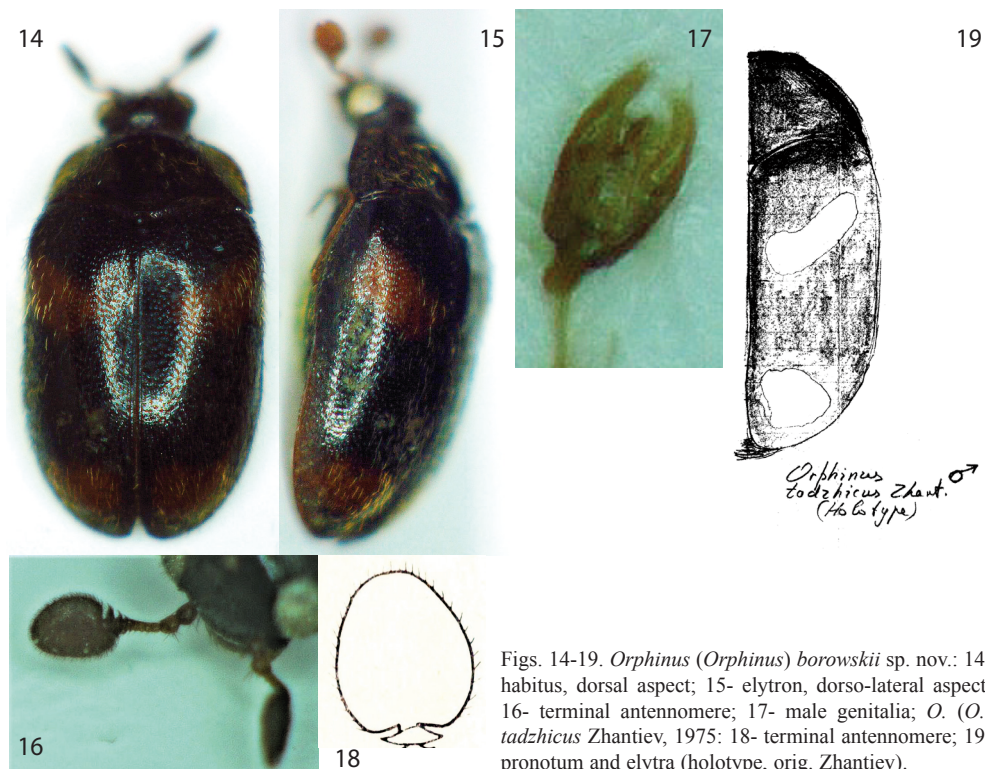
**Description.** Male. Body parallel, TL 2.5 mm, EW 1.5 mm. Head, pronotum, scutellum and elytra black, shiny, each elytron black with reddish spots (Figs. 18-19), black on venter. Head finely punctate with long, recumbent, yellow setation. Palpi brown; setation on mentum denser. Eyes large, with yellow microsetae. Ocellus on frons present. Antennae brown with black setae, with 11 antennomeres, antennal club with 2 antennomeres, terminal antennal segment circular (Fig. 20). Pronotum black, disc finely punctate, densely foveolate posteriorly, with long, recumbent, yellow setae. Scutellum black, triangular, without setation. Elytra black, finely punctate, humerus with one small bump, elytral surface with long, recumbent yellow and brown setation, each elytron with two small reddish spots covered by yellow setation. Epipleuron black, anteriorly broad, coarsely punctate, with short, yellow setation. Legs brown with yellow setation. Mesosternum coarsely punctate laterally, otherwise finely punctate, covered by long, recumbent, yellow setation. Pygidium dark brown to black, with brown setation. Abdominal visible ventrites black, with short, recumbent, brown setation. V visible ventrite with small circular depressions. Male genitalia (Fig. 21).

Female. Unknown.

**Differential diagnosis.** The new species extremely similar to *O. (O.) tadzhicus* Zhantiev, 1975, but differs from it by the broad form of pronotum and structure of terminal antennomere.

**Etymology.** Patronymic, dedicated to collector of the new species Jerzy Borowski (Poland), world specialist in Bostrichidae (Coleoptera).





Figs. 14-19. *Orphinus (Orphinus) borowskii* sp. nov.: 14- habitus, dorsal aspect; 15- elytron, dorso-lateral aspect; 16- terminal antennomere; 17- male genitalia; *O. (O.) tadzhicus* Zhantiev, 1975: 18- terminal antennomere; 19- pronotum and elytra (holotype, orig. Zhantiev).

## LIST OF PALAEARCTIC ORPHINUS SPECIES

### Genus *Orphinus* Motschulsky, 1858

#### Subgenus *Curtorphinus* (Pic, 1954)

*O. bicolor* (Pic, 1954)

China: Fujian; Taiwan

#### Subgenus *Falsoorphinus* Pic, 1931

*O. barthelemyi* Kadej, Aston, Háva & Herrmann, 2015

China: Hong Kong

*O. bengalensis* sp. nov.

India: Darjeeling

*O. chinensis* Háva, 2004

China: Hebei

*O. meiyingae* Herrmann, Háva & Zhang, 2011

China: Beijing

*O. motykai* Háva, 2020

Japan: Iriomote

*O. mroczkowskii* Háva & Kadej, 2006

North Korea

*O. okinawanus* Háva, 2006

Japan: Okinawa

*O. ovalis* (Arrow, 1915)

China: Fujian

*O. pseudoovalis* Háva, 2004

China: Hong Kong, Hubei, Hunan, Jiangxi;  
Vietnam

*O. quadrimaculatus* (Matsumura & Yokoyama, 1928)

Japan: Honshu, Kyushu, Ryukyu

*O. turnai* sp. nov.

China: Hubei

*O. weigeli* Herrmann, Háva & Kadej, 2014  
*O. yeti* Háva, 2008

Nepal  
India: Assam, Meghalaya,  
Uttarakhand; Nepal

**Subgenus *Orphinus* s. str.**

*O. arun* Háva, 2018  
*O. beali* Herrmann, Háva & Zhang, 2011  
*O. bipunctatus* (Matsumura & Yokoyama, 1928)  
*O. borowskii* sp. nov.  
*O. changdoi* Kadej & Kitano, 2010  
*O. fulvipes* (Guérin-Méneville, 1838)  
*O. globulicornis* (Reitter, 1908)  
*O. hartmanni* Háva, 2001  
*O. hrdlickai* Háva, 2016  
*O. japonicus* Arrow, 1915<sup>1</sup>  
*O. jucundus* Arrow, 1915  
*O. kabakovi* Háva & Kadej, 2014  
*O. kabateki* Háva, 2007  
*O. kamezawai* Kitano & Háva, 2018  
*O. kresli* Háva, 2003  
*O. ludmilae* sp. nov.  
*O. nilgirensis* Arrow, 1915  
*O. ornatus* Háva, 2016  
*O. pakistanus* Kadej & Háva, 2015  
*O. petri* Háva, 2013  
*O. socotrensis* Háva, 2007  
*O. tadzhicus* Zhantiev, 1975  
*O. unifasciatus* Háva, 2006  
  
*O. xianae* Herrmann, Háva & Zhang, 2011  
*O. yunnanus* Háva, 2004

Nepal  
China: Shaanxi, Sichuan, Yunnan  
Japan  
China: Taiwan  
North Korea  
cosmopolitan  
Egypt; Syria  
Bhutan; N India; Nepal  
China: Taiwan  
Japan  
India: Maharashtra; Pakistan  
Afghanistan  
Yemen: Socotra I.  
Japan  
Nepal  
China: Yunnan  
India: Kashmir, Nilgiri Hills  
China: Yunnan  
Pakistan  
China: Beijing, Hebei  
Yemen: Socotra I.  
Tadzhikistan  
India: Himachal Pradesh, Uttaranchal  
Pradesh; Nepal  
China: Beijing, Hebei  
China: Yunnan

<sup>1</sup>Records of *O. japonicus* Arrow, 1915 from China: Beijing and Yunnan probably belong to *O. petri* Háva, 2013 and *O. yunnanus* Háva, 2004, respectively.

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