

## Contribution to the Dermestidae of Hong Kong (Coleoptera: Bostrichoidea)

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### ABSTRACT

A list of all known dermestid species from Hong Kong is provided. *Orphinus (Falsoorphinus) pseudoovalis* Háva, 2004 and *Evorinea indica* (Arrow, 1915) are recorded from Hong Kong for the first time.

**Key words:** Coleoptera, Dermestidae, Orphinus, faunistics, China, Hong Kong.

### INTRODUCTION

The family Dermestidae is one of the best known beetle families and currently contains about 1,300 species and subspecies worldwide (Háva 2009). From Hong Kong, 15 species were previously known (Háva 2009). We report two additional species newly recorded, and provide notes below on other recently collected material. A synonymic list of all 17 species known from Hong Kong is also provided.

Members of the Dermestidae are oblong to broadly ovate beetles, almost always clothed in erect or decumbent hairs or scales. The larvae usually feed on dry material of animal origin. Adults of some genera feed on pollen or nectar, others on the larval food and yet others do not feed at all. The family includes several cosmopolitan pests of stored food and other products of animal origin like wool, leather and also collections of dried insects.

### METHODS

The majority of material was collected by Paul Aston on Lantau Island. Additional material collected by G.M de Rougemont and Jason F. Maté from other parts of Hong Kong is also included. Identifications of specimens were made by the two senior authors.

The following abbreviations refer to the collections where the examined material is deposited:

AHEC - private collection of Andreas Herrmann, Stade, Germany;  
 JHAC - private entomological laboratory and collection, Jiří Háva, Prague-west, Czech Republic;  
 NMPC - Czech Republic, Prague, National Museum (Natural History).

We follow the systematics of Dermestidae proposed by Háva (2004) and Lawrence & Slipinski (2005).  
 The distribution of Dermestidae is taken from Háva (2007: 2009).

### THE SPECIES

Subfamily Trinodinae  
 Tribe Trinodini

#### *Evorinea indica* (Arrow, 1915)

**Material examined:** China: Hong Kong, Wang Tong Village, Lantau Island, 2.viii.2009 leg. Paul Aston, 1 female (AHEC).

New species for Hong Kong.

Subfamily Attageninae  
 Tribe Attagenini

#### *Attagenus (Aethriostoma) undulatus* (Motschulsky, 1858)

**Material examined:** China: Hong Kong, Mui Wo, Lantau Island, 2.x.2006 leg. Paul Aston, 1 female (AHEC).

Subfamily Megatominae  
 Tribe Megatomini

#### *Orphinus (Falsoorphinus) pseudoovalis* Háva, 2004

**Material examined:** China: Hong Kong, on flowers (unidentified) mid-slopes of Sunset Peak, Lantau Island ca 500 m altitude. 27.xi.2009 leg. Paul Aston, 1 female (AHEC). Wang Tong Village, Mui Wo, Lantau Island, on "Turn in the Wind Tree" (*Mallotus paiculatus* Muell.). 26.iv.2008 leg. Paul Aston, 1 female (AHEC). Wang Tong Village, Mui Wo, Lantau Island, in flowers of "Elephant Ear Tree" (*Macaranga tanarius* Muell.) 26.iv.2009 leg. Paul Aston, 1 male (AHEC).

New species for Hong Kong.

#### *Orphinus (Orphinus) fulvipes* (Guérin-Méneville, 1838)

**Material examined:** China: Hong Kong, Jardine's Lookout, 26.iv.2001, leg. J. F. Maté, 1 ex. (AHEC).

#### *Thaumaglossa herrmanni* Háva, 2003

**Material examined:** China: Hong Kong, Wang Tong Village, Mui Wo, Lantau Island, in flowers of "Elephant Ear Tree" (*Macaranga tanarius* Muell.), 26.iv.2009 leg. Paul Aston, 1 male (AHEC). Jardine's Lookout, 26.iv.2001, leg. J. F. Maté, 1 male (holotype, NMPC).

***Thaumaglossa cf. herrmanni* Háva, 2003**

**Material examined:** China: Hong Kong, Wang Tong Village, Mui Wo, Lantau Island, 30.v.2009 leg. Paul Aston, 1 female (AHEC).

The female specimen is similar to *T. herrmanni*, but slightly differs in elytral coloration. A large series from the same locality will be needed for determination.

***Thaumaglossa rufocapillata* Redtenbacher, 1867**

**Material examined:** China: Hong Kong, on flowers (unidentified) mid slopes of Sunset Peak, Lantau Island ca 500m altitude, 6.vii.2009 leg. Paul Aston, 1 female (AHEC). Pui O Village, Lantau Island, 7.viii.2009 leg. Paul Aston, 1 female (AHEC). Wang Tong Village, Mui Wo, Lantau Island, 16.ix.2009 leg. Paul Aston, 1 male (AHEC). On flowers (unidentified) mid-slopes of Sunset Peak, Lantau Island ca 500m altitude, 27.ix.2009 leg. Paul Aston, 1 male (AHEC). New Territories. Kadoorie Agricultural Research Centre, flight interception trap, vi.1996, Rougemont leg., 1 male (JHAC).

SYNONYMIC LIST OF ALL KNOWN DERMESTIDAE RECORDED  
FROM HONG KONG

Subfamily Dermestinae  
Tribe Dermestini

*Dermestes (Dermestes) ater* DeGeer, 1774

Syn.: *Dermestes cadaverinus* Fabricius, 1775

*Dermestes piceus* Thunberg, 1781

*Dermestes felinus* Fabricius, 1787

*Dermestes domesticus* Germar, 1824

*Dermestes cinereus* Motschulsky, 1848

*Dermestes hispidulus* Montrouzier, 1860

*Dermestes chinensis* Motschulsky, 1866

*Dermestes subcostatus* Murray, 1867

*Dermestes noxius* Mulsant et Rey, 1867

*Dermestes domesticus* var. *subsulcatus* Ballion, 1878

*Dermestes favarcqui* Godard, 1883

*Dermestes rufoapicalis* Pic, 1951

Distribution: cosmopolitan species.

*Dermestes (Dermestes) lardarius* Linnaeus, 1758

Syn.: *Dermestes lardarius* var. *conjunctus* Reitter, 1887

*Dermestes lardarius* var. *proximus* Reitter, 1887

*Dermestes luganensis* Stierlin, 1902

*Dermestes lardarius* var. *atrobasalis* Pic, 1951

Distribution: cosmopolitan species.

*Dermestes (Dermestinus) carnivorus* Fabricius, 1775

Syn.: *Dermestes carniforus* (emend. by Goeze, 1777)

*Dermestes versicolor* Laporte, 1840

*Dermestes mucoreus* LeConte, 1854

*Dermestes sobrinus* LeConte, 1854

*Dermestes muscoreus* Reitter, 1881

*Dermestes impressicollis* Reitter, 1881

*Dermestes carnivorus* var. *doemmlingi* Meier, 1899

*Dermestes unicolor* Lepesme, 1950

Distribution: cosmopolitan species.

*Dermestes (Dermestinus) frischii* Kugelann, 1792

Syn.: *Dermestes vulpinus* Herbst in Jablonsky, 1792

*Dermestes pollinctus* Hope in Pettigrew, 1834

*Dermestes frischii* ab. *uniformis* Rey, 1889

*Dermestes Frischii* ssp. *Heyrovskyi* Obenberger, 1917

*Dermestes frischii* var. *rufimembris* Pic, 1951

*Dermestes frischii* var. *sternimaculatus* Marcu, 1957

Distribution: cosmopolitan species.

*Dermestes (Dermestinus) maculatus* DeGeer, 1774

Syn.: *Dermestes marginatus* Thunberg, 1781

*Dermestes vulpinus* Fabricius, 1781

*Dermestes australis* Dejean, 1821 (nn)

*Dermestes senex* Germar, 1824

*Dermestes lateralis* Sturm, 1826 (nn)

*Dermestes senegalensis* Christofori et Jan, 1832 (nn)

*Dermestes lupinus* Christofori et Jan, 1832 (nn)

*Dermestes elongatus* Hope in Pettigrew, 1834

*Dermestes roei* Hope in Pettigrew, 1834

*Dermestes lupinus* Mannerheim, 1843

*Dermestes semistriatus* Boheman, 1851 (pars)

*Dermestes cinereus* Redtenbacher, 1867

*Dermestes vulpinus* var. *rattulus* Mulsant et Rey, 1867

*Dermestes vulpinus* var. *sudanicus* Gredler, 1878

*Dermestes truncatus* Casey, 1916

*Dermestes maculatus* var. *kurseongensis* Lepesme, 1939

*Dermestes maculatus* var. *cyprius* Pic, 1951

*Dermestes maculatus* ssp. *pakistanicus* Havelka, 1951

*Dermestes maculatus* ab. *nigropubescens* Kalik, 1955

Distribution: cosmopolitan species.

Subfamily Trinodinae

Tribe Trinodini

\**Evorinea indica* (Arrow, 1915)

Syn.: *Apsectus indicus* Arrow, 1915

*Evorinea hisamatsui* Ohbayashi, 1977

Distribution: China: Guangdong, India, Japan, Taiwan

Subfamily Attageninae

Tribe Attagenini

*Attagenus (Aethriostoma) undulatus* (Motschulsky, 1858)

Syn.: *Aethriostoma undulata* Motschulsky, 1858

*Attagenus rufipes* Walker, 1859

*Pseudotelopes testaceipes* Pic, 1916

*Pseudotelopes simoni* Pic, 1916

Distribution: Comoros, Madagascar, Mauritius, Seychelles, Buru I., Cambodia, S China, India, Indonesia, Laos, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam, Hawaiian Is., Papua New Guinea, S. Mariana Is.

*Attagenus (Attagenus) fasciatus* (Thunberg, 1795)  
 Syn.: *Anthrenus fasciatus* Thunberg, 1795  
*Anthrenus gloriosae* Fabricius, 1798  
*Attagenus annulatus* Dejean, 1821  
*Attagenus annulifer* Laporte, 1840  
*Attagenus cinnamomeus* Roth, 1851  
*Attagenus unifasciatus* Fairmaire in Fairmaire et Coquerel, 1860  
*Trogoderma subfasciatum* Chevrolat, 1863  
*Attagenus plebeius* Sharp in Blackburn et Sharp, 1885  
*Attagenus gossypiatum* Fauvel, 1903

Distribution: cosmopolitan species.

*Attagenus (Attagenus) unicolor* (Brahm, 1791)  
 Syn.: *Dermestes piceus* Olivier, 1790  
*Dermestes unicolor* Brahm, 1790  
*Megatoma brevicornis* Herbst, 1792  
*Dermestes megatoma* Fabricius, 1798  
*Nitidula cylindricornis* Schrank, 1798  
*Dermestes cilindricornis* Melsheimer, 1806  
*Dermestes floricola* Melsheimer, 1806  
*Dermestes obscurus* Melsheimer, 1806  
*Dermestes schaefferi* C. Sahlberg, 1819  
*Attagenus cylindricornis* Say, 1825  
*Dermestes macellarius* Duftschmid, 1825  
*Attagenus urbicola* Gistel, 1857  
*Attagenus stygialis* Mulsant et Rey, 1868  
*Attagenus fulvipes* Mulsant et Rey, 1868  
*Attagenus japonicus* Reitter, 1877  
*Attagenus cylindricornis* Casey, 1900  
*Attagenus nankineus* Pic, 1916  
*Attagenus canadensis* Casey, 1916  
*Attagenus amurensis* Pic, 1942  
*Attagenus amurensis* Pic, 1943

Distribution: cosmopolitan species.

Subfamily Megatominae  
 Tribe Anthrenini

*Anthrenus (Anthrenodes) maculifer* Reitter, 1881  
 Syn.: *Anthrenus globiger* Arrow, 1915  
*Anthrenus multimaculatus* Pic, 1918  
 Distribution: China, India, Indonesia: Mentawai Isl., Sumatra, Japan, Laos, Malaysia, Sabah, Sarawak, Myanmar, Nepal, Taiwan, Thailand, Vietnam.

*Anthrenus (Anthrenus) flavipes* LeConte, 1854  
 Syn.: *Anthrenus pimpinellae* var. *cinnamomeus* Gredler, 1878  
*Anthrenus fasciatus* Reitter, 1881  
*Anthrenus vorax* Waterhouse, 1883  
*Anthrenus fasciatus* var. *albo-impletus* J. Sahlberg, 1903  
*Anthrenus seminiveus* Casey, 1916  
 Distribution: cosmopolitan species.

*Anthrenus (Nathrenus) verbasci* (Linnaeus, 1767)  
 Syn.: *Byrrhus verbasci* Linnaeus, 1767

*Bostrichus varius* Fabricius, 1775  
*Anthrenus florilegus* Fourcroy, 1785  
*Anthrenus adpersus* Herbst, 1797  
*Anthrenus tricolor* Herbst, 1797  
*Anthrenus pictus* Germar, 1813  
*Anthrenus tomentosus* Thunberg, 1815  
*Anthrenus destructor* Melsheimer, 1844  
*Anthrenus nitidulus* Küster, 1847  
*Anthrenus funebris* Reitter, 1889

Distribution: cosmopolitan species.

\**Orphinus (Falsoorphinus) pseudoovalis* Háva, 2004  
 Distribution: China: Hubei

*Orphinus (Orphinus) fulvipes* (Guérin-Méneville, 1838)  
 Syn.: *Globicornis fulvipes* Guérin-Méneville, 1838  
*Trogoderma brasiliensis* Reitter, 1881  
*Cryptorhopalum brevicorne* Sharp in Blackburn & Sharp, 1885  
*Trogoderma unicolor* Kolbe, 1910  
*Trogoderma ruficeps* Pic, 1937

Distribution: cosmopolitan species.

*Thaumaglossa herrmanni* Háva, 2003  
 Distribution: HongKong

*Thaumaglossa laeta* Arrow, 1915  
 Syn.: *Orphilus bimaculatus* Matsumura et Yokoyama, 1928  
 Distribution: China, Indonesia (Flores), Japan, Laos, Philippines, Taiwan, Thailand, Vietnam.

*Thaumaglossa rufocapillata* Redtenbacher, 1867  
 Syn.: *Anthrenus ovalis* Fleutiaux, 1887  
*Aethriostoma atricolor* Pic, 1915  
*Orphiloides ovivorus* Matsumura et Yokoyama, 1928  
*Thaumaglossa pygidialis* var. *sinensis* Pic, 1951  
*Thaumaglossa pygidialis* var. *sumatrana* Pic, 1951  
*Thaumaglossa africana* Kalik, 1955

Distribution: Germany (intr.), Netherlands (intr.), Cameroon, Congo, Kenya, Madagascar, Nigeria, Tanzania, Zimbabwe, China, India, Indonesia, Japan, Korea, Laos, Malaysia, Nepal, Taiwan, Thailand, Vietnam.

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#### FIGURES

Figure 1. *Evorinea indica* (Arrow, 1915) Female. Wang Tong Village, Mui Wo, Lantau Island, 2 July 2009.



Figure 2. *Attagenus (Aethriostoma) undulatus* (Motschulsky, 1858). female. Mui Wo, Lantau Island, 2 December 2006.



Figure 3. *Orphinus (Falsoorphinus) pseudoovalis* Háva, 2004. Male left, female right 26 April 2008, Mui Wo, Lantau.

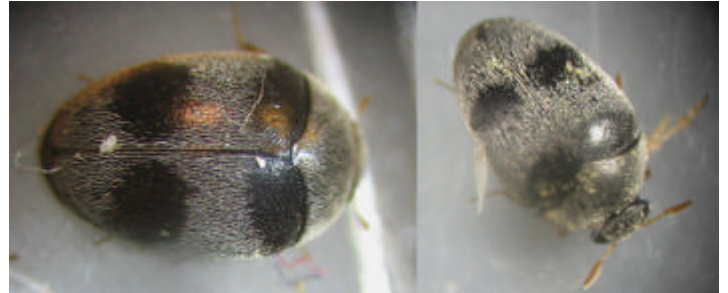


Figure 4. *Thaumaglossa herrmanni* Háva, 2003. male, Wang Tong, Mui Wo, Lantau 26 April 2009.

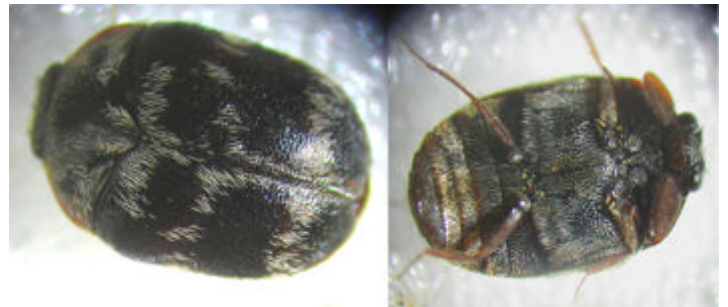


Figure 5. *Thaumaglossa cf. herrmanni* Háva, 2003. female Wang Tong Village, Mui Wo, Lantau Island, 30 May 2009.



Figure 6. *Thaumaglossa rufocapillata* Redtenbacher, 1867. Left: male 16 September 2009 Wang Tong, Mui Wo, Lantau. Right: female 7 August 2009 Pui O, Lantau.

