

A contribution to knowledge of Dermestidae (Coleoptera) from Cook Islands

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HÁVA, J. & McCORMACK, G.: *A contribution to knowledge of Dermestidae (Coleoptera) from Cook Islands.*

Abstract: The following species are newly recorded from the Cook Islands: *Anthrenus (Anthrenus) oceanicus* Fauvel, 1903, *Evorinea iota* (Arrow, 1915), *Orphinus (Orphinus) fulvipes* (Guérin-Méneville, 1838), *Dermestes (Dermestinus) carnivorus* Fabricius, 1775.

Keywords: faunistic, new records, Coleoptera, Dermestidae, Cook Islands.

Introduction

The family Dermestidae currently includes approximately 1750 species and subspecies worldwide (HÁVA 2022), from the Cook Islands the family is poorly known with only one species recorded (HÁVA 2004). Here we report new records for an additional four established species and a fifth species as a border interception.

Material and Methods

Species are arranged in alphabetical order, the nomenclature and zoogeography follow the catalogue of HÁVA (2015, 2022).

The following abbreviation refer to the collection, in which the examined materials are deposited:

CINH - Cook Islands Natural Heritage Trust, Rarotonga, Cook Islands



Fig. 1: Location of Cook Islands

Faunistic

Subfamily **Dermestinae**

Dermestes (Dermestinus) carnivorus Fabricius, 1775

Material examined: Cook Islands, Rarotonga, „found in a fish tin in building“, M. Poeschko lgt., 1 spec., J. Háva det., (CINH).

Distribution. A cosmopolitan species (HÁVA 2015, 2022), now introduced and established in the Cook Islands.

Subfamily **Megatomiinae**

Anthrenus (Anthrenus) oceanicus Fauvel, 1903 (Fig. 1)

Material examined: Cook Islands, Rarotonga, Tupapa, 4. 2010, G. McCormack lgt., NH074, 1 spec., J. Háva det., (CINH).

Distribution. A species known from Czech Republic (intr.); England (intr.); Malta (intr.); Egypt (intr.); Congo (intr.); Mauritius (intr.); Nigeria (intr.); Reunion (intr.); Tanzania (intr.); Hawaiian Is.; China (intr.): Guangdong, Jiangsu; India: Andhra Pradesh, Tamil Nadu; Indonesia: Java, Madura; Malaysia; Pakistan (intr.); Sri Lanka; Taiwan; Australia; French Polynesia: Tahiti; New Caledonia; Papua New Guinea (HÁVA 2015, 2022), now introduced and established in the Cook Islands.

Orphinus (Orphinus) fulvipes (Guérin-Ménéville, 1838)

Material examined: Cook Islands, Rarotonga, 2.2022, G. McCormack lgt., NH272, 1 ♀, J. Háva det., (CINH).

Distribution. A nearly cosmopolitan species (HÁVA 2015, 2022), now introduced and established in the Cook Islands.

Orphinus (Orphinus) terminalis (Sharp in Blackburn & Sharp, 1885)

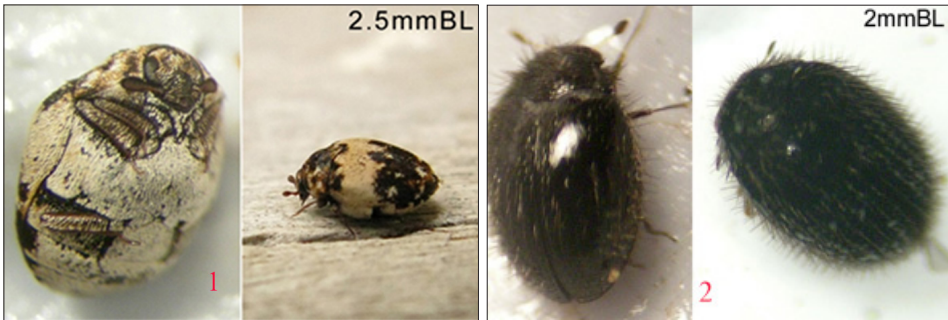
Remarks. The species from Cook Islands: Rarotonga recorded by HÁVA (2004).

Subfamily **Trinodinae**

Evorinea iota (Arrow, 1915) (Fig. 2)

Material examined: Cook Islands, Rarotonga, Tupapa, 10.2008, G. McCormack lgt., NH139, 1 spec., J. Háva det., (CINH).

Distribution. A species known from Kenya; Reunion; Bali; Cambodia; Japan; Java; Malaysia: Pahang, Sarawak; Myanmar; Philippines; Sri Lanka; Sulawesi; Sumatra; Taiwan; Thailand; Vietnam; Australia: Queensland; Caroline Is.; Kiribati (Gilbert Is.); Mariana Is.; Palau; Papua New Guinea; Ponape; Tanimbar Is.; Tonga; Truk; West Papua (HÁVA 2015, 2022), now introduced and established in the Cook Islands.



Figs. 1-2. Habitus: 1 - *Anthrenus (Anthrenus) oceanicus* Fauvel, 1903, 2 - *Evorinea iota* (Arrow, 1915) (photo by G. McCormack; BL - body length).

Remarks

Specimens of another cosmopolitan species *Trogoderma inclusum* LeConte, 1854 were found in June 2019 in a bag of Risotto rice from Italy being unpacked in a Rarotonga supermarket. Biosecurity was called and all the bags in the box were destroyed. Whether this interception was a complete success is unknown. The species was identified by Dr Disna Gunawardana, Senior Entomologist with New Zealand Biosecurity who was running a workshop on biosecurity on Rarotonga at the time. No specimen or photograph was kept.

Acknowledgements

The paper was supported by the Ministry of Agriculture of the Czech Republic, institutional support MZE-RO0118 (J. Háva).

References

- HÁVA, J. 2004: Descriptions of three new African species of *Anthrenus* O. F. Müller and notes about some other interesting Dermestidae. - *Annali del Museo Civico di Storia Naturale „G. Doria“* 96: 203-213.
- HÁVA, J. 2015: World Catalogue of Insects. Volume 13. Dermestidae (Coleoptera). - Leiden/Boston: Brill, xxvi + 419 pp.
- HÁVA, J. 2022: Dermestidae World (Coleoptera). - World Wide Web electronic publication (open in 2004): <http://www.dermestidae.wz.cz> (version 2018, update January 2022)