

First data concerning mites phoresia (Acari: Mesostigmata) upon beetles of the genus *Dermestes* Linnaeus, 1758 (Coleoptera: Dermestidae) from Central Bohemia (Czech Republic)

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Abstract: Data concerning mite phoresia upon beetles of the genus *Dermestes* Linnaeus, 1758 from Central Bohemia are reported for the first time. The mites *Poecilochirus necrophori* Vitzthum, 1930 and *Macrocheles glaber* (Muller, 1860) were found on *Dermestes (Dermestinus) undulatus* Brahm, 1790, *D. (D.) lanarius* Illiger, 1802 and *D. (D.) frischii* Kugelann, 1792.

Key words: Acari, Parasitidae, Macrochelidae, Coleoptera, Dermestidae, faunistics, central Bohemia, Czech Republic.

Primeros datos sobre folesia de ácaros (Acari) en escarabajos del género *Dermestes* Linnaeus, 1758 (Coleoptera: Dermestidae: Dermestini) de Bohemia central (República Checa)

Resumen: Se presentan por primera vez datos sobre folesia de ácaros en escarabajos del género *Dermestes* Linnaeus, 1758 de Bohemia central. Los ácaros *Poecilochirus necrophori* Vitzthum, 1930 y *Macrocheles glaber* (Muller, 1860) se encontraron sobre *Dermestes (Dermestinus) undulatus* Brahm, 1790, *D. (D.) lanarius* Illiger, 1802 y *D. (D.) frischii* Kugelann, 1792.

Palabras clave: Acari, Parasitidae, Macrochelidae, Coleoptera, Dermestidae, faunística, Bohemia central, República Checa.

Introduction

The gamasid mites (Acari: Mesostigmata) are carried from one food source to another by beetles of multiple genera in the beetle families Silphidae, Staphilinidae, Histeridae, Trogidae, Leiodidae: Catopinae, Cerambycidae, Erotylidae, Bostrichidae, Lucanidae, Cleridae, Chrysomelidae, Carabidae, Tenebrionidae, Geotrupidae and Scarabaeidae (Haitlinger, 2004; Pushkin, 2011) with they often have a symbiotic relationship in protecting the beetle's larva or its food supply from fly larva.

The data of gamasid mites (Acari: Mesostigmata) on Dermestidae (Coleoptera) upon genus *Dermestes* Linnaeus, 1758 species from Central Bohemia (Czech Republic) is unknown. In the present article presents the data of two species gamasid mites upon three *Dermestes* species.

Material and Methods

Species are arranged alphabetically, the nomenclature and zoogeography of Dermestidae (Coleoptera) follow Háva (2007), the nomenclature and zoogeography of Mites follow (Haitlinger, 2004; Pushkin, 2011).

Following abbreviations refer to the collections, in which the examined material is deposited: JHAC - Jiří Háva, Private Entomological Laboratory & Collection, Únětice u Prahy, Prague-west, Czech Republic.

Results

ACARI: MESOSTIGMATA

Family Parasitidae Oudemans, 1901

Poecilochirus necrophori Vitzthum, 1930

MATERIAL: CZ, Bohemia c. (5852), Únětice u Prahy, 20.5.2008, J. Háva lgt., numerous specimens on *Dermestes undulatus* Brahm, 1790 (with *Hister* sp., *Nicrophorus vespilloides* (Herbst, 1784)), (JHAC); CZ, Bohemia c. (5852), Roztoky u Prahy, 6.7.2014, J. Háva lgt., numerous specimens on *Dermestes lanarius* Illiger, 1802 (with *Nicrophorus vespilloides* (Herbst, 1784)), (JHAC); Mělník env. (6252), 12.8.2010, numerus specimen on *Dermestes frischii*

Kugelann, 1792 and *Dermestes murinus* Linnaeus, 1758, (JHAC); Hvozdnice (6152), 21.6.2014, numerus specimen on *Dermestes frischii* Kugelann, 1792, (JHAC).

REMARKS. The mite species *Poecilochirus necrophori* Vitzthum, 1930 were stated for the first time in Central Bohemia on *Dermestes (Dermestinus) undulatus* Brahm, 1790, *D. (D.) lanarius* Illiger, 1802 and *D. (D.) frischii* Kugelann, 1792.

Family Macrochelidae Vitzthum, 1930

Macrocheles glaber (Muller, 1860)

MATERIAL: Mělník env. (6252), 12.8.2010, numerus specimen on *Dermestes frischii* Kugelann, 1792, (JHAC); Dobříš - osada Vlaška (6250), 21.6.2014, numerus specimen on *Dermestes frischii* Kugelann, 1792, (JHAC).

REMARKS. The mite species *Macrocheles glaber* (Muller, 1860) were stated for the first time in Central Bohemia on *Dermestes (Dermestinus) frischii* Kugelann, 1792.

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