

ARTIGO / ARTÍCULO / ARTICLE

Contribution to the knowledge of Dermestidae (Coleoptera) from the Maluku Islands (Indonesia). Part 1. Description of a new species of *Katkaenus* Háva, 2006 from Buru Island.

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Abstract: *Katkaenus buruanus* sp. nov. from Indonesia, Buru Island is described, illustrated and compared with related species. The first record of *Dermestes (Dermestinus) maculatus* DeGeer, 1774 from Buru Island is also included.

Key words: Coleoptera, Dermestidae, Taxonomy, new species, *Katkaenus*, *Dermestes*, Indonesia, Maluku Islands.

Resumen: Contribución al conocimiento de los Dermestidae (Coleoptera) de las Islas Maluku (Indonesia). Parte 1. Descripción de una nueva especie de *Katkaenus* Háva, 2006 de la Isla de Buru. Se describe *Katkaenus buruanus* sp. nov. de la Isla de Buru, Indonesia, y se ilustra y compara con especies similares. También se incluye la primera cita de *Dermestes (Dermestinus) maculatus* DeGeer, 1774 para la Isla de Buru.

Palabras clave: Coleoptera, Dermestidae, Taxonomía, nueva especie, *Katkaenus*, *Dermestes*, Indonesia, Islas Maluku.

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Introduction

The family Dermestidae (Coleoptera: Bostrichoidea) contains about 1480 species and subspecies worldwide (Háva 2013). Its members are "mainly scavengers on dried proteinaceous material and are of economic importance because the family includes species that are pests of stored products or natural-history enemies" (Lawrence & Ślipiński 2005).

The Dermestidae from Indonesia were summarized by Kalshoven (1935, 1937, 1954, 1955, 1981) although not reporting any locality from Maluku Islands. Works dealing with Dermestidae from Indonesian Papua were published by Háva (2011, 2014) and Kadej & Háva (2013). So, the Dermestidae from Maluku Islands (Map 1) have been only sparingly studied, being reported four species belonging to the subfamilies Dermestinae, Attageninae and Megatominae: *Dermestes (Dermestes) ater* DeGeer, 1774, *Dermestes (Dermestinus) maculatus* DeGeer, 1774, *Attagenus undulatus* (Motschulsky, 1858) and *Thaumaglossa chujoi* Ohbayashi, 1982. In the present article, a new species is described from Buru Island, belonging to the genus *Katkaenus*, recently described by Háva (2006).

Material and methods

The photographs of the habitus of the new species were taken using an Olympus SZX 16 microscope. The male genitalia were dissected and macerated in 10% solution of KOH heated up to 90°C for a few minutes, cleared in Xylene and transferred into glycerol in small glass dishes, where they were studied.

The following abbreviations were used:

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

Elytral width (EW) - maximum linear transverse distance.

(JHAC) - Jiří Háva, Private Entomological Laboratory & Collection, Únětice u Prahy, Prague-west, Czech Republic.

Results

Subfamily Attageninae

Tribe Attagenini

Katkaenus buruanus sp. nov.

(Figs. 1-5)

Type material. Holotype (male): Indonesia, Maluku, E Buru, Ilath env., Remaja Mt., 200 m, 7-14.I.2013, J. Horák & St. Jákł leg., (JHAC). Paratypes (1 male, 4 females): same data as holotype, (JHAC). Specimens of this new species are provided with red, printed labels with text as follows: "HOLOTYPE (or PARATYPE, respectively) *Katkaenus buruanus* sp. nov. Jiří Háva det. 2014".

Description.

Male. Body black on dorsal and ventral surfaces, matt; strongly convex and broadly oval (Fig. 1). Body measurements (mm): TL 2.5-2.8 EW 1.6-1.7. Head finely punctate, with long, recumbent, brown pubescence. Labial palpi very long, yellowish-brown; pubescence on mentum denser. Eyes very large, with yellowish setae. Ocellus on front present. Antennae dark brown with brown setae, 11-segmented, antennal club 5-segmented (Fig. 2). Pronotum on disc punctate like head, densely foveolate in antero-lateral part, covered with long, recumbent, brown pubescence. Anterior pronotal angles not visible from above. Scutellum triangular, shining, without pubescence. Elytra finely punctate, with long, brown, recumbent pubescence; cuticle black without spots or fasciae (Fig. 1). Each elytron with one large bump near humerus. Epipleurae entirely black with long, recumbent, brown pubescence. Legs dark brown, with brown pubescence. Tibiae with long, brown spines along shaft. Prosternal process narrow and long, covered by long brown pubescence. Prosternum forming no collar, therefore mouthparts free. Metasternum finely punctate antero-laterally, on posterior part with large punctures, covered with brown, long, recumbent pubescence. Abdominal visible sternites coarsely punctate, with short, recumbent, brown pubescence. First visible abdominal sternite without post-coxal lines. Pygidium black, coarsely punctate, with long brown, recumbent pubescence. Male genitalia as in Fig. 4.

Female. Body measurements (mm): TL 2.6-2.8 EW 1.8-1.9; externally similar to male, but differing by the structure of antennae (Fig. 3).

Differential diagnosis. The new species is similar to *Katkaenus spectaculus* Háva, 2006 (India: Tamil Nadu), and can be differentiated as follows:

- *Katkaenus spectaculus* Háva, 2006: antennae light brown; labial palpi short; dorsal surfaces shining; tibiae with short, yellowish-brown spines along shaft. TL 2.8-3.4 mm.
- *Katkaenus buruanus* sp. nov.: antennae dark brown; labial palpi long; dorsal surfaces matt; tibiae with long, brown spines along shaft. TL 2.5-2.8 mm.



Map 1.- Situation of Buru Island, Maluku Islands (Indonesia).

Etymology. Named after the type locality, Buru Island.

Subfamily Dermestinae

Tribe Dermestini

***Dermestes (Dermestinus) maculatus* DeGeer, 1774**

Material examined: Indonesia, C. Moluccas, E Buru, Ilath env., Remaja Mt., 200-350 m, XII.2012, St. Jákl leg., 1 female, (JHAC).

Distribution: Cosmopolitan species (Háva 2007). New for Buru Island.

Key to species known from Buru Island

- 1(4) Head without ocellus.
 2(3) Abdominal sternites with unicolorous pubescence, cuticle bicolorous, brown with black spots..... *Dermestes (Dermestes) ater* DeGeer, 1774
 3(2) Abdominal sternites with black and white pubescence; apex of each elytron with a tooth..... *Dermestes (Dermestinus) maculatus* DeGeer, 1774
 4(1) Head with ocellus, body small, oval or suboval.
 5(6) Antennal club consisting of three antennomeres, body brown or dark brown, with bicolorous setation..... *Attagenus undulatus* (Motschulsky, 1858)
 6(5) Antennal club consisting of five antennomeres, body black, with unicolorous setation..... *Katkaenus buruanus* sp. nov.

List of species known from the central Maluku Islands

	Ambon I.	Buru I.	Seram I.
Subfamily Dermestinae, Tribe Dermestini			
<i>Dermestes (Dermestes) ater</i> DeGeer, 1774	*	*	*
<i>Dermestes (Dermestinus) maculatus</i> DeGeer, 1774		*	
Subfamily Attageninae, Tribe Attagenini			
<i>Attagenus undulatus</i> (Motschulsky, 1858)		*	*
<i>Katkaenus buruanus</i> sp. nov.		*	
Subfamily Megatominae, Tribe Megatomini			
<i>Thaumaglossa chujoii</i> Ohbayashi, 1982	*		

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Figs. 1-5. *Katkaenus buruanus* sp. nov.:
 1. - Habitus, dorsal aspect.
 2. - Antenna of male.
 3. - Antenna of female.
 4. - Aedeagus.
 5. - Fore leg, ventral aspect.