

ARTIGO / ARTÍCULO / ARTICLE

Description of a new *Attagenus* species from Saudi Arabia
(Coleoptera: Dermestidae: Attageninae).Jiří Háva^{1, 2}

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Abstract: A new species, *Attagenus logunovi* sp. nov. (Coleoptera: Dermestidae), from Saudi Arabia (Eastern Province) is diagnosed, described and illustrated. It is compared with the similar species *A. beali* Zhantiev, 2005 from Saudi Arabia and UAE. The new species belongs to the tribe Attagenini within the subfamily Attageninae and differs from all the known *Attagenus* Latreille, 1802 species in the coloration and setation of its dorsal surface and in the conformation of antennae and male genitalia. A table with all the species known to occur in the Arabian Peninsula is also added.

Key words: Coleoptera, Dermestidae, *Attagenus*, Taxonomy, new species, Saudi Arabia.

Resumen: Descripción de una nueva especie de *Attagenus* de Arabia Saudí (Coleoptera: Dermestidae: Attageninae). Se diagnostica, describe e ilustra una nueva especie de Arabia Saudí, *Attagenus logunovi* sp. nov. (Coleoptera: Dermestidae). Se compara con la especie similar *A. beali* Zhantiev, 2005, de Saudi Arabia y UAE. La nueva especie pertenece a la tribu Attagenini dentro de la subfamilia Attageninae y se diferencia de todas las especies conocidas de *Attagenus* Latreille, 1802 por la coloración y la disposición de las setas de su superficie dorsal y en la forma de antenas y genitalia masculina. Se aporta también una tabla con todas las especies con presencia conocida en la Península Arábiga.

Palabras clave: Coleoptera, Dermestidae, *Attagenus*, Taxonomía, nueva especie, Arabia Saudí.

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Introduction

The family Dermestidae (Coleoptera) currently numbers 1500 species worldwide (Háva 2015).

This paper is a continuation of my studies published earlier (Háva 2013, 2014, Háva & Herrmann 2014) and is based on dermestid material deposited in The Manchester Museum, University of Manchester, UK.

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:

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

Elytral width (EW) - maximum linear transverse distance.

Abbreviations of collections:

JHAC: Jiří Háva, Private Entomological Laboratory and Collection, Prague, Czech Republic.

MMUE: The Manchester Museum, University of Manchester, UK.

All studied specimens of the new species are provided with red, printed labels having the following text: "HOLOTYPE [or PARATYPE, respectively] *Attagenus logunovi* sp. nov. Jiří Háva det. 2015".

A list with all the species known to occur in the Arabian Peninsula is also added (Table 1).

Results

Subfamily Attageninae

Tribe Attagenini

Attagenus logunovi sp. nov.

(Figs. 1-3)

Type material. Holotype (♂): "Saudi Arabia, Eastern Prov., D. A. Pitcher / Ain Dar 7 km S, 16.IV.1982, no.132 / *Attagenus* sp. nov.?, V. Kalík det. 1990" (MMUE). Paratypes: (3♂♂, 9♀♀), together with the holotype, (10 MMUE, 3 JHAC).

Description.

Male. Body subovate, measurements (mm): TL 2.6-2.8 EW 1.4-1.5; head and pronotum black, elytra honeyed-brown, ventral surface black.

Head black, finely punctated, with long, white, recumbent setation. Palpi entirely light brown; mentum with denser setation. The front with ocellus. Eyes large, with light microsetae. Antennae brown, with 11 antennomeres, antennomeres I-II, IX-XI dark brown, the others brown; antennal club with 3 antennomeres (Fig. 1).

Pronotal cuticula black, finely punctated as the head, covered with long, white, recumbent setation. Lateral parts and the posterior part near scutellum covered with very long, white setation. Anterior angles not visible from above.

Scutellum black, triangular, finely punctated as the pronotum, with no setation.

Elytra finely punctated; cuticula honeyed-brown, covered with white and light brown, recumbent setation; light brown setation forms two isolated spots anteriorly, near scutellum, and one median, very narrow transverse fascia. Prosternal process black, broad and long, covered with long, white recumbent setation.

Mesoventrum and metaventrum black, with long, white recumbent setation.

Abdominal ventrites black, with long, white recumbent setation.

Legs brown, with white setation; tibiae with short, brown thorns.

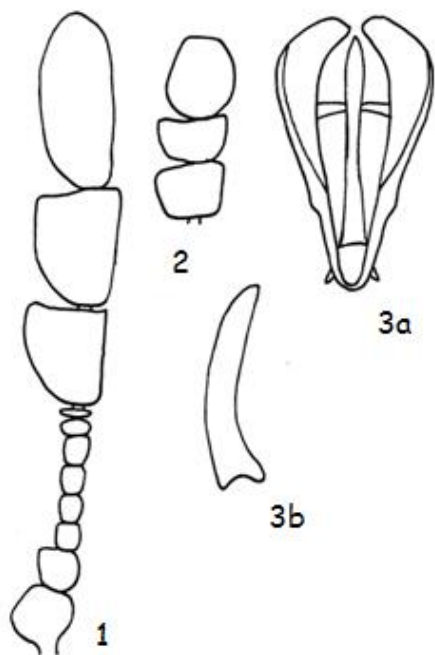
Male genitalia (Figs. 3a, b).

Female. Externally similar to the male, but differs in the conformation of antennae (Fig. 2) and in monochromatic, white setation on elytra. Measurements (mm): TL 2.8-3.1 EW 1.5-1.7.

Differential diagnosis. By general appearance, the new species is very similar to *Attagenus beali* Zhantiev, 2005 (Saudi Arabia, UAE), but differs from it in the conformation of antennae and male genitalia and in the colour pattern of elytra.

Antennae monochromatic, brown; elytra cuticula yellowish light brown, covered with monochromatic white setation..... *Attagenus beali* Zhantiev, 2005

Antennae bicolor (antennomeres I-II, IX-XI dark brown, others brown), elytra cuticula honeyed-brown, covered with white and light brown setation..... *Attagenus logunovi* sp. nov.



Figs. 1-3.- *Attagenus logunovi* sp. nov.: 1.- Male antenna. 2.- Female antennal club. 3a, b.- Male genitalia (shown schematically, without setation).



Map 1.- Saudi Arabia with locality of *Attagenus logunovi* sp. nov.

Etymology. The patronym is dedicated to my colleague Dmitri V. Logunov, Curator of Arthropods at The Manchester Museum (MMUE).

Distribution. Saudi Arabia: Eastern Province (Map 1).

Table 1.- Dermestidae species known from the Arabian Peninsula.

	Kuwait	Saudi Arabia	Yemen		Oman	United Arab Emirates	Qatar
			continental Yemen	Soqatra Island			
Subfamily Dermestinae							
Tribe Dermestini							
<i>Dermestes (Dermestes) ater</i> DeGeer, 1774		*	*		*	*	*
<i>Dermestes (D.) lardarius</i> Linnaeus, 1758			*			*	
<i>Dermestes (Dermestinus) frischii</i> Kugellan, 1792	*	*	*	*	*	*	*
<i>Dermestes (D.) maculatus</i> DeGeer, 1774	*	*	*	*	*	*	*
Tribe Marioutini							
<i>Mariouta stangei</i> Reitter, 1910		*			*		
<i>Rhopalosilpha wasmanni</i> Arrow, 1929		*			*		
Subfamily Thorictinae							
Tribe Thorictini							
<i>Thorictus arabicus</i> Háva, 2010		*					
<i>Thorictus peyerimhoffi</i> Chobaut, 1904		*					
Subfamily Attageninae							
Tribe Attagenini							
<i>Attagenus apicalis</i> Pic, 1942		*					
<i>Attagenus aristidis</i> (Pic, 1894)		*					*
<i>Attagenus atripennis</i> Pic, 1938		*	*				
<i>Attagenus beali</i> Zhantiev, 2005		*				*	

	Kuwait	Saudi Arabia	Yemen		Oman	United Arab Emirates	Qatar
			continental Yemen	Soqatra Island			
<i>Attagenus dichrous</i> Roth, 1851		*					
<i>Attagenus fasciatus</i> (Thunberg, 1795)	*	*	*		*	*	*
<i>Attagenus fasciolatus</i> (Solsky, 1876)		*					
<i>Attagenus herrmanni</i> Háva, 2012			*				
<i>Attagenus heydeni</i> (Reitter, 1881)		*					
<i>Attagenus kadeji</i> Háva, 2012			*				
<i>Attagenus kadleci</i> Háva, 2012			*				
<i>Attagenus lobatus</i> Rosenhauer, 1856		*				*	
<i>Attagenus logunovi</i> sp. nov.		*					
<i>Attagenus lynx</i> (Mulsant & Rey, 1868)		*					*
<i>Attagenus maseki</i> Háva, 2013			*				
<i>Attagenus omanicus</i> Zhantiev, 2007			*		*	*	
<i>Attagenus ornatus</i> Háva, 2007				*			
<i>Attagenus papei</i> Háva, 2009					*	*	
<i>Attagenus posticalis</i> Fairmaire, 1878	*	*	*		*	*	*
<i>Attagenus yemensis</i> Háva & Herrmann, 2014			*				
<i>Attagenus vanharteni</i> Háva, 2009			*			*	
Subfamily Megatominae							
Tribe Megatomini							
<i>Globicornis (Globicornis) boswelliae</i> Háva, 2013				*			
<i>Globicornis (Socotrornis) fallax</i> Háva, 2013				*			
<i>Orphinus (Orphinus) kabateki</i> Háva, 2007				*			
<i>Orphinus (O.) socotrensis</i> Háva, 2007				*			
<i>Phradonoma hirsutulum</i> (Reiche in Mulsant & Rey, 1868)		*	*	*		*	
<i>Phradonoma nobile</i> (Reitter, 1881)		*	*			*	*
<i>Phradonoma oculatum</i> Háva, 2004			*				
<i>Phradonoma sweihanum</i> Háva, 2009						*	
<i>Phradonoma tricolor</i> (Arrow, 1915)		*	*		*		
<i>Trogoderma glabrum</i> (Herbst, 1783)					*		
<i>Trogoderma granarium</i> Everts, 1898		*	*		*	*	*
<i>Trogoderma variabile</i> Ballion, 1878		*					
Tribe Anthrenini							
Subtribe Anthrenina							
<i>Anthrenus (Anthrenodes) buettikeri</i> Mroczkowski, 1980		*					
<i>Anthrenus (A.) malkini</i> Mroczkowski, 1980		*	*		*	*	*
<i>Anthrenus (A.) pulchellus</i> Gestro, 1889		*	*				
<i>Anthrenus (A.) wittmeri</i> Mroczkowski, 1980		*					
<i>Anthrenus (Anthrenops) cervenkai</i> Háva & Herrmann, 2006			*		*		
<i>Anthrenus (A.) coloratus</i> Reitter, 1881		*	*			*	*
<i>Anthrenus (A.) geisthardti</i> Háva & Herrmann, 2006			*				
<i>Anthrenus (A.) longus</i> Arrow, 1915				*			
<i>Anthrenus (A.) subclaviger</i> Reitter, 1881		*	*				
<i>Anthrenus (Anthrenus) ardoi</i> Kadej & Háva, 2011					*		
<i>Anthrenus (A.) crustaceus</i> Reitter, 1881		*	*				
<i>Anthrenus (A.) flavipes flavipes</i> LeConte, 1854	*	*	*		*	*	*
<i>Anthrenus (A.) picturatus arabicus</i> Háva & Herrmann, 2006			*				
<i>Anthrenus (A.) rauterbergeri</i> Reitter, 1908		*					
<i>Anthrenus (A.) safad</i> Háva, 2013						*	
<i>Anthrenus (Nathrenus) jakli</i> Háva, 2001			*		*		
<i>Anthrenus (N.) purcharti</i> Háva, 2014			*				
Subtribe Dermeanthrenina							
<i>Dermeanthrenus pretiosus</i> Háva, 2008					*		
Total	5	34	28	9	17	19	12

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References

- HÁVA, J. 2013. Description of a new *Attagenus* species from Yemen (Coleoptera, Dermestidae) with new faunistic records from Kuwait. *Euroasian Entomological Journal* **12**: 263-266.
- HÁVA, J. 2014. A new species of the genus *Anthrenus* from Socotra Island (Coleoptera: Dermestidae: Megatominae: Anthrenini). *Acta Entomologica Musei Nationalis Pragae* **54**, Supplementum: 191-195.
- HÁVA, J. 2015. *World Catalogue of Insects. Volume 13. Dermestidae (Coleoptera)*. Leiden/Boston: Brill, xxvi + 419 pp.
- HÁVA, J. & HERRMANN, A. 2014. *Attagenus yemensis* sp. nov., a new species from Yemen (Coleoptera: Dermestidae: Attageninae). *Arquivos Entomológicos* **10**: 167-172.