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A contribution to knowledge of the subfamily Megatominae (Coleoptera: Dermestidae)

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Coleoptera; *Hadrotoma*;
Dermestidae; *Pecticacoleptus*;
taxonomy; *Socotrarnis*;
new species; *Trogoderma*;
new status; China;
new combination; Chile.
new homonym;

Abstract. – The following new species are described, illustrated and compared with similar species: *Trogoderma emeishanum* **sp. nov.** from China (Sichuan) and *Trogoderma valparaisoum* **sp. nov.** from Chile. The genus and species *Pecticacoleptus pectinis* (Háva, 2004a) are newly stated as genus *Pecticacoleptus* **stat. nov.** and species is newly combined, the genus and species *Socotrarnis fallax* (Háva, 2013) are newly stated as genus *Socotrarnis* **stat. nov.** and species is newly combined. A new homonym is proposed: *Hadrotoma antoniae* Reitter in Radde, 1886 **hom. nov.** of *Hadrotoma antoniae* Reitter, 1884.

Háva J., 2022. – A contribution to knowledge of the subfamily Megatominae (Coleoptera: Dermestidae). *Faunitaxys*, 10(5) : 1 – 3.

ZooBank: <http://zoobank.org/2B768C91-566D-416B-AB88-7D805D2D3908>

Introduction

The family Dermestidae (Coleoptera) includes 72 genera and about 1750 species worldwide (Háva 2015, 2021). In the present article two subgenera are elevated to genus which results in new combinations of the type species. Two species are newly described from China and Chile.

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:

- **TL total length:** linear distance from anterior margin of pronotum to apex of elytra.

- **EW elytral width:** maximum linear transverse distance.

– The holotype specimens are deposited in the collection (JHAC) - Private Entomological Laboratory & Collection, Jiří Háva, Únětice u Prahy, Prague-West, Czech Republic.

– The nomenclature and zoogeography follow Háva (2021).

– Specimens of the presently described species are provided with red, printed label with text as follows:

« HOLOTYPE *species name* sp. nov. Jiří Háva det. 2022 ».

Results

Subfamily Megatominae

Genus *Pecticacoleptus* Háva, 2004b **stat. nov.**

Type species: *Cacoleptus* (*Pecticacoleptus*) *pectinis* Háva, 2004a.

Pecticacoleptus pectinis (Háva, 2004a: 65) **comb. nov.**

Distribution. – Brazil.

Remarks. – According to originally described characters (cuticle on dorsal surfaces unicolorous; antennae pectinate, consisting 10 antennomeres; metasternum without transverse striae at anterior margin) the species is newly combined as *Pecticacoleptus pectinis* (Háva, 2004a) **comb. nov.** and the subgenus *Pecticacoleptus* Háva, 2004b of genus *Cacoleptus* Sharp, 1902 is raised to an independent genus *Pecticacoleptus* **stat. nov.**

Genus *Socotrarnis* Háva, 2013 **stat. nov.**

Type species: *Globicornis* (*Socotrarnis*) *fallax* Háva, 2013

Socotrarnis fallax (Háva, 2013: 75) **comb. nov.**

Distribution. – Yemen: Socotra I.

Remarks. – According to originally described characters (body very small, oval TL 1.6-1.9, elytral cuticle black with brownish-orange fasciae covered by whitish recumbent very narrow scales with intermixed erect, black setation, ventral surfaces covered by whitish setation. Antennae brown with white setae, consisting of 10 antennomeres, terminal antennomere flat and large) the species is newly combined as *Socotrarnis fallax* (Háva, 2013) **comb. nov.** and the subgenus *Socotrarnis* Háva, 2013 of genus *Globicornis* Latreille in Cuvier, 1829 is raised to an independent genus *Socotrarnis* **stat. nov.**

Hadrotoma antoniae Reitter, 1884

Hadrotoma antoniae Reitter in Radde, 1886: 223 **hom. nov.**

Remarks. – The species was originally described by Reitter (1884); subsequently the same species was described by Reitter in Radde (1886), resulting in a new homonym for *Hadrotoma antoniae* Reitter, 1884.

Trogoderma emeishanum sp. nov.

(Fig. 1-4)

ZooBank: <http://zoobank.org/C7F8E0D7-DC0F-46F5-8843-E81FD862CC71>

Holotype, ♂: China, Sichuan prov., Mt. Emei, 1200 m, 180 km S of Chengdu, 4-6.vii.1993, JHAC.

Description of the holotype

Measurements (mm). – TL 2.1, EW 1.4.

Coloration. – Head very dark brown. – Pronotum very dark brown, shiny, with sparse brown setation. – Elytra dark brown with sparse brown setation. – Antennae brown. – Legs brown.

Body. – Short, oval (Fig. 1);

Head. – Coarsely punctate, sparsely covered with short, black setation. – Palpi light brown. – Eyes large, with yellow microsetae. – Ocellus on front present. – Antennae brown, with short, yellow setation, composed of 11 antennomeres (Fig. 2) antennal club with 6 antennomeres.

Pronotum. – Shiny, coarsely punctate laterally, finely punctate discally, dark brown with recumbent brown setation, lateral margins of pronotum smooth.

Scutellum. – Dark brown, triangular, without setation.

Elytra. – Shiny, dark brown, without fascia or spots, covered by sparse black setation. – Suture near scutellum with very short, longitudinal depression on each elytron free from punctures.

Underside. – Epipleuron brown, covered by brown setation. – Mesosternum and metasternum dark brown, covered with brown setation, finely punctate. – Abdominal sternites dark brown, finely punctate, sparsely covered with recumbent brown setation.

Legs. – Dark brown covered with recumbent, yellow setation.

Male genitalia. – As in Fig. 4.

Female. – Unknown.

Differential diagnosis. – The new species very similar according to the Palearctic species *T. arcanum* Zhantiev, 2002 (Georgia), based on the unicolorous dorsal cuticula but differs from it by the small, oval body, structure of antennae and male genitalia.

Etymology. – Toponymic, named after the type locality Mt. Emei.

Trogoderma valparaisoum sp. nov.

(Fig. 5-7)

ZooBank: <http://zoobank.org/E628137F-6B6C-4C5C-92CF-BE3E98905AFF>

Holotype, ♂: Chile, Valparaíso, Mantahua, 15.10.1992, J.S. [lgt.], JHAC.

Description of the holotype

Measurements (mm). – TL 3.5, EW 1.7.

Body. – Parallel, narrow (Fig. 5);

Coloration. – Head dark brownish-black. – Pronotum dark brownish-black, matte, with sparse brown setation. – Elytra brown with sparse brown setation. – Antennae dark brown; legs brown.

Head. – Coarsely punctate, sparsely covered with short, golden setation. – Palpi light brown. – Eyes large, with yellow microsetae. – Ocellus on

front present. – Antennae dark brown, with short, yellow setation, composed of 11 antennomeres (Fig. 6) antennal club with 6 antennomeres.

Pronotum. – Matte, coarsely punctate, brownish-black, lateral margins of pronotum smooth, covered by recumbent brown setation.

Scutellum. – Dark brown, triangular, without setation.

Elytra. – Slightly shiny, brown, without fascia or spots, covered by sparse brown setation. – Suture near scutellum with short, longitudinal depression on each elytron free from punctures.

Underside. – Epipleuron brown, covered by brown setation. – Mesosternum and metasternum brown, covered with short, brown setation finely punctate. – Abdominal sternites dark brown, finely punctate, sparsely covered with recumbent brown setation.

Legs. – Dark brown covered with recumbent, brown setation.

Male genitalia. – As in Fig. 7.

Female. – Unknown.

Differential diagnosis. – The new species similar to *T. santiagoi* Háva & Kadej, 2009, but differs from it by the length of body (*santiagoi* TL 2.25), structure of antennae and male genitalia.

Etymology. – Toponymic, named after the type locality Valparaíso city.

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Résumé

Háva J., 2022. – Contribution à la connaissance de la sous-famille Megatominae (Coleoptera: Dermestidae). *Faunitaxys*, 10(5) : 1 – 3.

Deux nouvelles espèces sont décrites, représentées et comparées aux espèces les plus proches : *Trogoderma emeishanum* sp. nov. de Chine (Sichuan) et *Trogoderma valparaisoum* sp. nov. du Chili. Le genre et l'espèce *Pecticacoleptus pectinis* (Háva, 2004a) sont nouvellement déclarés comme genre *Pecticacoleptus* stat. nov. et l'espèce est nouvellement combinée ; le genre et l'espèce *Socotrarnis fallax* (Háva, 2013) sont nouvellement déclarés comme genre *Socotrarnis* stat. nov. et l'espèce est nouvellement combinée. Un nouvel homonyme est proposé : *Hadrotoma antoniae* Reitter in Radde, 1886 hom. nov. de *Hadrotoma antoniae* Reitter, 1884.

Mots-clés. – Coleoptera, Dermestidae, taxinomie, nouvelle espèce, nouveau statut, nouvelle combinaison, nouvel homonyme, *Hadrotoma*, *Pecticacoleptus*, *Socotrarnis*, *Trogoderma*, Chine, Chili.

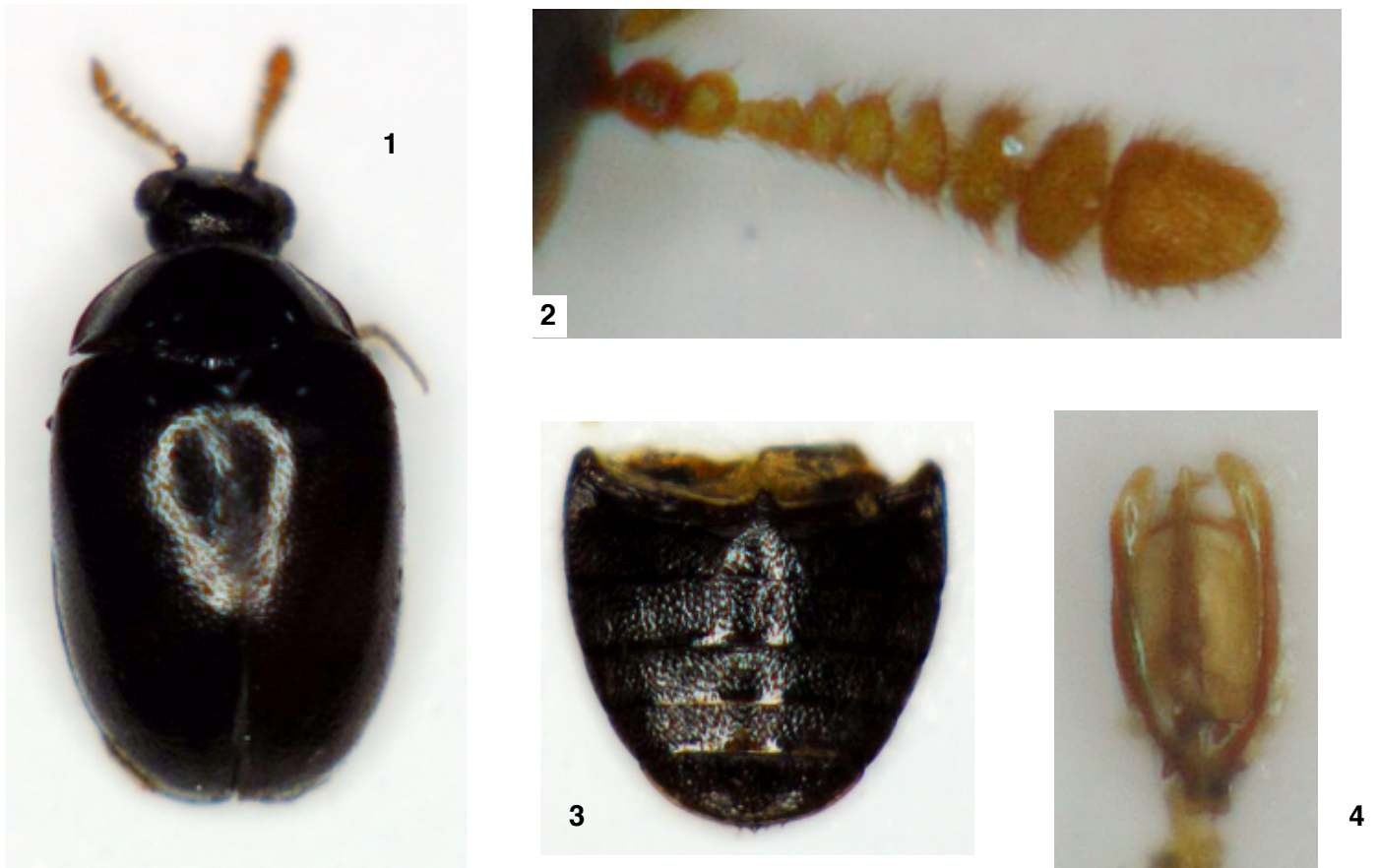


Fig. 1-4. *Trogoderma emeishanum* sp. nov.: 1. Body dorsal. 2. Antenna. 3. Abdomen. 4. Male genitalia.

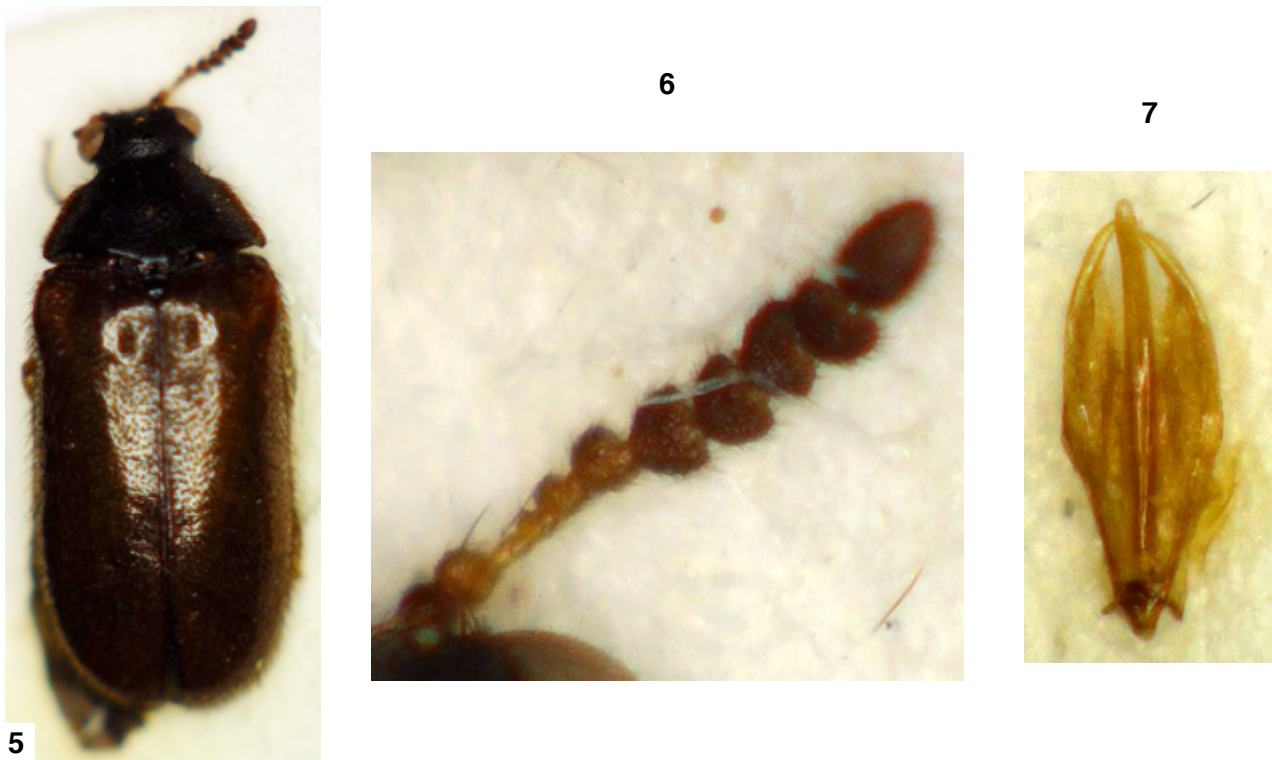


Fig. 5-7. *Trogoderma valparaisoum* sp. nov.: 5. Body dorsal. 6. Antenna. 7. Male genitalia.

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Illustration de la couverture : Vue du funiculaire Artilleria à Valparaiso (Chili).

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