

**CONTRIBUTION TO THE KNOWLEDGE OF DERMESTIDAE (COLEOPTERA)  
FROM CHILE**

**CONTRIBUCIÓN AL CONOCIMIENTO DE LOS DERMESTIDAE (COLEOPTERA)  
DE CHILE**

Jiří Háva<sup>1</sup> and Jaime Solervicens<sup>2</sup>

ABSTRACT

*Trogoderma cordillerae* sp. nov. from Chile is described, illustrated and compared with similar species. New locality data from Chile are reported for other five dermestid species.

**Key words:** Chile, Coleoptera, Dermestidae, new records, new species, Reserva Nacional Río Clarillo.

RESUMEN

*Trogoderma cordillerae* sp. nov. de Chile es descrita, ilustrada y comparada con especies similares. Nuevos datos de localidades de Chile son reportados para otras cinco especies de derméstidos.

**Palabras clave:** Chile, Coleoptera, Dermestidae, nueva especie, nuevo registro, Reserva Nacional Río Clarillo.

INTRODUCTION

The family Dermestidae (Coleoptera) currently contains 1,430 species and subspecies worldwide, 31 of them being known from Chile. The present article deals with a part of dermestid material deposited in Museo Nacional de Historia Natural de Santiago, Chile and collections of the Instituto de Entomología, Universidad Metropolitana de Ciencias de la Educación, Santiago, Chile and offers a continuation of the articles published by Soler-

vicens and González (1993) and Solervicens and Estrada (1996) summarizing the beetles species from Reserva Nacional Río Clarillo (Chile Central).

MATERIAL AND METHODS

The size of the beetles or of their body parts can be useful in species recognition, and therefore 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.

Abbreviation: Instituto de Entomología, Universidad Metropolitana de Ciencias de la Educación, Chile (IEUMCE); Private Entomological Laboratory and Collection, Únětice u Prahy, Prague-west, Czech Republic (JHAC); Museo Nacional de Historia Natural de Santiago, Chile (MNHN).

<sup>1</sup> Department of Forest Protection and GM, Faculty of Forestry and Wood Sciences, Czech University of Life Sciences. Kamýcká 1176, CZ-165 21, Prague 6 - Suchbát, Czech Republic. E-mail: jh.dermestidae@volny.cz

<sup>2</sup> Instituto de Entomología, Universidad Metropolitana de Ciencias de la Educación, J. P. Alessandri 774, Ñuñoa, Santiago, Chile. E-mail: jaime.solervicens@umce.cl

## RESULTS

## Subfamily Dermestinae

*Dermestes (Dermestes) patagoniensis*  
Háva et Kalík, 2005

*Dermestes peruvianus*: Solervicens and González, 1993: 62.

**Material examined:** Chile, Cordillera, Río Clarillo, 6/7-3/9-1989, C. González lgt., malaise trap, 1 female, J. Háva det. (MNHN).

**Distribution:** A species recently described from Chile and Argentina (Háva and Kalík, 2005); new locality data from Chile.

## Subfamily Attageninae

*Attagenus bitaeniatus* (Steinheil, 1869)

(Figs. 1-3)

**Material examined:** Chile, Reserva Nacional Río Clarillo, Región Metropolitana de San-

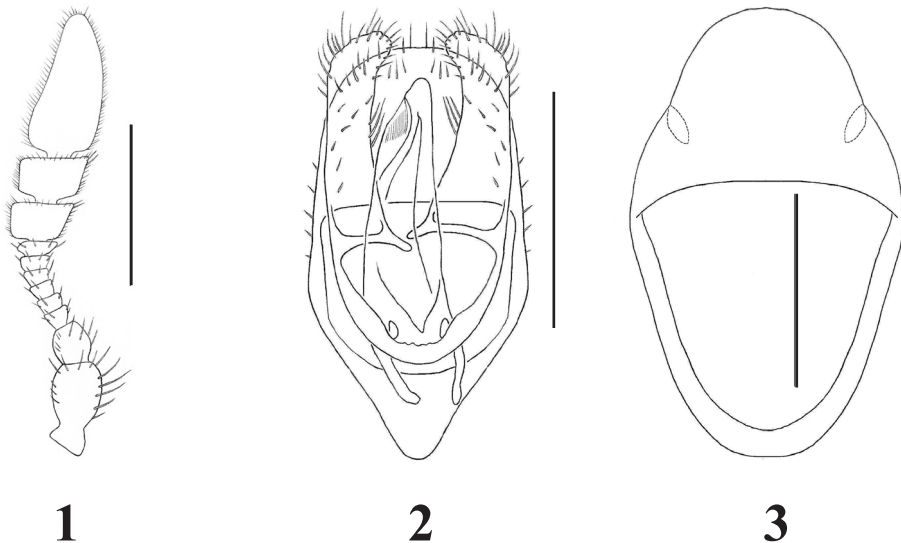
tiago, 4/12/2007 - 8/1/2008, Jaime Solervicens Coll., 9 spec., J. Háva det. (3 IEUMCE, 3 MNHN, 3 JHAC).

**Remarks:** The antenna of male, male genitalia and 9<sup>th</sup> sternite of the species are first illustrated. The series studied includes a specimen covered with golden-yellow pubescence on dorsal surfaces, which is very rare, the usual pubescence being white and light yellow.

**Locality:** Reserva Nacional Río Clarillo, Provincia de Cordillera, Región Metropolitana de Santiago, Chile (33° 43' 19.97" S, 70° 29' 28.78" W, altitude: 872 m).

**Habitat:** Evergreen sclerophyll forest of the preandean slopes in the mediterranean zone of Chile. Collecting method: light trap.

**Distribution:** A species known from Argentina, Brazil, Bolivia, Chile, Paraguay (Háva 2003, 2012); new locality data from Chile.



Figures. 1-3. *Attagenus bitaeniatus* (Steinheil, 1869). 1. Antenna of male; 2. Male genitalia; 3. 9<sup>th</sup> sternite (Scale = 0.25 mm).

### Subfamily Megatominae

*Trogoderma angustum* (Solier in Gay, 1849)

**Material examined:** Chile, Cordillera, Los Maitenes, 14/10/02-31/12/02, tallos florales de *Puya berteriana*, J. Solervicens leg., 2 spec., J. Háva det. (MNHN); Chile, Santiago, Macul, 2/12/1985, J. Solervicens leg., 1 spec., J. Háva det. (IEUMCE).

**Distribution:** A species known from Europe, Argentina, Chile, Peru, USA, India, Pakistan, Thailand, New Zealand (Háva and Kadej, 2009; Háva, 2012); new locality data from Chile.

*Trogoderma cordillerae* sp. nov.

(Figs. 4-6)

**Type material:** Holotype (♀): Chile, Cordillera, R. N. Río Clarillo, 7/11/02-30/12/02, J. Solervicens leg. / infrutescencia de *Puya coerulea* / *Trogoderma* sp., J. Solervicens det. 03, (MNHN). The specimen of the species described here is provided with a red, printed label with the text as follows: "HOLOTYPE *Trogoderma cordillerae* sp. n. J. Háva & J. Solervicens det. 2012".

**Description.** Habitus (Figs. 4-5). Body TL 3.9 EW 2.0 (in mm). Dorsal integument with head and pronotum dark brown, elytra dark brown and light brown. Ventral integument with thorax, abdomen and antennae brown, legs light brown. Head with median ocellus. Pubescence of dorsal surfaces and head light brown (might seem to be golden or grey in transparent light) - uniform, dorsal patterns present; pubescence of undersurfaces light brown. Antenna 11-segmented, covered with brown hairs; configuration in female as illustrated (Fig. 6). Antennal segments I-VII brown, VIII-XI brownish-black in female. Pronotum coarsely punctate, lateral parts slightly dentate. Scutellum visible but minute. Elytra with punctures on disc subequal in size to those on pronotum. Pubescence of

elytra consisting of brown hairs, dorsal light brown patterns (Fig. 4) consisting of yellowish hairs. Epipleuron unicolorous, with brown hairs. Prosternum finely punctate, prosternal process moderately long, without median carina. Antennal fossa occupying the whole hypomeron, deeply excavated, floor of fossa microscopically punctate. Mesosternal disc with punctures on disc subequal in size to those on pronotum and prosternum, metasternum without discal striae. First visible abdominal sternite without distinct oblique discal striae. Legs light brown with short yellow setae (missing left middle and posterior legs).

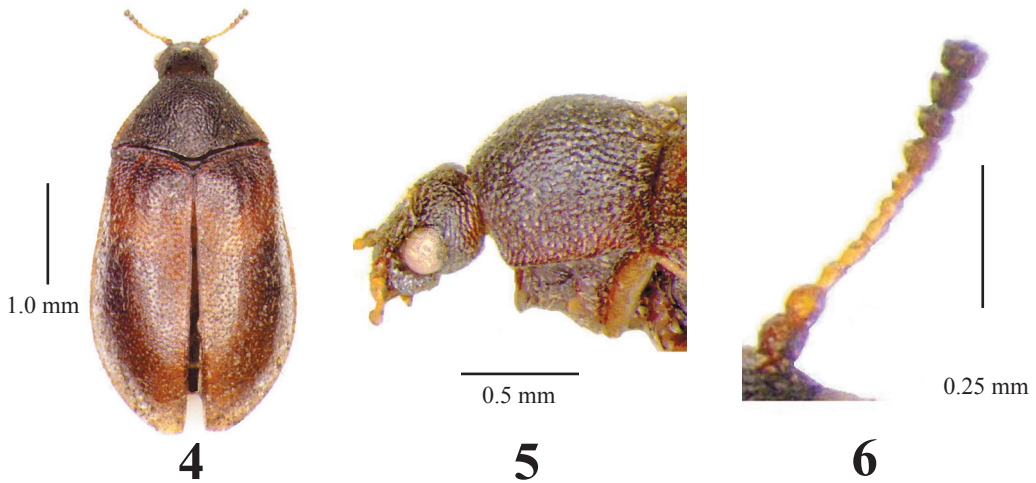
Male unknown.

**Differential diagnosis.** The new species is visually very similar to *Trogoderma vicinum* (Solier in Gay, 1849), but differs from it and from all the known Chilean species by a very convex shape of the pronotum medially, the pronotum being distinctly (nearly triangularly) widened backward from its anterior margin and lateral margins being visible from above, by the structure of antennae, colour and punctuation of the pronotum and elytra.

**Etymology:** Named according to the type locality, Cordillera.

#### Supplemented key of *Trogoderma* species Háva and Kadej (2009)

21(22) Elytral integument bicolorous.....  
 A(B) Each elytron with three or four reddish transverse fasciae covered by white pubescence; pronotum not very convex medially.....  
*Trogoderma rubiginosum* (Solier in Gay, 1849)  
 B(A) Each elytron with one broad transverse fasciae extended at the rear suture and elytron; pronotum very convex medially.....  
 .....*Trogoderma cordillerae* sp. nov.  
 22(21) Elytral integument unicolorous; elytra black or dark brown, matt; pronotum coarsely punctate.....  
 ..... *Trogoderma vicinum* (Solier in Gay, 1849)



Figures. 4-6. *Trogoderma cordillerae* sp. n. 4. Habitus dorsal aspect; 5. Habitus lateral aspect; 6. Antenna of female.

*Trogoderma obscurum* Pic, 1936

**Material examined:** Chile, La Campana, Limache, Valparaíso, 12.xii.1969, J. Solervicens leg., 1 spec., J. Háva det. (MNHN).

**Distribution:** Species known from Brazil and Chile (Háva and Kadej, 2009; Háva, 2012); new locality data from Chile.

*Trogoderma rubiginosum* (Solier in Gay, 1849)

*Trogoderma rubiginosum*: Solervicens and González, 1993: 62.

*Trogoderma rubiginosum*: Solervicens and Estrada, 1996: 41.

**Material examined:** Chile, Reserva Nacional Río Clarillo, 12/11/91, ex *Trevoa trinervis*, J. Solervicens leg., 1 male, J. Háva det. (MNHN); Chile, Reserva Nacional Río Clarillo, 5/12/91, ex *Lithraea caustica*, J. Solervicens leg., 1 female, J. Háva det. (IEUMCE).

**Distribution:** Species known from Chile (Háva and Kadej, 2009; Háva, 2012).

ACKNOWLEDGEMENTS

We would like to thank M. Rakovič (Prague, Czech Republic) for critical reading of the manuscript. This research was partly supported by grant of the Ministry of Agriculture of the Czech Republic No. QH91097.

LITERATURE CITED

- HÁVA, J. 2003. World Catalogue of the Dermestidae (Coleoptera). *Studie a Zprávy Oblastního Muzea Praha východ v Brandýse nad Labem a Staré Boleslavi, 1*: 1-196.
- HÁVA, J. 2010. *Trogoderma novaki* n. sp., a new species from Chile (Coleoptera: Dermestidae: Megatominae). *Boletín de la Sociedad Entomológica Aragonesa, 46*: 93-94.
- HÁVA, J. 2012. Dermestidae of the World (Coleoptera). An interactive manual. (open in 2004). Available from: <http://www.dermestidae.wz.cz> (accessed 11 January 2012)
- HÁVA J. AND M. KADEJ, 2009. Contribution to the knowledge of the genus *Trogoderma* (Coleoptera: Dermestidae: Megatominae)

- from Chile. *Studies and Reports of District Museum Prague-East Taxonomical Series*, 5: 47-60.
- HÁVA J. AND V. KALÍK, 2005. Contribution to the *Dermestes peruvianus* species group from the Neotropical region (Coleoptera: Dermestidae). *Baltic Journal of Coleopterology*, 5: 87-98.
- SOLERVICENS J. AND P. ESTRADA, 1996. Coleópteros de follaje de la Reserva Nacional Río Clarillo (Chile Central). *Acta Entomológica Chilena*, 20: 29-41.
- SOLERVICENS J. AND C. GONZÁLEZ, 1993. Coleoptera de la Reserva Nacional Río Clarillo (Chile Central) capturados con trampa malaise. *Acta Entomológica Chilena*, 18: 53-63.

(Recibido: 12 de octubre 2012; Aceptado: 18 octubre 2012)

