Stuttgarter Beiträge zur Naturkunde
Serie A (Biologie)

Herausgeber:

Staatliches Museum für Naturkunde, Rosenstein 1, D-70191 Stuttgart

Stuttgarter Beitr. Naturk.	Ser. A	Nr. 705	6 S., 4 Abb.	Stuttgart, 10. IV. 2007

Attagenus heinigi n. sp. (Coleoptera: Dermestidae) from Namibia

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Abstract

Attagenus heinigi **n. sp.** from Namibia is described, illustrated and compared with similar species. A list of all dermestid species recorded from Namibia is given.
Keywords: Taxonomy, new species, nomenclature, Coleoptera, Dermestidae, Attagenini, *Attagenus*, Namibia.

Zusammenfassung

Attagenus heinigi **n. sp.** aus Namibia wird beschrieben, abgebildet und mit ähnlichen Arten verglichen. Alle bisher aus Namibia gemeldeten Dermestidenarten werden aufgelistet.

Contents

1 Introduction 1
2 *Attagenus heinigi* **n. sp.** 2
3 List of the dermestid species from Namibia 5
4 References 5

1 Introduction

The dermestid genus *Attagenus* Latreille, 1802 contains about 180 species and subspecies worldwide (Háva 2003a). The present paper considers the preceding taxonomical publications on the species of *Attagenus* from the Afrotropical region (Thunberg 1795, 1815; Reitter 1881; Péringuey 1885, 1886; Kalík 1955; Kalík & Háva 2005; Háva 2003b, 2003c). During the determination of some material from Namibia collected by Uwe Heinig, the present authors found a new species of the genus *Attagenus*.

Acronyms of type depositories

AHEC Private collection of Andreas Herrmann, Stade, Germany
JHAC Private entomological laboratory and collection Jiří Háva, Prague, Czech Republic
SMNS Staatliches Museum für Naturkunde, Stuttgart, Germany
TMSA Transvaal Museum, Pretoria, South Africa

Abbreviations

EW elytral width = maximum elytral width
TL total length = distance from anterior margin of pronotum to apex of elytra

Acknowledgements

The authors are deeply indebted to Uwe Heinig (Berlin/Germany) for ceding his interesting material of Dermestidae from Namibia, to Johannes Reibnitz (SMNS) for the photos of the new species, and to Dr. Wolfgang Schawaller (SMNS) and Ruth Müller (TMSA) for the loan of specimens.

2 *Attagenus heinigi* n. sp. (Figs. 1–4)

Nomen nudum: *Attagenus okahandjensis* Kalík: Schawaller 1994: 27 (see below under Remarks).

Material

Holotype (♂): Namibia: 21°12′S/16°49′E, Farm Wewelsburg, 90 km S Otjiwarongo, 1430 m, 1.III.2003, leg. U. Heinig.

Paratypes: 1 ♀: labelled with the same data as the holotype. – 1 ♂, 1 ♀: Namibia: 23°19′S/17°01′E, Rehoboth Umg., 1500 m, Oanob Stausee, Uferzone, 19.III.2003, leg. U. Heinig. – 1 ♂, 1 ♀: Namibia: 24°16′S/16°14′E, Naukluftberge, 1490 m, 17.III.2003, leg. U. Heinig. – 1 ♂, 1 ♀: Namibia: Erongo-District, 21°33′S/13°33′E, Omandumba-Farm, 23.X.2002, leg. U. Göllner, Feuchtstelle. – 4 ♂: Namibia: 19°25′S/15°40′E, 35 km SW Okaukuejo, 1215 m, 7.III.2003, leg. U. Heinig, auf Blüten. – 36 exx.: South West Africa, Okahandja, 1240 m, 8.–12.III.1979, leg. H. Roer. – 1 ♀: South West Africa, Okahandja, 1240 m, 31.I.–3.II.1979, leg. H. Roer. – 1 ex.: Okahandja, 19.–29.III.1928, S. W. Africa, R. E. Turner, Brit. Mus., 1928-202, ex B.M.(N.H.) duplicate. – 2 exx.: Okahandja, 19.–29.III.1928, S.W. Africa, R. E. Turner, Brit. Mus., 1928-178, ex B.M.(N.H.) duplicate.

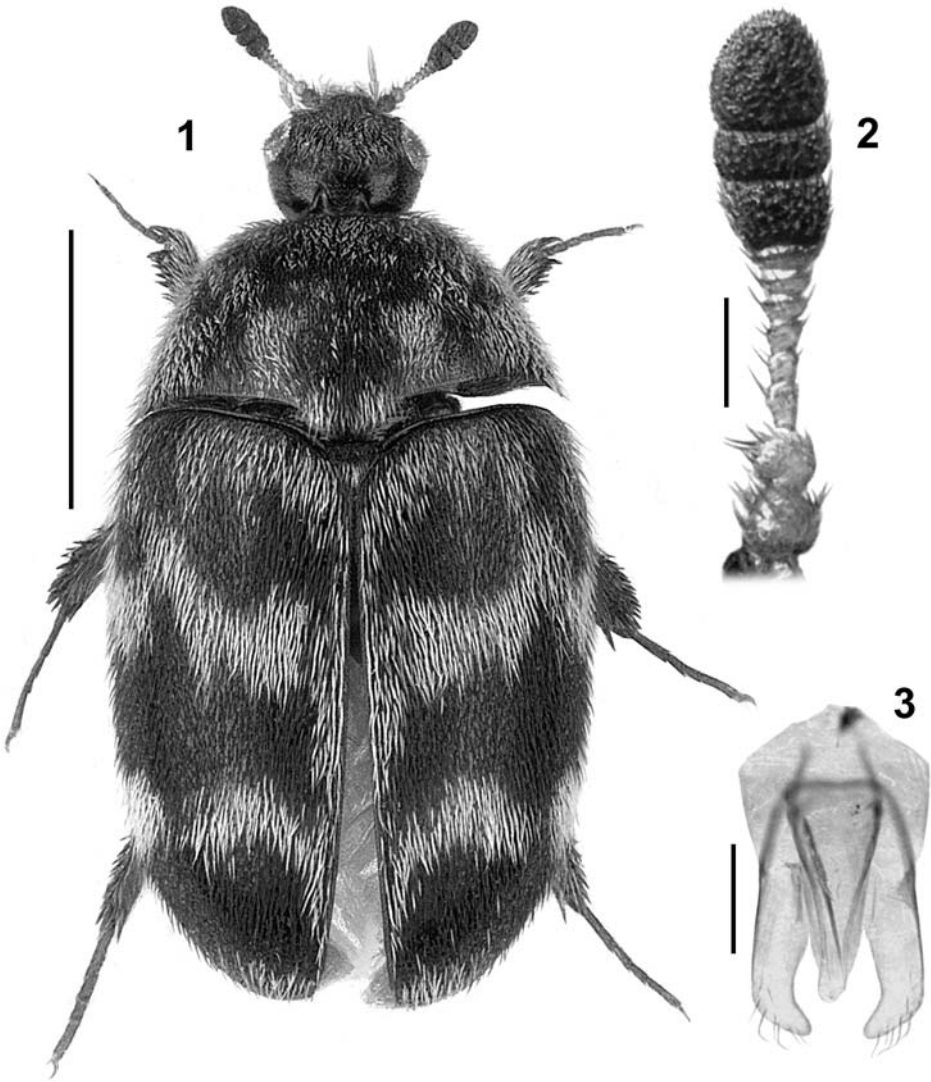
The holotype is stored in SMNS, paratypes are preserved in SMNS, TMSA, AHEC and JHAC. All specimens of the newly described species are provided with the following labels: "HOLOTYPE [or PARATYPE respectively]" "*Attagenus heinigi* sp. n., A. Herrmann & J. Háva det. 2006".

Etymology

The name of the new species is dedicated to the coleopterist Uwe Heinig (Berlin/Germany), who is the collector of the holotype and several paratypes.

Description

Holotype (♂): Body longish ovate, slightly arched. Measurements: TL 2.8 mm, EW 1.8 mm. Head broader than long, finely punctate, with long grey and brown pubescence, clypeus slightly extended. Palpi entirely light brown; pubescence on mentum consists of reddish brown hairs only. Ocellus on front present. Antennae with 11 antennomeres; antennal club with 3 antennomeres, shorter than the other segments combined (Fig. 2); terminal segment nearly as long as preceding two segments combined; antennal club black, rest of antenna light brown. Pronotum broader than long, arcuately narrowed anteriorly, finely punctate (like head) with coarse pubescence of dark brown and light brown hairs which are arranged to several blurred spots and patches; anterior angles rounded, not visible from above; posterior angles acute with rounded edge, middle of base convexly extended; prosternal process long und narrow (Fig. 4). Scutellum triangular, with long light brown pubescence mainly on the posterior part; puncture finer and denser than on the pronotum. Elytra finely punctate, finer than on the pronotum; cuticle dark brown with two reddish-



Figs. 1–3. *Attagenus heinigi* n. sp., holotype. – 1. Habitus, dorsal aspect. 2. Antenna. 3. Aedeagus. – Scales: 1 mm (1), 0.1 mm (2, 3).

brown fasciae, apex covered by coarse light brown pubescence; other parts mainly with dark brown pubescence except the anterior part of the elytra which is covered with light brown hairs too; the shape and position of the serrated elytral bands are shown in Fig. 1. Legs light brown with long and coarse yellow brown pubescence; tarsi nearly as long as tibiae, the latter with two distinct spines apically, on the exterior side with short cilia in two irregular lines. All femora with lateral furrow for insertion of tibiae. Anterior tibiae with a short and indistinct furrow for the insertion of tarsi, middle and posterior tibiae without a furrow. Mesosternum and metasternum with dark brown pubescence. Abdominal sternites densely covered with long golden hairs. Male genitalia as shown in Fig. 3.

Fig. 4. *Attagenus heinigi* n. sp. Fore body showing the prosternal process (arrow).

Female: Habitus similar to male. Body measurements: TL 3.2 mm, EW 1.9 mm.

Variability

Measurements of paratypes: TL 2.7–3.2 mm, EW 1.6–1.9 mm. Dimension, shape and position of spots and fascia on the elytra are slightly variable.

Differential diagnosis

The new species is similar to *Attagenus donckieri* Pic, from which it differs in the following characters:

A. donckieri Pic: antennal club dark brown; cuticle dark brown with two reddish-brown fasciae, apex covered by coarse light brown pubescence not combined on suture; prosternal process very long and broad (Angola, Congo, Kenya).

A. heinigi n. sp.: antennal club black; cuticle dark brown with two reddish-brown fasciae, apex covered by coarse light brown pubescence combined on suture; prosternal process (Fig. 4) long and narrow (Namibia).

A. heinigi n. sp. differs from *A. apicebrunneus* Kalík (Kenya, Tanzania, Zimbabwe) by the colour of the antennae and the elytral apical spot: the antennae of *A. apicebrunneus* are entirely brown and the elytrae without an apical spot.

Remarks

Kalík determined specimens deposited in several institutions as "*Attagenus okahandjensis* sp. n.". This species, which has never been described by Kalík, is identical with the newly described one of the present paper. Schawaller (1994) cited the material from SMNS erroneously under the name *Attagenus okahandjensis* Kalík in his type catalogue of Coleoptera from SMNS.

3 List of the dermestid species from Namibia

Dermestini
Dermestes (Dermestinus) frischii Kugelann, 1792
Dermestes (Dermestinus) maculatus DeGeer, 1774
Dermestes (Dermestes) ater DeGeer, 1774
Dermestes (Dermestes) wittei Kalík, 1955

Thorictini
Thorictus namibensis John et Andreae, 1967

Trinodini
Evorinea rufotestacea (Pic, 1952)

Attagenini
Attagenus aurofasciatus Háva, 2005
Attagenus cinereus (Thunberg, 1815)
Attagenus fasciatus (Thunberg, 1795)
Attagenus heinigi n. sp.
Attagenus pardus Arrow, 1915

Anthrenini
Anthrenus (Anthrenus) flavipes flavipes LeConte, 1854
Anthrenus (Anthrenus) namibicus Háva, 2000
Anthrenus (Anthrenops) coloratus Reitter, 1881
Anthrenus (Anthrenops) splendidus Háva, 2004
Anthrenus (Nathrenus) arndti Háva, 2005

Megatomini
Phradonoma babaulti (Pic, 1921)
Phradonoma namibicum Háva, 2005
Phradonoma eximium (Arrow, 1915)
Phradonoma nobile (Reitter, 1881)
Trogoderma granarium Everts, 1898
Trogoderma inclusum LeConte, 1854

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Manuscript received: 8.IV.2006, accepted: 13.XII.2006.

ISSN 0341-0145

Autoren-Richtlinien: http://www.naturkundemuseum-bw.de/stuttgart/schriften
Schriftleitung: Dr. Hans-Peter Tschorsnig, Rosenstein 1, 70191 Stuttgart
Gesamtherstellung: Gulde-Druck, 72072 Tübingen

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: Stuttgarter Beiträge Naturkunde Serie A [Biologie]

Jahr/Year: 2007

Band/Volume: 705_A

Autor(en)/Author(s): Háva (Hava) Jiri, Herrmann Andreas

Artikel/Article: Attagenus heinigi n. sp. (Coleoptera: Dermestidae) from Namibia 1-6