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New synonyms, lectotype designations, and new records in Dermestidae (Coleoptera: Bostrichoidea)

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ABSTRACT. Following new synonyms are proposed: *Anthrenus pimpinellae isabellinus* KÜSTER, 1848 (= *Anthrenus pimpinellae* var. *niveipennis* J. SAHLBERG, 1903 syn. n.); *Anthrenus flavipes flavipes* LE CONTE, 1854 (= *Anthrenus fasciatus* var. *alboimpletus* J. SAHLBERG, 1903 syn. n.); *Anthrenus scrophulariae scrophulariae* (LINNAEUS, 1758) (= *Anthrenus scrophulariae* var. *rubricollis* J. SAHLBERG, 1913 syn. n.); *Orphnus globulicornis* (REITTER, 1908) (= *Trogoderma (Orbeola) rubromaculatum* J. SAHLBERG, 1913 syn. n.); *Globicornis signatipennis* PIC, 1899 stat. n. (= *Globicornis bicruciata* J. SAHLBERG, 1913 syn. n.); *Attagenus simonis* REITTER, 1881 (= *Attagenus bifasciatus* var. *sexmaculatus* J. SAHLBERG, 1913 syn. n.). Lectotypes are designated for: *Trogoderma dichroa* REITTER, 1900; *Trogoderma (Orbeola) rubromaculatum* J. SAHLBERG, 1913; *Anthrenus fasciatus* var. *alboimpletus* J. SAHLBERG, 1903; *Attagenus curvicornis* J. SAHLBERG, 1913; *Globicornis bicruciata* J. SAHLBERG, 1913. *Phradonoma dichroum* (REITTER, 1900) is recorded for the first time from Kazakhstan and *Globicornis signatipennis* PIC, 1899 from Lebanon and Jordania.

Key words: entomology, taxonomy, synonymy, lectotype designations, distribution, Coleoptera, Dermestidae, Palaearctic region

INTRODUCTION

When preparing a manuscript of the Dermestidae part to the “Catalogue of Palaearctic Coleoptera” (edited by I. LÖBL and A. SMETANA), I found some nomenclatural and taxonomical errors which should be corrected before publication of the catalogue. The lectotypes and paralectotypes are designated in order to preserve the stability of nomenclature in this group, according to Article 74.7.3. of the Code (ICZN 1999).

Comments on the material are given in square brackets. A slash (\) divides data on different labels.

The lectotypes and the paralectotypes are provided with one red label "LECTOTYPE [or PARALECTOTYPE, respectively] *name of taxon* Jiří Háva design. 2003"; other specimens are provided with one white label "*name of taxon* Jiří Háva revid. 2003".

Following abbreviations refer to the collections: HNHM – Hungarian Natural History Museum, Budapest, Hungary; JHAC – Jiří HÁVA collection, Prague, Czech Republic; MNHN – Muséum National d'Histoire Naturelle, Paris, France; MZHF – Zoological Museum, University of Helsinki, Finland; NHMI - Natural History Museum, Tel Aviv, Israel.

RESULTS

Anthrenus pimpinellae isabellinus KÜSTER, 1848

Anthrenus pimpinellae isabellinus KÜSTER, 1848: 38.

Anthrenus pimpinellae var. *niveipennis* J. SAHLBERG, 1903: 34; **syn. n.**

TYPE MATERIAL. *Anthrenus pimpinellae* var. *niveipennis*: holotype (not dissected), labelled: "Constantine" [Algeria] \ "J. Sahlb." [Sahlberg] \ (MZHF).

ADDITIONAL MATERIAL. "Algeria bor., Yacouren, 21-23.6.1971, Hoffer & Horák lgt." (JHAC), 1 spec. not dissected, J. Háva det. and compared with holotype of *Anthrenus pimpinellae* var. *niveipennis*.

REMARKS. *A. pimpinellae* var. *niveipennis* does not differ from the subspecies *A. p. isabellinus* and is therefore considered its junior synonym.

Anthrenus flavipes flavipes LE CONTE, 1854

Anthrenus flavipes flavipes LE CONTE, 1854: 112.

Anthrenus fasciatus var. *alboimpletus* J. SAHLBERG, 1903: 34; **syn. n.**

TYPE MATERIAL. *Anthrenus fasciatus* var. *alboimpletus*: syntype (female), labelled: "Biskra" [Algeria] \ "J. Sahlb." [Sahlberg] \ "Mus. Zool. H:fors, Spec. typ. No. 751, *Anthrenus fasciatus* v. *albo-impletus* J. S." \ "*Anthrenus fasciatus* Hbst. var." \ . According to the original description the type series was large, but author for the present study borrowed only one syntype. The female syntype is here designated as lectotype (MZHF).

ADDITIONAL MATERIAL. "Abadla, Alg. [Algeria], V. Zoufal [lgt.]" (JHAC), 1 female, J. Háva det. and compared with lectotype of *Anthrenus fasciatus* var. *alboimpletus*.

REMARKS. *A. flavipes* var. *alboimpletus* does not differ from the nominotypical subspecies *A. f. flavipes*. It is therefore considered a junior synonym of *A. flavipes flavipes*.

***Anthrenus scrophulariae scrophulariae* (LINNAEUS, 1758)**

Dermestes scrophulariae LINNAEUS, 1758: 356.

Anthrenus scrophulariae var. *rubricollis* J. SAHLBERG, 1913b: 109; **syn. n.**

TYPE MATERIAL. *Anthrenus scrophulariae* var. *rubricollis*: holotype (not dissected), labelled: "Syria" \ "Sanamein" \ "J. Sahlb." [Sahlberg] \ "Mus. Zool. H:fors, Spec. typ. No. 1917, *Anthrenus scrophulariae* v. *rubricollis*" \ "*A. Scrophulariae* v. *rubricollis* J. S." \ . Holotype is deposited in (MZHF).

REMARKS. *A. scrophulariae* var. *rubricollis* differs from the nominotypical subspecies only in the colour of pronotal scales (Fig. 1). Other diagnostic characters are the same as in *A. scrophulariae scrophulariae*; it is considered a junior synonym of *A. scrophulariae scrophulariae*.

***Phradonoma dichroum* (REITTER, 1900)**

Trogoderma dichroa REITTER, 1900: 219.

Phradonoma dichroum: DALLA TORRE 1911: 65.

TYPE MATERIAL. *Trogoderma dichroa*: syntypes [Nos. 1-3] (not dissected), labelled: "Issyk kul" [Kyrgyzstan] \ "J. Sahlb." [Sahlberg] \ "Spec. typ." \ "*Trogoderma dichroa* Reitter m." \ . Syntype No. 1 is here designated as lectotype and syntypes Nos. 2-3 as paralectotypes (MZHF).

ADDITIONAL MATERIAL. "Kazakhstan, Tarbagatai Mts., 1200-1500 m, 13-20.vi.1996, [A.] Plutěnko lgt." (JHAC), 1 female, compared with lectotype.

REMARKS. The species was so far known only from Kirgizstan (ZHANTIEV 1976). New to the fauna of Kazakhstan.

***Orphinus globulicornis* (REITTER, 1908)**

(Figs 2-4)

Aethriosia globulicornis REITTER, 1908: 46.

Aethriosia globulicornis var. *boehmi* REITTER, 1908: 46.

Aethriosia globulicornis var. *ferrantei* REITTER, 1908: 46.

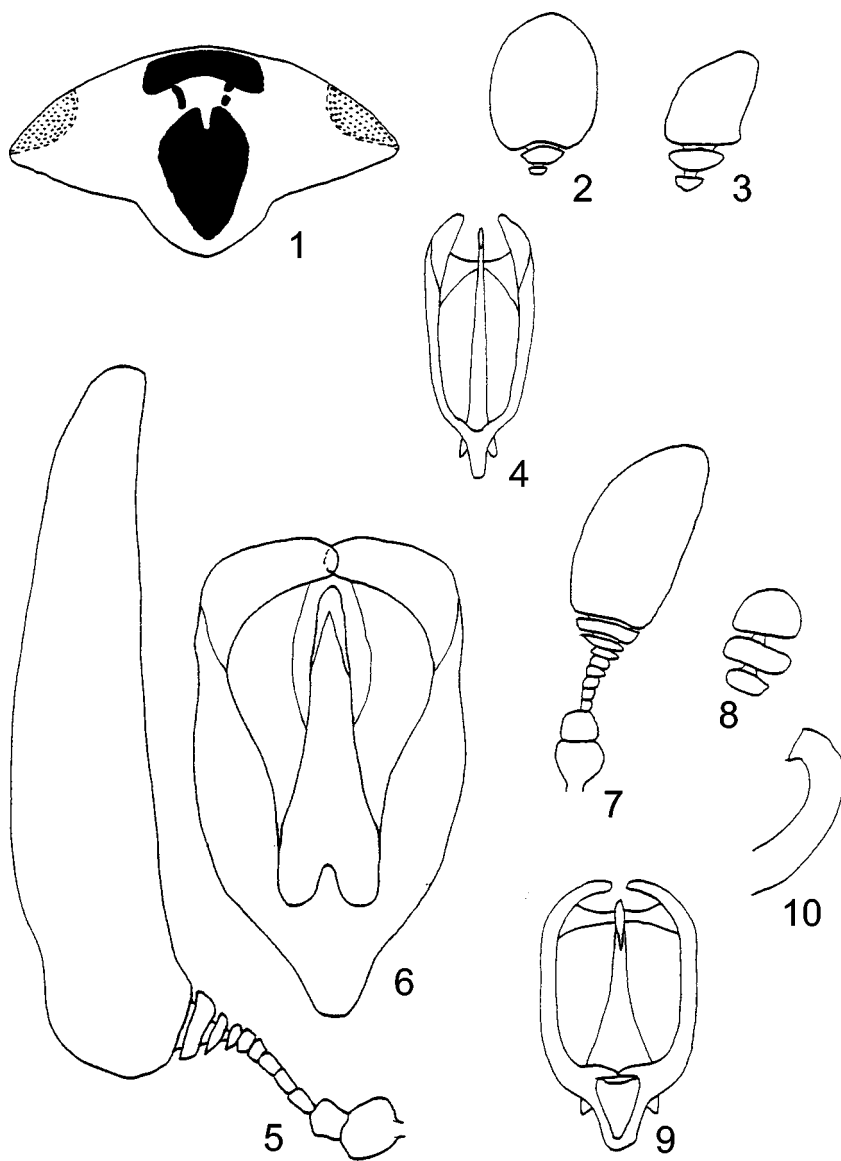
Trogoderma (Orbeola) rubromaculatum J. SAHLBERG, 1913a: 29; **syn. n.**

Trogoderma rubromarginatum J. SAHLBERG, 1913b: 109 (error of *rubromaculatum*) nomen nudum.

Orphinus globulicornis: ARROW 1915: 438.

Phradonoma rubromaculatum: MROCKOWSKI 1968: 111.

TYPE MATERIAL. *T. rubromaculatum*: syntypes [Nos. 1-2] (females), labelled: "Cairo" [Egypt] \ "U. Sahlb. [Sahlberg] \ "*T. Orbeola rubromaculata* J. Sahlberg, Spec. Typ.", syntype [No. 3] (male), labelled: "Cairo" [Egypt] \ "J. Sahlb. [Sahlberg] \ "*T. Orbeola rubromaculata* var. *b* J. Sahlberg, Spec. Typ." \ . Syntype No. 1 is designated here as lectotype and Nos. 2-3 as paralectotypes (all in MZHF); *Aethriosia globulicornis*: holotype (male), labelled: "Cairo" \ "Aegyptus Reitter" \ ; *Aethriosia globulicornis* var. *boehmi*: holotype (female), labelled:



1. *Anthrenus scrophulariae* var. *rubricollis* J. SAHLBERG: 1 - pronotum [dotted area = white scales, black area = black scales, white area = orange scales]; 2-4. *Orphinus globulicornis* (REITTER, 1908) [= *Trogoderma (Orbeola) rubromaculatum* J. SAHLBERG]: 2 - antennal club of male, 3 - antennal club of female, 4 - male genitalia; 5, 6. *Attagenus curvicornis* J. SAHLBERG 1913: 5 - antenna of male, 6 - male genitalia; 7-10. *Globicornis signatipennis* PIC, 1899: 7 - antenna of male, 8 - antennal club of female, 9 - male genitalia, 10 - apex of aedeagus in lateral view (all figures are schematic, without setation)

“Cairo“ \ “Aegyptus Reitter“ \; *Aethriosia globulicornis* var. *ferrantei*: holotype (male), labelled: “Cairo“ \ “Aegyptus Reitter“ \. All holotypes are deposited in (HNHM).

REMARKS. *Trogoderma (Orbeola) rubromaculatum* has the diagnostic characters of *Orphinus globulicornis* and is placed here in its synonymy. *T. rubromarginatum* J. SAHLBERG, 1913b is a misspelling of *T. rubromaculatum*. The antennae of both sexes and the male genitalia are figured below (Figs 2-4).

***Attagenus curvicornis* J. SAHLBERG, 1913**

(Figs 5-6)

Attagenus (Telopes) curvicornis J. SAHLBERG, 1913a: 26.

Attagenus curvicornis: MROCZKOWSKI 1968: 83.

TYPE MATERIAL. *Attagenus (Telopes) curvicornis*: syntypes [Nos. 1-3] (males), labelled: “Fajum“ [Egypt] \ “J. Sahlb.“ [Sahlberg] \ “*Telopes curvicornis* J. Sahlb., Spec. Typ.“ \. Syntype No. 1 is designated here as lectotype (MZHF) and Nos. 2-3 as paralectotypes (No. 2 MZHF, No. 3 JHAC).

REMARKS. Antenna of male and male genitalia are figured here (Figs 5-6) for the first time.

***Attagenus simonis* REITTER, 1881**

Attagenus simonis REITTER, 1881: 34.

Attagenus bifasciatus var. *simonis*: REITTER 1906: 378.

Attagenus bifasciatus var. *sexmaculatus* J. SAHLBERG, 1913b: 107; **syn. n.**

TYPE MATERIAL. *Attagenus bifasciatus* var. *sexmaculatus*: syntype (male), labelled: “Kana Gal.“ [Israel] \ “U. Sahlb.“ [Sahlberg] \ “*Attagenus bifasciatus* var. 6 *maculatus* J. S.“ [Sahlberg] \. According to original description the type series was large, but author for the present study borrowed only one syntype. The male syntype is here designated as lectotype (MZHF).

ADDITIONAL MATERIAL: “Syrien, Haifa, Reitter“ (JHAC), 1 male, 1 female, J. Háva det. and compared with lectotype of *A. bifasciatus* var. *sexmaculatus*.

REMARKS. The aedeagus is lost in the lectotype of var. *sexmaculatus*. *A. bifasciatus* var. *sexmaculatus* does not differ from *A. simonis* and is therefore considered a junior synonym of *A. simonis*.

***Globicornis (Globicornis) signatipennis* PIC, 1899 stat. n.**

(Figs 7-10)

Globicornis rufoguttata var. *signatipennis* PIC, 1899: 255.

Globicornis bicrucata J. SAHLBERG, 1913a: 28; **syn. n.**

TYPE MATERIAL. *Globicornis bicrucata*: syntypes [Nos. 1-2] (males), labelled: "Damascus" [Syria] \ "U. Sahlb." [Sahlberg] \ "2792" \ "*Globicornis bicrucata* J. S. [Sahlberg]" \; syntypes [Nos. 3-4] (not sexed), labelled: "Damascus" [Syria] \ "J. Sahlb." [Sahlberg] \ "3006" \; syntype [No. 5] (female), labelled: "Judea" [Israel] \ "U. Sahlb." [Sahlberg] \ . Syntype No. 1 is designated here as lectotype and Nos. 2-5 as paralectotypes (all in MZHF).

ADDITIONAL MATERIAL. "ISRAEL, Neue Ativ, 26.iv.1974, D. Furth lgt.", 4 males, 2 females, J. Háva det. (JHAC, NHMI); "LIBAN, Taanâyel (Zahle), 24.iv.1999, H. Brustel lgt.", 1 male, 1 female, J. Háva det. (JHAC); "JORDANIA, Wald b. Jerash, 1.v.1957, J. Klapperich lgt.", 1 male, 1 female, J. Háva det. (JHAC).

REMARKS. *G. signatipennis* was described as a variety of *G. rufoguttata* [type material unknown to me but it is probably deposited in MNHN]. It differs from *rufoguttata* in the pattern of elytra (in *rufoguttata* each elytron has two broad yellowish-brown bands; in *signatipennis* each elytron has three yellow bands or two yellow bands and few isolated spots), the structure of antennae, and the shape of male genitalia. SAHLBERG (1913a) described *Globicornis bicrucata* from Syria and recorded it also from Israel (1913b). *G. bicrucata* SAHLBERG has the diagnostic characters of *G. signatipennis* PIC and is placed in synonymy of *G. signatipennis*. Antennae of both sexes and the male genitalia are figured (Figs 7-10). The species was known from Syria and Israel, and is newly recorded from Lebanon and Jordania.

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