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Contribution to the Dermestidae from Kyrgyzstan (Coleoptera: Bostrichoidea)

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Abstract. *Globicornis* (*Globicornis*) *apicalis* sp. n. from Kyrgyzstan is described, illustrated and compared with related taxa. Four species of Dermestidae are reported and the following ones represent complementary records for Kyrgyzstan.

Key words: entomology, taxonomy, new species, faunistics, Coleoptera, Dermestidae, *Anthrenus*, *Globicornis*, Kyrgyzstan

INTRODUCTION

Genus *Globicornis* Latreille in Cuvier, 1829 contains about 30 species of which only one occurs in Kyrgyzstan (Háva 2003, 2008).

The present study concerns the dermestid material collected by Polish entomologists on expedition in Kyrgyzstan in the year 2003. Authors give faunistic notes and describe one new species within specimens collected.

MESUREMENTS AND METHODS

Explanation of abbreviations:

ALC Private collection of Andrzej Lasoń, Białystok, Poland;
JHAC Jiří Háva, Private Entomological Laboratory and Collection, Praha-západ, Czech Republic;

MKC Marcin Kadej, Department of Biodiversity and Evolutionary Taxonomy Collection, University of Wrocław, Poland;
RKC Private collection of Roman Królik, Kluczbork, Poland;
BL Body length (measured from the head anterior margin to the apex of the elytra);
BW Body width (measured between two anterolateral humeral calli).

The morphological structures were observed under phase contrast microscope Nikon Eclipse E 600 with drawing attachment in transparent light in glycerin. All morphological structures were put into plastic micro vials with glycerin under proper specimens. Photos were taken with the camera Nikon Coolpix 4500.

The distribution and classification of Dermestidae is after Háva (2007).

RESULTS

Anthrenus (*Anthrenops*) *coloratus* Reitter, 1881

Material examined

Kyrgyzstan, Jalal-Abad r., 40°56´N/73°00´E, Jalal-Abad, 21.6.2003, R. Królik lgt., 2 females, (1 RKC, 1 MKC).

Distribution

Species known from Europe, Canary Is., Turkey, Algeria, Egypt, Eritrea, Guinea, Morocco, Namibia, Sudan, Tunisia, USA, Afghanistan, India, Israel, Iraq, Kazakhstan, Kyrgyzstan, Oman, Qatar, Saudi Arabia, Syria, Tadzhikistan, Turkmenistan, United Arab Emirates and Yemen (Zhantiev 1976; Háva 2003, 2007, 2008).

Anthrenus (*Florilinus*) *kompatzevi* Zhantiev, 2004

(Figs 1, 2, 5-8)

Material examined

Kyrgyzstan, Chüy r., 42°32´N/73°52´E, 1530 m, canyon of Kara-Balta riv., Kyrgyz Ala-Too Mts., 17.06.2003, Roman Królik lgt. 1 ex. (RKC), 1 ex. (JHAC), 1 ex. (MKC).

Remarks

Because of poor illustrated oryginal description we have included photos of habitus and figures of antenna and male genitalia.

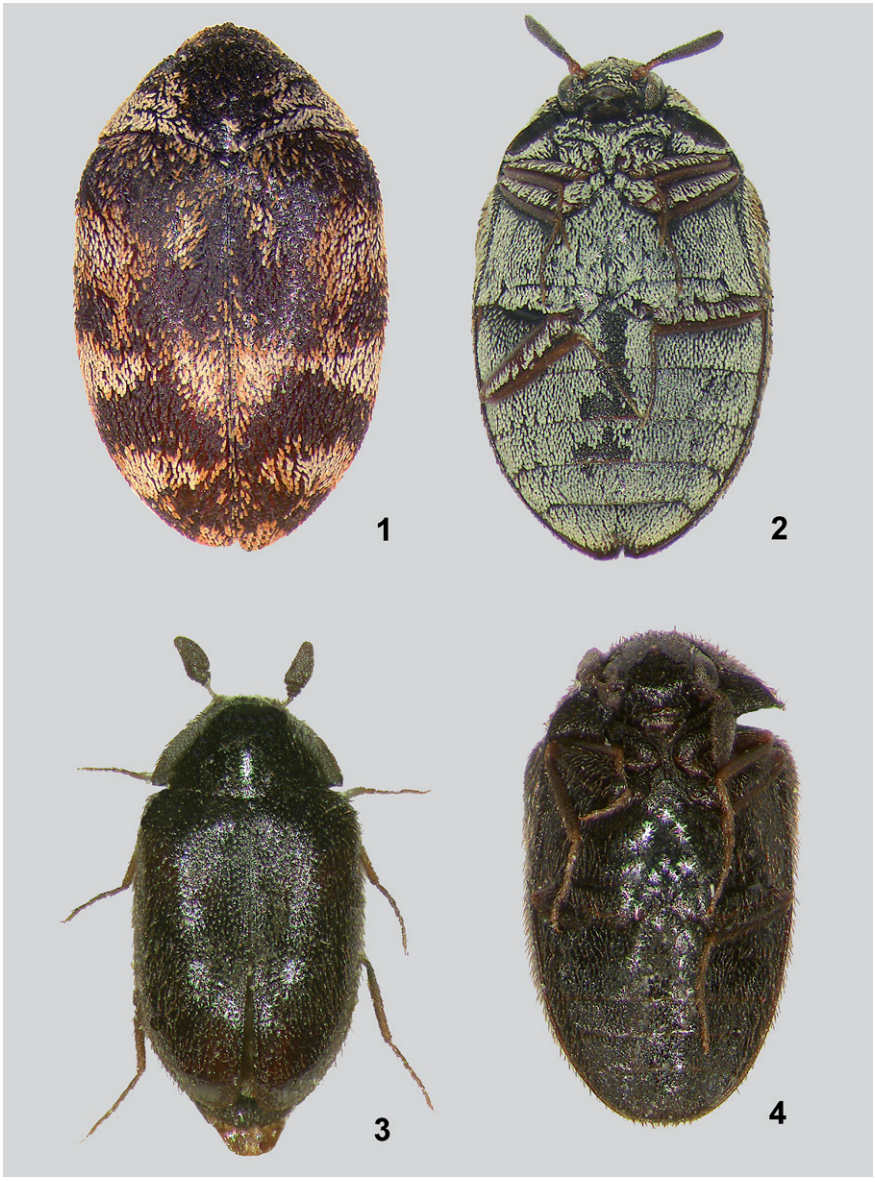
Distribution

Species known from Kyrgyzstan (Zhantiev 2004).

Anthrenus (*Ranthenus*) *kryzhanovskii* Sokolov, 1979

Material examined

Kyrgyzstan, Chüy r., 42°36´N/74°29´E, 1300m, Ala-Archa valley, ca 30 km S of Bishkek, 15-16.06.2003, Roman Królik lgt., 2 exx., (RKC); the same but 28-29.06.2003, 1 ex., (MKC).



1-4. *Anthrenus* (*Florilinus*) *kompatzevi* Zhantiev, 2004: 1- habitus (dorsal aspect); 2 - habitus (ventral aspect); *Globicornis* (*Globicornis*) *apicalis* sp. n.: 3 - habitus (dorsal aspect); 4 - habitus (ventral aspect)

Distribution

Species known from Kyrgyzstan and Turkmenistan (Zhantiev 1976; Háva 2003, 2007, 2008).

Anthrenus (*Solskinus*) *sogdianus* Zhantiev, 1976

Material examined

Kyrgyzstan, Ysyk-Köl r., 42°17´N/76°00´E, 1760 m, Orto-Tokoy env., 24 km SW of Balykchy, 16.06.2003, Roman Królik lgt., 1 ex., (RKC); Kyrgyzstan, Chüy r., 42°41´N/75°53´E, 1350 m, ca 50 km E of Tokmok, 13.06.2003, Roman Królik lgt., 1 ex. (RKC), 1 ex. (JHAC), 1 ex. (MKC).

Distribution

Species known from Kyrgyzstan and Tadzhikistan (Zhantiev 1976; Háva 2003, 2007, 2008).

Globicornis (*Globicornis*) *apicalis* n. sp.

(Figs 3, 4, 9-10)

Type material

Holotype (male): Kyrgyzstan, Chüy r., 42°41´N/75°53´E, 1350 m, Künggöly Ala-Too Mts., ca 50 km E of Tokmok, 5.vi.2003, Andrzej Lasoń leg. (ALC). Paratypes (2 males): Kyrgyzstan, Chüy r., 42°41´N/75°53´E, 1350 m, ca 50 km E of Tokmok, 5.vi.2003, Roman Królik lgt., (1 RKC, 1 JHAC). Specimens provided with red, printed label: „HOLOTYPE [or PARATYPE, respectively] *Globicornis* (*Globicornis*) *apicalis* sp. n. J. Háva & M. Kadej det. 2008".

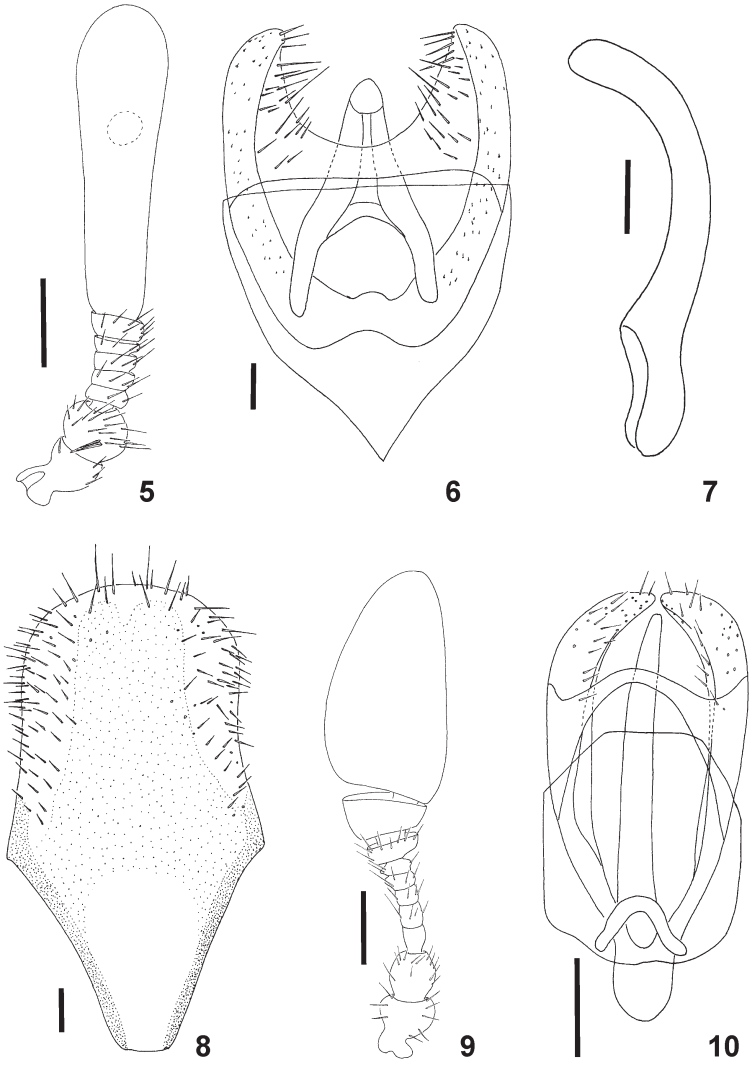
Description

Body (BL: 2.22; BW: 1.35) long and narrow with sides subparallel, elytra slightly expanded behind middle. Color of head, pronotum and elytra dark brown almost black (Figs 3), undersurfaces dark brown with legs lighter (Figs 4). Pubescens of dorsal surfaces yellowish-gray. Punctation of head, pronotum and elytra craterform. Antennae black, ten segmented, antennal club three segmented, densly clothed with very fine erect setae (Figs 9). Each elytron without patterns, only with brownish apical part. Prosternal process long, narrow, with sides parallel to apex. Mesosternal sulcus very shallow, becoming evanescent posteriorly. Genitalia as in fig. 10.

Differential diagnosis

Because of ten segmented antennae the new described species belongs to the nominotypical subgenus. The new species is externally very similar to *G*. (*G*.) *quadrinaevus* Reitter, 1908 (Kazakhstan, Tadzhikistan) and *G*. (*G*.) *quadripunctata* Zhantiev, 1975 (Kazakhstan, Kyrgyzstan), but differs from them by the following characters:

1. Each elytron with two orange or reddish patterns ..... 2.
–. Each elytron without patterns, only with brownish apical part; antennae black …..... *G.* (*G.*) *apicalis* n. sp.
2. Antennae yellow or light brown; elytra with yellow pubescence …….....
..... *G.* (*G.*) *quadrinaevus* Reitter, 1908
–. Antennae dark-brown; elytra with yellow and brown pubescence ….....
..... *G.* (*G.*) *quadripunctata* Zhantiev, 1975



5-10. *Anthrenus* (*Florilinus*) *kompatzevi* Zhantiev, 2004: 5 - male antenna; 6 - male genitalia; 7 - median lobe; 8 - 9th abdominal sternite; *Globicornis* (*Globicornis*) *apicalis* sp. n.: 9 - male antenna; 10 - male genitalia. Scale bar: 0.1 mm

From other species within the subgenus, new species differs by the colour of elytra, form of antennae and morphology of male genitalia. From *G.* (*Pseudomesalia*) *quadriguttatus* (Reitter, 1878) differs in the number of antennal segments: nine in *G.* (*P.*) *quadriguttatus* (Reitter, 1878) and ten in *G.* (*G.*) *apicalis* n. sp.

Name derivation

Species named according to the brownish apical part of elytra.

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