ACTA ENTOMOLOGICA SLOVENICA

LJUBLJANA, DECEMBER 2006 Vol. 14, št. 2: 157–161

CONTRIBUTION TO THE KNOWLEDGE OF SPECIES OF THE GENUS *ANTHRENUS,* SUBGENUS *FLORILINUS* FROM BULGARIA (COLEOPTERA: DERMESTIDAE: ANTHRENINI)

Jiří HÁVA

Private Entomological Laboratory and Collection, Branická 13/574, CZ-147 00 Praha 4, Czech Republic, e-mail: jh.dermestidae@volny.cz

Abstract – *Anthrenus* (*Florilinus*) *kourili* sp. n. is described, illustrated and compared with all known species of the subgenus *Florilinus* Mulsant et Rey, 1868 occurring in Bulgaria. The *Anthrenus* (*F.*) *olgae* Kalík, 1946 is recorded from Bulgaria for the first time.

KEY WORDS: Taxonomy, distribution, new species, Coleoptera, Dermestidae, *Anthrenus*, Bulgaria.

Izvleček – PRISPEVEK K POZNAVANJU VRST RODU *ANTHRENUS*, PODRODU *FLORILINUS*, IZ BOLGARIJE (COLEOPTERA: DERMESTIDAE: ANTHRENINI)

Vrsta *Anthrenus* (*Florilinus*) *kourili* sp. n. je opisana, prikazana in primerjana z vsemi znanimi vrstami podrodu *Florilinus* Mulsant et Rey, 1868, ki živijo v Bolgariji. Vrsta *Anthrenus* (*F.*) *olgae* Kalík, 1946, je prvič najdena v Bolgariji.

KLJUČNE BESEDE: taksonomija, razširjenost, nova vrsta, Coleoptera, Dermestidae, *Anthrenus*, Bolgarija.

Introduction

The family Dermestidae is one of the commonly known beetle families and it currently includes about 1300 species or subspecies worldwide (Háva 2003, 2006). Dermestidae from Bulgaria were treated by Angelov (1988) and Mroczkowski (1965) and listed in dermestid catalogues by Mroczkowski (1968) and Háva (2003). During the determination of some material deposited in the National Museum, Prague, Czech Repuiblic, I found one new species and a new faunistic record of another one.

Material and methods

The shades of colours used in the descriptions are classified according to Paclt (1958), integumental structures are named according to Harris (1979). Locality labels of the mentioned material are cited in the original version. Separate labels are indicated by slashes (\ ). Remarks of the author are found in brackets [ ].

The size of the beetles or of their body parts can be useful in the species recognition and thus the following measurements were made:
total length (TL) – linear distance from anterior margin of pronotum to apex of elytra.
pronotal length (PL) – maximum length measured from anterior margin to posterior margin.
pronotal width (PW) – maximum linear transverse distance.
elytral length (EL) – linear distance from shoulder to apex of elytron.
elytral width (EW) – maximum linear transverse distance.

The following acronyms refer to the collections, in which the examined material is deposited: NMPC = National Museum, Prague, Czech Republic (V. Švihla); JHAC = author´s collection.

Taxonomy

Anthrenus (Florilinus) kourili sp. n.

Type material. Holotype (male): "Bulgaria, B. Kouřil [lgt.]" \ "Krupnik, Kresn. defile" \ "*Anthrenus museorum* B. Kouřil det." \ "6447" \ "coll. Kouřil P5/46/62". Paratypes: (11 males, 8 females): the same data as holotype; (1 male): "Bulgaria, B. Kouřil [lgt.]" \ "Selo Vlachl, Pyrin planina" \ "*Anthrenus museorum* B. Kouřil det." \ "6447" \ "coll. Kouřil P5/46/62". Holotype and 15 paratypes deposited in NMPC, 4 paratypes (2 males, 2 females) in JHAC. Specimens of the presently described species are provided with a red, printed label with text as follows: „HOLOTYPE [or PARATYPE, respectively] *Anthrenus (Florilinus) kourili* sp.n. Jiří Háva det. 2005".

Description of holotype. Male body measurements (mm): TL 2.25 PL 0.6 PW 1.07 EL 1.67 EW 1.45.; body oval, black. Dorsal surfaces covered by brown and yellow scales. Head covered by intermixed brown and yellow scales. Labrum emarginate. Lacinia without apex, moderately sclerotized with a medially directed small spine. Frontal median ocellus present. Antennae 8-segmented, antennal segments I-VI brown, VII-VIII black; club 2-segmented, compact (Fig. 1). Eye with complete median margin. Pronotum covered by intermixed brown and yellow scales. Each elytron covered by brown scales, with three illdefined transverse bands covered by intermixed brown and yellow scales; one band on the humeral area, the second one in the middlength and third one before apex of elytra. Scales of elytral disc triangular. Ventral surfaces covered by yellow scales; particular abdominal sternites not bearing small spots of scales at antero-lateral margins. Visible abdominal sternites I-IV without spots in the middle and covered with yellow scales. Prosternum with only yellow scales. Metasternum with yellow scales, without a

large patch at lateral margins. Legs brown, with yellow scales and yellow microsetae. Male genitalia: Fig. 3.

Female. Dorsal and ventral surfaces covered by only yellow scales. Shape of antenna shows sexual dimorphism (Fig. 2).
Variability. Body measurements (mm): TL 2.03-2.3 PL 0.57-0.65 PW 1.0-1.13 EL 1.62-1.85 EW 1.35-1.55.

Differential diagnosis. The new species is habitualy very similar to *A*. (*F*.) *sveci* Háva 2004 and *A*. (*F*.) *flavidulus* Solsky, 1876, but differs from them by the following characters:

1(2) antennal segments VII-VIII black; lacinia without apex moderately sclerotized with a medially directed small spine (Bulgaria) .....*A*. (*F*.) *kourili* sp. n.
2(1) antennae entirely brown
3(4) lacinia with apex moderately sclerotized with a medially directed spine; spine variable in size; labrum emarginate; scales on elytra brown, bands covered with yellow scales or variable elytra covered only with yellow scales (females); ventral surface covered with yellow scales; length 1.6-2.2 mm (Greece) ……..…..……..... *A*. (*F*.) *sveci* Háva, 2004
4(3) lacinia without apex moderately sclerotized with a medially directed small spine; spine not very variable in size; scales on elytra brown, bands on elytra covered with greyish-yellow scales or variable elytra covered only with greyish-yellow scales (females); ventral surface covered with white scales; length 1.2-3.4 mm (Poland (introduced), Turkey, Caucasus, Kazakhstan, Turkmenistan, Afghanistan, Uzbekistan, Kirghizistan, Tadzhikistan, N China) ……..……. *A*. (*F*.) *flavidus* Solsky, 1876

Name derivation. Patronymic, in memory of the collector of the new species Bohumil Kouřil (1909-1958).

Anthrenus (Florilinus) museorum (Linnaeus, 1761)

Material examined: Bulgaria, Pirin [mountains], Popina luka, 1500 m, 23.VII.[19]56, L. Hoberlandt lgt., 1 male, J. Háva det. (JHAC).
Distribution. Cosmopolitan species (Háva 2003), from Bulgaria mentioned by Angelov (1988).

Anthrenus (Florilinus) olgae Kalík, 1946

Material examined: Bulgaria, [Pirin mountains] Melnik [41° 31´ N 23° 23´ E], 16-19.6.1973, J. Horák lgt., 1 female, V. Kalík det. as *A. olgae ?* 1985, J. Háva revid., (JHAC).
Distribution. Species known from Austria, Czech Republic, England, Finland, Germany, Hungary, Latvia, Poland, Slovakia, Sweden, Ukraine and Yugoslavia (Háva 2003). First reliable record from Bulgaria.

Key to Bulgarian *Florilinus* species

1(2) pronotum entirely covered by white scales; scales of elytral disc more parallel-sided; abdominal sternites covered by white scales .....*A. olgae* Kalík, 1946

2(1) pronotum covered by black or brown and white or yellow scales; scales of elytral disc triangular

3(4) pronotum of male covered by intermixed brown and yellow scales, female entirely yellow scales; abdominal sternites covered by yellow scales; antennal segments VII-VIII of male and female black.....*A. kourili* sp. n.

4(3) pronotum of both genders covered by intermixed black and white or yellow scales; abdominal sternites laterally with small patches of black or yellow scales; antennae of female entirely brown, segments VII-VIII of male dark-brown .....*A. museorum* (Linnaeus, 1761)

References

Angelov P., 1988: Über die Arten der Familie Dermestidae in Bulgarien. *Trudy Plovdivskovo Universiteta Paisii Khilendarski* 26: 151-161. (in Bulgarian, German summary)

Harris R. A., 1979: The glossary of surface sculpturing. *Occasional Papers in Entomology* 28: 1-31.

Háva J., 2003: World Catalogue of the Dermestidae (Coleoptera). *Studie a zprávy Oblastního Muzea Praha-východ v Brandýse nad Labem a Staré Boleslavi*, Supplementum 1: 1-196.

Háva J., 2006: Dermestidae World (Coleoptera). World Wide Web electronic publication: http://www.dermestidae.wz.cz

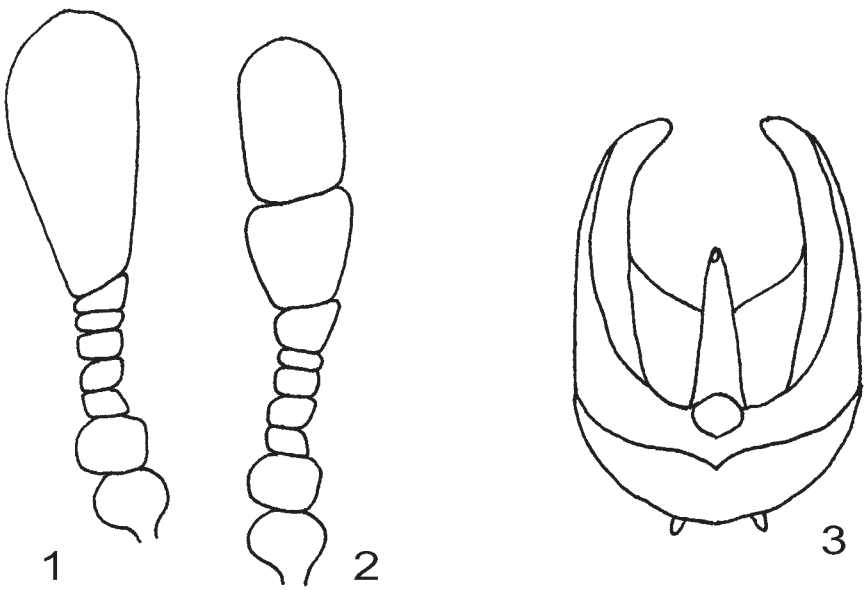
Mroczkowski M., 1958: Dermestidae (Coleoptera) collected in Bulgaria by members of the staff on the Zoological Institute of the Polish Academy of Sciences in the years 1950 and 1956. *Fragmenta Faunistica, Warszawa* 8: 1-9.

Mroczkowski M., 1965: Ergebnisse der Albanien-Expedition 1961 des Deutschen Entomologischen Institutes. 36. Beitrag. (Col.: Dermestidae). *Beiträge Entomologie, Berlin* 15: 665-671.

Mroczkowski M., 1968: Distribution of the Dermestidae (Coleoptera) of the world with a catalogue of all known species. *Annales Zoologici* 26: 15-191.

Paclt J., 1958: Farbenbestimmung in der Biologie. Jena, VEB Gustav Fischer Verlag, 76 pp.

Received / *Prejeto:* 29. 6. 2006



Figs 1-3: *Anthrenus* (*Florilinus*) *kourili* sp. n., 1- antenna of male; 2- antenna of female; 3- aedeagus..

Symposium Internationale Entomo=
faunisticum Europae Centralis XX
Cluj, **26 - 30. Mai 2007**

SIEEC 20
CLUJ 2007

XX. SIEEC - Mednarodni simpozij o entomofavnistiki srednje Evrope

V Cluju (Klužu), Romunija, bo prihodnje leto med 26. in 30. majem potekal že 20. simpozij o entomofavnistiki srednje Evrope.

Prva dva dneva bosta posvečena predavanjem in ogledom posterjev na univerzi Babes-Bolyai v Cluju, naslednje tri dneve pa bodo udeleženci prebili v gorovju Apuseni in biološki postaji v Rimeteji. To območje je znano po svoji bogati favni in flori.

Posebna pozornost bo posvečena moderni taksonomiji, favnistiki in posebej spremembam razširjenosti posameznih vrst, nevarnosti širjenja nekaterih vektorjev bolezenskih povzročiteljev v srednji Evropi, filogeniji žuželk in varovanju "vročih točk" in področij z visoko biotsko pestrostjo.

Več podrobnosti o simpoziju lahko izveste na spletnih naslovih glavnega organizatorja prof. Laszla Rakosyja in sodelavcev:

laszlorakosy@hasdeu.ubbcluj.ro
luiza@hasdeu.ubbcluj.ro

... ali na poštnem naslovu:
Prof. Laszlo Rakosy
Chair of Taxonomy and Ecology
Str. Clinicilor 5-7
3400 Cluj-Napoca
Romania