

## Rectifications in the species list of subfamily Acmaeoderinae (Coleoptera: Buprestoidea) from the Romanian fauna

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### Rezumat

Rectificări în lista de specii a subfamiliei Acmaeoderinae (Coleoptera: Buprestoidea) din fauna României

În urma investigațiilor și revizuirilor pe care le-am efectuat până acum, ne considerăm în măsură a modifica statutul a două specii semnalate în fauna de buprestide a României.

*Acmaeodera cylindrica* (FABRICIUS 1775) (= *convolvuli* WALT. 1836) a fost semnalată o singură dată în fauna țării, de PETRI (1912), un exemplar colectat din zona localității Făgăraș (BIELZ 1887). Citarea prezenței speciei în România a fost preluată de OBENBERGER (1926), KASZAB (1940) și CURLETTI (1994). Noi am verificat materialul de buprestide din colecțiile de coleoptere ale lui PETRI și ale Societății Ardelene<sup>1</sup> (în care se află și materialul colectat de BIELZ) păstrate la Muzeul de Istorie Naturală de la Sibiu, dar nu am mai găsit nici un exemplar etichetat *Acmaeodera convolvuli*, Făgăraș, 1887, leg. BIELZ.

*Acmaeoderella* (*Euacmaeoderella*) *gibbulosa* (MÉNÉTRIES 1932)<sup>2</sup> a fost semnalată în urma unei determinări greșite, de JAQUET (1900-1904) și preluată de FLECK (1905) și MONTANDON (1906, 1908). Arealul acestei specii nu cuprinde teritoriul României. Această semnalare a fost utilizată ulterior în alte liste (OBENBERGER 1926, NEGRU & ROSCA 1967 - citat din FLECK și MONTANDON, RUCĂNESCU 1992a, b). După verificarea exemplarelor s-a constatat că exemplarele etichetate astfel, aparțin de fapt speciei *Acmaeoderella* (*s. str.*) *circassica* (REITTER 1890).

**Keywords:** Rectification, species list, Acmaeoderinae, Faunistics, misrecord, missidentification, geographical spread

Two buprestid species has been misrecorded in the Romanian fauna from PETRI (1912) and FLECK (1905) and has been overtaken in the OBENBERGER's and other catalogues. These species are: *Acmaeodera cylindrica* (FABRICIUS 1775)<sup>3</sup> and *Acmaeoderella gibbulosa* (MÉNÉTRIES 1932).

After our investigations, we are able to erase the species *Acmaeodera cylindrica* (FABRICIUS 1775) from the Romanian fauna and to replace the species *Acmaeoderella gibbulosa*, with *Acmaeoderella circassica* (REITTER 1890).

The species *Acmaeodera cylindrica* has been recorded at a single time by PETRI (after BIELZ) from Făgăraș area.

We have verified the Buprestoidea specimens from the collection of K. PETRI, from the Natural

History Museum of Sibiu, but, unfortunately we didn't refund any specimen labeled: *A. convolvuli*, Făgăraș. This record has been overtaken in other lists (OBENBERGER 1926, KASZAB 1940, CURLETTI 1994)

*Acmaeodera cylindrica*, is a holomediterranean element, spreaded in: Siria, Turkey, Greece, Italy, France, Baleare Islands, Spain, Tunisia, Algeria, Maroko (CURLETTI 1994) (Fig. 1). The presence of this species in Romania must be erased.

Is possible, but not confirmed yet to be one of the following species: *Acmaeodera brevipes* (KIESENWETTER 1858), or *Acmaeoderella* (*Euacmaeoderella*) *vetusta* (MÉNÉTRIES 1832). *A. brevipes* is a balkanian element, found in Macedonia, Greece and Bulgaria (MÜHLE 1980, SAKALIAN 1994) (Fig. 1).

<sup>1</sup> Numele original al societății a fost: Siebenbürgische Verein für Naturwissenschaften și a ființat în perioada 1841-1949 la Sibiu.

<sup>2</sup> Specia a fost semnalată cu sinonimul junior: *A. lugens* GORY 1840.

<sup>3</sup> *A. convolvuli* (WALT. 1836) in text.

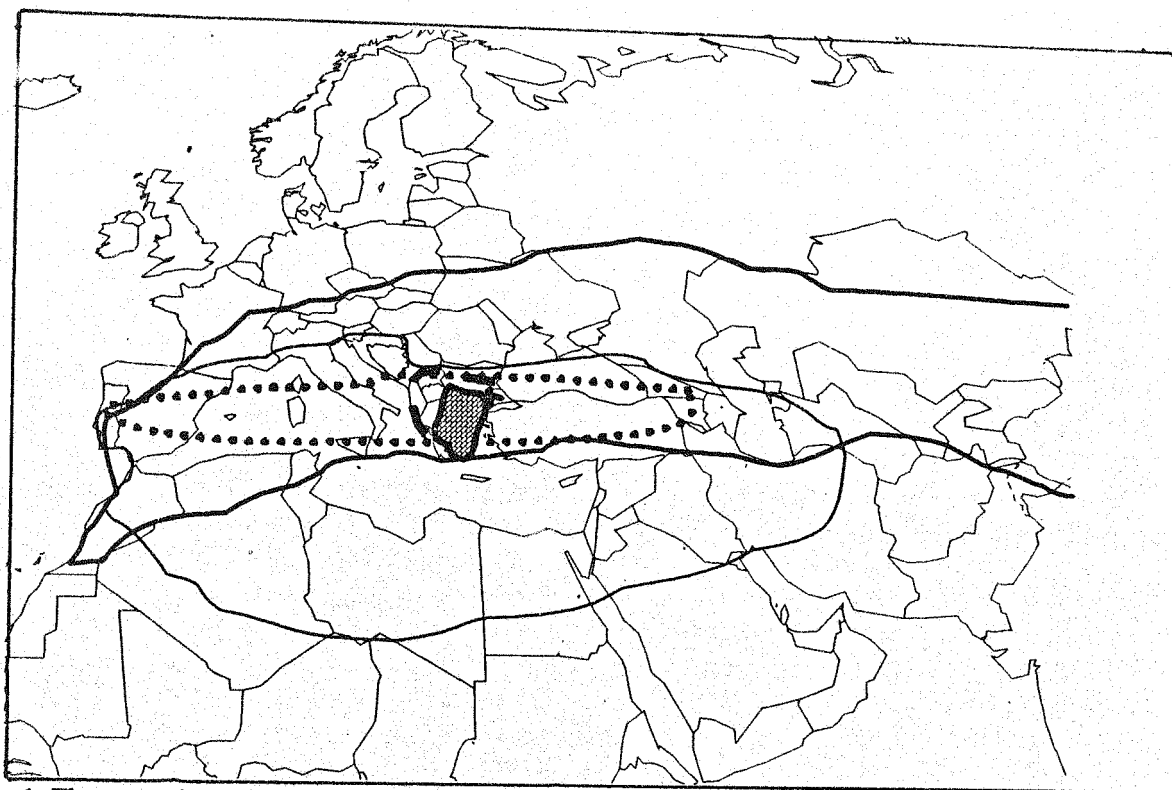


Fig. 1. The approximately spread of: *Acmaeodera cylindrica* ———, *A. brevipes* - - - - , *Acmaeoderella flavofasciata* - - - - - *Acmaeoderella gibbulosa* . . . . and *Acmaeoderella vetusta* [hatched]. After: CURLETTI (1994), HOLYNSKI 1991, MÜHLE (1980), OBENBERGER (1926), SAKALIAN (1994)

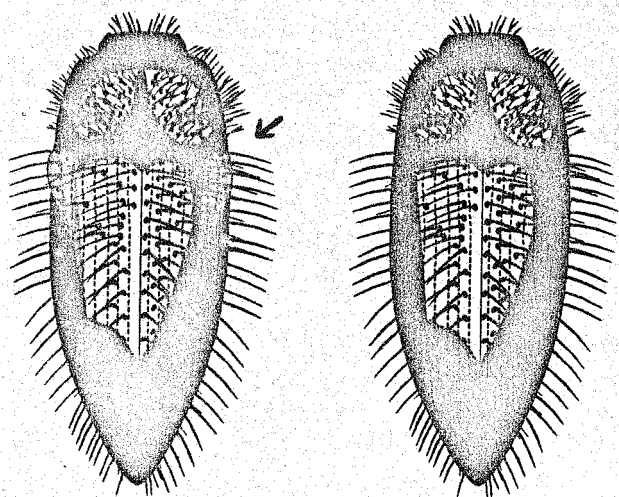


Fig. 2. *Acmaeodera cylindrica* (left) and *A. brevipes* (right)

It is a minimal possibility to be collected a specimen in Făgăraș area. *Acmaeoderella vetusta* is a balkanain element too. It was been collected from: Armenia, Greece and Bulgaria (MÜHLE 1980, SAKALIAN 1994) (Fig. 1). It is also a minimal possibility, to be collected in Făgăraș area. *Acmaeodera cylindrica* is distinguishing to *A. brevipes*, by presence of a unsharped oblique carina, that going from each elytral humerus to the middle part of sutura (Fig. 2). It is distinguishing to *Acmaeoderella vetusta*, by the uniform black colour of the body, not bronze like to an-

other and also, by the oblique elytral carina absent in *A. vetusta*.

The third possibility, most probable is the collecting of a spotless specimen of *Acmaeoderella flavofasciata*, or *Acmaeodera degener* (see the key and fig. 3).

The second species was recorded under the name *Acmaeodera lugens* (GORY 1840) by JAQUET, after wrong identification of PONCY and STIERLIN) from Northern and Southern Dobroudja and was overtaken in other lists (FLECK 1905, MONTANDON 1906, 1908, NEGRU & ROSCA 1967, RUCĂNESCU 1992a, b). We have investigated specimens stored in the Museum of Natural History "Gr. Antipa" from Bucharest, Natural History Museums of Sibiu and Galați and a lot of specimens collected from Iron Gates, Danube Delta and Babadag area, stored in our collection. We are entitled to asserts that all the specimens recorded under the name: *Acmaeodera lugens*, are belonging to *Acmaeoderella circassica*.

*Acmaeodera lugens* GORY 1841 is a younger synonym of *Acmaeoderella* (*Euacmaeoderella*) *gibbulosa* (MÉNÉTRIÈS 1932). It differs from *A. (s. str.) circassica* REITT. by very narrow frons and vertex, those are nearly as wide as diameter of the eye (*A. circassica* vertex about 2 times as wide as diameter of eye); antennae nearly as long as eye height and without sexual dimorphism (*A. circassica*: antennae 1.5 (female) to 2 times (male) as long as eye

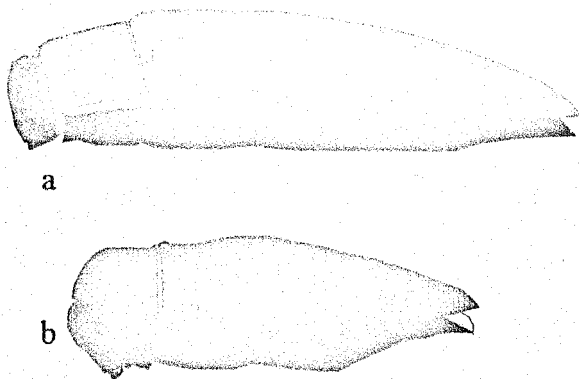


Fig. 3. Acmaeoderinae body in lateral view (a. *Acmaeodera*, b. *Acmaeoderella*)

height, 5-10 antennomeres of male much markedly broadened); pronotum covered with simple punctations, which are very dense on the sides (*A. circassica*: sides of pronotum with very rough alveolate sculpture, disc with simple punctures).

For the identification of Romanian recored species of Acmaeoderinae, we will get a diagnosis key.

1. Pronotum and elytra basis, in lateral view are ± convex (Fig. 3b) ..... **Acmaeoderella 2.**
- Pronotum and elytra basis, in lateral view are flat (Fig. 3a) ..... **Acmaeodera s.str. 4.**
2. Dorsal side covered with semierect brown-yellow hairs; ventral side covered with dense white scales. Elytra black-bronze or black-bluish with yellow spots, that formed transversale lines. 5-10 mm
- Both sides covered with semierect yellowish hairs. Elytra bronzed without yellow spots. 2,5-5 mm ...  
..... **circassica (REITT.)**
3. Dorsal side ground black-bluish. Body robust, 7-10 mm ..... **mimonti (BOIELD.)**
- Dorsal side ground black or black-bronze. Body slender, 5-9 mm ..... **flavofasciata (PILL.)**
4. Dorsal side, black-bluish, well-visible yellow spotted. Body dorso-ventral flattened .....  
..... **degener (SCOP.)**
- Dorsal side cooper-bronzed. Elytra yellow with a cooper-bronzed uneved, sometimes interrupted sutural belt ..... **pilosellae (BON.)**

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