New findings of weevils (Coleoptera, Curculionioidea) in Baltic amber

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New findings of five weevil species in Baltic amber are given. Morphological characters of sexual dimorphism of Palaeometrioxena zherikhini Legalov, 2012 and Succinometrioxena poinari Legalov, 2012 are shown for the first time. Caulophilus sucinopunctatus (Kuúka, 1992), comb. n., placem. n. is transferred from the genus Phloeophagus Schoenherr, 1838 of the tribe Rhyncolini to the genus Caulophilus Wollaston, 1854 of the tribe Dryotribini. Key to species of Caulophilus known from Eocene amber is given.

Key words: Belidae, Curculionidae, new records, new combination, new placement, Eocene.

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INTRODUCTION

Curculionid beetles are common in Paleogene ambers (Legalov 2015; Kirejtshuk et al. 2015). Most of them are described from Eocene Baltic amber (Voss 1953, 1972; Zherikhin 1971; Kuúka 1992, 1996; Yunakov & Kirejtshuk 2011; Legalov 2012a, 2012b, 2013, 2015, 2016a, 2016b, 2018; Alekseev 2013; Legalov & Bukejs 2015a, 2015b, 2018 etc.), but most species are known only by type specimens. New findings of described species allow understanding their role in the structure of the fossil Baltic fauna and clarifying their systematic position. New findings of some species from the families Belidae and Curculionidae from the Baltic amber are given.

MATERIAL AND METHODS

The material examined is deposited in the following collections:
- Institute of Systematics and Ecology of Animals (Novosibirsk, Russia) [ISEA];
This study was performed using a Zeiss Stemi 2000-C dissecting stereomicroscope and a Nikon SMZ 745T stereomicroscope.

RESULTS

Family Belidae Schoenherr, 1826
Subfamily Oxyctoryninae Schoenherr, 1840
Tribe Metrioxenini Voss, 1953
Subtribe Metrioxenina Voss, 1953
Genus *Palaeometrioxena* Legalov, 2012

*Palaeometrioxena zherikhini* Legalov, 2012

(Fig. 1a)

**Material examined.** Male with collection number BA2012/18 [ISEA].

**Remarks.** Body length (without rostrum) is 2.2 mm, rostrum length is 0.3 mm.

Previously, this species was known only by the holotype female (Legalov 2012a). The male is distinguished in smaller body size, thicker and shorter rostrum, and wider antennal club. Unlike other male representatives of the subtribe Metrioxenina, the rostrum bears rare erect hairs ventrally. In the original description (Legalov 2012a) of *Palaeometrioxena zherikhini* was mentioned than rostrum length is 5.0 mm. It is a misprint. The length of the rostrum is 0.5 mm.

**Subtribe Zherichinixenina Legalov, 2009**

**Genus Succinometrioxena Legalov, 2012**

*Succinometrioxena poinari* Legalov, 2012

(Figs. 1b - 1d)

**Material examined.** Male with collection number 4696 [CAG].

Family Curculionidae Latreille, 1802
Subfamily Molytinae Schoenherr, 1823
Tribe Acicnemidini Lacordaire, 1866
Genus *Electrotribus* Hustache, 1942

*Electrotribus weigangae* (Ulke, 1947)

(Fig. 1f)

**Material examined.** One specimen with collection number 3584 [CAG].

**Remarks.** Body length (without rostrum) is 7.1 mm; rostrum length is ca. 2.5 mm.

**Subfamily Cossoninae Schoenherr, 1825**

**Tribe Dryotribini Le Conte, 1876**

**Genus Caulophilus Wollaston, 1854**

*Caulophilus sucinopunctatus* (Kuúa, 1992), comb. n., placem. n.

*Phloeophagus sucinopunctatus* Kuúa, 1992, p. 112, fig. 6-9.

(Fig. 1g-1h)

**Material examined.** Two specimens with collection numbers BA2011/3 [ISEA] and 4104 [CAG].

**Remarks.** Body length (without rostrum) is 1.7-1.8 mm, rostrum length is 0.3-0.4 mm.

We studied two specimens corresponding to the original description and images in the Kuúa’s paper. Kuúa (1992) placed the new species in the genus *Phloeophagus* Schoenherr, 1838 without explanation, writing that it similar to a species of *Ph. lignarius*-group in the shape of antennal scrobes. However, since our
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Fig. 1. Curculionoidea in Baltic amber: a - *Palaeometrioxena zherikhini*, BA2012/18, male, lateral view; b - *Succinometrioxena poinari*, 4696, male, lateral view; c - *S. poinari*, 4696, male, ventral view; d - *S. poinari*, 4696, male, dorsal view; e - *Succinostyphlus mroczkowskii*, BA2012/17, lateral view; f - *Electrotribus weigangae*, 3584, lateral view; g - *Caulophilus sucinopunctatus*, BA2011/3, lateral view; h - *C. sucinopunctatus*, 4104, dorsal view. Not reproduced to the same scale.
specimens are characterized by the mesosternum at level of the metasternum, this species cannot be placed in the tribe Rhyncolini Gistel, 1848. Rostrum is longer than wide, humeri rounded, and almost adjoining procoxal cavities indicate that the species belongs to the tribe Dryotribini. Both specimens are placed in the genus *Caulophilus*, because they are characterized by meso- and metatibiae rather long and weakly dilated apically, sculpture of the body coarse, sides of the elytra almost parallel, body somewhat flattened, funicle seven-articled, and rostrum rather long. The genus *Caulophilus* is represented by four described species from the Baltic and Rovno amber (Nazarenko et al. 2011; Legalov 2016).

**Key to species of genus *Caulophilus* from Eocene amber**

1. Body covered with setaceous scales ................................................................. 2
   - Body covered with narrow scales ................................................................. 3
2. Rostrum slender, distinctly curved; pronotum distinctly narrower than base of elytra ............................................ *C. rarus* Legalov, 2016
   - Rostrum robust, weakly curved; pronotum a little narrower than base of elytra ........................................... *C. sucinopunctatus* (Kuśka, 1992)
3. Smaller, body length 1.6 mm; elytra 2.0 times as long as wide medially ............................................. *C. squamosus* Legalov, 2016
   - Larger, body length 2.3 mm; elytra 2.3 times as long as wide medially ..................................... *C. zherikhini* Nazarenko et al., 2011

**Subfamily Curculioninae Latreille, 1802**

**Tribe Ellescini C.G. Thomson, 1859**

**Genus *Succinostyphlus* Kuśka, 1996**

*Succinostyphlus mroczkowskii* Kuśka, 1996
(Fig. 1e)

**Material examined.** One specimen with collection number BA2012/17 [ISEA].

**Remarks.** Body length (without rostrum) is 3.2 mm; rostrum length is 0.9 mm.

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**REFERENCES**


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