

New combinations in the tribe Alleculini (Coleoptera: Tenebrionidae: Alleculinae) from the Palaearctic Region

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Abstract. Six species from the Palaearctic Region are transferred from the genus *Allecula* Fabricius, 1801 to the genus *Borboresthes* Fairmaire, 1897 as: *Borboresthes bilamellatus* (Marseul, 1876) comb. nov., *Borboresthes okinawanus* (Akita & Masumoto, 2015) comb. nov., *Borboresthes ohshimanus* (Maeda & Nakane, 1988) comb. nov., *Borboresthes simiolus* (Lewis, 1895) comb. nov., *Borboresthes umbilicatus* (Seidlitz, 1896) and *Borboresthes yakushimanus* (Akita & Masumoto, 2015) comb. nov.

INTRODUCTION

Fabricius (1801) described the genus *Allecula* Fabricius, 1801 with the type species *Allecula morio* Fabricius, 1787. In the tribe Alleculini from the Palaearctic Region the genera *Hymenalia* Mulsant, 1856, *Hymenorus* Mulsant, 1851, *Mycetocharina* Seidlitz, 1890, *Netopha* Fairmaire, 1893 and *Prionychnus* Solier, 1835 have been furthermore described. Some species of the genus *Borboresthes* were earlier described as *Allecula* or *Cistela* - from the Palaearctic Region for example *Borboresthes acicularis* (Marseul, 1876), *Borboresthes cruralis* (Marseul, 1876) and *Borboresthes elliptica* (Fairmaire, 1891).

The genus *Borboresthes* Fairmaire, 1897 was described later by Fairmaire (1897) with the type species *Borboresthes cruralis* (Marseul, 1876).

Species of the genus *Borboresthes* (as in Fig. 1) clearly differ from the species of the genus *Allecula* (as in Fig. 2) mainly by egg-shaped, slightly convex, oval body, ultimate palpomere triangular, pronotum semicircular and base of pronotum approximately as wide as or very slightly narrower than base of elytra; while species of the genus *Allecula* have narrow, parallel, more flat body, ultimate palpomere longly triangular - shoe-shaped, pronotum square-shaped and base of pronotum distinctly narrower than base of elytra. For this reason we propose to transfer the species *Borboresthes bilamellatus* (Marseul, 1876) comb. nov., *Borboresthes okinawanus* (Akita & Masumoto, 2015) comb. nov., *Borboresthes ohshimanus* (Maeda & Nakane, 1988) comb. nov., *Borboresthes simiolus* (Lewis, 1895) comb. nov., *Borboresthes umbilicatus* (Seidlitz, 1896) and *Borboresthes yakushimanus* (Akita & Masumoto, 2015) comb. nov. from the genus *Allecula* to the genus *Borboresthes*.

MATERIAL AND METHODS

In the list of examined material, a slash (/) separates data in separate rows, a double slash (//) separates different labels.

The following collection code is used:

VNPC private collection of Vladimír Novák, Praha, Czech Republic.

Other abbreviations used in text are as follows: pl - pink label, wl - white label.

NEW COMBINATIONS

Genus *Borboresthes* Fairmaire, 1897

(Fig. 1)

Borboresthes Fairmaire, 1897: 253. Type species *Allecula cruralis* Marseul, 1876.

Material examined. (1 ♂): wl: JAPAN; Tōkyō-to / Setagaya-ku / Kinuta-kōen / 4.VII.2009 / Eimon UEDA leg., (VNPC).

Differential diagnosis. Species of the genus *Borboresthes* Fairmaire, 1896 have more or less egg-shaped, oval body in dorsal view (as in Fig. 1), slightly convex in lateral view; their ultimate palpomere is triangular, pronotum semicircular, base of pronotum is approximately as wide as or very slightly narrower than elytral base, anterior tarsal claws of males have usually more teeth, antennomeres are usually very narrow, filiform. Species of the genus *Allecula* Fabricius, 1801 have body narrow, parallel in dorsal view (as in Fig. 2), more flat in lateral view, their ultimate palpomere is elongate triangular, shoe-shaped, pronotum square-shaped, base of pronotum is distinctly narrower than base of elytra, anterior tarsal claws of males have only a few teeth, antennomeres 4-10 are usually slightly dilated anteriorly.

***Borboresthes bilamellatus* (Marseul, 1876) comb. nov.**

(Fig. 3)

Allecula bilamellata Marseul, 1876: 323.

Material examined. (1 ♂): wl: JAPAN: Mie-ken / Shima-shi, Isobe-chō / Gochi / 80-120m, 1.VI.2013 / Katsumi Akita leg., (VNPC); (1 ♂): wl: JAPAN: Mie-ken / Oodai-chō / Oosugi-dani Vall., 280- / 300m, 25.V.2014 / Katsumi Akita leg., (VNPC).

Remark. This species distinctly belongs to the genus *Borboresthes* Fairmaire, 1897. Habitus as in Fig. 3, body oval, egg-shaped, pronotum semicircular, base of pronotum approximately as wide as base of elytra from dorsal view. Ultimate palpomere triangular.

***Borboresthes okinawanus* (Akita & Masumoto, 2015) comb. nov.**

(Fig. 4)

Allecula (*Allecula*) *okinawana* Akita & Masumoto, 2015: 359.

Material examined. (1 ♂): wl: Daruma-yama Park (alt. / 158m), Kume-jima Is., / Okinawa Pref., JAPAN / 2-6. V. 2015 / Watanu Suzuki leg. // pl: PARATYPE / *Allecula* (*Allecula*) / *okinawana* / Akita et Masumoto, 2015, (VNPC).

Remark. This species distinctly belongs to the genus *Borboresthes* Fairmaire, 1897. Habitus as in Fig. 4, body oval, egg-shaped, pronotum semicircular, base of pronotum approximately as wide as base of elytra in dorsal view. Ultimate palpomere triangular.

***Borboresthes ohshimanus* (Maeda & Nakane, 1988) comb. nov.**

Allecula ohshimana Maeda & Nakane, 1988: 4.

Remark. This species distinctly belongs to the genus *Borboresthes* Fairmaire, 1897. Habitus as can be seen in Akita & Masumoto (2016) page 90: Fig. 223, body oval, egg-shaped, pronotum semicircular, base of pronotum approximately as wide as base of elytra. Ultimate palpomere triangular.

***Borboresthes simiolus* (Lewis, 1895) comb. nov.**

(Fig. 5)

Allecula simiola Lewis, 1895: 251.

Material examined. (1 ♂): wl: JAPAN; Yamaguchi-ken / Shūnan-shi, Kano / Mt. Nagano-yama / 29.VI.2011 / Shin-ichi Tanaka leg., (VNPC).

Remark. This species distinctly belongs to the genus *Borboresthes* Fairmaire, 1897. Habitus as in Fig. 5, body oval, egg-shaped, pronotum semicircular, base of pronotum approximately as wide as base of elytra in dorsal view. Ultimate palpomere triangular.

***Borboresthes umbilicatus* (Seidlitz, 1896) comb. nov.**

Allecula umbilicata Seidlitz, 1896: 38.

Original description. Seidlitz (1896: 38): "*Allecula umbilicata*: nigra, dense subhirsute pubescens, prothorace transverse, semicirculari, densissime umbilicato-punctato. Elytris profunde punctato-striatis, interstitiis convexis, corpore lato."

And in the key page 37: "Halschild quer, halbkreisförmig, mit stumpfkantigen (nicht ganz stumpfen) gerandeten Seiten, dicht gedrängt mit deutlichen Nabelpunkten bedeckt, Beine verhältnismässig kurz. Flügeldecken tief punktiert - gestreift mit gevölbten sparsam fein punktierten Zwischenräumen, dicht, fast aufstehend behaart, Körperförmig breit, an *Hymenalia* erinnernd."

Remark. This species distinctly belongs to the genus *Borboresthes* Fairmaire, 1897. Body oval, broad, *Hymenalia*-shaped, pronotum semicircular.

***Borboresthes yakushimanus* (Akita & Masumoto, 2015) comb. nov.**

Allecula (Allecula) yakushimana Akita & Masumoto, 2015: 358.

Remark. This species distinctly belongs to the genus *Borboresthes* Fairmaire, 1897. Habitus can be seen in Akita & Masumoto (2016) page 90: Fig. 222, body oval, egg-shaped, pronotum semicircular, base of pronotum approximately as wide as base of elytra. Ultimate palpomere triangular.

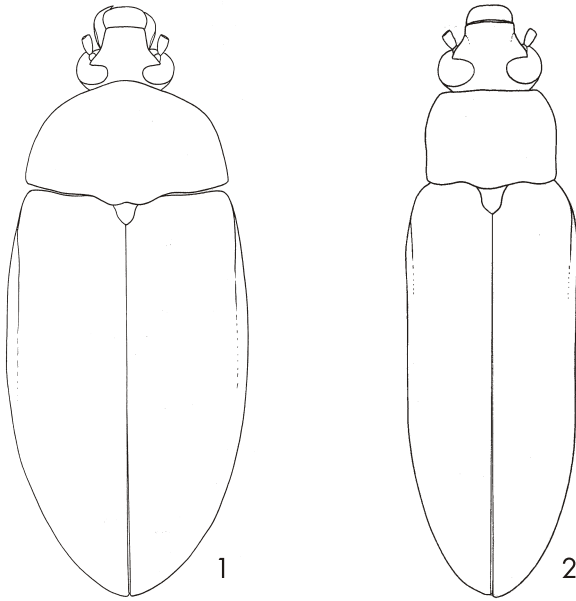


Fig. 1: Habitus of the *Borboressthes* Fairmaire, 1897 from dorsal view (type species *Borboressthes cruralis* (Marseul, 1876))
Fig. 2: Habitus of the *Allecula* Fabricius, 1801 from dorsal view (type species *Allecula morio* (Fabricius, 1787))
Fig. 3: Habitus of *Borboressthes bilamellatus* (Marseul, 1876) comb. nov. from dorsal view.
Fig. 4: Habitus of *Borboressthes okinawanus* (Akita & Masumoto, 2015) comb. nov. from dorsal view.
Fig. 5: Habitus of *Borboressthes simiolus* (Lewis, 1895) comb. nov. from dorsal view.

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