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***Boreogalba julianae* sp.nov.**  
**(Hymenoptera: Braconidae: Aphidiinae) from Bulgaria**

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**Abstract**

*Boreogalba julianae* sp.nov. from West Bulgaria (Osogovo Mt.) is described.

**Key words:** *Boreogalba*, Hymenoptera, Aphidiinae, Braconidae, Bulgaria.

**Zusammenfassung**

*Boreogalba julianae* sp.nov. wird aus Westbulgarien (Osogovo Gebirge) beschrieben.

**Introduction**

Research on the aphid parasitoids of Bulgaria is recommended as the country has remained poorly known related to the southeast European area (KAVALLIERATOS et al. 2004).

This paper includes a description and diagnosis of a new species, *Boreogalba julianae* from South West Bulgaria.

### Method and materials

The parasitoid material was obtained by sweeping in a meadow close to a snow field in the Osogovo Mountain early in spring (May).

The type material is deposited in author's collection.

#### ***Boreogalba julianae* sp.nov.**

##### **D i a g n o s i s :**

From genus *Boreogalba* is known only one species (*Boreogalba gladifer* MACKAUER, 1962) from Great Wide River, Quebec, Canada. *B. gladifer* is characterized by: 11-segmented antennae; the last segment 1,5 times as long as the preceding; the extreme apex of antenna not tapered; pterostigma about 3,5 times longer than wide; Metacarp short, cubital and recurrent veins missing, radius short; the terminal abdominal segment with long hairs; terminal hair of the ovipositor absent.

The new species *B. julianae* differs from the latter in having: antennae 12 segmented; the last segment two times as long as the preceding; the extreme apex of antenna tapered; pterostigma about 4 times longer than wide; the hairs of terminal abdominal segment missing; terminal hair of the ovipositor present.

##### **D e s c r i p t i o n :**

**Female:** Length of the body 1,43 mm., length of the antennae 0,9 mm., length of the fore wing 1,43 mm.

**Head:** Transverse, wider than mesosoma, sparsely hairy. Clypeus narrow, arched. Ocelli in right angled triangle. Labial palpi 2 -segmented, maxillary palpi 4 - segmented, segment 4 elongated. Tentorial index 0.66.

**Antennae:** Filiform 12 segmented. Flagellar segments 1 and 2 nearly equal in length. The other segments shorter. Short, semi-recumbent setae along its length. The length of the setae is shorter than the width of the segment. The last segment twice as long as the preceding. The extreme apex tapered.

**Mesosoma:** Smooth. Propodeum slightly arched, more or less quadrate, strongly carinated; central areola broadly pentagonal. Scutellum smooth. Notauli present only anteriorly.

**Wings:** Hyaline, surpassing the tip of metasoma, venation strongly reduced. Cubital and recurrent veins missing. Pterostigma narrow, about 4 X as long as wide, wide. Metacarp short, equal to about half of pterostigma length.

**Metasoma:** elongate. Petiole smooth, parallel-sided, primary (=spiracular) tubercles distinct, situated at the end of the first third of the segment. Petiole about 2,5 times as wide at the tubercles as the distance between the tubercles and the caudal end. The terminal metasomal segment without long spreading setae. Ovipositor short, strongly curved downward, ploughshare-shaped, terminal hair presented.

**Legs:** Slender; femora and tibiae thickened.

**Colour:** Blackish brown. Clypeus, mandibles, palpi, legs and antennal segments segments 2 and 3 (= better: flagellar segments 1 and 2) yellowish brown.

Male: (Unknown).

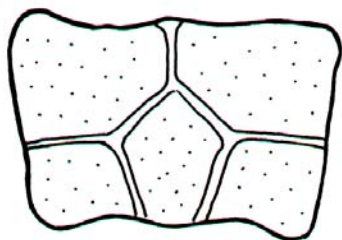
Holotype: Osogovo Mtn. "Trite Buki" hostel 1540 m., 26.05.2004, ♀.

Paratype: The same locality.

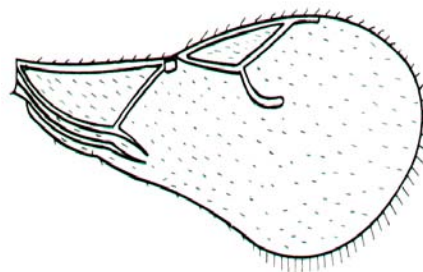
Locality: Osogovo Mtn. "Trite Buki" hostel, at the meadow close to a snow field

Host: (Unknown).

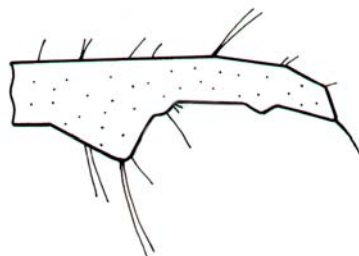
Distribution: Osogovo Mountain. Bulgaria. (GPS: N42.19055 E22.61453).



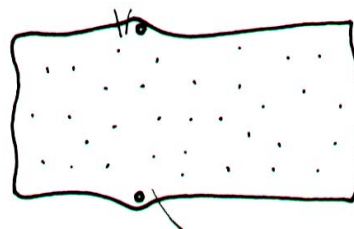
**Fig. 1:** Propodeum of *Boreogalba julianae*



**Fig. 2:** Fore wing of *Boreogalba julianae*



**Fig. 3:** Ovipositor of *Boreogalba julianae*



**Fig. 4:** Petiole of *Boreogalba julianae*

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