

## A new species of the genus *Zotalemimon* Pic, 1925 (Coleoptera: Cerambycidae) from Palawan

Arvīds Barševskis

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*Zotalemimon legalovi* sp.nov. Pic, 1925 from the Palawan Island (Philippines) is described and illustrated. This is the first species of the genus *Zotalemimon* Pic, 1925 from the Philippine archipelago. The world fauna of this genus now contains 22 species distributed in the Oriental Region and south-eastern part of the Palearctic Regions.

Key words: *Zotalemimon*, long-horned beetles, fauna, new species, taxonomy, Palawan, Philippines.

Arvīds Barševskis, *Daugavpils University, Institute of Life Sciences and Technologies, Coleopterological Research Center, Vienības Str. 13, Daugavpils, LV-5401, Latvia, e-mail: arvids.barsevskis@du.lv*

### INTRODUCTION

The Oriental fauna of the long-horned beetles (Coleoptera: Cerambycidae) is being actively studied. Many new species are discovered every year. Nevertheless, there is also limited data about the distribution of long-horned beetles in this region. A lot described species have no additional faunistic data after original descriptions. This is one of challenge for the biodiversity protection, especially in tropical regions, where natural habitats are declining rapidly. Without data on the distribution of species, it is difficult to implement protection of these species. Besides that, the gathering knowledge of faunistic, ecological and biological data for each species is very important too. Unfortunately, the vast majority of Oriental Cerambycidae (and insects of other taxa) have no these data.

In recent years, the author started to publish contributions about long-horned beetles of the Oriental fauna (Barševskis 2018, 2019, 2020). Similar faunistic articles were published also by other colleagues (Gouvernieur, Vitali 2016; Medina et al. 2021a,b; Skale, Vitali 2021; Vitali, 2018; Vives 2017, 2020; Vives, Heffern 2021; Yamasako et al. 2021, etc.).

The genus *Zotalemimon* Pic, 1925 of the subfamily Lamiinae and the tribe Desmiphorini Thomson, 1860 is represented in the world's fauna by 1552 species combined to 292 genera (Roguet 2004–2021). Species of this insufficiently studied genus are distributed in the Oriental and south-eastern part of the Palearctic Regions (Tavakilian, Chevillotte 2021). During the study of specimens of the tribe Desmiphorini from the Philippines, I found an undescribed species of

*Zotalemimon* from the Palawan Island. Thus, this new species is described and illustrated in the present study. This is the first *Zotalemimon* from the Philippine archipelago and the world fauna of it is now presented by 22 species.

## MATERIAL AND METHODS

The studied material is deposited in the beetles collection of Daugavpils University, Institute of Life Sciences and Technology, Coleopterological Research Centre (DUBC; Ilgas, Daugavpils Distr., Latvia).

The laboratory research and measurements have been performed using Nikon AZ100, Nikon SMZ745T and Zeiss Stereo Lumar V12 digital stereomicroscopes, NIS-Elements 6D software. The habitus photograph was obtained with a digital camera Canon EOS 6D with Canon MP-E 65 mm macro lens, using Helicon Focus auto montage and subsequently was edited with Photoshop. All measurements are given in millimeters. In the present paper I followed the taxonomic nomenclature provided by Tavakilian, Chavilotte (2021) and Berzak (2021).

## RESULTS

### *Zotalemimon legalovi* sp. nov. (Fig. 1)

**Type material. HOLOTYPE:** Female. Label data: Philippines: Palawan, / Roxas, 07.2021. / local collector leg. [handwritten]; // Holotypus: / *Zotalemimon* / *legalovi* / sp. nov. / A.Barševskis det. 2021 [red label, handwritten].

**PARATYPUS:** 6 females. Philippines: Palawan, / Roxas, 03.2021. / local collector leg. [handwritten]; Philippines: Palawan, / Roxas, 03.2021. / local collector leg. [handwritten]; Philippines: Palawan, / Roxas, 04.2021. / local collector leg. [handwritten]; Philippines: Palawan, / Roxas, 04.2021. / local collector leg. [handwritten]; Philippines: Palawan, / Roxas, 05.2021. / local collec-

tor leg. [handwritten]; Philippines: Palawan, / Roxas, 06.2021. / local collector leg. [handwritten]. All paratypes with red handwritten label: Paratypus: / *Zotalemimon* / *legalovi* / sp. nov. / A.Barševskis det. 2021.

**General distribution:** Philippines: Palawan island.

**Description.** Body black, covered with fine and very dense silver-grey and yellowish pubescence. Length: 8.6-12.0 mm, maximal width: 2.5-3.2 mm.

Head flattened, transverse, with slightly convex eyes. Dorsal surface with very dense pubescence, irregular coarse punctation, middle portion between antennal bases with visible longitudinal and very thin impressed line. Antennal bases wide, extended, with visible forward-facing sharp tooth apically. Labrum pubescent, covered with numerous long setae. Clypeus dark-brown or black, transverse, covered with long yellowish setae of forehead. Head oriented ventrally, so that forehead and mandibles not visible from dorsal surface. Cheeks convex, with very dense yellowish pubescence. Antennae dark-brown, covered with sparse pubescence; basal antennomere short, with dense pubescence; antennomere 2 relatively short, wide, with rough surface, yellowish pubescence and sparse, coarse spots; antennomere 3 short, from basal portion narrowed apically, with yellowish pubescence; remaining antennomeres dark, paler on basal portions and with paler pubescence.

Pronotum black, subcylindrical, with very dense silver-grey and yellowish pubescence, and with very coarse and deep impressed punctation and wrinkles. Basal angles of pronotum indistinct. Apical margin of pronotum widely impressed; basal margin slightly concave behind basal angles, with very narrow transverse impression. Dorsal disc of pronotum with five massive longitudinal keels; basal sides of central keel white. Length of pronotum: 1.9-2.9 mm. Width of pronotum: 1.7-2.2 mm. Scutellum small, transverse, widely rounded or slightly concave apically, with dense pubescence.

Elytra parallel-sided, with uneven surface: impressed behind scutellum and before middle; black, slightly flattened dorsally, with visible humps behind shoulders, with keel-shaped, narrow, flattened apical elevation along suture, and with very coarse punctation and small, elongate, dark bumps. Elytra covered with very dense yellowish pubescence. Apical portions of each

elytron with pale dorsolateral spot, behind them forming several light lines, some of which divided. Apex of elytra concave. Surface of elytra covered by irregular, short and white setae. Length of elytra: 6.1-8.2 mm, width of elytra: 2.5-3.0mm.

Ventral surface of body shiny, covered with dense, silver-grey and yellowish pubescence, except of dark-brown neck, smooth heart-shaped area in front of the hind legs and a round area in the anal portion of the abdomen; laterally on the sides with longer sets. Legs covered with dense yellowish pubescence. Tarsomeres black or dark-brown, covered with silver-grey pubescence.

**Differential diagnosis.** Regarding the shape of the habitus, the new species is somewhat similar to the Bornean *Z. borneoticum* (Breuning, 1969), from which it differs by the paler coloration of the elytra, and larger, wider, less curved, sloping dorsolateral preapical spot. Dorsal disc of pronotum of a new species with five more developed massive longitudinal keels than that in *Z. borneoticum*. White portion of the central longitudinal keel of the pronotum is longer than that in *Z. borneoticum*. The scutellum of a new species is covered with pubescence of the same coloration as the basal part of the elytra, but scutellum of *Z. borneoticum* is covered with more paler pubescence.

**Etymology.** This species is named after my colleague, well-known Russian entomologist Andrei A. Legalov (Novosibirsk) in appreciation of cooperation, and in gratitude for his great contributions to the knowledge of Curculionidae and Atelabidae of the world.

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Fig. 1. Holotype of *Zotalemimon legalovi* sp. nov.

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