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New species of *Aholcercus* Yakovlev, 2006 (Lepidoptera, Cossidae: Cossinae) from Vietnam

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Abstract

The article describes *Aholcercus averyanovi* sp. n. from the Vietnam. The detailed diagnosis is given. The article is illustrated with three figures.

Key words: biodiversity, Cossidae, Asia, Palearctica, taxonomy.

Introduction

The Cossidae (Lepidoptera) fauna of Vietnam is relatively well studied. We indicated forty three Cossidae species (Yakovlev & Witt 2008; Yakovlev 2014, 2015). Yakovlev (2006) described the monotypic genus *Aholcercus* Yakovlev, 2006 (type species: *Aholcercus ronkayorum* Yakovlev, 2006, by original designation). Six species were included into the genus (Yakovlev & Witt 2009, 2016; Yakovlev 2011; Yakovlev & Singh 2019): *A. arorai* Yakovlev & Singh 2019 (Type locality: Great Nicobar Island, Bankol Camp, Bellabay), *A. ihleorum* Yakovlev & Witt, 2009 (Type locality: N. Thailand, Chiang Mai, Doi Kham), *A. jakli* Yakovlev & Witt, 2016 (Type locality: Indonesia, Lesser Soudas, Lomblen [Lembata] Isl., S Coast, Lamalera vill. env.), *A. ronkayorum* Yakovlev, 2006 (Type locality: Pakistan, Islamabad, Margalla Hills), *A. sevastopuloi* Yakovlev, 2011 (Type locality: Calcutta), and *A. verbeeki* (Roepke, 1957) (Type locality: Telawa, Central Java).

Material and methods

The images of adults were taken by the camera of Canon EOS 70D and illuminated in lightbox. The male genitalia slides were examined with a Zeiss Stemi 2000 C microscope and Olympus SZX16 microscope. The

images were taken with the Olympus SZX16 camera. The photos were enhanced and arranged to plates with CorelDraw software.

The genital preparations were made according to the method of Lafontaine & Mikkola (1987) and Lafontaine (2004). The morphological terminology used in the description follows Kristensen (2003).

Taxonomical part

Description of new species

Aholcocerus averyanovi Yakovlev & Korshunov sp. n.

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Figs 1–2

Material. Holotype, male, Vietnam, Central Highlands Region, Kon Tum Province, Dak Glei district, 1 km NW Dak Man village, N15°13'24.4"; 107°43'50.6", H – 1080 m, 11–26.v.2017, leg. A. Korshunov (Zoological Institute, St. Petersburg, Russia), slide AN010 coll. RV Yakovlev.

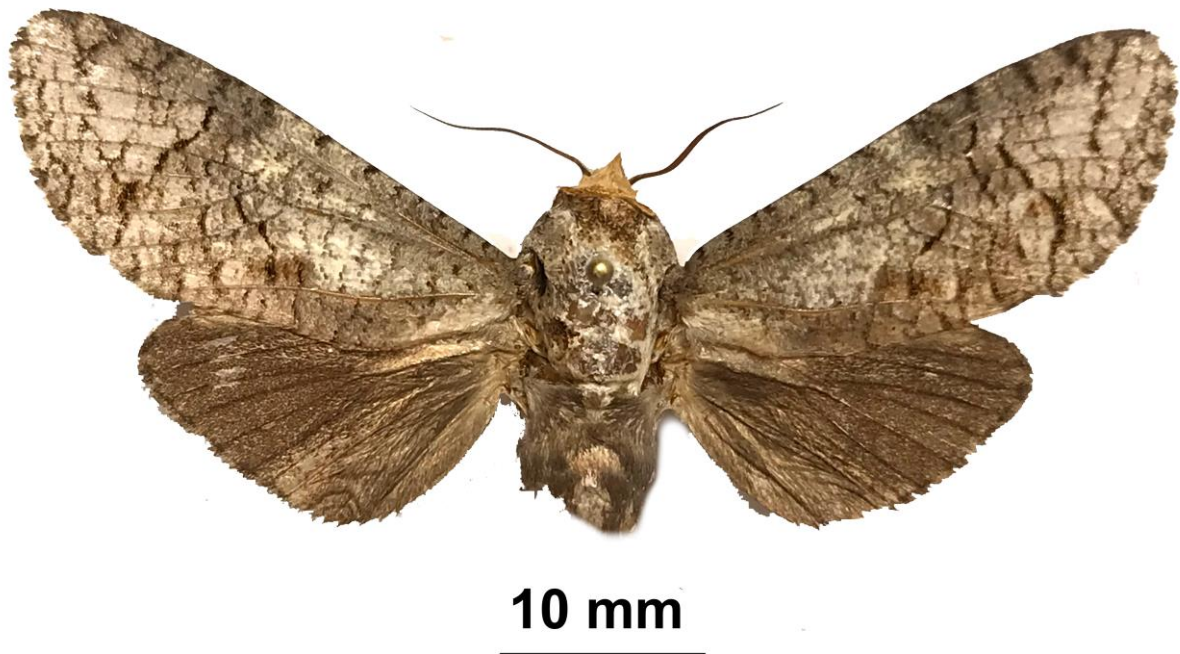


Figure 1. *Aholcocerus averyanovi* Yakovlev & Korshunov sp. n.: Male, holotype (ZISP)

Description. Male. Length of fore wing 22 mm. Antennae belt-like, not pectinate. Bundle of red scales on forehead. Fore wing light-grey with fine reticulated dark-grey pattern on all area of wing, discally pattern more dense. Fringe light-grey between veins, grey at veins. Hind wing dark-brown, without pattern.

Male genitalia. Uncus triangle, apically acute, basally wide; tegumen robust; gnathos arms thin, long; gnathos compact, strongly sclerotized; valve relatively long, lanceolate, distal third poorly sclerotized, costal margin (on border between sclerotized and membranous part) with process shaped as two strongly sclerotized lamellar lobes, valve apically semicircular; transtilla process thick, hook-like, apically sharp; juxta tiny with long thin lateral processes diverged at acute angle; saccus semicircular, robust; phallus long, thin, poorly curved throughout all length, vesica aperture about half of phallus in length, in dorso-apical position; vesica without cornuti.

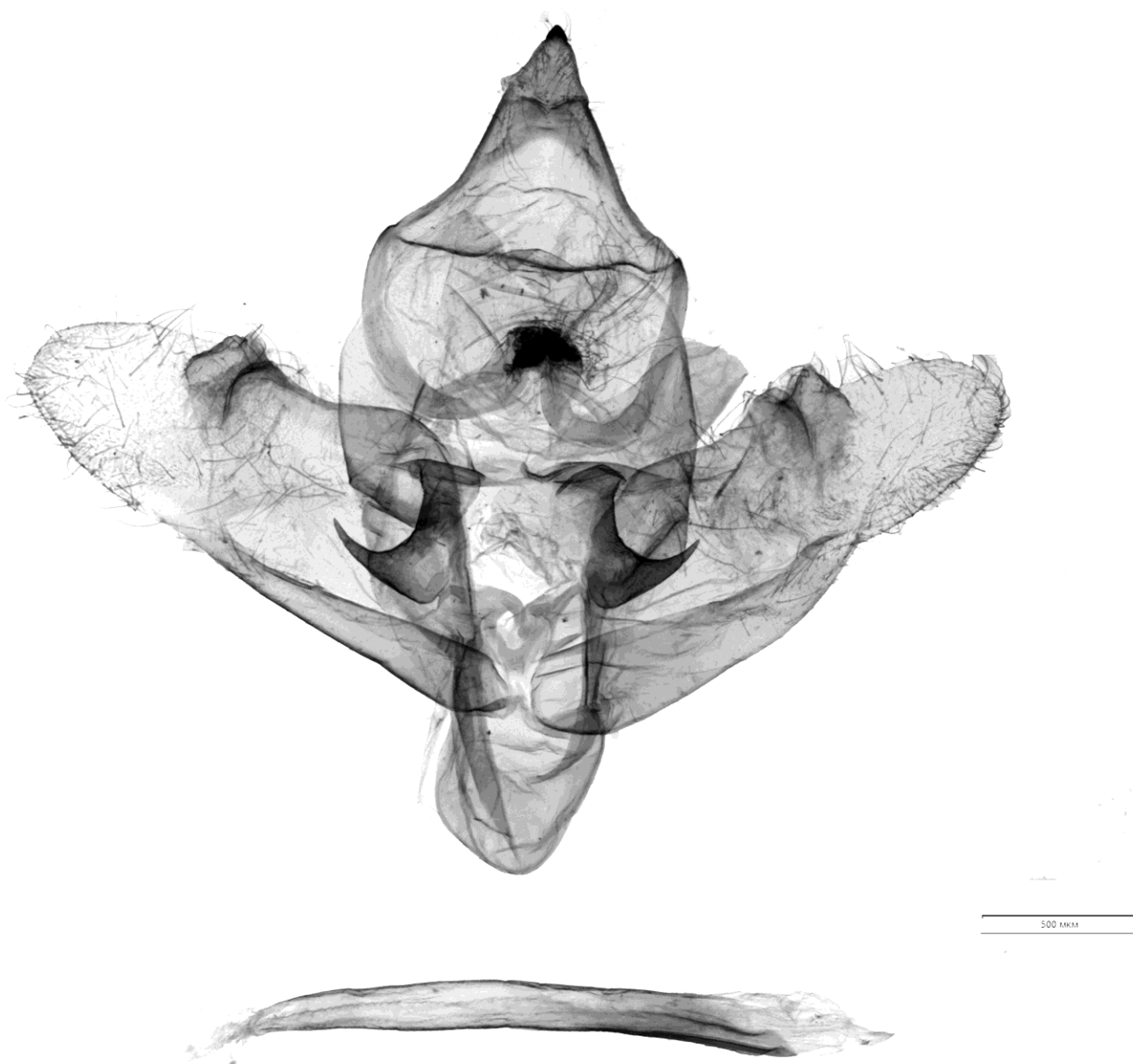


Figure 2. *Aholcocerus averyanovi* Yakovlev & Korshunov sp. n.: Male genitalia, holotype.

Female unknown.

Diagnosis. The new species clearly differs from the known species of the genus in the very sharp apex of the uncus and in the process on the costal edge of the valve shaped as strongly sclerotized double plate.

Etymology. We name the new species in honor of the famous Russian botanist, president of the Russian Botanical Society Leonid V. Averyanov (St. Petersburg), a prominent specialist in the flora of Indochina.



Figure 3. Habitat of *Aholcocerus averyanovi* Yakovlev & Korshunov sp. n.

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