Aholcocerus arorai Yakovlev & Singh, sp. n. - new species of Cossidae from Nicobar Islands (India) with world catalogue of the genus
(Lepidoptera: Cossidae)

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Abstract

Aholcocerus arorai Yakovlev & Singh, sp. n., is described from India (Great Nicobar Island). A catalogue of the genus Aholcocerus Yakovlev, 2006 is provided. External appearance and distributional map of all the species of genus is illustrated.
KEY WORDS: Lepidoptera, Cossidae, new species, fauna, Oriental Region, India.

Aholcocerus arorai Yakovlev & Singh, sp. n. - nueva especie de Cossidae de la Isla Nicobar (India) con el catálogo mundial del género
(Lepidoptera: Cossidae)

Resumen

Aholcocerus arorai Yakovlev & Singh, sp. n., se describe de la India (Isla Gran Nicobar). Se proporciona un catálogo del género Aholcocerus Yakovlev, 2006. Se ilustra la apariencia externa y un mapa de distribución de las especies del género.
PASLABRAS CLAVE: Lepidoptera, Cossidae, nueva especie, fauna, Región Oriental, India.

Introduction

The genus Aholcocerus Yakovlev, 2006 was established for its type species Aholcocerus ronkayorum Yakovlev, 2006, described from Pakistan. The genus was erected on the specific structure of the antennae (simple, not pectinate) and of the valves in the male genitalia (with a wrinkled pleated costal edge). Later on, this genus was studies by YAKOVLEV (2011), YAKOVLEV & WITT (2009, 2016a) with descriptions of new species as well as establishment of new combinations from India, Thailand and Indonesia. At present the genus is known by six species from the World.

In the present paper we describe the seventh species as Aholcocerus arorai Yakovlev & Singh, sp. n., from India (Great Nicobar Island). The new species was erroneously reported as Holcocerus arenicola Staudinger, 1887, as the first record for the “Great Nicobar Island, Bankol Camp, Bellabay” in ARORA (1976: 41). Reporting of this species from Great Nicobar, extremely distant from the main habitat (Central Asia) of the genus Holcocerus Staudinger 1887 (type species - Holcocerus arenicola Staudinger, 1887), seems to be completely alien and doubtful. So, we examined the collection materials in the Zoological Survey of India, Kolkata and reinvestigated the specimen studied by Arora (Fig. 2) and the genital preparation (Fig. 3). The inferences from the adult morphology and genitals of the same confirm that it is an undescribed Cossid species and typical member of the oriental genus Aholcocerus
Yakovlev 2006 (type species - Aholcocerus ronkayorum Yakovlev, 2006). The details are discussed below. Additionally, a World catalogue of the genus Aholcocerus Yakovlev, 2006 is provided.

Material and methods

The holotype photo has been made by the camera iPhone 7. The photo of the genitals has been taken using the binocular microscope Leica S8APO and digital camera Leica MC120.

The material has been examined in the following Museums: MWM Museum of Thomas J. Witt (Munich, Germany), NHMUK Natural History Museum (London, Great Britain), RMNH National Nature Historisch Museum (Leiden, The Netherlands), ZSI Zoological Survey of India (Kolkata, India).

Description of new species

Aholcocerus arorai Yakovlev & Singh, sp. n. (Figs 2-3)

Holotype, ♂, Great Nicobar Islands, Bankol Camp, Bellabay, 3-III-1966, Daniel and Bhowmick coll. Deposited in Zoological Survey of India, Kolkata, India.

Description: Wingspan 40 mm. Antenna simple, not pectinate, 1/2 the length of forewing costal edge. Tegula and patagium pale grey. Forewing apically sharp, pale grey, with thin transverse lines throughout wing area, pale brown field discally and basally. Hindwing dark grey, without pattern, pale grey at anal angle.


Female: Unknown.

Diagnosis: Externally, the new species is close to A. sevastopuloi, from which it differs by the wider valve, more robust saccus and thin phallus.

Etymology: The species is named after the prominent Indian entomologist, G. S. Arora.

Catalogue of the genus Aholcocerus Yakovlev, 2006

Type species: Aholcocerus ronkayorum Yakovlev 2006 (on monotypy).

Aholcocerus arorai Yakovlev & Singh, sp. n.

Type locality: Great Nicobar Island, Bankol Camp, Bellabay [7° N / 93.833333° E].
Type material. Holotype, ♂ (ZSI), examined.
Distribution: INDIA, Great Nicobar Island.

Aholcocerus ihleorum Yakovlev&Witt, 2009 (Fig. 4)
Type locality: N. Thailand, Chiang Mai, Doi Kham [18.75778° N / 98.92222° E].
Type material. Holotype, ♂ (MWM), examined.
Distribution: N. THAILAND, Chiang Mai Prov.

Aholcocerus jakli Yakovlev&Witt, 2016 (Fig. 5)
Type locality: Indonesia, Lesser Soudas, Lomblen [Lembata] Isl., S Coast, Lamalera vill. env. [8.5532886° S / 123.3983339° E].

Type material: Holotype, ♂ (MWM), examined.

Distribution: INDONESIA, Lesser Soudas, Lembata Isl.

_Aholcocerus ronkayorum_ Yakovlev, 2006 (Fig. 6)


Type locality: Pakistan, Islamabad, Margalla Hills [33.74389° N / 73.02278° E].

Type material: Holotype, ♂ (MWM), examined.

Distribution: PAKISTAN, Margalla Hills (YAKOVLEV & WITT, 2016b).

_Aholcocerus sevastopuloi_ Yakovlev, 2011 (Fig. 7)


Type locality: [India], Calcutta [22.5075° N / 88.35944° E].

Type material: Holotype, ♂ (NHMUK), examined.

Distribution: INDIA, West Bengal.

_Aholcocerus verbeeki_ (Roepke, 1957) (Fig. 8)


Type locality: [Indonesia], Telawa, Central Java [8.0823868° S / 111.947184° E].

Type material: Holotype, ♂ (RMNH), examined.

Distribution: INDONESIA (Java Isl.).

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