

A new species of *Lacanobia* Billberg, 1820 from Turkmenistan (Lepidoptera: Noctuidae)

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Abstract

A new species of *Lacanobia* Billberg, 1820, *L. (Lacanobia) dubatolovi* Volynkin, sp. n. (Lepidoptera, Noctuidae) is described from the West Kopetdagh Mountains, Turkmenistan. A diagnostic comparison is made with *L. w-latinum* (Hufnagel, 1766) and *L. w-latinoides* Gyulai & Ronkay, 1998. Imagines and male genitalia of the new and related species are illustrated.

KEY WORD: Lepidoptera, Noctuidae, *Lacanobia*, new species, Turkmenistan.

Una nueva especie de *Lacanobia* Billberg, 1820 de Turkmenistán (Lepidoptera: Noctuidae)

Resumen

Se describe una nueva especie de *Lacanobia* Billberg, 1820, *L. (Lacanobia) dubatolovi* Volynkin, sp. n. del oeste de la cordillera de Kopet-Dag, Turkmenistán. Se hace un diagnóstico comparando con *L. w-latinum* (Hufnagel, 1766) y *L. w-latinoides* Gyulai & Ronkay, 1998. Se ilustran los imagos y genitalia del macho de la nueva especie y las próximas.

PALABRAS CLAVE: Lepidoptera, Noctuidae, *Lacanobia*, nueva especie, Turkmenistán.

Introduction

Lacanobia Billberg, 1820 is a Holarctic noctuid genus of the subfamily Hadeninae Guenée, 1852. A revision of the genus was published by BEHOUNEK (1993). Later, several new species of the genus were described by HREBLAY & PLANTE (1995), GYULAI & RONKAY (1998), BEHOUNEK (2005), GYULAI *et al.* (2011a, 2011b), and LÖDL *et al.* (2012). The genus is heterogeneous and subdivided into three subgenera comprising 26 described species.

In the course of studies on Lepidoptera of Central Asia a one more, yet undescribed species of the genus was found among material from the southwestern part of Turkmenistan deposited in the collection of Siberian Zoological Museum (Novosibirsk, Russia). The present paper comprises the description of the species.

Material and methods

Male genitalia were dissected and mounted in Euparal on glass slides. Photos of genitalia were made using microscope Zeiss Stemi 2000-C and camera Zeiss AxioCam Erc 5c, and processed in Adobe Photoshop CS4®. Photos of imago were taken using camera Nikon D3100/AF-S Nikkor, 18-55 mm. Abbreviations of material depositories: CAV: coll. Anton V. Volynkin, Barnaul (Russia); PGM: coll. P.

Gyulai, Miskolc (Hungary); SZMN: Siberian Zoological Museum, Institute of Animal Systematic and Ecology of the Siberian Branch of the Russian Academy of Sciences (Novosibirsk, Russia).

Taxonomy

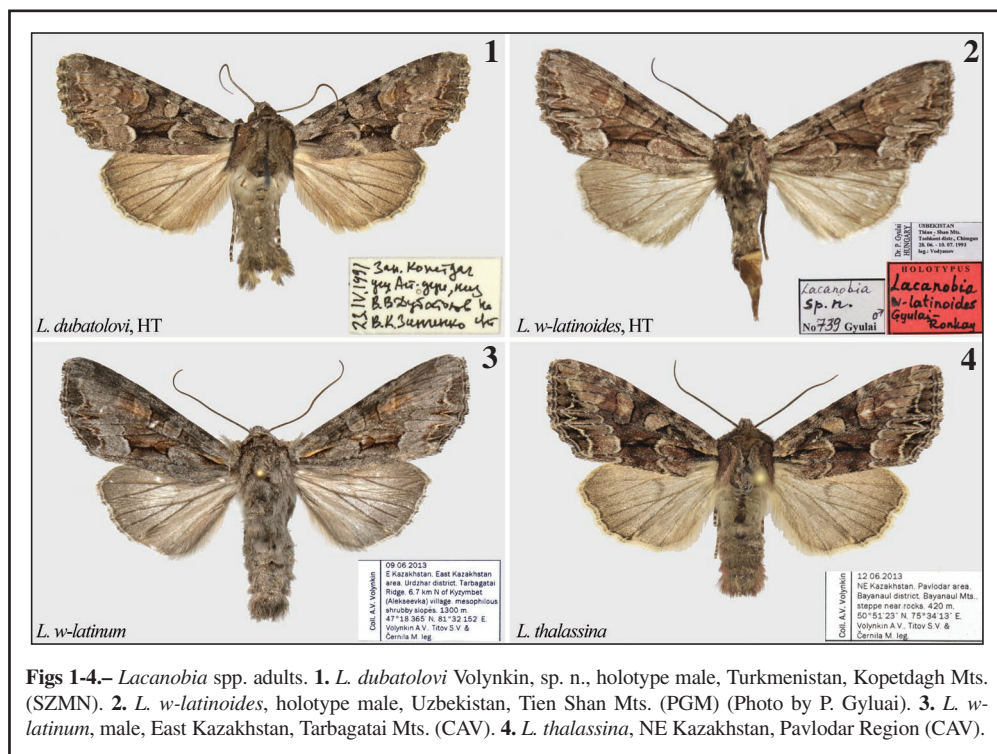
Lacanobia (Lacanobia) dubatolovi Volynkin, sp. n. (Figs 1, 5)

Type material: Holotype: ♂ (Figs 1, 5), 23-IV-1993, West Kopetdagh Mts., bottom part of Aj-Dere gorge, V.V. Dubatolov, V.K. Zinchenko [leg.], at light, slide No. AV1416 Volynkin (Coll. SZMN).

Description: Adult (Fig. 1). Length of forewing 18.5 mm. Male antennae finely ciliate. Head, thorax and abdomen dark brown, patagia and tegulae pale ochreous-brown. Forewing elongated, narrow, with pointed apex. Ground colour of forewing pale monotonous ochreous. Costa with conspicuous blackish stripe; dark stripe of inner margin and tornal stripe blackish. Transverse lines indistinct, thin, blackish, diffuse. Reniform and orbicular indistinct, outlined with small blackish spots. Cilia blackish-brown. Hindwing dark, irrorated with blackish-brown, marginal suffusion broad, blackish-brown; veins with dark blackish irroration. Cilia dark, blackish.

Male genitalia (Fig. 5): Uncus long, narrow, medially sinuous, apically narrowed and slightly curved. Tegumen tall, moderately broad; juxta as deltoidal plate; vinculum short, narrow, V-shaped. Valva long, narrow; cucullus triangular, short, narrow, with corona; ampulla apically directed, short, narrow, distally pointed and slightly curved. Aedeagus moderately long, carina with short triangular ventral tooth; vesica long, tubular, its subbasal part with two diverticula with long and thin cornuti; dorsal diverticulum much shorter than ventral one.

Female genitalia: unknown.



Figs 1-4.– *Lacanobia* spp. adults. **1.** *L. dubatolovi* Volynkin, sp. n., holotype male, Turkmenistan, Kopetdagh Mts. (SZMN). **2.** *L. w-latinoides*, holotype male, Uzbekistan, Tien Shan Mts. (PGM) (Photo by P. Gyulai). **3.** *L. w-latinum*, male, East Kazakhstan, Tarbagatai Mts. (CAV). **4.** *L. thalassina*, NE Kazakhstan, Pavlodar Region (CAV).

Diagnosis: The new species belongs to the subgenus *Lacanobia* and is closely related to *L. w-latinum* (Hufnagel, 1766) and *L. w-latinoides* Gyulai & Ronkay, 1998. Externally, *L. dubatolovi* Volynkin, sp. n. (Fig. 1) is very similar to *L. w-latinoides* (Fig. 2), and differs by the less elongated forewing apex, somewhat smaller reniform stigma, and somewhat darker subterminal area and hindwings; from *L. w-latinum* (Fig. 3) it differs clearly by the reddish ground colour of forewings, paler orbicular and reniform stigmata, and more brownish hindwings. Externally, *L. dubatolovi* sp. n. also resembles reddish specimens of *L. (Dianobia) thalassina* (Hufnagel, 1766) (Fig. 4), but can be different by its slightly larger size, the narrower forewings, less distinct pattern, and darker hindwing with much more diffuse discal spot. In the male genitalia, *L. dubatolovi* sp. n. (Fig. 5) differs clearly from the both related species by the shape of distal part of valva: compared with *L. w-latinum* (Fig. 6), the valva is dilated subapically below cucullus, the cucullus is shorter, broader, with broader neck, the corona is larger, lobe-like costal process is larger, more rounded, with smaller tooth; compared with *L. w-latinoides* (Fig. 7), the valva is less dilated subapically, the cucullus is longer, narrower, more or less trigonal, with well-developed neck, the lobe-like costal process is larger, has small tooth.

Distribution: The new species is known only from its type-locality, the West Kopetdagh Mountains in southwestern Turkmenistan.

Eymology: The species name is dedicated to Dr. V.V. Dubatolov, a well-known expert in Lepidoptera taxonomy and biogeography, and collector of the holotype.

Acknowledgements

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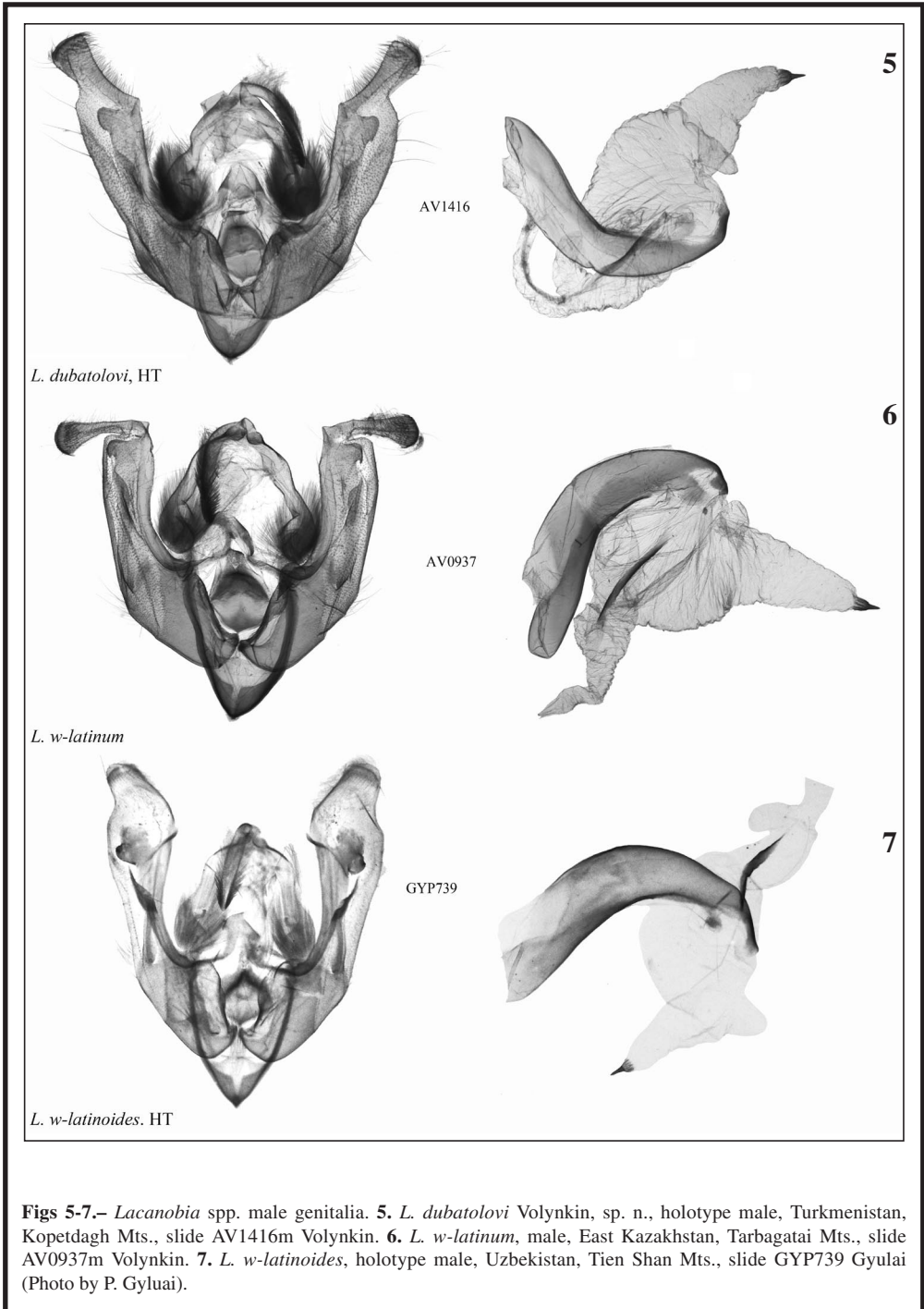
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Figs 5-7.— *Lacanobia* spp. male genitalia. **5.** *L. dubatolovi* Volynkin, sp. n., holotype male, Turkmenistan, Kopetdagh Mts., slide AV1416m Volynkin. **6.** *L. w-latinum*, male, East Kazakhstan, Tarbagatai Mts., slide AV0937m Volynkin. **7.** *L. w-latinoides*, holotype male, Uzbekistan, Tien Shan Mts., slide GYP739 Gyulai (Photo by P. Gyulai).