

## New species of *Trismelasma* Schoorl, 1990 (Lepidoptera: Cossidae: Zeuzerinae) from Kangean Island (Indonesia)

## Новый вид рода *Trismelasma* Schoorl, 1990 (Lepidoptera: Cossidae: Zeuzerinae) с острова Кангеан (Индонезия)

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КЛЮЧЕВЫЕ СЛОВА: биоразнообразие, Суנדаланд, древооточцы, таксономия, Макронезия

**ABSTRACT.** The article describes a new species, *Trismelasma kangeana* Yakovlev, **sp.n.** (Lepidoptera, Cossidae, Zeuzerinae) from Kangean Island (Indonesia, Jawa Timur Province). The new species is distinguished from most species of the genus in the poorly modified pattern of the fore wing.

**РЕЗЮМЕ.** В статье описан новый вид *Trismelasma kangeana* Yakovlev, **sp.n.** (Lepidoptera, Cossidae, Zeuzerinae) с острова Кангеан (Индонезия, провинция Восточная Ява). Новый вид хорошо отличается от большинства видов рода слабо модифицированным рисунком крыла.

### Introduction

The genus *Trismelasma* was established by Schoorl [1990: 170] for *Cossus maculatus* Snellen, 1879 (by original designation). The genus includes 38 valid species distributed on the Pacific Ocean islands from the Philippines to New Guinea, the Solomon Islands and the Bismarck Archipelago [Roepke, 1955, 1957; Holloway, 1986; Schoorl, 1990, 2001; Yakovlev, 2011a, b, 2015, 2022]. Examining the materials in Witt Museum, Munich (MWM) we found a new species of the genus from the western part of Indonesia (Kangean Island in Jawa Timur Province), its description is given in this article.

### Material and methods

The male genitalia were mounted in euparal on slides following Lafontaine and Mikkola [1987]. The slides were

photographed using an Olympus DP74 camera attached to an Olympus SZX16 stereomicroscope. The type material is deposited in the MWM. The images were processed in Corel Photo-Paint 2017 software.

### Description of new species

#### *Trismelasma kangeana* Yakovlev, **sp.n.**

Figs 1–2.

**TYPE MATERIAL.** Holotype (male), Indonesia, Kangan [Kangean] Isl. (N. Bali), 6.50°S, 115.15°E, 100 m, ix.2004, leg. Jakl (MWM). Paratype, 1 male, same locality and data (MWM).

**DESCRIPTION.** Male. Thorax and abdomen densely covered with light-brown scales. Tegulae and patagia light-brown. Antenna goblet-like, basal half bipectinate, setae long (2.5 – 3 times longer than antenna stem diameter), distal half with tiny prongs. Length of fore wing 24 mm. Wing pattern very poorly modified. Fore wing light-brown, with narrow dark-brown portion in basal third of costal margin and sputtering of dark-brown scales along two distal thirds of costal margin, cubital area (from root to postdiscal zone) with dark-brown strokes shaped as reticulated pattern, more expressed basally; wide dark-brown portion along dorsal margin; fringe unicolorous, brown. Hind wing light-brown with slight sputtering of grey scales, without pattern, fringe unicolorous brown.

**Male genitalia.** Uncus long, relatively narrow basally, slightly narrowing distally, apically rounded; gnathos arms long, thin, ribbon-like; gnathos absent; valve leaf-like, costal margin smooth, abdominal margin semicircular, notch of medium depth on border between basal and medium thirds; juxta robust, saddle-like, with pair of relatively short leaf-like processes; saccus very robust, trapezoidal, phallus equal to valve in length, relatively thin, basally extended, apically narrowing; thin finger-like cornutus in vesica.



Fig. 1. *Trismelasma kangeana* Yakovlev, **sp.n.**, holotype.  
Рис. 1. *Trismelasma kangeana* Yakovlev, **sp.n.**, голотип.



Fig. 2. Male genitalia of holotype of *Trismelasma kangeana* Yakovlev, **sp.n.** in the frontal projection.  
Рис. 2. Гениталии самца голотипа *Trismelasma kangeana* Yakovlev, **sp.n.** во фронтальной проекции.

Female unknown.

**DIAGNOSIS.** The new species is distinguished from most species of the genus in the poorly modified pattern of the fore wing. A similar reduced pattern (namely, the absence of the costal spots on the fore wing) is observed in the following species

– *Trismelasmos vavilovi* Yakovlev, 2022 (type locality: Indonesia, Lesser Sundas, Pantar Isl., Tanah Labang) — from which the new species differs in the reticulated pattern of the cubital area (from the root to postdiscal zone) on the fore wing, in the smoother abdominal margin of the valve and the longer uncus;

– *Trismelasmos draupadi* Yakovlev, 2011 (type locality: [Indonesia], Java or., Mt. Bahran) – from which the new species differs in the absence of the thin reticulated pattern throughout all the fore wing area, the smooth costal margin of the valve and the less thick phallus.

**FLIGHT PERIOD.** September.

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