

# TWO NEW TAXA OF *CLEOMENES* THOMSON, 1864 (COLEOPTERA: CERAMBYCIDAE) FROM CHINA AND VIETNAM

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Two new taxa of the genus *Cleomenes* Thomson, 1864 are described and illustrated: *C. modicatus bukejsi* ssp. nov. (China, Guangxi) and *C. katrinae* sp. nov. (Vietnam). The world fauna of *Cleomenes* is now represented by 45 species.

Key words: Coleoptera, Cerambycidae, *Cleomenes*, fauna, new species, taxonomy, China, Vietnam.

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## INTRODUCTION

The genus *Cleomenes* Thomson, 1864 (Coleoptera: Cerambycidae) is currently insufficiently studied. All species of the genus are known from Palaearctic and Oriental parts of Asia. Some species have relatively narrow distribution ranges associated with certain islands or mountain systems, and some are endemic species. There was no doubt that, many of additional species await discovery.

The genus *Cleomenes* belongs to the subfamily Cerambycinae Latreille, 1802 and the tribe Cleomenini Lacordaire, 1869 and in the world's fauna up to now is represented by 41 species (Tavakilian & Chevillotte 2020).

In recent years, several new species of *Cleomenes* were described from the Philippines Archipelago by Vives (2009, 2015): *C. copei* Vives, 2009,

*C. banauensis* Vives, 2009 and *C. infuscatus* Vives, 2015 from Luzon Island, and *C. rufonigra* Vives, 2009 from Calayan Island. Besides that, three new species of were described from the Philippines by Barševska & Barševskis (2020). Viktora (2019) described *C. hainanensis* Viktora, 2019 from Mt. Jianfengling (China, Hainan Island), Recently, Lazarev & Murzin, (2020a) described *C. putaoensis* Lazarev & Murzin, 2020 from Myanmar (North Burma) and provided distinguishing characters between it and closely related *C. assamensis* Gardner, 1926 (Lazarev & Murzin 2020b).

In the present study, illustrative descriptions of two new taxa (subspecies and species) of *Cleomenes* from China and Vietnam are presented. The total number of species of *Cleomenes* represented in the world fauna now by 45 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 photographs were 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.

## RESULTS

### *Cleomenes modicatus bukejsi* ssp. nov.

(Fig. 1)

**Type material.** HOLOTYPE, male: China: Guangxi [Guangxi], / Jinxiu / Mt. Dasuoshan, / 06. 2020, loc. coll. leg. [white handwritten label]; HOLOTYPE: / *Cleomenes/modicatus bukejsi* ssp. n. / Z.Barševska, A.Barševskis / desc. 2020 [red handwritten label] (DUBC).

**General distribution:** China, Guangxi.

**Description.** Body dark-brown, elongated, narrow, dorsal surface of elytra yellow, with dark spots and short longitudinal bands. Length of body: 9.8 mm, maximal width: 1.9 mm.

Head flattened, slightly elongate, with convex eyes. Dorsal surface of head with coarse punctures, dense golden tomentum and short, thin, longitudinal line between antennal bases. Frons square. Antennal bases thick, extended. Labrum brown, slightly pubescent, shiny. Clypeus brown, transverse, with light luster. Mandibles brown, with darkened sharp apex, massive, wide, shiny, relatively short, with dense pubescence on lateral portions. Cheeks with

dense golden pubescence. Antennae yellow, darkened at apex, covered with coarse punctures and fine, sparse pubescence. Antennomeres thickened apically. Antennae of male longer than elytra.

Pronotum black, cylindrical, elongate, covered with golden, dense pubescence; medioapical portion with two black spots (without pubescence) and some small spots in other parts of pronotum. Mediobasal and medioapical parts of pronotum near margins slightly impressed. Pronotum with very dense and coarse punctures.

Scutellum small, with dense golden pubescence. *Pars stridens* almost completely covered with pronotum.

Elytra almost parallel-sided, very narrow, yellow, flattened dorsally, with distinctly slightly raised shoulders hump, with keel-shaped, narrow sutural yellow elevation, darkened in basal third. Elytral punctures arranged in longitudinal rows. Interstice between third and fourth rows forming raised rib in which located short black line in front of middle of each elytron. Elytra behind middle with several fuzzy dark spots and darkened apical part. Apex of elytra with two small, sharp extensions.

Ventral surface of body covered with dense, golden and yellow-grey pubescence. Legs yellow, covered with very fine pubescence.

Female unknown.



Fig. 1. *Cleomenes modicatus bukejsi* ssp. nov.

**Differential diagnosis.** Regarding the shape of the body, the new subspecies is similar to the nominative subspecies *C. modicatus modicatus* Holzschuh 1995, from which it can be distinguished by the different arrangement of spots in elytra: one transverse spot, two larger symmetrical spots and two smaller spots, connected by a shorter longitudinal dark line (*C. m. modicatus* with two larger and two smaller symmetrical spots in elytra).

**Etymology.** This subspecies is named after my colleague Dr. Andris Bukejs (Daugavpils University, Daugavpils, Latvia) in appreciation of cooperation, and in gratitude for his contribution to the studies of fossil Coleoptera from the Baltic amber.

**Note.** Currently, two subspecies of *C. modicatus* Holzschuh 1995 have been described: *C. m. modicatus* Holzschuh 1995 (Fig. 2) from Yunnan, China and *C. m. tristriatus* Holzschuh 1995 from Laos (Tavakilian, Chevillotte 2020).

***Cleomenes katrinae* sp. nov.**

(Fig. 3)

**Type material. HOLOTYPE**, male: Yên Bái, Vietnam / 4/2020 [white printed label]; **HOLOTYPE**: / *Cleomenes* / *katrinae* sp. nov. / Z.Barševska, A.Barševskis / desc. 2020 [red handwritten label] (DUBC).

**PARATYPES**, 2 males: Yên Bái, Vietnam /



Fig. 2. *Cleomenes modicatus tristriatus* Holzschuh 1995, holotype (Berzak 2020).



Fig. 3. *Cleomenes katrinae* sp. nov.



Fig. 4. *Cleomenes longipennis* Gressitt, 1951, holotype (Berzak 2020).

5/2020 [white handwritten label]; HOLOTYPE: / *Cleomenes* / *katrinae* sp. nov. / Z.Barševska, A.Barševskis / desc. 2020 [red handwritten label] (DUBC).

**General distribution:** Vietnam.

**Description.** Body black, elongated, narrow, dorsal surface of elytra yellow, with three black longitudinal lines and apical spot. Length: 16.5-18.0 mm, maximal width: 2.8-3.0 mm.

Head elongate, with convex eyes and extended antennal bases. Dorsal surface of head with coarse punctures, covered with very dense golden pubescence; longitudinal line between eyes missing. Labrum brown, slightly pubescent, shiny. Clypeus brown, transverse, with light luster. Mandibles dark brown, with darkened sharp apex, massive, curved, shiny, relatively short, with lateral pubescence. Cheeks with sparse pubescence. Antennae brown, thickened apically, covered with very fine punctures and sparse, fine pubescence. Antennae reaching almost apex of elytra.

Pronotum black, cylindrical, slightly impressed, emarginated with band of golden pubescence along entire length. Middle portion of pronotum with longitudinal line of golden pubescence divided into two parts. Pronotum convex in middle and distinctly thickened, with very dense and coarse punctation.

Scutellum small, with dense golden pubescence, with rounded apical margin. *Pars stridens* almost completely covered with pronotum.

Elytra almost parallel-sided, narrow, yellow, flattened dorsally, with keel-shaped, narrow sutural elevation and coarse punctation. Each elytron with three black longitudinal lines; middle line twice interrupted: in front of middle of elytra and apical spot of golden pubescence, emarginated with black band. Apex of elytra with two sharp extensions.

Ventral surface of body especially along the sides covered with dense golden pubescence.

Legs yellow-brown, slightly shiny, covered with very fine pubescence. Tarsomeres yellow-brown, covered with yellow-brown pubescence.

Female unknown.

**Differential diagnosis.** Based on the shape of the body and the general character of the elytral pubescence, *C. katrinae* sp. nov. similar to *C. longipennis* Gressitt, 1951 (Fig. 4), from which it can be distinguished by the wider and less elongated golden pubescence on the pronotum and interrupted mediiodorsal band on the elytra with emarginated spot of dense pubescence on the apex of the elytra.

**Etymology.** This species is named after our daughter Katrīna Barševska (Daugavpils, Latvia).

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