

# A new *Cylindera* Westwood, 1831 species of the subgenus *Leptinomeria* Rivalier, 1961 from Peninsular Malaysia, with notes on two other tiger beetle species (Coleoptera: Carabidae: Cicindelinae)<sup>1</sup>

## Новый вид рода *Cylindera* Westwood, 1831 подрода *Leptinomeria* Rivalier, 1961 из Малайзии с замечаниями о двух других видах жуков-скакунов (Coleoptera: Carabidae: Cicindelinae)<sup>1</sup>

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KEY WORDS: Cicindelinae, South-Eastern Asia, *Cylindera* (*Leptinomeria*), *Naviauxella*, new species, new records.

КЛЮЧЕВЫЕ СЛОВА: Cicindelinae, Юго-Восточная Азия, *Cylindera* (*Leptinomeria*), *Naviauxella*, новый вид, новые находки.

ABSTRACT. A new species, *Cylindera* (*Leptinomeria*) *kualatahanensis* sp.n., is described from Kuala Tahan, West Malaysia. Moreover new data about the distributions of two poor known tiger beetles: *Cylindera* (*Leptinomeria*) *brendelliana* Naviaux, 1991 and *Naviauxella rufovittata* Cassola & Werner, 1995 are given.

РЕЗЮМЕ. Описан новый для науки вид, *Cylindera* (*Leptinomeria*) *kualatahanensis* sp.n. из Куала Тахана, Западная Малайзия. Кроме того, приведены новые данные о распространении двух редких видов жуков-скакунов: *Cylindera* (*Leptinomeria*) *brendelliana* Naviaux, 1991 и *Naviauxella rufovittata* Cassola & Werner, 1995.

After the second author's revision of the *Cylindera* species of the subgenus *Leptinomeria* Rivalier, 1961 [Cassola, 1983] and a few subsequently published papers [Bogenberger, 1984; Wiesner, 1989, 1992, 1996, 1998; Naviaux, 1991; Cassola, 1995; Cassola & Probst, 1995], a further new species has now been discovered in peninsular Malaysia, whose description is the main object of this paper. Thus, the number of species known so far to belong to this SE Asian subgenus is raised up to 20, all of which are interestingly distributed from Burma (Myanmar) and Thailand southwards to Sumatra, Borneo, and Java. Moreover, new records are given for another Malaysian *Leptinomeria* species, as well as for *Naviauxella rufovittata* Cassola & Werner, 1995, from Vietnam, thus slightly extending their known distributional ranges.

The studied material is presently kept in the MPU (Zoology and Ecology Department of the Moscow State Pedagogical University, Russia), OKC (Mr. Oleg N. Kabakov, St.-Petersburg, Russia), and ZISP (Zoological Institute, Russian Academy of Sciences, St.-Petersburg, Russia) collections.

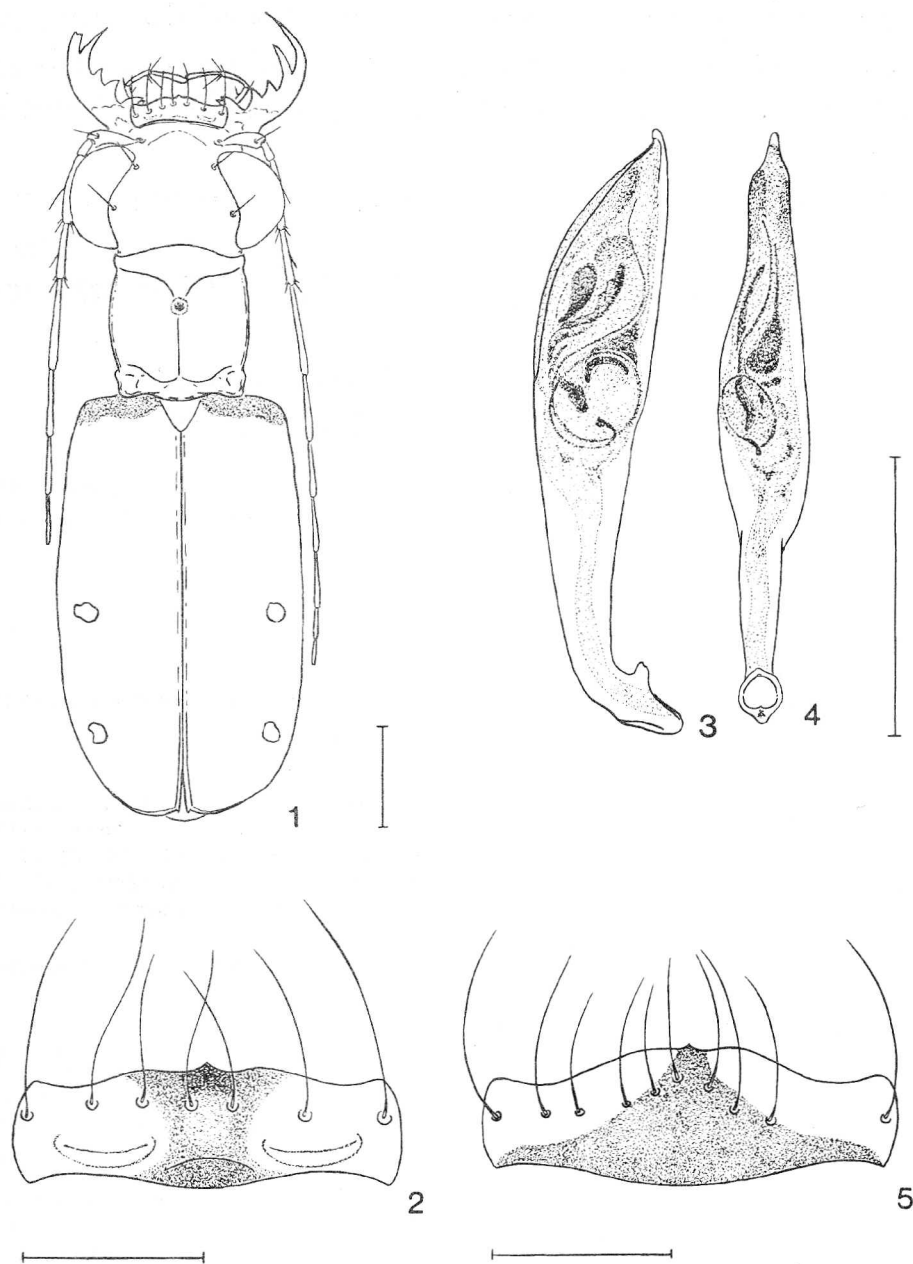
### *Cylindera* (*Leptinomeria*) *kualatahanensis* sp.n. Figs. 1–4.

MATERIAL. Holotype: ♂ — “Peninsular Malaysia, Kuala Tahan, at light, 12–13.VII.1996, M. Mostovsky leg.” (ZISP).

DIAGNOSIS. A small *Leptinomeria* species, with large protruding eyes, the head dark violet with purple reflections, the cheeks light golden green, the labrum short, testaceous, 7-haired. Antennae long, approximately reaching the two thirds of the elytral length. Pronotum violet-black, golden-green on the lateral sides and the hind protruding tubercles. Elytra dull black, with a metallic golden-green humeral area; two small roundish dots in the middle and on the subapical callus, some distance from the lateral margin. Legs metallic black with violaceous reflections.

DESCRIPTION. Length without labrum is 6.4 mm (Fig. 1). Head metallic dark violet, with some purple reflections on eyes and a golden lustre on clypeus and frons; antennal plates and vertex metallic green; glabrous, with just two setae or setigerous punctures near the edge of each eye. Genae longitudinally striated, glabrous, light metallic green. Eyes large, protruding, globose, supraorbital area distinctly striated. Labrum short, transverse, 3.8 times as long as wide, testaceous, slightly darkened in the middle, unidentate, with seven submarginal setae (four on the left side, three on the right one); stiffer pores rounded, large, basal dimples transverse, well developed, basal rise distinct (Fig. 2). Mandibles light brown with a slight greenish tinge, testaceous basally. Labial and maxillary palpi slender, elongate, light testaceous, with the last joint metallic dark brown with greenish reflections. An-

<sup>1</sup> Studies on Tiger Beetles. CVIII.



Figs. 1–5. *Cylindera (Leptinomera) kualatabanensis* sp.n., male holotype (1–4), *Cylindera (Leptinomera) brendelliana* Naviaux, 1991 (5): 1 — habitus; 2, 5 — labrum; 3 — aedeagus, left view; 4. aedeagus, dorsal view. Scale bar: 0.5 mm (2, 5), 1 mm (1, 3, 4).

Рис. 1–5. *Cylindera (Leptinomera) kualatabanensis* sp.n., самец, голотип (1–4), *Cylindera (Leptinomera) brendelliana* Naviaux, 1991 (5): 1 — общий габитус; 2 — верхняя губа; 3 — эдеагус, вид слева; 4 — эдеагус, вид сверху. Масштабная линейка: 0,5 мм (2, 5), 1 мм (1, 3, 4).

tennae slender, long, projected well over the elytral half, approximately as long as the two-thirds of the elytral length; scape and second joint light golden green, a single long seta on tip of scape; articles 3 and 4 metallic cupreous-violet, with bluish reflections apically, 1–2 short spiniform setae only, except apical ones; antennomeres 5–11 dull black, fully and evenly covered with short whitish pubescence.

Pronotum slightly longer than wide, slightly rounded at sides, its maximum width after the middle; metallic black, with bluish-violet reflections on the front lobe and the middle

of hind lobe, golden-green on the lateral sides and the hind protruding tubercles; surface glabrous, smooth, with a few fine irregular wrinkles on disc, a deep dimple in the apical third of the middle longitudinal line. Proepisternum metallic dark green with some golden lustre, glabrous in the middle, with long white semi-erect hairs in the front half and in the hind sulcus. Thoracic sternites metallic green, pro- and mesothorax glabrous, metathorax and metepisternum with long white decumbent hairs. Legs, except rufescent coxa, metallic dark violaceous-green, tibiae with golden-purple lustre.

Elytra parallel-sided, dull black, with a metallic golden-green area on shoulders; elytral markings consisting of two small, roundish, similarly-sized dots only, situated respectively in the middle and on the subapical callus, some distance from the lateral margin; humeral dot absent. Scutellum dark blue-violet, elytral suture just raised in front and apical sides, narrowly bordered with violet-cupric reflections. Apical margin rounded, not serrulate, sutural tooth very small, indistinct; epipleura dull brown, darkened on basal third.

Abdominal sternites blue-green, regularly covered by white decumbent hairs on the outer thirds. Penis 2.1 mm long, distinctly depressed laterally before apex, with a short apical beak; inner sac typical of the genus, with a long thin flagellum (Figs. 3–4).

ETYMOLOGY: The new species is so named from its type locality (Kuala Tahan, Peninsular Malaysia).

REMARKS: *Cylindera* (*Leptinomera*) *kualatahanensis* sp.n. is easily recognisable from the closely allied *C. (L.) catoptroides* (W. Horn, 1892) by its blackish overall colour, the more testaceous labrum and the wider, more bulky, aedeagus. From *C. (L.) dieckmanni* Cassola, 1983, a Bornean species, which is also blackish in colour with black-violet head and pronotum, the new species is easily distinguished by the proportions of pronotum (slightly longer than wide) and the differently-coloured labrum. Couplet 11 in Cassola's keys [1983, 1995] has to be modified accordingly:

11. Pronotum longer than wide ..... 11a  
 11a. Larger (6.5–7.5 mm); labrum testaceous, basally tinged with metallic green; elytra dark bronze-green, shorter in proportion ..... *catoptroides* (W. Horn, 1892)  
 11b. Larger (7.5–8 mm); labrum testaceous, basally tinged with metallic green; elytra emerald-green, longer in proportion ..... *gestroi* (W. Horn, 1892)  
 11c. Smaller (6.4 mm); labrum testaceous, slightly darkened in the middle; elytra dull black..... *kualatahanensis* sp.n.

*Cylindera* (*Leptinomera*) *brendelliana* Naviaux, 1991

Fig. 5.

MATERIAL. 1 ♀ — "Thailand, Khao Soc National Park, at light, 20–21.VII.1996, M. Mostovsky leg." (MPU).

REMARKS. This interesting species was described by Naviaux [1991] from north-western Thailand, based on two female specimens only. Later on, it was recorded by Cassola [1995] from south-eastern Burma (one female) and southern Thailand (three females). The new locality, mentioned above, lies in south Thailand too, along the Andaman Sea coast. Our specimen differs from the type ones [Naviaux, 1991] because of the larger number (10) of labial setae (Fig. 5). Apparently, no males have been collected yet.

*Naviauxella rufovittata* Cassola & Werner, 1995

MATERIAL. "Vietnam, Gia Lai province, Kon Tum plateau, A.V. Gorochov leg.: 1 ♂ — 1.IV.1995 (MPU); 1 ♀ — 30.IV.1995; 1 ♂ — 5.V.1995" (OKC).

REMARKS. Up to now this species was known from the type locality only, i.e. from 13 km SW of Bao Loc, southern Vietnam [Cassola & Werner, 1995]. The new locality, mentioned above, lies some 300 km North of it.

ACKNOWLEDGEMENTS: We are very grateful to Dr. Boris M. Kataev (Zoological Institute, St.-Petersburg, Russia) for the possibility of studying specimens from the collection of the Zoological Institute and compare them with our specimens, and also to Dr. Mikhail Mostovsky (Paleontological Institute, Moscow, Russia) and Mr. Oleg N. Kabakov, who very kindly made these materials available for study.

This study received financial support of the Russian Foundation of Fundamental Researches (N<sup>o</sup> 96-15-98079).

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