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**DESCRIPTION OF THE HITHERTO UNKNOWN FEMALE OF
HYPOGANUS WENNAE QIU ET PROSVIROV, 2017 (COLEOPTERA:
ELATERIDAE: DENDROMETRINAE)**

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Summary. The hitherto unknown female of *Hypoganus wennaе* Qiu et Prosvirov, 2017 from Yunnan province of China is described. The photographs of female habitus and reproductive organs are provided.

Key words: click beetles, Elateroidea, Prosternini, taxonomy, Yunnan, China.

Л. Цю. Описание ранее неизвестной самки *Hypoganus wennaе* Qiu et Prosvirov, 2017 (Coleoptera: Elateridae: Dendrometrinae) // Дальневосточный энтомолог. 2022. N 459. С. 33-36.

Резюме. Из провинции Сычуань в Китае описывается ранее неизвестная самка *Hypoganus wennaе* Qiu et Prosvirov, 2017. Приводятся фотографии внешнего вида и гениталий самки.

INTRODUCTION

Hypoganus Kiesenwetter 1858 is a small click-beetle genus which widely distributed through Europe and Asia to North America (Tarnawski 1996; Čechovský & Kubáň 1997; Schimmel & Tarnawski 2017; Qiu & Prosvirov 2017). Currently, only six species are recorded from the Palearctic region and three of which are known from China (Qiu & Prosvirov, 2017). *Hypoganus wennaе* Qiu et Prosvirov, 2017 was described from South Yunnan of China based on a single male specimen. No additional material especially the female was known since the original description. Recently, I obtained more specimens of *H. wennaе* from the type locality which also including the female. Thus, here I describe and illustrate the female of *H. wennaе* for the first time. The newly examined specimens, as well as the holotype of *H. wennaе* are all deposited in the Invertebrate Collection of Mianyang Normal University, Mianyang, Sichuan, China (MYNU).

Habitus images were photographed using a Canon® EOS M5 digital camera+ mount adapter EF-EOS M plus a Laowa 100 mm F2.8 CA-Dreamer Macro 2× lens (for Canon EF). Character images of the female were photographed using a Canon® EOS RP + Mount Adapter EF-EOS R plus a Laowa® 25 mm F2.8 2.5-5× Ultra Macro Lens (for Canon EF). All figures were modified in Adobe Photoshop® CC 2019. Body length was measured from

the anterior margin of head to the apex of elytra, pronotal length was measured at midline, pronotal width was measured between the posterior angles, and width of body was measured at the widest place of elytra. The terminology of the female internal genitalia used in this paper mainly follows Etzler (2019).

RESULTS

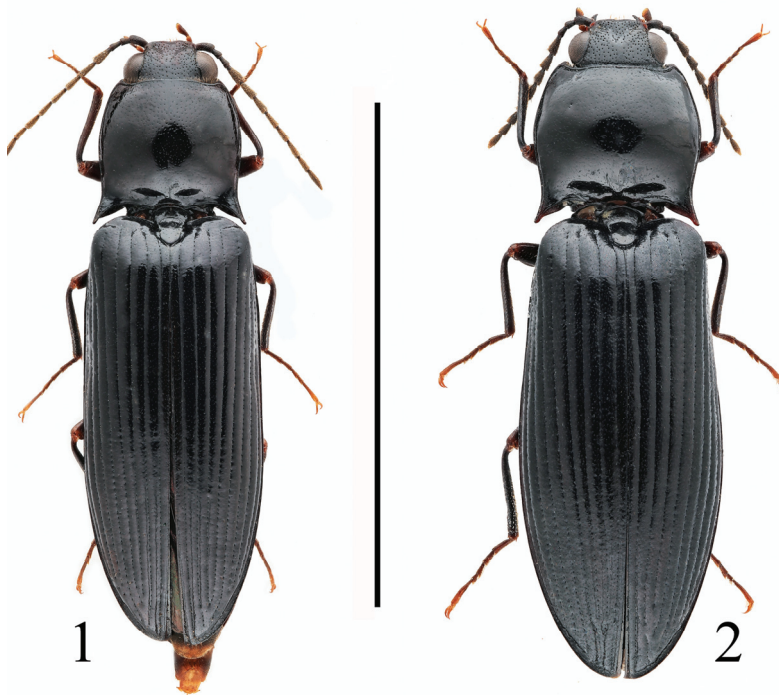
Hypoganus wennae Qiu et Prosvirov, 2017

Figs 1–5

Hypoganus wennae Qiu & Prosvirov, 2017: 350, ♂.

TYPE MATERIAL EXAMINED. Holotype – ♂, **China**: Yunnan, Honghe Prefecture, Pingbian County, Mt. Daweishan, 2000–2100 m, 15.VII 2016, leg. Zhi-Wei Dong (MYNU).

NEW MATERIAL EXAMINED. **China**: Yunnan Province, Honghe Prefecture, Pingbian County, Mt. Daweishan, 2050 m, 3–5.VIII 2021, 2♂, 1♀, leg. Hao-Yi Liu (MYNU).



Figs 1, 2. Habitus of *Hypoganus wennae* from Mt. Daweishan, Yunnan, China. 1 – male, dorsal view; 2 – female, dorsal view. Scale bar: 10 mm.

DESCRIPTION OF FEMALE (hitherto unknown). Similar to males, with more globous pronotum and elytra. Body length 13.1 mm, body width 3.9 mm, antennal length 3.4 mm, pronotum length 2.6 mm, pronotum width 3.2 mm, elytral length 9.1 mm. Antennae shorter than male. The width of pronotum from midline almost the same as the width between posterior

angles. Tergite VIII lingulate, apex rounded; sternite VIII slightly longer than width, with sides of apical portion straight, apex pointed, spiculum ventrale 2 times of sternite VIII length. Ovipositor robust; coxite sclerotized, styli absent, with several setae subapically. Uterus thin, membrane (probably with colleterial glands incorporated). Bursa copulatrix elongate, with spaced row of spines; each spine elongate, large, needle-like. Two tortile accessory glands and a slender tubular extension present at the apex of bursa copulatrix. One accessory gland longer and distinctly much more spiral than the other.

MALE. Body length 11.9–12.5 mm, similar to the male holotype, only slightly varied in the body length and shape of pronotum.

DISTRIBUTION. China: Yunnan.



Figs. 3–5. Female of *Hypoganus wenna* from Mt. Daweishan, Yunnan, China. 3 – sternite VIII, dorsal view; 4 – tergite VIII, ventral view; 5 – genitalia, ventral view. Abbreviations: ag: accessory gland; bc: bursa copulatrix; té: tubular extension; ut: uterus. Scale bar: 2 mm for all.

REMARKS. The ovipositor of this species lacks styli, and its internal female internal genitalia (bursa copulatrix, accessory glands and tubular extension) also significantly differs from those of its relatives from Europe and Western Asia (i.e., *Hypoganus inunctus* and *Hypoganus stepanovi*) (Qiu & Prosvirov, 2017). More species from this genus need to be dissected and compared to better understand their female reproductive organs.

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REFERENCES

- Čechovský, P. & Kubáň, V. 1997. *Hypoganus tibetis* sp. nov. from China (Coleoptera: Elateridae: Ctenicerini). *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen*, 49, 115–117.
- Etzler, F.E. 2019. Generic Reclassification of *Limonius* Eschscholtz, 1829 (Elateridae: Dendrometrinae) sensu Candèze 1860 of the World. *Zootaxa*, 4683(3): 301–335. DOI: 10.11646/zootaxa.4683.3.1
- Kiesenwetter, H.V. 1858. Fam. Elateridae. P. 177–384. In: Erichson, W.F. (Ed.). *Naturgeschichte der Insekten Deutschlands. Coleoptera. IV*. Nicolaische Buchhandlung, Berlin.
- Qiu, L. & Prosvirov, A.S. 2017. A new species of *Hypoganus* Kiesenwetter, 1858 (Coleoptera: Elateridae: Dendrometrinae) from China, with notes on the Palearctic species of the genus. *Zootaxa*, 4324(2): 348–362. DOI: 10.11646/zootaxa.4324.2.7
- Schimmel, R. & Tarnawski, D. 2017. New species of the genera *Calambus* Thomson, and *Hypoganus* Kiesenwetter (Coleoptera: Elateridae) from China. *Journal of Asia-Pacific Entomology*, 20: 293–297. DOI: 10.1016/j.aspen.2016.11.007
- Tarnawski, D. (1996) A world catalogue of Ctenicerini Fleutiaux, 1936 (Coleoptera: Elateridae: Athoinae). *Genus*, 7 (4), 587–663.

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