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FIRST RECORD OF *TRACHYTHORAX INCERTUS* REDTENBACHER, 1908 (PHASMATODEA: LONCHODIDAE: NECROSCIINAE) FROM CHINA WITH DESCRIPTION OF HITHERTO UNKNOWN MALE AND EGGS

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Summary. The Vietnamese species *Trachythorax incertus* Redtenbacher, 1908 is recorded from Guangxi Zhuang Autonomous Region of China for the first time. The hitherto unknown male and eggs of the species are described and illustrated based on the specimens deposited in Guangxi Normal University.

Key words: stick insects, fauna, new record, male sex, egg, description, China.

И. Т. Цинь, Ц. В. Чжан, С. Бянь. Первое указание *Trachythorax incertus* Redtenbacher, 1908 (Phasmatodea: Lonchodidae: Necrosciinae) из Китая с описанием ранее неизвестного самца и яиц // Дальневосточный энтомолог. 2025. N 522. С. 1-7.

Резюме. Известный ранее только из Вьетнама вид *Trachythorax incertus* Redtenbacher, 1908 впервые зарегистрирован в Гуанси-Чжуанском автономном

районе Китая. До сих пор неизвестные самец и яйца этого вида описаны и проиллюстрированы на основе образцов, хранящихся в Гуансийском педагогическом университете.

INTRODUCTION

Up to now, the genus *Trachythorax* Redtenbacher, 1908 includes 16 species distributed in from China to Indonesia, Malaysia, the Philippines and New Guinea (Brock *et al.* 2024).

Redtenbacher (1908) proposed *Trachythorax* with *T. maculicollis* as the type species and described *T. insertus* Redtenbacher, 1908 from Vietnam and *T. unicolor* Redtenbacher, 1908 from Java. Matsumura & Hirayama (1931) transferred the Taiwanese species *Necroscia sexpunctata* Shiraki, 1911 into this genus. Later, Cai described one new species from Chinese mainland, i.e. *T. longialatus* Cai, 1989, and firstly recorded the *T. atrosignatus* (Brunner von Wattenwyl, 1893) in China (Cai, 1989). Based on female specimen, Chen & He (1995) found a new species *T. fuscocarinatus* in Hainan Island and then described the male sex of this species (Chen & He 2008). Seow-Choen (2017, 2019) thought *T. atrosignatus* was a junior synonym of *T. maculicollis* and transferred *Marmessoidea chinensis* Redtenbacher, 1908 into *Trachythorax*. Recently, the subspecies *T. maculicollis yunnanensis* was described from Yunnan Province by Gao & Liang in 2021. In the same year, Bresseel & Constant (2021) reviewed the genus *Trachythorax*, described two new species from Vietnam (*T. albomaculatus* Bresseel & Constant, 2021 and *T. auranticollis* Bresseel & Constant, 2021), elevated the rank of *T. maculicollis yunnanensis* to species status and reinstated *T. illaesa* (Redtenbacher, 1908) from India as a valid species. Up to now, six species of *Trachythorax* have been recorded from China.

The present paper provides the first record of *Trachythorax incertus* from China and the descriptions of the hitherto unknown male sex and eggs.

MATERIAL AND METHODS

All the examined specimens were kept in absolute alcohol at Guangxi Normal University. The specimens were examined under Nikon SMZ745 stereoscopic microscope and imaged using VHX-6000. Habitus images were made with a Nikon D7100 with a microlens 105mm f/2.8. Measurements in millimeters were made using Vernier calipers.

RESULTS

Order Psmatodea

Family Lonchodidae Brunner von Wattenwyl, 1893

Subfamily Necrosciinae Brunner von Wattenwyl, 1893

Tribe Necrosciini Brunner von Wattenwyl, 1893

Genus *Trachythorax* Redtenbacher, 1908

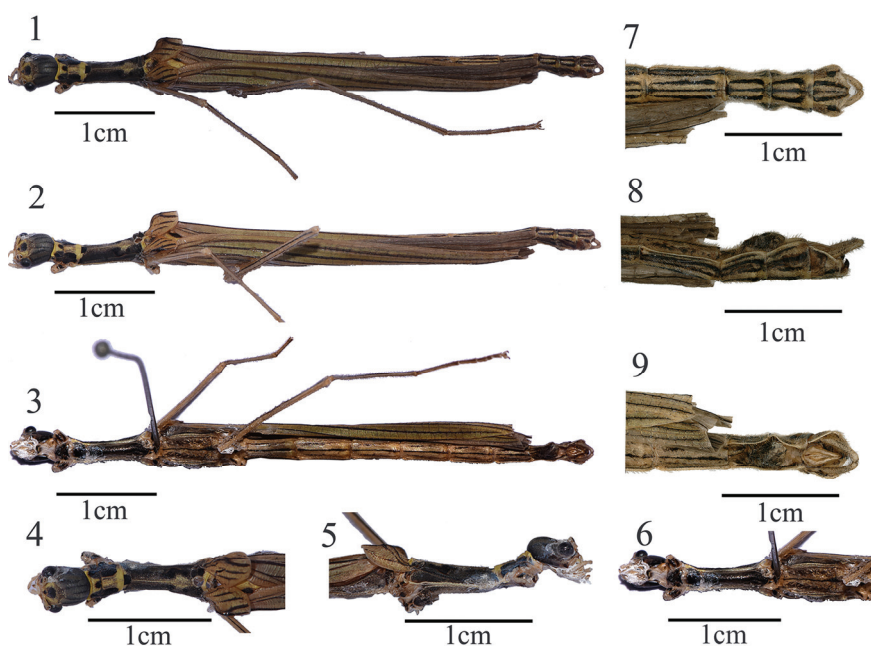
***Trachythorax incertus* Redtenbacher, 1908**

Figs 1–24

Trachythorax incertus Redtenbacher, 1908: 508 (holotype – female, Vietnam: Than-Moi; deposited at Naturhistorisches Museum, Wien).

MATERIAL EXAMINED. China: Guangxi, Fangchenggang, Fulong, 2 VII 2023, 1♂, 1♀, coll. Nianqiu Zhang.

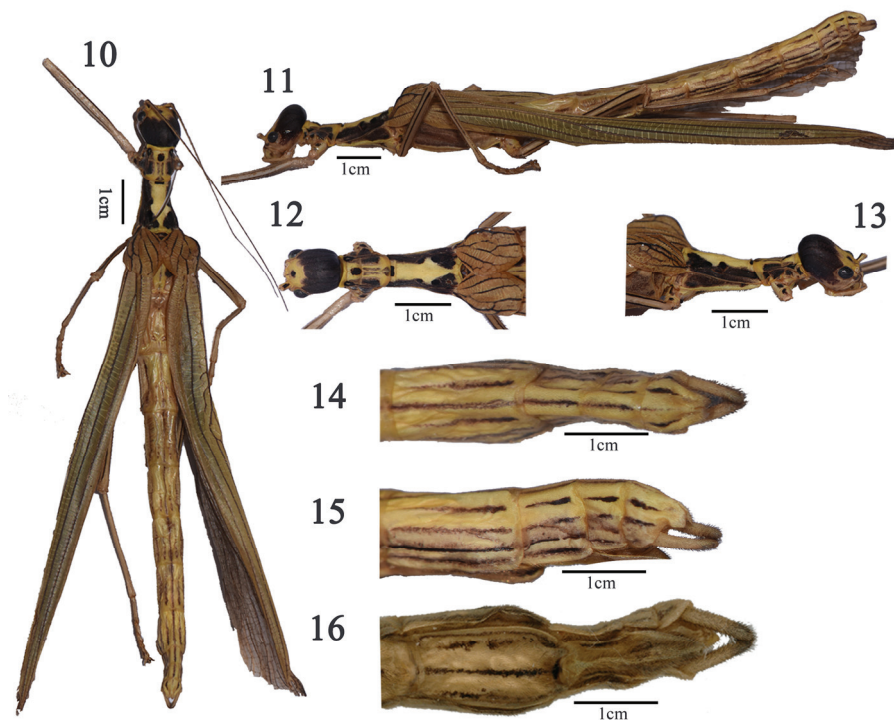
DESCRIPTION. MALE (Figs 1–9). General aspect: Considerably smaller than female (Fig 18). General coloration of body yellowish brown. Winged. Face, pronotal disc, middle area of mesonotal disc and all legs yellowish brown; anterior and posterior margins of pronotum brownish red.



Figs 1–9. Male of *Trachythorax incertus* Redtenbacher, 1908. 1–3 – habitus; 4–6 – head and thorax; 7–9 – terminalia; 1, 4, 7 – dorsal view; 2, 5, 8 – lateral view; 3, 6, 9 – ventral view.

Head: Smooth. Vertex with a large black spot between eyes. Occiput slightly convex. Antennae shorter than body; scapus slightly compressed dorsoventrally; pedicellus nearly cylindrical. Eyes black, circular in lateral view, strongly projecting hemispherically with longitudinal sulci behind eyes.

Thorax: Pronotum roughly rectangular, with 1 pair of longitudinal black stripes; anterior margin concave, transverse and longitudinal sulci crossing at the middle, the transverse sulcus located basal half area of pronotum. Mesonotum two times longer than pronotum, posterior area faintly raised, with narrow mediolongitudinal carina; with longer setose.



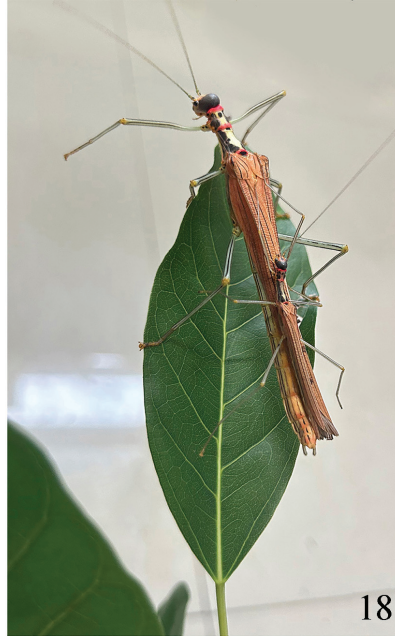
Figs 10–16. Female of *Trachythorax incertus* Redtenbacher, 1908. 10–11 – habitus; 12–13 – head and thorax; 14–16 – terminalia; 10, 12, 14 – dorsal view; 11, 13, 15 – lateral view; 16 – ventral view.

Wings: Tegmina brown with longitudinal black veins, short, not reaching median segment. Alae well developed, reaching posterior margin of tergum VII; costal area colored as tegmina.

Legs: Slender, completely unarmed. Femora slightly longer than the corresponding tibiae. Basitarsi strongly elongate, claws small but acute. Mid legs shorter than the other two legs.

Abdomen: All abdominal terga and sterna brown with longitudinal black line centrally. Terga VIII–X gradually shortening with slightly widening towards the posterior on each segment. Anal segment slightly broadened; lateral margins tapering; posterior margin slightly concave and posteroventral margin with 1 pair of strong, short spines. Poculum faintly swollen, apex subacute, reaching middle area of tergum VII.

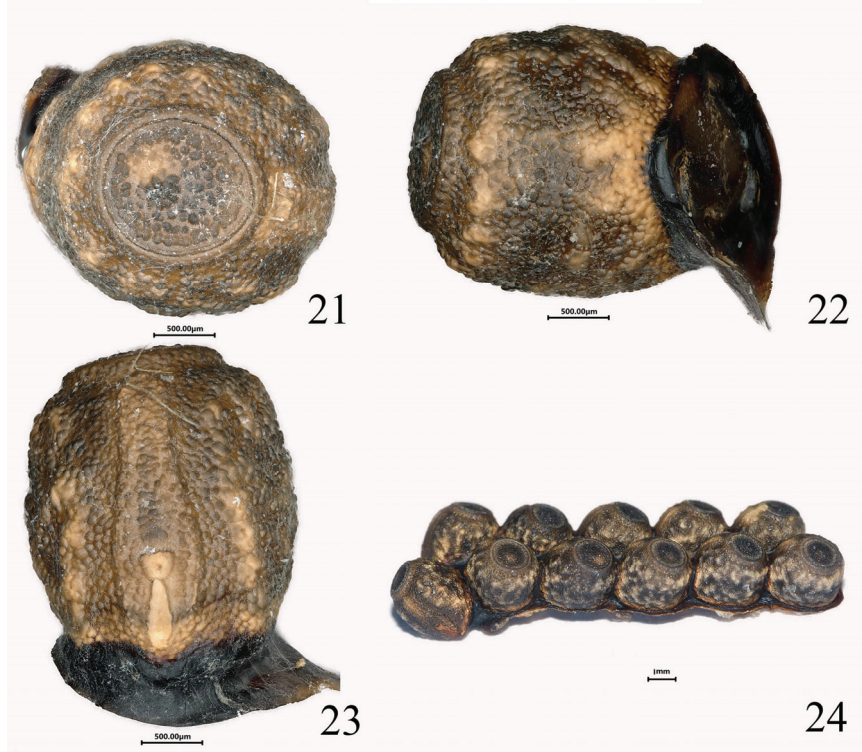
Cerci cylindrical, faintly incurved, projecting over apex of abdomen with apices rounded. Vomer distinct; body roughly prismatic with thickened lateral margins and longitudinal furrow medially; lateral margins convex on basal one-fifth area and then converging, posterior portion strongly up-curving, apex acute.



Figs 17–20. Habitus of *Trachythorax incertus* Redtenbacher, 1908. 17, 19, 20 – female; 18 – mating pair.

FEMALE (Figs 10–17, 19, 20). The habitus and coloration, as well as the shape of head, thorax and terminalia of studied female are the same as in holotype of *T. incertus*. Undoubtedly specimens from Vietnam and China are conspecific.

MEASUREMENTS. Length (in mm). Body: ♂ 44.0, ♀ 77.0; pronotum: ♂ 2.0, ♀ 4.0; mesonotum: ♂ 5.0, ♀ 6.5; metanotum with median segment: ♂ 3.5, ♀ 14.5; fore femora: ♂ 11.5, ♀ 15.0; mid femora: ♂ 7.5, ♀ 12.0; hind femora: ♂ 9.5, ♀ 17.5.



Figs 21–24. Eggs of *Trachythorax incertus* Redtenbacher, 1908. 21 – anterior view; 22 – ventral view; 23 – dorsal view; 24 – egg clutch.

EGG (Figs 21–24). Length: 2.7; width: 1.5; height: 2.2 mm. Capsule yellowish brown, barrel-shaped, surface covered with small tubercles. Micropylar plate elongated, yellowish brown, pear-shaped, with a small micropylar cup almost posteriorly. Median line indistinct.

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