



Taxonomy of the *Proisotoma* complex. IV. Notes on chaetotaxy of femur and description of new species of *Scutisotoma* and *Weberacantha* from Asia

CHENG-WANG HUANG¹ & MIKHAIL POTAPOV^{2,3}

¹Institute of Plant Physiology & Ecology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, 200032, China. E-mail: cw Huang@sibs.ac.cn

²Moscow State Pedagogical University, Kibalchicha str., 6, korp. 5, Moscow, 129278, Russia. E-mail: mpnk@orc.ru

³Corresponding author

Abstract

Four new species of the genera *Scutisotoma* Bagnall and *Weberacantha* Christiansen are described from Asia; *S. bengei* **sp. nov.** (SW China), *S. robustodens* **sp. nov.** (East Siberia), *S. trichaetosa* **sp. nov.** (E China), and *W. cylindrica* **sp. nov.** (Far East of Russia). *Scutisotoma christiansensi* (Stach, 1959) is figured from type material. The chaetotaxy of femur of first pair of legs is given a consistent nomenclature, its variability based on a survey of 31 species of two genera is studied. The genus *Scutisotoma* is divided into three species groups (*christianseni*, *schisti*, and *subarctica*).

Key words: Anurophorinae, Isotomidae, nomenclature of chaetae, chaetotaxy of legs

Резюме

Описываются четыре новых вида родов *Scutisotoma* Bagnall и *Weberacantha* Christiansen из Азии; *S. bengei* **sp. nov.** (юго-запад Китая), *S. robustodens* **sp. nov.** (Восточная Сибирь), *S. trichaetosa* **sp. nov.** (восток Китая) и *W. cylindrica* **sp. nov.** (Дальний Восток России). На основе изучения типовых экземпляров даются рисунки для *Scutisotoma christiansensi* (Stach, 1959). Предлагается номенклатура для описания хетотаксии бедра первой пары ног, изучены ее варианты, встреченные у 31 вида двух родов. Предложено деление рода *Scutisotoma* на три группы видов (*christianseni*, *schisti* и *subarctica*).

Ключевые слова: Anurophorinae, Isotomidae, номенклатура хет, хетотаксия ног

Introduction

In the course of study of Asiatic Isotomidae four new species of the *Proisotoma* complex were discovered by us. So far this complex, as it was defined by Potapov *et al.* (2006), includes nine genera distributed mostly in the Northern Hemisphere. The modern diagnoses were presented for these genera and they were partly revised by Fjellberg (1993), Potapov *et al.* (2006, 2009) and Huang *et al.* (2010). In the present paper three new species of the genus *Scutisotoma* and one of the genus *Weberacantha* collected in China and asiatic part of Russia are described. Based on the morphology of the outer mouth parts the known species of *Scutisotoma* are classified to three species groups. To differentiate the species and species groups the chaetotaxy of femur of the first pair of legs is introduced as an additional diagnostic character.

Type specimens of the new species are deposited in the Museum of Moscow State Pedagogical University (Russia) and Entomological Museum of Institute of Plant Physiology & Ecology, Shanghai Institutes for Biological Sciences, CAS (China).

Abbreviations: Abd.—abdominal segments; *accp*-sensillum—*p*-row accessorial tergal sensillum; Ant.—antennal segments; *bms*—basal microsensillum on antennal segments; B-row of chaetae—the second