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

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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

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 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...