



Article

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Two new species of *Folsomia* from north-eastern China (Collembola, Isotomidae)

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Abstract

Two new species *Folsomia aquatica* **sp. nov.** and *Folsomia sanjiangensis* **sp. nov.** from north-eastern China are described. *F. aquatica* was only found in wetlands, it belongs to *quadrioculata*-group, it can be distinguished from other species in the group by the combination of the following characters: ommatidia absent; microsensillar formula as1,1/1,0,0; VT with 4+4 latero-distal and usually 7 (6–10) posterior chaetae; 1+1 chaeta on anterior side of manubrium. *F. sanjiangensis* was found in forest and wetlands, it belongs to *sensibilis*-group and characterized by ommatidia absent; median sensilla on abdomen within p-row of chaetae; fifth segment of abdomen with a pair of leaf-like sensilla on each side; and 3 chaetae on lateral sides of manubrium.

Key words: *Folsomia aquatica*, *Folsomia sanjiangensis*, taxonomy

Introduction

Folsomia Willem, 1902 is one of the largest genus in the family Isotomidae (Potapov 2000; Fjellberg 2007). There are more than 140 species in that distributed all over the world, but only 10 of them have been reported from China (Ding & Chen 2006; Ji *et al.* 2007; Gao & Potapov 2009). Lots of collembolan specimens from northeast China were collected by our group members in recent two years, from which two new species were found belong to *quadrioculata*-group and *sensibilis*-group.

Material and methods

Specimens from wetlands and forest were collected by using soil auger and shovel respectively, all specimens were extracted to jars containing 95% alcohol by using Macfadyen method (Macfadyen, 1961), after clearing in lactic acid, specimens were studied using a Nikon Eclipse 80i microscope, all specimens are deposited in Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences.

Abbreviations

PAO—postantennal organ, Th. II–III—thoracic segments II–III, Abd. I–VI—abdominal segments I–VI, Ant. I–IV—antennal segments I–VI, VT—ventral tube, ms—microsensillum, s—sensillum, Mac—macrochaetae, p-row—posterior row of tergal chaetae.

Folsomia aquatica **sp. nov.**

(Figs 1–12)