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 as 1,1/1,0,0; 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


*Folsomia aquatica* sp. nov.

(Figs 1–12)