The genus *Folsomides* Stach (Collembola, Isotomidae) in Kermanshah Province (W Iran) with the description of two new species

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Abstract

The genus *Folsomides* Stach, 1922 is represented by four species in the Iranian fauna, two of which are new to the science. *Folsomides halshinicus* sp. nov. and *Folsomides subvinosus* sp. nov. are found in Kermanshah Province (Western Iran). The new species belong to the *Folsomides angularis* (Axelson, 1905) group and they are distinguishable from other congeneric species by the macrochaetotaxy (11/22233 macrochaetae on thoracic II to abdominal V tergites) and the number of chaetae on dens. A table with the diagnostic characters for the identification of Iranian species of *Folsomides* is given. Some figures of *F. vinosus* Fjellberg, 1993 from Canary Island was given after study of type specimens.

Key words: *Folsomides halshinicus*, *Folsomides subvinosus*, species list, taxonomy, Iran

Introduction

The first record of the *Folsomides* genus of the Iranian fauna was *Folsomides parvulus* Stach, 1922, a common cosmopolitan species, listed for the North of Iran by Cox (1982) and Sari regions (Northern Iran) by Yahyapour (2012). Later *F. marchicus* (Frenzel, 1941) was recorded from Kermanshah areas (Western Iran) (Kahrarian et al. 2012, Kahrarian & Arbea 2013).

During a recent study of the Collembola from Kermanshah areas, we found some specimens of this genus which belonged to *F. parvulus*, *F. marchicus* and two new species that are described and illustrated herein.

Material and methods

Samples of soil and leaf litter were collected in various localities and extracted into 75% alcohol by the Berlese-Tullgren funnels. Collembola specimens were sorted and mounted under slides in Hoyer’s solution.

Abbreviations used. Abd—abdominal tergum, Ant—antennal segment, ms—microsensillum, PAO—postantennal organ, SA, M and L—subaxial, median and lateral macrochaetae on thoracic and abdominal tergum, Th—thoracic tergum.

The terminology (types of macrochaetotaxy) used in the descriptions follows Fjellberg (1993).

Material deposit. IAUK—Kermanshah Branch, Islamic Azad University; JIAP—Private collection of J.I. Arbea (Spain).

Results

The genus *Folsomides* from Kermanshah Province (Western Iran)—species list
Discussion. As the previous new species, *Folsomides subvinosus* sp. nov. belongs to the species group of *Folsomides angularis* (Axelson, 1905) and also have lost several ms (10/001). Main differences between *F. subvinosus* sp. nov. and these species are summarized in Table 4. The new species is most similar to *F. vinosus*, but easily separated by the dorsal macrochaetotaxy; The new species has 22333 macrochaetae on Abd I–V, but *F. vinosus* has 11133 abdominal macrochaetae (Fig 3 vs 5); these species also differ in the shape of dorsal sensilla on Abd V, lower sensilla longer than upper ones in *F. subvinosus* sp. nov. and lower sensilla equal in length to upper ones in *F. vinosus*.

Etymology. Its name reflects the similarity to *F. vinosus*.

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References