



Three new species of Collembola from north-east Italy

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Abstract

Three new species of Collembola belonging to three different families were described from the Cansiglio Natural Reserve (north-east Italy): *Hypogastrura pizzoci* **sp. nov.** (Hypogastruridae), *Endonura saleri* **sp. nov.** (Neanuridae) and *Pseudosinella cansiliensis* **sp. nov.** (Entomobryidae).

Key words: Springtails, taxonomy, chaetotaxy, *Hypogastrura pizzoci* **sp. nov.**, *Endonura saleri* **sp. nov.**, *Pseudosinella cansiliensis* **sp. nov.**

Introduction

This work represents an additional contribution to the knowledge of the collembolan fauna from north-east Italy, specifically from the Cansiglio Natural Reserve (Venetian pre-Alps). Previous notes about Collembola from this area were published by Marcuzzi and Minelli (1971), who reported a list of 34 species with emphasis on their ecological preferences, and Marcuzzi (1973), who presented some observations about their chronology. In the same period Rusek (1973) studied some soil samples and produced a comprehensive list of 58 species, including the new species *Mesaphorura sensibilis* (Tullbergiidae). Later, Dallai and Fanciulli (1983) described a new species and genus of Neanurinae (*Cansilianura malatestai*) from the Cansiglio forest, thus bringing the total number of species to 61. During the '70s and the early '80s we collected several samples from the Cansiglio Natural Reserve; preliminary observations on this material revealed the presence of many additional species previously not reported, including three new species. In this work we describe these new taxa while in a forthcoming paper the complete inventory of the species found will be given.

Materials and methods

Two individuals of *Hypogastrura pizzoci* **sp. nov.** and *Pseudosinella cansiliensis* **sp. nov.** were processed for scanning electron microscopy. Material preserved in 80% ethanol was completely dehydrated in absolute ethanol, critical-point dried in a Balzer CPD 030 apparatus and coated with gold in a Balzer MED 010 sputter coater. Observations were performed with a Philips XL20 scanning electron microscope.

Family Hypogastruridae

Genus *Hypogastrura* Bourlet, 1839