



The genus *Pseudachorutes* Tullberg, 1871 (Collembola, Neanuridae) in the Ukraine with descriptions of new species

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Abstract

Four new species of *Pseudachorutes* from Ukraine are described and illustrated: *P. vitalii* sp. nov., *P. scythicus* sp. nov., *P. vasylii* sp. nov. and *P. janstachi* sp. nov. These new species differ in the body size, in the details of body chaetotaxy, in the number of vesicles of PAO, in the shape of mandibles, in the chaetotaxy of labrum and labium. The following species are redescribed on the basis of Ukrainian material: *Pseudachorutes pratensis* Rusek, 1973, *Pseudachorutes palmiensis* Börner, 1903, *Pseudachorutes parvulus* Börner, 1901, *Pseudachorutes subcrassus* Tullberg, 1871, *Pseudachorutes dubius* Krausbauer, 1898 and *Pseudachorutes corticolus* (Schäffer, 1896). A key to the Ukrainian *Pseudachorutes* species are given, too.

Key words: taxonomy, *P. vitalii* sp. nov., *P. scythicus* sp. nov., *P. vasylii* sp. nov., *P. janstachi* sp. nov., identification key, chaetotaxy

Introduction

The genus *Pseudachorutes* Tullberg, 1871 contains presently 107 species world wide (Bellinger *et al.* 2008). This genus is characterized by the following diagnostic characters: buccal cone extended, mandibles with two or several teeth, maxilla often styliform with two lamellae, ocelli 8+8, PAO present, empodial appendage absent, furca well developed, anal spines absent (Stach 1949, Massoud 1967).

The results of studies on Collembola in Ukraine for 150 years were summarized in “Catalogue of the Collembola and Protura of Ukraine” (Kaprus' *et al.* 2006). Only six *Pseudachorutes* species, *P. dubius* Krausbauer, 1898, *P. corticolus* (Schäffer, 1896), *P. laricis* Arbea & Jordana, 1989, *P. parvulus* Börner, 1901, *P. palmiensis* Börner, 1903 and *P. subcrassus* Tullberg, 1871, were collected on the country. A recent taxonomical study of Pseudachorutini recently collected in the Ukraine revealed four new species described here and one additional species record for the Ukraine. The presence of *P. laricis* was not confirmed.

In the present paper we give modern redescriptions of *P. dubius*, *P. corticolus*, *P. parvulus*, *P. palmiensis*, *P. subcrassus* and *Pseudachorutes pratensis* Rusek, 1973 based on Ukrainian material. The type material of five first mentioned species has been lost (we have no information about this material). Recent descriptions of these species were published by Fjellberg (1998) from Fennoscandia and Jordana *et al.* (1997) from Spain. However, some morphological information was absent in these descriptions. The Scandinavian material of *P. dubius*, *P. corticolus*, *P. parvulus*, *P. subcrassus* and Spanish material of *P. palmiensis* is considered to be conspecific with studied specimens from Ukraine. In the present paper descriptions of all *Pseudachorutes* species from Ukraine and a comparison of differentiating characters (Table 1) are given.