Zootaxa 1858: 9–36 (2008)
www.mapress.com/zootaxa/

ISSN 1175-5326 (print edition)
ZOOTAXA
ISSN 1175-5334 (online edition)

Redescription of four Polish *Endonura* Cassagnau, 1979 (Collembola, Neanuridae, Neanurinae), with a nomenclature of the ventral chaetae of antennae

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Abstract

A new diagnosis of *Endonura* Cassagnau, 1979 is given. *E. dudichi* (Loksa, 1967) **comb. nov.**, *E. incolorata* (Stach, 1951) **comb. nov.**, *E. lusatica* (Dunger, 1966) **comb. nov.** and *E. tatricola* (Stach, 1951) are redescribed based on type and new material from Poland, Ukraine, Hungary and Slovakia. Lectotypes of *E. incolorata* and *E. tatricola* are designated. *Endonura szeptyckii* (Weiner, 1973) is synonymized with *E. tatricola*. Data of occurrence, ecological preferences, variability and morphology of the first instar of the species are provided. New morphological characters with associated nomenclature are proposed.

Key words: *Endonura dudichi, E. incolorata, E. lusatica, E. tatricola*, taxonomy, syn. nov., comb. nov., springtails, first instar

Introduction

Cassagnau (1979) established the subgenus *Endonura* in the genus *Neanura* MacGilliwray, 1893 and designated *Achorutes tetrophtalmus* Stach, 1929 from Hungary as its type species. Later, in 1982, Deharveng raised *Endonura* to generic status. At present the genus is one of the largest within the subfamily Neanurinae and contains 34 species (Dallai 1983, Pomorski & Skarżyński 2000, Pozo & Simón 1982, Smolis & Kaprus' 2003, Smolis 2006, Smolis *et al*. 2007). Most members of *Endonura* have a European distribution and only a few species occur in the Near East, Asia Minor, Caucasus, Siberia and Alaska. Unfortunately, our knowledge on the morphology and distribution of many species of this large genus is still poor, incomplete and far from satisfactory.

During intensive field studies (1999–2002) in Poland, Ukraine and Slovakia a reach material of five species and subspecies described earlier as: *Biloba tetrophtalma tatricola* Stach, 1951, *Neanura dudichi* Loksa, 1967, *Biloba incolorata* Stach, 1951, *Neanura tetrophtalma lusatica* Dunger, 1966, *Neanurella szeptyckii* Weiner, 1973 was collected. A detailed examination of the mentioned material and types allowed to establish their taxonomic status and redescribe them using a set of modern characters. Additionaly, it convinced me that the diagnosis of the genus *Endonura* should be redefined. Moreover, data of a occurrence, ecological preferences, variability and morphology of the first instar of the mentioned species, and the description of new morphological characters are provided.

Morphological remarks

Beside the features presently used in Neanurinae systematics (Deharveng 1983), the following new characters

Accepted by W.M. Weiner: 3 Jun. 2008; published: 27 Aug. 2008