



## Two new species of tribe Thalassaphorurini Pomorski, 1998 (Collembola: Onychiuridae) from Northeast China

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### Abstract

Two new species, *Sensillonychiurus changchunensis* **sp. nov.** and *Thalassaphorura macrospinata* **sp. nov.**, from the tribe Thalassaphorurini are described from Northeast China. *S. changchunensis* **sp. nov.** belongs to the group of species without AS and differs from all of them by having 5 papillae in AIIIIO and more chaetae on Th.I. The number of dorsal S-chaetae, number of guard chaetae in AIIIIO, position of ms on Ant. IV and relative length of unguiculus are also useful for identification of these species. *T. macrospinata* **sp. nov.** belongs to the group with pseudocellar formulae as 32/233/33343 dorsally and 11/000/01120 ventrally, but it can be easily recognized by the combined characters as almost cylindrical shape of body, only one sublobal hairs on maxillary palp, inner basal lamella on unguiculus absent, one axial chaeta m0 on Abd. VI tergum and presence of male organ on ventral tube.

**Key words:** *Sensillonychiurus changchunensis* **sp. nov.**, *Thalassaphorura macrospinata* **sp. nov.**, taxonomy

### Introduction

The tribe Thalassaphorurini was established by Pomorski (1998), characterized by the structure of furcal rudiment as a finely granulated area with four small chaetae in two rows posteriorly and S-chaetae on Ant. IV and body usually well marked. Babenko *et al.* (2011) revised all the related genera of Thalassaphorurini and given a generic classification consisting of seven genera, pointing that the scopes of some genera might be changed in the future.

Two new species of the tribe Thalassaphorurini discovered in Northeast China, *Sensillonychiurus changchunensis* **sp. nov.** and *Thalassaphorura macrospinata* **sp. nov.**, are described here.

### Material and methods

Specimens were mounted in Marc André II solution, after clearing in lactic acid, and were studied using a Nikon Eclipse 80i microscope. Material is deposited in the Key laboratory of Wetland Ecology and Environment, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, Changchun.

### Abbreviations used in descriptions

Labial papillae types are named after Fjellberg 1999. Labium areas and chaetal nomenclature follow Massoud 1967 and D'Haese 2003. Chaetae on anal valves are named after Yoshii, 1996.

AIIIIO—sensorial organ of Ant. III, Ant.—antennal segments, PAO—postantennal organ, Th.—thoracic segments, Abd.—abdominal segments, S-chaeta—sensory chaeta, Sp—posterior S-chaeta (e.g. on Abd. V or on head), ms—microchaeta, pso—pseudocellus, a-pso—postero-internal pso on head, psx—parapseudocellus, psp—pseudopore, AS—anal spines, x—axial pseudopore of Abd. IV.