Copyright © 2007 · Magnolia Press



## *Psyllaphorura jiangsuensis* sp. nov. from China (Collembola: Onychiuridae)

HAIJUAN YAN<sup>1</sup>, CHENG HUANG<sup>2</sup> & JIAN-XIU CHEN<sup>3,4</sup>

Department of Biology, Nanjing University, Nanjing 210093, China. E-mail: <sup>1</sup>yanhaijuan@gmail.com; <sup>2</sup>huangcheng2008@sina.com, <sup>3</sup>chenjx@nju.edu.cn <sup>4</sup>Corresponding author

## Abstract

The genus *Psyllaphorura* is reported from China for the first time. A new species, *Psyllaphorura jiangsuensis* **sp. n.** as the eighth species of the genus, is described from Nanjing, Southeast China. It is most similar to the Russian species *Psyllaphorura martynovae* (Stebaeva, 1985) in many respects. However, it can be distinguished from the latter by number of vesicles in the postantennal organ, number of setae on ventral tube, length ratio of unguiculus to unguis, absence of unguiculus basal lamella and maximum body length. A key to all of the species of *Psyllaphorura* is provided.

Key words: Collembola, Onychiuridae, Psyllaphorura, new species, key, China

## Introduction

The genus *Psyllaphorura* was established in 1948 by Bagnall for a North American species *Onychiurus obesus* Mills, 1934. The genus is characterized by the dorso-ventrally flattened body, coarsely granulated integument clothed with macrosetae, spine-like mesosetae and microsetae, distal two antennal segments fused into a club, Ant. IV with several short and blunt sensory setae, sensory clubs of Ant. III organ smooth, oblique and reniform with 1–2 ribs, postantennal organ (PAO) with numerous simple to multi-lobed vesicles, cephalic anterior pseudocelli (pso) situated outside the antennal basal areas, the absence of pso on cephalic hind margin and Th. I-Abd. III. Abd. VI very short with 2 short anal spines beset on distinct papillae, furca reduced to two knobs bearing 2–3 setae on each, tenaculum present with 1+1 teeth (Weiner, 1996).

The seven known species of *Psyllaphorura* are: *P. bashkirica* (Khanislamova, 1986) from Russia, *P. martynovae* (Stebaeva, 1985) from Russia, *P. obesa* (Mills, 1934) from USA, *P. okafujii* (Yosii, 1967) from Japan, *P. ryozoyoshii* Weiner & Najt, 2000 from North Korea, *P. sensillifera* (Martynova, 1981) from Russia and *P. uenoi* (Yosii, 1954) from Japan. During the study of the specimens collected from Nanjing in 1994 and 2005, a new species of *Psyllaphorura*, was found. The key to the species of the genus is given below.

## Key to the species of Psyllaphorura Bagnall, 1948

1.	Th. II without pso	2
-	Th. II with 1+1 pso	obesa
2.	Head with 2+2 anterior pso	
-	Head with 5+5 anterior pso	bashkirica
3.	Abd. IV with 1+1 pso	4
-	Abd. IV with 2+2 pso	