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Review of the genus *Onychiurus* Gervais, 1841 (Collembola: Onychiuridae) with description of a new cave species from Southern Spain

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Abstract

A new species of the genus *Onychiurus* is described from Málaga caves (Southern Spain). *Onychiurus gevi* **sp. nov.** is characterized by the peculiar distribution of dorsal (32/033/44433) and ventral (11/000/0101) pseudocelli that allow to distinguish it from the other congeneric species. A key of the world species of *Onychiurus* is provided.

Key words: taxonomy, chaetotaxy, checklist, identification key

Introduction

The genus *Onychiurus* was erected by Gervais in 1841 with type species *Podura ambulans* Linnaeus, 1758. Later, Weiner (1996) and Pomorski (1996, 1998b) reestablished the genus *Onychiurus* in the narrow sense and now it appears as a genus characterized by a postantennal organ made of a variable number of compound vesicles, the presence of the chaeta d0 on head, antennal III sense organ with four or five papillae and two smooth or ribbed sensory clubs, male ventral organ present or absent, posterior pseudocelli on the head present, furca reduced to a small area of fine granulation with 2+2 posterior setulae arranged in a row, the presence of anal spines and the tibiotarsus with 7 or 9 chaetae in the distal whorl.

Five species of *Onychiurus* both from caves and open habitats have been recorded from Iberian Peninsula and I am adding a new cave species (Table 1).

TABLE 1. Iberian species of *Onychiurus*. References: (1) Jordana *et al.* 1997, (2) Gama *et al.* 1998; habitat: C (caves), O (open habitats).

Onychiurus species	References	Habitats in Iberian Peninsula ¹	Distribution in Iberian Peninsula (Provinces)	General distribution
<i>circulans</i> Gisin, 1952	(1)	O, C	Spain: Lérida, Alicante	European
<i>confugiens</i> Gama, 1962	(1)	C	Portugal: Santarem	Iberian endemism
<i>gevi</i> sp. nov.	Present work	C	Spain: Málaga	Iberian endemism
<i>insinuans</i> Gisin, 1952	(1), (2)	O, C	Spain: Girona Portugal: Algarve, Serra de Monchique	Mediterranean
<i>penetrans</i> Gisin, 1952	(2)	O	Portugal: Algarve, Serra de Monchique	Mediterranean
<i>rectospinatus</i> Stach, 1922	(1)	C	Spain: Huesca	European

The identification and description of the new species have required the study of all published data on *Onychiurus*, implying a review of this genus. According to the database of Collembola of the World (Bellinger *et al.* 1996–2012) the genus *Onychiurus* includes 46 species, to which must be added two recently described species