



<http://dx.doi.org/10.11646/zootaxa.3694.2.8>

<http://zoobank.org/urn:lsid:zoobank.org:pub:59C9143D-FB0F-4129-AA38-F0A444C1E72D>

First species of the family Bogidiellidae Hertzog, 1936 (Crustacea: Amphipoda) in Chilean groundwaters: *Patagongidiella wefkoi* n. sp.

JORGE PÉREZ-SCHULTHEISS^{1,2}

¹Departamento de Sistemática Animal, Centro de Estudios en Biodiversidad (CEBCh), Magallanes 1979, Osorno, Chile

²Laboratorio Ambiental Linnaeus Ltda., Inés Gallardo 2129, Pelluco, Puerto Montt. E-mail: jperezsch@gmail.com

Abstract

The first Chilean species of Bogidiellid amphipod, *Patagongidiella wefkoi* n. sp., is described from freshwater springs in the Osorno Province, Los Lagos Region. The new taxon is characterized principally by the structure of the hypertrophied facial robust seta present on the peduncle of male uropod 1, and the modified dimorphic setae on the exopod of male pleopod 2. The new species is described and illustrated and its morphological relationships with the other species of this group are discussed.

Key words: Bogidiellidae, *Patagongidiella wefkoi* n. sp., groundwater amphipod, Osorno, Chile

Resumen

Se describe la primera especie chilena de anfípodo Bogidiéllido, *Patagongidiella wefkoi* n. sp., de manantiales de agua dulce en la provincia de Osorno, Región de Los Lagos. El nuevo taxón se caracteriza principalmente por la estructura de la seta robusta facial hipertrofiada en el pedúnculo del urópodo 1 del macho y las setas modificadas dimórficas del exopodito del pleópodo 2 del macho. Se describe e ilustra completamente la especie y se discuten sus relaciones morfológicas con las especies previamente conocidas de este grupo.

Palabras clave: Bogidiellidae, *Patagongidiella wefkoi* n. sp., anfípodo aguas subterráneas, Osorno, Chile

Introduction

The stygobiontic family Bogidiellidae is diverse in South American groundwaters (Koenemann & Holsinger 1999), especially in Argentina, where several genera and species have been described (Grosso 1988, Grosso & Claps 1984, 1985, Grosso & Fernández 1985, 1993, Grosso & Ringuelet 1979). In contrast, the presence of this family in Chile had not been confirmed yet, in spite of the remarkable advance in the knowledge of freshwater Senticaudatan amphipods attained in recent years (González 2003; Grosso & Peralta 2009; Pérez-Schultheiss 2013).

The first mention of a Bogidiellid amphipod in Chile was by Noodt (1965) which, with some reservations, attributed to the genus *Bogidiella* specimens collected at Río Choapa and near Illapel in the Region Coquimbo (Noodt 1965: 25). After this work nothing else has been published about this group in the country.

In this paper, I confirm the presence of the groundwater Senticaudatan family Bogidiellidae in Chile. The new species *Patagongidiella wefkoi* n. sp. is described from the outlet of small springs in the Middle Depression of Osorno Province, in the south of the country. The new taxon is illustrated and its morphological relationships with related species are discussed.