



## A new species of *Psammisotoma* Greenslade and Deharveng (Collembola: Isotomidae) from Brazil

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### Abstract

A new species *Psammisotoma restingae*, from Maricá city, State of Rio de Janeiro, Brazil is described and illustrated. The new species is similar to *P. kingae* Greenslade and Deharveng, 1996, but differs in the outer labial process, tergal sensillary pattern and claw.

**Key words:** Anurophorinae, *Psammisotoma restingae* sp. nov., marine littoral ecosystem, taxonomy

### Introduction

The genus *Psammisotoma* Greenslade and Deharveng, restricted to marine littoral habitats, until now has consisted of four species, *Psammisotoma kingae* Greenslade and Deharveng, 1986 from Australia, New Guinea, Indonesia, New Caledonia, Senegal and Madagascar (Thibaud 2008), *P. dispar* Christiansen and Bellingier, 1988 from Florida (USA), *P. mariagalanteae* Thibaud, 1993 from Guadeloupe (Dominican Republic) and *P. galapagoensis* Thibaud, Najt and Jaquemart, 1994, from the Galapagos Islands. The first record of this genus in Brazil was made by Thibaud and Palacios-Vargas (1999), based on only one damaged individual from Grumari beach, Rio de Janeiro city which was not described.

A study of Isotomidae fauna in coastal ecosystems has revealed the presence of a new species of the genus *Psammisotoma*, confirmed their habitat as marine littoral sands and has expanded the species range to include another “restinga”, 70 km distant from Grumari.

The external morphology of *Psammisotoma restingae* sp. nov. described and illustrated here is based on specimens collected in halophilic psammophilic vegetation from Restinga de Maricá, Maricá city. We also describe here morphological aspects of the juvenile forms of the new species from the same locality.

**List of abbreviations.** **accp:** accessory p-row sensillum. **al:** anterolateral sensillum. **ant:** antennal. **lam.** lamella. **PAO:** postantennal organ.

### Taxonomy

**Genus diagnosis.** Pigmentation grey-blue. Without tegumentary ornamentation. Plurichaetotic. Abdominal segments separated. Two pairs of unequal trichobothria in the abdominal segment IV. Tenaculum with 4+4 teeth and one setae on corpus. Eyes 3 to 8 in each side of head. Postantennal organ developed and elliptical. Tibiotarsus II with at least one dorsal modified setae. Manubrium with numerous anterior setae. Dens long and crenulated with numerous setae. Mucro small, with 3 teeth.