



Redescription of *Proisotoma ramosi* Arlé, 1959 from Brazil (Collembola: Isotomidae) with designation of the neotype

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Abstract

Proisotoma ramosi Arlé is redescribed based on specimens collected for the first time at National Park of “Serra dos Órgãos”, Teresópolis, State of Rio de Janeiro. This species is easily identified by a set of characters: color white, 2+2 eyes, PAO long and narrow, labral setae pattern 4/554, external lobe of maxilla with bifurcate palp and 3 sublobal setae, sensillar pattern 53/22335 by half tergite, retinaculum with 4+4 teeth and two setae on corpus, manubrium with two anterior-distal setae, dens with 7 posterior and 11 anterior setae, mucro bidentate. Neotype for *P. ramosi* is designated.

Key words: Anurophorinae, Neotropic fauna, new records, taxonomy

Introduction

The genus *Proisotoma* Börner, 1901 has a worldwide distribution with more than 70 described species, some only poorly known. The Neotropical region has 25 species, 7 recorded from Brazil. Two of those species, *P. ramosi* Arlé, 1959 and *P. oliveirae* Deharveng, 1984 were described from Southeast and North Brazilian regions respectively. The species *P. ramosi* was originally described from “Serra da Mantiqueira” at 1.700 meters above sea level, between the States of São Paulo and Minas Gerais (Arlé 1959). Based on specimens collected in Chile, Rapoport and Rubio (1963) briefly reported the dens and tenaculum chaetotaxy. Later it was found in “Serra da Bocaina”, and studied along with other species of *Proisotoma* in a multivariate morphometric analysis (Mendonça & Reis 1991). Litter samples of Atlantic rainforest from the “Serra dos Órgãos” National Park (Teresópolis, State of Rio de Janeiro), collected 1.000 meters above sea level, contains *P. ramosi*. The short original description (Arlé 1959) missed several characters such as chaetotaxy and sensillar pattern. According to Arlé (1959) the type material was deposited in the National Museum, but the material has been searched for in vain. Therefore we redescribe the species and select the neotype from the recent sample.

Proisotoma ramosi Arlé, 1959

(Figs 1–20)

Material. Neotype here designated: female on slide N° 1913 CM/ MNRJ. Brazil, *Rio de Janeiro*: Teresópolis (Parque Nacional da Serra dos Órgãos); 1.000 meters above sea level; 13.X.2008; Correia, M.C.R., coll.

Other material: 16 female specimens on slides N° 1913 CM/ MNRJ. Brazil, *Rio de Janeiro*: Teresópolis (Parque Nacional da Serra dos Órgãos); 1.000 meters above sea level; 13.X.2008; Correia, M.C.R., coll. 5 female specimens on slides N° 200 CM/MNRJ Brazil, *São Paulo*, Parque Nacional da Serra da Bocaina; 22.II.1988; Magnanini, C., coll. and 20 female specimens on slides N° 266 CM/MNRJ. Brazil, *São Paulo*, Parque Nacional da Serra da Bocaina; 17.X.1988; Jesus, S., coll. The material studied is deposited in the Collembola Collection at Museu Nacional/UFRJ.