

<http://dx.doi.org/10.11646/zootaxa.3995.1.17>
<http://zoobank.org/urn:lsid:zoobank.org:pub:37772558-6DAC-451B-9E60-2D60818791BD>

A new species of heterochelous tanaidacean *Tanaissus* (Paratanaoidea: Tanaissidae) from the north-west Iberian Peninsula

PATRICIA ESQUETE^{1,2,*}, MARCOS RUBAL^{2,3,4}, PURI VEIGA^{3,4} & JESUS TRONCOSO^{2,5}

¹ Departamento de Biología & CESAM, Universidad de Aveiro, Campus Universitário de Santiago, 3810–193 Aveiro, Portugal

² Departamento de Ecoloxía e Bioloxía Animal, Universidad de Vigo, Campus de As Lagoas, 36310 Vigo, Spain

³ Department of Biology, Faculty of Sciences, University of Porto, Via Panoramica 36 4150–564 Porto, Portugal

⁴ CIIMAR/CIMAR, Centro Interdisciplinar de Investigação Marinha e Ambiental, Rua dos Bragas, 289, 4050–123, Porto, Portugal

⁵ ECIMAT Estación de Ciencias Marinas de Toralla. Illa de Toralla, E–36331 Coruxo Vigo, Spain

* corresponding author E-mail: pesquete@ua.pt

Abstract

A new species of tanaidomorph, *Tanaissus bambergi*, is described from the north-western region of the Iberian Peninsula. Its most remarkable character is the presence of morphologically different right and left chelae in the males. The species occurs sympatrically with *T. lilljeborgi*, mainly in intertidal and subtidal sediments of medium to muddy sands typical of fully marine and estuarine salinities.

Key words: Paratanaoidea, heterochely, Iberian Peninsula, estuary, NE Atlantic

Introduction

The paratanaoidean genus *Tanaissus* Norman & Scott, 1906 is distributed worldwide, with two representatives in the north-east Atlantic (*Tanaissus lilljeborgi* (Stebbing, 1891) and *Tanaissus danica* (Hansen, 1910)), one in the north-west Atlantic (*Tanaissus psammophilus* (Wallace, 1919)), one in south-east Australia (*Tanaissus giraffa* Błażewicz-Paszkowycz & Bamber, 2012) and one in the eastern Mediterranean Sea, that is, *Tanaissus microthymus* Bird & Bamber, 2009 (in Bamber *et al.* 2009). *Tanaissus* species typically occur in shallow subtidal sandy bottoms, where they can be abundant (Bird 2002).

As in most paratanaoidean species, males of *Tanaissus* are identified mainly by antennular and cheliped features, whereas females are morphologically similar and thus hardly distinguishable. In this paper, a new species of *Tanaissus* from Gelfa (north-west of the Iberian Peninsula) is described and identification keys for both males and females are provided. Autoecological information about this new species of *Tanaissus* is also provided and discussed in relation to the other two species of the genus recorded from the north-east Atlantic.

Materials and Methods

Sampling and processing of samples. On the 25th May 2012, shallow subtidal sediment samples were collected from in front of Gelfa Beach, North Portugal (41°46'24"N; 8°52'30"W) (Fig. 1) using a van Veen grab (0.12 m²). Three different sites were sampled and five replicate grabs were taken at each site, representing a total area of 1.8 m². On the 15th August 2012, intertidal samples were taken in two estuaries from the north of Spain at Foz (43°33'37"N; 7°15'25"W) and Barqueiro (43°44'9"N; 7°42'6"W) (Fig. 1). At each estuary, eight cores (0.01 m²) were collected from the low tidal level, representing a total area of 0.08 m² per estuary. Subtidal and intertidal samples were sieved through a 0.5 mm mesh and fixed in 10% formalin neutralised with borax. Samples were sorted and all collected individuals of *Tanaissus* preserved in ethanol 70% to await further study.