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New water mite species of the genus *Piona* Koch, 1842 (Acari, Hydrachnidia: Pionidae) from Northeastern Russia

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Abstract

Descriptions of two new water mite species, *Piona magadanensis* (male, female, deutonymph), *Piona anadyrensis* (male, female, deutonymph) and one new subspecies *P. interrupta interruptella* (female) from standing waters of the Magadan Province and Chukotka of Russia are presented.

Key words: water mites, Pionidae, *Piona magadanensis, P. anadyrensis, P. interrupta interruptella*, new species, new subspecies, Magadan Province, Chukotka

Introduction

The world fauna of water mites of the genus *Piona* Koch, 1842 currently includes about 200 species and subspecies (K.O. Viets 1987). Over 20 water mite species of the genus *Piona* are presently known for the fauna of Russia (Sokolow 1940; Tuzovskij 1997). Investigations of the water mite fauna of the Magadan Province and Chukotka have yielded two new species and one new subspecies of this genus. The purpose of this paper is to describe the female, male and deutonymph of two new water mite species, i.e., *Piona magadanensis* and *P. anadyrensis*, and the female of a new subspecies *P. interrupta interruptellus* from Asian Russia.

Material and methods

The material was sampled with a common hand net with 250 µm mesh size. Specimens were not fixed in Koenike liquid, but slides were made from the fresh material. All mites were mounted in Hoyer's medium. The type material is deposited in the collection of Institute for Biology of Inland Waters (Borok, Russia).

Idiosomal setae are named according to Tuzovskij (1987): *Fch*—frontales chelicerarum, *Oi*—occipitales internae, *Hv*—humerales ventralia, *Pi*—praeanales internae, *Pe*—praeanales externae.

Furthermore, the following abbreviations are used: P–1–5, pedipalp segments (trochanter, femur, genu, tibia and tarsus); I–Leg. 1–6, first leg, segments 1–6 (trochanter, basifemur, telofemur, genu, tibia and tarsus) i.e. III. Leg–4 = genu of third leg; ac. 1–2, genital acetabula (medial, lateral); L—length; W—width; n = number of specimens measured. The length of appendage segments was measured along their dorsal side; all measurements are given in µm.

Results

Family Pionidae Thor, 1900

Genus *Piona* Koch, 1842

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