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New water mite species (Acari, Hydrachnidia) from Vietnam

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Abstract

Descriptions of four new water mite species, *Torrenticola vietnamica* sp. nov. (female), *Limnesia vietnamensis* sp. nov. (female, deutonymph), *Hygrobates gusakovi* sp. nov. (male), *Albaxona gusevi* sp. nov. (female) from running waters of Vietnam are presented.

Key words: water mites, *Torrenticola vietnamica*, *Limnesia vietnamensis*, *Hygrobates gusakovi*, *Albaxona gusevi*, running waters

Introduction

The water mite fauna of Vietnam is very poorly known. From running waters of Vietnam the following species are described: *Hygrobates forcipifer* Goldschmidt & Koehler, 2007, *H. ancistrophorus* Goldschmidt & Koehler, 2007, *Acucapito vietnamensis* Tuzovskij, 2009 and *Monatractides vietnamensis* Tuzovskij, 2009 (Goldschmidt & Koehler 2007; Tuzovskij 2009a, 2009b respectively). The purpose of this paper is to describe four new species, i.e. *Torrenticola vietnamica* (female), *Limnesia vietnamensis* (female, deutonymph), *Hygrobates gusakovi* (male) and *Albaxona gusevi* (female). Three of these species are recorded as *Hygrobates* sp., *Torrenticola* sp. and Axonopsinae gen. sp. are recorded in Gusakov *et al.* (2011).

Material and methods

The material was collected by Gusev in 2008 and Gusakov in 2012 in running waters of Vietnam. Meiobenthos samples were collected with a microbenthometer S-1, with corer diameter 34 mm (about 9 cm²) (for methods see Gusakov *et al.* 2011). Each sample included three columns of sediment and near-bottom water (5–10 cm each) and was fixed in 4% formalin. In the laboratory the samples were filtered through a sieve with a mesh size of 82×82 µm and stained with Rose Bengal by the known method (Williams & Williams 1974).

Idiosomal setae and lyriform organs are named according to Tuzovskij (1987): *Fch*—frontales chelicerae, *Fp*—frontales pedipalporum, *Vi*—verticales internae, *Ve*—verticales externae, *Oi*—occipitales internae, *Oe*—occipitales externae, *Hi*—humerales internae, *He*—humerales externae, *Hv*—humerales ventralia, *Sci*—scapulares internae, *Sce*—scapulares externae, *Li*—lumbales internae, *Le*—lumbales externae, *Si*—sacrales internae, *Se*—sacrales externae, *Ci*—caudales internae, *Pi*—praeanales internae, *Pe*—praeanales externae; *i₁–i₅*—lyriform organs.

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. 1–3)—genital acetabula 1–3; exp—excretory pore; n = number of specimens measured, L, length, W, width. All measurements are in µm; length of appendage segments is dorsal length.

The type material is deposited in the collection of the Institute for Biology of Inland Waters (Borok, Russia).