



New water mites species (Acariformes: Hydrachnidia) from the Far East of Russia

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Abstract

Illustrated descriptions of five water mite species, *Sperchon* (*Hispidosperchon*) *nevelskoi* sp. n., *Teutonia* (*Subteutonia*) *minor* sp. n., *Lebertia* (*Mixolebertia*) *sokolowi* sp. n., *Mixobates* *amurensis* sp. n. and *Feltria* (*Feltria*) *orientalis* sp. n., from running and standing waters of the Far East of Russia are presented.

Key words: water mites, Sperchonidae, *Sperchon*, Teutoniidae, *Teutonia*, Lebertiidae, *Lebertia*, Hygrobatidae, *Mixobates*, Feltriidae, *Feltria*, new species, Far East of Russia

Introduction

Planned investigations of the Russian Far East fauna of water mites were initiated by Sokolow in the 1930s. In the result of his investigations 114 species were reported for the fauna of this region (Sokolow 1940, 1950). Due to further investigations of Wainstein (1981a, 1981b), Tuzovskij (1988, 1990, 1997, 2008), Semenchenko (2008a, 2008b) and Tuzovskij & Semenchenko (2009) the list of water mites species increased to 219 species and 7 subspecies. Up to date one third of the recorded species are known only from the Russian Far East. Dealing with future research of the water mite fauna of the Russian Far East we describe five new species below.

Material and methods

The material was sampled with a common hand net with 250 µm mesh size and bottom grabber (0.25 x 0.25 m²) with V.Y. Levanidov's modification (Tiunova 2003).

Specimens were preserved in modified Koenike's solution and mounted on slides using Hoyer's medium and glycerine jelly. The following descriptions are based on the type series, deposited in the research collections of the Institute for Biology of Inland Waters, Borok, Russia (IBIW) and the Institute of Biology and Soil Science, Vladivostok, Russia (IBSS).

Idiosomal setae and lyriform organs terminology follows 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