



New water mites species of the genus *Feltria* Koenike (Acariformes, Feltriidae) from the Asian Russia

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Abstract

Illustrated descriptions of two water mite species, *Feltria (Feltria) aculeata* **sp. n.**, *Feltria (Feltria) ussuriensis* **sp. n.**, and one new subspecies, *Feltria (Feltria) cornuta rossica* **ssp. n.**, from running waters of the Asian Russia are presented.

Key words: water mites, Feltriidae, *Feltria*, new species, the Asian Russia

Introduction

At present 17 water mite species of the genus *Feltria* are known for the fauna of Russia (Sokolow 1940; Tuzovskij 1983, 1987, 1988, 1990, 1998, 1999, 2002). All species were recorded in the Asian part of Russia and only three species (*Feltria minuta* Koenike, 1892, *F. rubra* Piersig, 1898 and *F. tsemberae* Tuzovskij, 1999) were found in the European part of Russia. Investigations of the water mite fauna of the Russian Far East and Siberia provided two new species and one subspecies of this genus, described below.

Material and methods

The material was sampled with three different sampling devices: common hand net with 250 µm mesh size, dredge with E.I. Shornikov's modification (Shornikov 2007) 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 internae, *Se*—sacrales externae, *Ci*—caudales internae, *Pi*—praeanales internae, *Pe*—praeanales externae; *i*₁—*i*₅—lyriform organs.

Furthermore, the following abbreviations are used: P 1–5, pedipalp segments (trochanter, femur, genu, tibia and tarsus) i.e. P3 = genu; I–L1–6, first leg, segments 1–6 (trochanter, basifemur, telofemur, genu, tibia