



Two new species of *Parameletus* Bengtsson, 1908 (Ephemeroptera: Siphonuridae), and notes on other species from the Far East of Russia

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Abstract

Two new species of *Parameletus* are described, increasing the number of species known from Far East of Russia to four: *P. chelififer* Bengtsson 1908, *P. minor* (Bengtsson 1909), and the new species *P. ensiformis* and *P. arcuatus*. Both new species are known from male imagines. *P. minor* is first recorded for the Southern Far East. Illustrations and a key for the male imagines of the known species of *Parameletus* from Russian Far East are provided. Distributional data are presented.

Key words: Ephemeroptera, Siphonuridae, *Parameletus*, systematics, Far East, Russia, taxonomy

Introduction

Parameletus Bengtsson is a small Holarctic genus with five described species (McCafferty 1996). Three of them, *Parameletus columbiae* McDunnough 1938, *P. croesus* (McDunnough 1923) and *P. midas* (McDunnough 1923), inhabit North America. *Parameletus minor* (Bengtsson 1909) occupies water-currents in North Europe (Söderström & Nilsson 1986, Tshernova *et al.* 1986, Kluge 1997). *Parameletus chelififer* Bengtsson 1908 has the most extensive trans-Holarctic distributional covering Europe, Siberia, Russian Far East and North America (McCafferty 1996, Söderström & Nilsson 1986, Tiunova, 1986, Tshernova *et al.* 1986, Kluge 1997).

Until now, understanding of the distribution of *Parameletus minor* on the Far East of Russia was not clear. So in works by Tshernova *et al.* (1986) and Tiunova (1986) this species was reported questionably for the territory of Kamchatka peninsula. At the same time in Kluge's work (1997) on distribution of *P. minor*, only north of Europe is indicated. Our investigations on the mayfly fauna have shown that *P. minor* is widely distributed on the Far East of Russia (Tiunova 2007).

Two new species, *Parameletus ensiformis* **sp. n.** and *Parameletus arcuatus* **sp. n.**, are described based on male imagines. Specimens are preserved in 75% ethanol. The holotypes are deposited in the collection of the Institute of Biology and Soil Sciences, Far Eastern Branch, Russian Academy of Sciences, Vladivostok.

Parameletus ensiformis **sp. nov.**

(Figs. 1–7)

= *Parameletus*/fg2 sp.S3: Kluge 2004: 79

Material examined. Holotype. RUSSIA. Khabarovskiy Kray: Bikin River, 50 m lower motor-car bridge, line Vladivostok-Khabarovsk, 16.VI 2005, T Tiunova, 1 male imago.