



The genus *Paduniella* (Trichoptera: Psychomyiidae) in Japan

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Abstract

The Japanese *Paduniella* Ulmer species are reviewed with descriptions of 3 new species. *Paduniella communis* Li & Morse and *P. uralensis* Martynov are recorded from Japan for the first time and redescribed. Records of *P. amurensis* Martynov from Japan are based on misidentification. Illustrations of male genitalia are provided for each species.

Key words: Trichoptera, Psychomyiidae, *Paduniella*, new species, taxonomy, male genitalia, Japan

Introduction

Species of the genus *Paduniella* Ulmer are small caddisflies in the family Psychomyiidae, widely distributed in the northern hemisphere and the Afrotropical Region. Previously, *P. amurensis* Martynov was the only species of *Paduniella* reported in Japan, recorded from central Honshu (Tanida 1999, Nishimoto & Morita 2001). However, careful examination of the male genitalia of a series of *Paduniella* collections from Japan has revealed that 5 species of *Paduniella* occur in Japan. *Paduniella uralensis* Martynov and *P. communis* Li & Morse are recorded from Japan for the first time, and 3 previously undescribed species are recognized. One of the new species is very similar to *P. communis* and the other 2 to *P. amurensis* and *P. paramurensis* Li & Morse. Examination of specimens from Lake Biwa, where Tanida (1999) recorded *P. amurensis* and Nishimoto and Morita (2001) and Nozaki and Nakamura (2005) identified *P. amurensis*, indicates those records are in error and *P. amurensis* should be removed from the faunal list of Japan.

In this paper male genitalia are illustrated and described for all 5 species. I have many series of associated females but have not included them because further examination of internal genitalic characters is needed for species discrimination.

Morphological terminology follows that of Li and Morse (1997). Material is deposited in the Lake Biwa Museum, Shiga (LBM), and the author's personal collection (HN). All material is preserved in alcohol.

Paduniella communis Li & Morse, 1997 (Figs 1–2)

Paduniella communis Li & Morse 1997: 282.

Paduniella sp.: Tanida 1997: 446 (in part).