



Vietnamese species of *Stenopsyche* McLachlan (Trichoptera: Stenopsychidae)

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Abstract

Larvae of the net-spinning caddisfly *Stenopsyche* McLachlan are very common in Vietnamese streams. Six species of *Stenopsyche* have previously been recorded from Vietnam. Based on comprehensive field studies throughout Vietnam between 2001 and 2003, the following species of *Stenopsyche* were recognized from the country: *S. angustata* Martynov 1930 (new Vietnamese record: male, female, and larva), *S. dakpri* **sp. nov.** (male, female, and larva), *S. siamensis* Martynov 1931 (new Vietnamese record: male, female, and larva), *S. ulmeri* Navás 1932 (male, female, and larva), and two additional larval forms (*Stenopsyche* sp. 1 and *Stenopsyche* sp. 2). *Stenopsyche coomani* Navás 1932, *S. fissa* Navás 1932, and *S. vicina* Navás 1932 are designated as *nomina dubia*. The new species and the newly discovered stages (female and larva of *S. angustata* Martynov and *S. ulmeri* Navás and larva of *Stenopsyche* sp. 1 and *Stenopsyche* sp. 2) are described and figured. Diagnoses, taxonomic remarks, and keys to males and larvae of all known Vietnamese *Stenopsyche* species are provided.

Key words: Stenopsychidae, *Stenopsyche*, *Stenopsyche dakpri*, net-spinning caddisflies, taxonomy, Vietnam

Introduction

Larvae of Stenopsychidae are the largest in body size (length 30–52 mm) among net-spinning caddisflies, and they constitute a major component of the benthic macroinvertebrate fauna in tropical Asian streams. The family comprises more than 94 species in the genera *Stenopsyche* McLachlan, *Stenopsychodes* Ulmer, and *Pseudostenopsyche* Doehler (Schmid 1969, Weaver 1987, Tian 1988). The genus *Stenopsyche* contains over 81 species and is distributed in the Oriental and East Palaearctic Regions, while *Stenopsychodes* and *Pseudostenopsyche* are limited to the Australian Region and the Chilean Subregion of Neotropical Region, respectively. In the Oriental Region, more than 64 species of *Stenopsyche* are known, but only nine of them are distributed in Southeast Asia.

Six species of *Stenopsyche* were described from Vietnam by Navás (1930, 1932): *S. coomani* Navás 1932, *S. fissa* Navás 1932, *S. hamata* Navás 1930, *S. ulmeri* Navás 1932, *S. uncinata* Navás 1930, and *S. vicina* Navás 1932. Mey (1995) also reported *S. ulmeri* Navás and *S. uncinata* Navás from Vietnam.

In this paper, we report six species of *Stenopsyche* including one new species, two new Vietnamese records, and two additional larval forms.

Material and Methods

Adult and larval caddisflies were collected throughout Vietnam between 2001 and 2003. Some adults were associated with larvae based on larval sclerites left in the posterior part of the pupal cocoon. All material is