A contribution to the Heptageniidae (Insecta, Ephemeroptera) of Thailand and Malaysia

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Abstract

A brief survey of Heptageniidae (Ephemeroptera) from Thailand and Malaysia is presented. New for science are Afronurus namnaoensis sp. nov., Compsoneuria langensis sp. nov., Epeorus inthanonensis sp. nov., Epeorus (Belovius) khayengensis sp. nov. and Epeorus nguyenbaorum sp. nov., from Thailand and Compsoneuria perakensis sp. nov. from Malaysia; the new species originate from rivers and streams in the north of Thailand and from some streams in peninsular Malaysia. For the first time, the male of Asionurus primus Braasch & Soldán, 1986 is described and a larva of supposed Iron longitibius Nguyen & Bae, 2004 is illustrated from Thailand. Compsoneuria (Siamoneuria) kovaci Braasch, 2006 was originally not adequately placed in Compsoneuria Eaton, 1881. Its true affiliation remains unclear. Supposed Epeorus hieroglyphicus Braasch & Soldán, 1984, redescribed by Nguyen and Bae (2004), is renamed to Epeorus nguyenbaorum sp. nov. Two new findings of Heptageniidae are reported from Thailand: Epeorus bifurcatus Braasch & Soldán, 1979 and Iron martinus Braasch & Soldán, 1984. Rhithrogeniella ornata Ulmer, 1939 is recorded from Malaysia for the first time.

Key words: Thailand, Peninsula Malaysia, Heptageniidae, taxonomy, distribution, new records, new species

Introduction


Herein, we treat further material mostly originating from the northern and northeastern Thailand and a smaller number of Heptageniidae from mainland Malaysia. Ephemeroptera from the latter country were provided by Bishop (1973) having investigated the limnology of the small Gomph River. Thalerosphyrus Eaton, 1881 (sp. A, B + C), Epeorus Eaton, 1881 sp. A and Compsoneuria (sub nomine Compsoneuriella Ulmer, 1939) are cited among the Heptageniidae. Braasch and Soldán (1986b) checked the Heptageniidae from the former Bishop mayfly collections, made available by W.L. and J.G. Peters (Florida A & M University), Tallahassee, USA, and recorded Epeorus hieroglyphicus (Braasch & Soldán 1984), Asionurus petersi, Compsoneuria flowersi and Thalerosphyrus bishopi (Braasch & Soldán 1986a,b).

The aim of the present paper is to improve the knowledge of Heptageniidae from Thailand and Malaysia by describing new species and/or unknown stages, and providing comments regarding previously known species and new country records.