



First female and new species of *Phaenicoceus* (Hemiptera: Heteroptera: Enicocephalidae) from Sabah and a key to genera of Enicocephalidae without forewing basal cell

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Abstract

A new species of Enicocephalidae: Enicocephalinae, *Phaenicoceus granulatus* sp. n. (based on a female), is described from Sabah and compared with the other three species of the genus (based on males). Autapomorphies of the genus (particularly reduced armature of fore tibia and tarsus, interrupted posterior claval vein AA3+4, striking occurrence of large setigerous tubercles - the latter shared with Australian *Usingeriella*) are stressed and partly discussed. A new key to genera of Enicocephalidae with forewing basal cell absent and closed discal cell present is provided.

Key words: Insecta, Hemiptera, Heteroptera, Enicocephalidae, taxonomy, Malaysia, Sabah, generic key

Introduction

Recently, we have described a new genus of Enicocephalidae: Enicocephalinae, *Phaenicoceus* Štys & Baňář, 2009, with three new species, all from Sabah (Malaysia, Borneo) and all based on males. We have mentioned co-occurrence of one of the *Phaenicoceus* species with a single individual of a female belonging to a new genus and new species. This species has a general facies strongly resembling that of *Usingeriella* Wygodzinsky, 1951, known from Australia only. Under a close examination we have found out that the female concerned is the first female of *Phaenicoceus* and that in spite of a pronounced sexual dimorphism of the genus it is not conspecific with any of its species described. Its description is provided in the present paper including also a tabular review of diagnostic characters of all the four *Phaenicoceus* species.

Phaenicoceus belongs to a heterogeneous group of enicocephaline genera characterized by absence of basal cell and presence of closed discal cell in the forewing. Based on Štys (2002) key to the genera of Enicocephalomorpha we present a new and greatly modified key to genera of this group and provide new information particularly on *Usingeriella* and *Nesenicocephalus* Usinger, 1939.

Material and methods

The study is based on the examination of a single specimen, originally preserved in alcohol (description of forewing venation made at this stage), for sake of taking SEM photographs now dry-mounted. The label data are cited verbatim, using a slash (/) to separate rows on the label. Photographs of legs were made by SEM, colour photographs by digital camera. The material was borrowed for study from the Museum of Natural History, Geneva. All measurements are given in millimeters.