



## New genus of Enicocephalinae (Hemiptera: Heteroptera: Enicocephalomorpha) from Sabah based on three new species

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### Abstract

A new genus and three new species of Hemiptera: Heteroptera: Enicocephalomorpha: Enicocephalidae: Enicocephalinae are described from Malaysia: Sabah, viz. *Phaenicocleus* **n. gen. sabahensis** **n. sp.** (type species), *P. schwendingeri* **n. sp.** and *P. minor* **n. sp.** (all species male-based). The new genus is macropterous and belongs to that group of Enicocephalinae characterized by presence of large, closed discal cell and absence of basal cell in forewing. The species are distinct in the character states of the median of pronotum, shape of unpaired sclerite of the pro-eusternum, and shape and length of a median keel of meta-eusternum – these are characters previously unemployed as diagnostic in the Enicocephalidae.

**Key words:** Insecta, Hemiptera, Heteroptera, Enicocephalidae, taxonomy, new genus and species, Malaysia: Sabah, key

### Introduction

Southeastern Asia, particularly its insular part, is extremely rich in genera and species of the Enicocephalomorpha, having the same diversity and level of endemism as in Madagascar, New Zealand, New Caledonia, and Fiji. This generic diversity contrasts with the species diversity and generic paucity of New Guinea and Australia (Štys 2008). Revisions of the endemic SE Asian subfamilies Murphyanellinae (Aenictopecheidae), Phallopiratinae and Megenicocephalinae (both Enicocephalidae) are in preparation (P. Štys & P. Baňář) and will include also recently discovered new genera. In this paper we describe a new genus of Enicocephalidae: Enicocephalinae including three new species from Sabah. The new genus belongs to that group of genera characterized by the presence of a closed discal cell and an absence of basal cell in the forewings. All new species are based on single males; further morphological details concerning pterothorax, wings, abdomen, and terminalia will be discussed further in future studies of the abundant new enicocephaline taxa from Sundaland.

### Material and methods

The study is based on an examination of three specimens. Two of them are preserved in alcohol (*P. schwendingeri* **n. sp.** and *P. minor* **n. sp.**); the third one (*P. sabahensis* **n. sp.**) is cardmounted. The label data are cited verbatim, using a slash (/) to separate rows on the label. Photographs of legs were provided 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 millimetres.