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New *Griphophanes* Grootaert & Meuffels (Diptera, Dolichopodidae, Peloropecodinae) from Southeast Asia

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Abstract

Five species of *Griphophanes* Grootaert & Meuffels are reported from Malaysia. The type species, *Griphophanes gravicaudatus* (Grootaert & Meuffels) originally described from South Thailand is recorded from North Malaysia (Langkawi) as well as from South Malaysia. Three species are described from Endau Rompin National Park: *G. furcatulus* **sp. nov.**, *G. furcatus* **sp. nov.** and *G. obscurus* **sp. nov.** *Griphophanes tiomanensis* **sp. nov.** is described from the island of Pulau Tioman. A key to the species of Southeast Asia is given.

Key words: Diptera, Dolichopodidae, Peloropecodinae, *Griphophanes*, new species, Malaysia

Introduction

Griphophanes Grootaert & Meuffels was originally described as a monotypic genus with *G. gravicaudatus* (Grootaert & Meuffels) as type species. The genus was found in secondary rain forest in South Thailand on moss-covered boulders along a small stream. In the present study it is recorded from similar habitat in North and South Malaysia. Recently Grichanov (2010) found two species of *Griphophanes* in Congo thus showing that the genus has a wider distribution than Southeast Asia. Naglis (in litt.) recently found several new species of *Griphophanes* in Sri Lanka, which emphasizes the link between Central Africa, the Indian subcontinent and Southeast Asia. Remarkable is that *Griphophanes* is currently not known from Singapore despite intensive sampling and that is probably because the typical habitat for *Griphophanes*, moss-grown rocks in and along streambeds, is no longer present in Singapore.

Griphophanes is currently assigned to the subfamily Peloropecodinae, however Lim et al. (2009) showed that this subfamily is polyphyletic and should be revised. At least the genus *Peloropecodes* Wheeler, 1890, type genus of the subfamily, but preferably all other genera in the subfamily should be sequenced.

A three-day intensive search in Endau-Rompin National Park in South Malaysia during the “Workshop on the Freshwater Invertebrate Fauna of the Malaysian Region” in 2001 revealed the presence of 49 species of Dolichopodidae (Grootaert & Meuffels, 2004). Among this rich fauna were three remarkable species of *Griphophanes* that are described here. These species were found in similar conditions; i.e., on moss-covered rocks along a small stream in a primary rain forest. A fifth species was found on the island of Pulau Tioman at about the same latitude as Endau Rompin. All species were found in lowland forests.

Material and methods

The material is conserved at the Royal Belgian Institute of Natural Sciences in Brussels. For each record a register number is given (register number in Database linked to collection data such as locality, date, collector, habitat). The locality of the holotype is considered here as the type locality. In addition, each species sample is given an inventory number (e.g., Tio141), which indicates where the specimens can be found in the wet collection.