



A new species of *Trichopseniini* (Coleoptera, Staphylinidae) found with *Schedorhinotermes* termite (Isoptera, Rhinotermitidae) in Khao Yai National Park, Thailand

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Abstract

Schedolimulus komatsui Kanao & Maruyama, n. sp. (Aleocharinae, Trichopseniini) is described from Khao Yai National Park, East Thailand. This is a new record of Trichopseniini from Thailand. *Phorilimulus* Pasteels & Kistner, 1971 is synonymized with *Schedolimulus* Pasteels & Kistner, 1971, and *Schedolimulus* is redescribed. *Phorilimulus minutus* Pasteels & Kistner, 1971 is transferred to *Schedolimulus*. A key to the species of *Schedolimulus* is given.

Key words: *Schedolimulus*, *Phorilimulus*, Aleocharinae, Trichopseniini, taxonomy, synonymy, termitophily

Introduction

Eighteen species of five genera of rove beetles belonging to the aleocharine tribe Trichopseniini are known to be associated with *Schedorhinotermes* termites (Rhinotermitidae) in Peninsular Malaysia, Borneo, Java, New Guinea and Australia (Kemner 1925; Kistner 1969; Pasteels & Kistner 1971; Bourguignon *et al.* 2007). Two of these genera, *Schedolimulus* and *Phorilimulus*, were described by Pasteels and Kistner (1971) to include each a single species from Sarawak. Since then no additional records of these genera have been published. In 2007, the second author (MM) and his colleagues investigated a fauna of termitophilous insects in Khao Yai National Park, Thailand, and found a new species of Trichopseniini in a nest of *Schedorhinotermes* termites. Our morphological observations revealed that the new species shares diagnostic character states of *Schedolimulus* and *Phorilimulus*, and we concluded that the two names are synonyms. We redescribe *Schedolimulus* and describe the new species, which is the first record of Trichopseniini from Thailand.

Material and methods

The field research was conducted by M. Maruyama, Mr. Yûji Katayama and Dr. Takashi Komatsu in Khao Yai National Park, 30 km northeast of Bangkok, in 2007. A carton nest (about volleyball-sized, Fig. 1) was dug out from soil (30 cm depth), and crushed little by little on a white plastic tray to find symbionts. The beetles were observed and photographed on a fragment of the carton nest. The specimens were collected in 2 ml tubes with 80% ethanol.

The technical procedures used here are generally described as in Maruyama (2006). All measurements are in millimeters.

In the description the number of macrosetae on tergite IX refers to one side of the body.

The termite host was identified by Dr. Yoko Takematsu.

The holotypes and most paratypes of the new species are deposited in the Kyushu University Museum, and some of the paratypes are deposited in the National Park, Wildlife and Plant Conservation Department, Thailand.