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Studies on *Hanguana* (*Commelinales*, *Hanguanaceae*) for Sunda II: Five new forest species from Peninsular Malaysia and recircumscription of *Hanguana malayana*

Abstract

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Field work in Peninsular Malaysia as part of the first author's research into relationships and evolutionary polarity between *Hanguana malayana*, a widespread freshwater helophyte, and the numerous and mostly undescribed Sundaic forest species has to date resulted in the collection of five distinctive novel forest-dwelling *Hanguana* species. These are described here and figured in colour. Increased understanding of these and other forest species of *Hanguana* has enabled a concise delimitation of the taxonomically long-obfuscated colonial helophytic *H. malayana*, and this is here presented, and the species figured. The current taxonomy of *Hanguana* is summarised, and a key to the so-far described Peninsular Malaysian species is provided.

Additional key words: monocots, taxonomy, mesophytes, helophytes

Introduction

Although the taxonomy of *Hanguana* (*Hanguanaceae*) in Sunda remains beset with considerable confusion, field work in Malaysia is beginning to permit better understanding of the many taxonomic novelties and through this gradually establish a stable taxonomic platform from which to begin phylogenetic investigations of the genus *Hanguana* (Nurfazilah & al., in press).

Aside from making a start to bring taxonomic clarity to forest species of *Hanguana*, ongoing field work in Peninsular Malaysia has facilitated correction of several morphological misconceptions, ecological inexactitudes, and taxonomic and nomenclatural problems associated with *Hanguana malayana* (Jack) Merr.

Results

Taxonomy of *Hanguana*

The changes and novel additions proposed in this paper enable the current taxonomy of *Hanguana*, comprising 10 species, to be summarised as follows:

Hanguana Blume, Enum. Pl. Javae: 15. 1827.

Type: *Hanguana kassintu* Blume

= *Susum* Blume ex Roem. & Schult., Syst. Veg. 7(2): 95. 1830. – Type: *Susum anthelminthicum* Blume ex Roem. & Schult.

= *Veratronia* Miq., Fl. Ned. Ind. 3: 553. 1859. – Type: *Veratronia malayana* (Jack) Miq.

References. — Backer 1924: 3, 1951: 248–250; Airy Shaw 1965: 260–261; Rudall & al. 1999: 311–330; Tillich & Sill 1999: 215–238; Dassanayake 2000: 214–215.

1. *Hanguana bakoensis* Siti Nurfaizilah, Sofiman Othman & P. C. Boyce, in press. – Holotype: Malaysia, Sarawak, Bahagian Kuching, Bako N. P., Lintang Trail, 27.5.2007, *Nadiah I.*, *Malcom D.*, *Army K.* & al. S.100599 (SAR!; isotype: KEP, n.v.)

2. *Hanguana bogneri* H.-J. Tillich & E. Sill in Sendtnera 6: 216. 1999. – Holotype: Malaysia, Sarawak, bei der Orang-Utan-Station Semenggoh, *J. Bogner 94/2211*;

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