

WONG SIN YENG¹, PETER C. BOYCE^{2*} & LOW SHOOK LING¹

Studies on *Schismatoglottideae* (Araceae) of Borneo XXIV – Two new species of *Aridarum* from Kalimantan, and notes on the *Aridarum* Burttii Complex

Abstract

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Two taxonomically novel *Aridarum* species, *A. kazuyae* and *A. orientale*, are described from Kalimantan Timur, Indonesian Borneo. They are most similar to *A. burttii* from Sarawak, and together with *A. minimum* from Kalimantan Barat represent a morphotaxon, here called the Burttii Complex, defined by staminate flowers comprised of one stamen with an obliquely excavated expanded connective, hemispherical interstice staminodes, a spathe limb deliquescent acroscopically from its junction with the lower persistent portion and leaf blades with adaxially prominently raised primary lateral veins. Recognition of the new species proposed here takes the genus *Aridarum* to 12 accepted species. A key to all *Aridarum* species is provided, the two new species are illustrated and a comparison plate of the spadices of the four species assigned to the Burttii Complex as well as notes on the defining morphological features of this species group and some brief observations on pollination are given.

Additional key words: aroids, *Aridarum kazuyae*, *Aridarum orientale*, taxonomy, rheophyte, Indonesia

Introduction

Aridarum Ridl., a genus of 10 accepted species of obligate rheophytes endemic on Borneo, was last revised by Bogner & Hay (2000), who recognised eight species, including one novelty, and one distinct but undeterminable species represented by sterile material only. Since then, *A. minimum* H. Okada (2006) was described and, based on new collections, *A. crassum* S. Y. Wong & P. C. Boyce was established (Wong & Boyce 2007) for the indeterminate taxon highlighted by Bogner & Hay (2000). Since 2007, examination of more herbarium material coupled with extensive and continuing fieldwork has revealed further undescribed *Aridarum* species. Two novelties resulting from this fieldwork are here described.

Results and Discussion

Aridarum kazuyae S. Y. Wong, P. C. Boyce & S. L. Low, **sp. nov.**

Holotype: Indonesian Borneo, Kalimantan Timur, Kabupaten Malinau, Kecamatan Malinau Selatan, Sembakung, 80 km SW of Malinau, Tempat Wisata Loreh, 3 km N of Long Loreh village, 3°9'24"N, 116°29'36"E, 3.5.2012, K. Nakamoto AR-3927 (BO!; isotype: SAR!).

Aridarum kazuyae very closely resembles *A. orientale* S. Y. Wong & al. in vegetative appearance but is immediately distinguished by the combination of a long naked sterile interstice separating the pistillate and staminate flower zones, and the concave, verrucate (not convex,

¹ Department of Plant Science & Environmental Ecology, Faculty of Resource Science & Technology, Universiti Malaysia Sarawak, 94300 Kota Samarahan, Sarawak, Malaysia.

² Pusat Pengajian Kajihayat (School of Biological Sciences), Universiti Sains Malaysia, 11800 USM, Pulau Pinang, Malaysia; *e-mail: phymatarum@gmail.com (author for correspondence).