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Studies on Schismatoglottideae (Araceae) of Borneo XXVII – New species of Aridarum, and notes on the Aridarum Rostratum Complex

Abstract


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Two taxonomically novel Aridarum species are described from Kalimantan Barat, Indonesian Borneo: A. hippocrepis P. C. Boyce & S. Y. Wong and A. uncum P. C. Boyce & S. Y. Wong. Together with A. rostratum Bogner & A. Hay (also Kalimantan Barat) these form a morphologically distinct group of unistaminate Aridarum species, here informally dubbed the Aridarum Rostratum Complex, differing from those of the (also unistaminate) Burtii Complex by the inflorescence pendent on an arching to pendent wiry peduncle, by staminate flowers lacking a distally expanded connective, the presence of horseshoe-shaped interstice staminodes that expand laterally post pistillate anthesis and prior to staminate anthesis, by the spathe limb hardly opening at pistillate anthesis and deliquescing acroscopically during staminate anthesis, and by the narrowly campanuliform (not salverform) persistent lower spathe. The Rostratum Complex is further differentiated by leaf blades lacking the adaxially conspicuously raised primary lateral veins that are a characteristic of the Burtii Complex. Recognition of these two new species takes the genus Aridarum to 14 accepted species. An emended species description of A. rostratum is presented and a key to species of the Rostratum Complex is provided. All species are illustrated from living plants, and a comparative plate of the spadices of the three species assigned to the Rostratum Complex is also provided.

Additional key words: Indonesia, Kalimantan Barat, rheophytic, granite, sandstone

Introduction

In proposing the Aridarum Burtii Complex, Wong & al. (2012) called attention to another group of unistaminate Aridarum species centred on A. rostratum Bogner & A. Hay (Bogner & Hay 2000) and appearing to constitute yet another group morphologically distinct to the Burtii Complex. Subsequently, further plants obviously similar to, although clearly differentiated from A. rostratum have come to light such that we now feel justified in describing these as novelties, and proposing a further informal taxonomic group – the Aridarum Rostratum Complex. In addition to describing new species, we have had the opportunity also to examine several living collections of A. rostratum which has enabled a modified and more comprehensive species description than was previously possible from the single known preserved collection.

Results and Discussion

Aridarum hippocrepis P. C. Boyce & S. Y. Wong, sp. nov.

Holotype: Indonesian Borneo, Kalimantan Barat, Kabupaten Sekadau, Kecamatan Nanga Taman, 4 Apr 2012, K. Nakamoto AR-3842 (BO!; isotype: SAR!).

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