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## Studies on *Homalomeneae* (*Araceae*) of Borneo XII – *Homalomena tirtae*, a new species from Kalimantan Timur, Indonesian Borneo, and notes on the *Homalomena Borneensis* Complex

### Abstract

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*Homalomena tirtae* from Mount Sidi, Kalimantan Timur, is described as a species new to science and illustrated from living plants. It is the fourth described species of the *Borneensis* Complex and the first recorded for eastern Borneo. A key to and a comparison plate with the spadices of the four species of the *Borneensis* Complex is provided.

Additional key words: aroids, *Homalomena borneensis*, taxonomy, Mount Sidi, East Kalimantan

### Introduction

Previous papers in this and the related series for Peninsular Malaysia have highlighted the remarkable species diversity of the genus *Homalomena* in the Asian humid tropics, pointing out the overwhelming majority of species has yet to be formally named (Baharuddin & Boyce 2010a, b, 2011; Boyce & Wong 2008, 2009; Boyce & al. 2010a; Hoe & al. 2011a, b; Kurniawan & al. 2011; Ng & al. 2011a, b; Tung & al. 2010; Wong & Boyce 2011; Wong & al. 2011; Zulhazman & al. 2011). It has also been emphasised that such knowledge as exists is based principally on some well-known, but limited areas of the region, notably northern Malaysian Borneo, while at the same time the aroid flora of Sumatera, NE Peninsular Malaysia and critically the greater Indonesian portion of Borneo (Kalimantan) are essentially unknown (Boyce & al. 2010b; Mashhor & al. 2011).

This scarcity of knowledge for such extensive land areas, combined with the often highly localised distribution of many aroids including most *Homalomena* species, im-

plies that fieldwork in areas not previously investigated virtually always results in the discovery of new species. One such species is described here.

### Results and Discussion

*Homalomena tirtae* Asih, A. Kurniawan & P. C. Boyce, **sp. nov.**

Holotype: Indonesia, Kalimantan Timur, Kabupaten Malinau, Kecamatan Malinau Selatan (Loreh), Mt Sidi, 25.11.2005, *I Gede Tirta GT.2105* transferred and cultivated in the Bali Botanic Garden (Kebun Raya Eka Karya Bali), Indonesian Institute of Sciences (LIPI), accession E20051213, preserved 21.6.2012 (THBB; isotype: THBB [alcohol preserved]).

*Homalomena tirtae* differs from all other species of the *Borneensis* Complex by the combination of a green spathe limb and pistils much exceeding the interpistillar staminodes.

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