

Teerawoot Sangnin 2007: Systematic Studies of *Alocasia* (Schott) G. Don and *Colocasia* Schott (Araceae) in Thailand. Master of Science (Forestry), Major Field: Forest Biology, Department of Forest Biology.

Thesis Advisor: Assistant Professor Duangchai Sookchaloem, D.Sc. 109 pages

Systematic studies of Genus *Alocasia* (Schott) G. Don and *Colocasia* Schott were conducted by collecting plant specimens in various ecological habitats from natural forests in Thailand. Morphological characters and ecological habitat were recorded. All specimens were analysed for plant identification, key to species and character description. Ten species of Genus *Alocasia* and four species of *Colocasia* were found as follows, *Alocasia acuminata* Schott, *A. alba* Schott, *A. cucullata* (Lour.) G. Don, *A. hypnosa* J.T. Yin, Y.H. Wang & Z.F. Xu, *A. longiloba* Miq., *A. macrorrhizos* (L.) G. Don, *A. navicularis* (K. Koch & C.D. Bouché) K. Koch & C.D. Bouché, *A. odora* (Lindl.) K. Koch, *A. perakensis* Hemsl. and *Alocasia* sp. Species of *Colocasia* i.e. *Colocasia esculenta* (L.) Schott, *C. fallax* Schott, *C. gigantea* (Blume) Hook.f., and *C. lihengiae* C.L. Long & K.M. Liu. Five species of *Alocasia* and *Colocasia* were found as new records i.e. *Alocasia acuminata* Schott, *A. hypnosa* J.T. Yin, Y.H. Wang & Z.F. Xu, *A. perakensis* Hemsl., *Alocasia* sp. and *Colocasia lihengiae* C.L. Long & K.M. Liu. The unknown species (*Alocasia* sp.) collected from peninsular Thailand was expected to be new, with characteristics of an irregular furrow appendage surface and stripe connate stamens. The expected new species was similar to *A. macrorrhizos* (L.) G. Don. but the latter had the characteristics of an appendage with columns and free stamens.

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