

ARIDAE, A NEW SUBCLASS OF LILIOPSIDA

James L. Reveal

Norton-Brown Herbarium, H. J. Patterson Hall, University of Maryland, College Park, Maryland 20742-5815 U.S.A.

ABSTRACT

The assertion that Acoraceae and Araceae (including Lemnaceae) form a group distinct from Arecaceae requires the establishment of a new subclass, **Aridae**. Its position within Liliopsida (monocots) is between Triurididae and Liliidae. Arecidae is placed adjacent to Commelinidae.

KEY WORDS: Liliopsida, Aridae, nomenclature

On-going phylogenetic studies on Liliopsida (monocots) necessitate some taxonomic realignments. The combined analysis by Chase *et al.* (1995) demonstrates that Arecidae (*sensu* Cronquist 1988) is polyphyletic. The new subclass includes Acoraceae and Araceae (including Lemnaceae).

Aridae Reveal, *subclass et stat. nov.* based on the Latin description associated with a F.G. Bartling (*Ord. Nat. Pl.*: 25, 65. Sep 1830, as Class Aropsida ["Aroideae"]) name.

I accept the following subclasses in Liliopsida Scop., *Fl. Carniol.*: 228. 1760:

- Alismatidae Takht., *Syst. Phylog. Magnolioph.*: 461. 1967. (alismatoids)
- Triurididae Takht. *ex* Reveal, *Novon* 2:235. 1992. (triurids)
- Aridae Reveal, *Phytologia* 81:142. 1997. (arids)
- Liliidae Takht., *Syst. Phylog. Magnolioph.*: 473. 1967. (lilioids)
- Arecidae Takht., *Syst. Phylog. Magnolioph.*: 425. 1967. (arecids)
- Commelinidae Takht., *Syst. Phylog. Magnolioph.*: 514. 1967. (commelinids)
- Zingiberidae Cronquist, *Brittonia* 30:505. 1978. (zingibers)

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BIBLIOGRAPHY

- Chase, M.L., et al. 1995. "Monocot systematics: a combined analysis," pp. 685-709. In: P.J. Rudall, P.J. Cribb, D.F. Cutler, & C.J. Humphries (eds.), *Monocotyledons: Systematics and Evolution*. Kew, England.
- Cronquist, A.J. 1988. *The Evolution and Classification of Flowering Plants*. 2nd. edit. Bronx, New York.



Reveal, James L. 1996. "Aridae, a new subclass of Liliopsida." *Phytologia* 81, 142–143.

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