



New combinations in the genus *Goeppertia* (Marantaceae)

JOÃO MARCELO ALVARENGA BRAGA

Instituto de Pesquisas Jardim Botânico do Rio de Janeiro. Rua Pacheco Leão, 915. 22460-030, Rio de Janeiro, RJ, Brazil.

E-mail: jmabraga@jbrj.gov.br

Abstract

Calathea basiflora, *C. rhizanthoides* and *C. peregrina* were recently described for the Flora of Panama and because the majority of the species of *Calathea* are now placed in *Goeppertia*, the combinations for these species are hereby provided.

Introduction

Calathea Meyer (1818: 6) *s.l.* is known to be paraphyletic in its traditional circumscription (Andersson & Chase 2001, Prince & Kress 2006a, Prince & Kress 2006b), having occurred in several proposed infrageneric classifications, of which those of both Bentham (1883) and Schumann (1902) stand out. The latest revision of the genus, albeit only for Ecuador, was carried out by Kennedy (1988), in which she suggested an informal classification. Here she formed some groups of species with similar morphology and clarified the delimitation of infrageneric taxa of *Calathea s.l.* However, on the basis of molecular phylogeny, Borchsenius *et al.* (2012) recently proposed a redefinition of the generic limits of *Calathea* and resurrected the genus *Goeppertia* Nees (1831: 337) for most species previously treated as *Calathea* (placed in his *Calathea* Clade I; Borchsenius *et al.* 2012). With this new circumscription, *Goeppertia* has become the largest genus of Marantaceae.

In this context and based on Borchsenius *et al.* (2012), Braga (2012) and Albuquerque *et al.* (2013), the transfer of some species recently described by Kennedy (2012a, 2012b) for the *Flora of Panama* is proposed here. These were previously included in *Calathea* sect. *Breviscapus* Bentham (1883: 654), which is synonymous to *Goeppertia*.

Taxonomy treatment

Goeppertia basiflora (H.Kenn.) J.M.A.Braga, *comb. nov.*

Basionym: *Calathea basiflora* Kennedy (2012: 375).

Type:—PANAMA. San Blas: Río Playón Chico, Campamento Nebba Dummat, Filo del Sureste, 200–400 m, 09°14'N, 78°15'W, 10 July 1994, H. Herrera 1661 (holotype PMA, isotypes MO! [image], PMA).

Goeppertia rhizanthoides (H.Kenn.) J.M.A.Braga, *comb. nov.*

Basionym: *Calathea rhizanthoides* Kennedy (2012: 49).

Type:—PANAMA. Panama: km 16 on the road to Cartí (El Llano-Cartí Rd.), wet forest, 350 m, 09°17'50"N, 78°56'35"W, 23 March 1973, H. Kennedy & R.L. Dressler 2908 (holotype PMA, isotypes MEXU, MO! [image], UCR).

Goeppertia peregrina (H.Kenn.) J.M.A.Braga, *comb. nov.*

Basionym: *Calathea peregrina* Kennedy (2012: 51).

Type:—PANAMA. Darien: Masargandi at Río Masargandi, tributary of Río Sucubti, Masargandi, 200 m, 3 February 1977, R.L. Dressler 5600 (holotype MO! [image]).

References

- Albuquerque, E.S.B., Braga, J.M.A. & Vieira, R.C. (2013) Morphological characterisation of silica phytoliths in Neotropical Marantaceae leaves. *Plant Systematics and Evolution* 299: 1659–1670.
<http://dx.doi.org/10.1007/s00606-013-0823-9>
- Andersson, L. & Chase, M.W. (2001) Phylogeny and classification of Marantaceae. *Botanical Journal of the Linnean Society* 135: 275–287.
<http://dx.doi.org/10.1111/j.1095-8339.2001.tb01097.x>
- Bentham, G. (1883) Marantaceae. In: A. Bentham & J.D. Hooker (eds.) *Genera Plantarum* 3(2), Reeve & Co, London, pp. 649–654.
- Borchsenius, F., Suárez, L.S.S. & Prince, M.L. (2012) Molecular phylogeny and redefined generic limits of *Calathea* (Marantaceae). *Systematic Botany* 37: 620–635.
<http://dx.doi.org/10.1600/036364412x648571>
- Braga, J.M.A. (2012) Transfer of the Brazilian species *Calathea dorotheae* to the *Goeppertia* (Marantaceae). *Phytotaxa* 62: 10.
- Kennedy, H. (1988) *Calathea*. In: Harling, G. & Andersson, L. (eds.) *Flora of Ecuador* 32, University of Göteborg, Göteborg; Riksmuseum, Stockholm; Pontificia Universidad Católica del Ecuador, Quito, pp. 14–136.
- Kennedy, H. (2012a) *Calathea rhizanthoides* and *C. peregrina* (Marantaceae), new species endemic to Panama. *Journal of the Botanical Research Institute of Texas* 6: 49–52.
- Kennedy, H. (2012b) *Calathea basiflora* (Marantaceae), a new species endemic to Panama. *Journal of the Botanical Research Institute of Texas* 6: 375–378.
- Meyer, G.F.W. (1818) *Primitiae Florae Essequiboensis adjectis descriptionibus centum circiter stirpium novarum, observationibusque criticis*. Dieterich, Göttingen, 316 pp.
<http://dx.doi.org/10.5962/bhl.title.49397>
- Nees von Esenbeck, C.G.D. (1831) Über die Gattungen *Maranta* und *Thalia*. *Linnaea* 6: 303–431.
- Prince, L.M. & Kress, W.J. (2006a) Phylogeny and biogeography of the prayer plant family: getting to the root problem in Marantaceae. *Aliso* 22: 645–659.
<http://dx.doi.org/10.2307/25065578>
- Prince, L.M. & Kress, W.J. (2006b) Phylogenetic relationships and classification in Marantaceae: insights from plastid DNA sequence data. *Taxon* 55: 281–296.
- Schumann, K. (1902) Marantaceae. In: A. Engler (ed.) *Das Pflanzenreich* 4(48). Engelmann, Leipzig, pp. 1–184.