

## SHORT COMMUNICATION

Lectotypification of three species names of  
Australian *Alpinia* Roxb. (Zingiberaceae)

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Rosemary M. Smith wrote a number of taxonomic and nomenclatural papers concerning Australian *Alpinia* Roxb. species late last century (Smith 1980, 1987, 1990), and lectotypified many of the taxon names. However, three Australian species names remain to be lectotypified. This is accomplished here.

This study is based on an examination of herbarium specimens at the Queensland Herbarium (BRI), as well as high quality images of specimens from BM, E, K and MEL and are indicated as *i.d.v.* (*imago digitalis visa*).

**1. *Alpinia arundelliana*** (F.M.Bailey) K.Schum. in Engler, H.G.A., *Pflanzenr. [Engler]* 20: 318 (1904); *Alpinia caerulea* var. *arundelliana* F.M.Bailey, *Proc. Roy. Soc. Queensland* 11: 18 (1895). **Type citation:** “recently spent ... a few days rambling through the rich semi-tropic vegetation of Eumundi”. **Type:** Queensland. MORETON DISTRICT: Eumundi, November 1894, *F.M. Bailey & J. Simmonds s.n.* (lecto: BRI [AQ0340707] [here designated]; isolecto: K 000928012, *i.d.v.*)

**Notes:** Two specimens of *Alpinia arundelliana* collected before 1895 with the location ‘Eumundi’ have been found, one at BRI and the other at K. The BRI specimen is of somewhat better quality, and is chosen here as the lectotype.

The species epithet honours Edward Henry Arundell (1840–1910), a prominent early citizen of Eumundi, a town in south-eastern Queensland (Anon. 1911).

**2. *Alpinia caerulea*** (R.Br.) Benth., *Fl. Austral.* 6: 265 (1873); *Hellenia caerulea* R.Br., *Prodr. Fl. Nov. Holland.* 308 (1810). **Type citation:** “(T. J!) v. v.”. **Type:** Queensland. PORT CURTIS DISTRICT: Port 2 Shoalwater Bay, Northumberland Islands in subumbrosis, 30 September 1802, *R. Brown s.n.* [*Bennett No. 5605*], (lecto: BM 000990752 [here designated], *i.d.v.*; isolecto: BM 000990751 [excl. piece from Hunter River] *i.d.v.*, E 00149518, E 00149519, E 00149520, E 00149521, E 00149522, E 00149523, all *i.d.v.*).

**Notes:** In Brown’s citation, “T” refers to tropical Australia, while “J” refers to the Port Jackson area of New South Wales (including the Hunter River). Most of Brown’s material of this species is from the Northumberland Islands group off the east coast of Queensland, which contains the Percy Isles. A sheet at BM collected from the Northumberland Islands on 30 September 1802, and bearing both flowers and fruits, is here selected as the lectotype.

Brown’s diary entry for 30 September records that he was ashore on Middle Percy Island. He stated that his party followed a gully with “water almost everywhere, in some places standing in holes, in others in small streamlets over the rocks” (Vallance *et al.* 2001). It is most likely here that the moisture-loving *Alpinia caerulea* was found and collected.

**3. *Alpinia modesta*** F.Muell. ex K.Schum. in H.G.A. Engler (ed.), *Pflanzenr. [Engler]* 20: 318 (1904). **Type citation:** “Nord-Australien: Rockingham-Bay (Dallachy, blühend am 15 Oktober 1867)”. **Type:** Queensland. NORTH KENNEDY DISTRICT: Mackay River, 15 October 1867, *J. Dallachy s.n.* (lecto: MEL

92943 [here designated], *i.d.v.*; islecto: BRI [AQ0336128], K 000928013 *i.d.v.*, MEL 92942 *i.d.v.*).

**Notes:** The protologue for *Alpinia modesta* specified a collection by John Dallachy made on 15 October 1867. A good quality specimen at MEL with these details is here selected as the lectotype; matching specimens at BRI, K, and MEL are considered to be islectotypes.

The Mackay River in northern Queensland, which flows into Rockingham Bay and was visited by Dallachy, was renamed the Tully River in the 1870s (Collinson 1954).

### Acknowledgements

I am grateful to Anna Munro for her very helpful suggestions and corrections.

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Bean, A. R. 2020. "Lectotypification of three species names of Australian *Alpinia* Roxb. (Zingiberaceae)." *Austrobaileya: A Journal of Plant Systematics* 10(4), 663–664. <https://doi.org/10.5962/p.299932>.

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**DOI:** <https://doi.org/10.5962/p.299932>

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