



Prain's *Erycibe* (Convolvulaceae) types

Citation: Ian M. Turner, Anand Kumar (2022) Prain's *Erycibe* (Convolvulaceae) types. *Webbia. Journal of Plant Taxonomy and Geography* 77(1): 169-172. doi: 10.36253/jopt-12014

Received: September 9, 2021

Accepted: October 14, 2021

Published: April 20, 2022

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Data Availability Statement: All relevant data are within the paper and its Supporting Information files.

Competing Interests: The Author(s) declare(s) no conflict of interest.

Editor: Peter C. Boyce

IAN M. TURNER^{1,2,*}, ANAND KUMAR³

¹ *Singapore Botanical Liaison Officer, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AE, UK*

² *Herbarium, Singapore Botanic Gardens, National Parks Board, 1 Cluny Road, Singapore 259569*

³ *Central National Herbarium, Botanical Survey of India, Howrah 711 103, India*

* Corresponding author. E-mail: i.turner@kew.org

Abstract. The typification of 14 species names authored by Prain in *Erycibe* (Convolvulaceae) is reviewed. The species range from Myanmar to Taiwan and New Guinea, with most from the Malay Peninsula. For 12 of the names, lectotypes in CAL were designated by Hoogland without seeing the specimens. Either through failure to find the designated specimen, or location of more than one specimen in the designated herbarium, we make 12 new lectotype designations, nine of which are at the second stage.

Keywords: Asia, *Erycibe*, Hoogland, Prain, typification.

INTRODUCTION

Sir David Prain (1857–1944) was a member of that band of medically trained Scots who made their mark studying the botany of India, and was the only one to become both the Director of the Royal Botanic Garden Calcutta and Director of the Royal Botanic Gardens Kew. Prain published three papers relating to the Convolvulaceae of India and surrounding regions during his period based at the herbarium of the Royal Botanic Garden Calcutta (CAL – now the Central National Herbarium). These included descriptions of a number of new species of the genus *Erycibe* Roxb. Roughly a half century later, Hoogland (1953) reviewed the genus. Despite making it clear that he had not seen the material in CAL, he lectotypified Prain's names to specimens in CAL. Hoogland's choice is reasonable given that Prain made it clear in all the papers that his studies were based on specimens in CAL, but typifying without seeing specimens is problematic if more than one specimen is present, or specimens have been lost. Despite the potential uncertainties no subsequent workers have investigated Prain's *Erycibe* types. Therefore, we decided to look into this.

METHODS

The *Erycibe* material in CAL was searched systematically for Prain's type material. This proved successful and specimens matching the designations

made by Hoogland (1953) were found for the majority of the names. Actually in most cases more than one duplicate specimen was found. This means that a second-step lectotypification is required to designate the type and this is done here. In the few cases where there is only a single specimen in CAL, it might be considered that this represents the holotype of the name. This is unlikely to be so for collections, such as those by King's Collector and H.O. Forbes, that were distributed from CAL to other herbaria. For collections distributed to CAL, such as those by A. Henry and F. Hellwig, Prain probably only saw one specimen in his home institution, but the possibility of his seeing material on visits to BM, K or E cannot be entirely discounted. We therefore maintain Hoogland's approach of considering lectotypification a requirement.

Erycibe aenea Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 63(2): 85. 1894

Type: Peninsular Malaysia, Perak, Gunung G.B., March 1885, *King's Collector 7337* (CAL barcode CAL0000018441, lectotype designated at the first step by Hoogland (1953: 343), and at the second step here; isolectotypes B (barcode B100272283); BM (barcode BM001014546); CAL (barcode CAL0000033893); G (barcode G00227176); K (barcode K000545454, K000545455); L (barcode L0004119); SING (barcode SING0052330).

Notes

Two specimens matching Hoogland's designation were located in CAL. Therefore a second-step lectotypification is made here to choose the better specimen as lectotype.

Erycibe albida Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 63(2): 87. 1894

Type: Peninsular Malaysia, Perak, Gunung Boobo, March 1885, *King's Collector 7373* (CAL barcode CAL0000018479, lectotype designated at the first step by Hoogland (1953: 344), and at the second step here; isolectotypes B (barcode B100272282); BM (barcode BM001014545); CAL (barcode CAL0000033894); G (barcode G00227175); K (barcode K000545463); L (barcode L0004122).

Notes

Two specimens matching Hoogland's designation were located in CAL. Therefore a second-step lectotypi-

fication is made here to choose the better specimen as lectotype.

Erycibe citriniflora Griff., Notul. 4: 284. 1854

Type: Burma, Mergui, W. *Griffith 390* (K barcode K000830563, lectotype selected by Hoogland (1953: 345); possible isolectotypes CAL (barcode CAL0000018474); K (barcode K000830564); P (barcode P00260088).

(=) *Erycibe glomerata* Wall. ex Choisy, Ann. Sci. Nat., Bot. sér. 2, 1: 224. 1834, *nom. illegit.*, non *E. glomerata* Blume (1826). – *Erycibe wallichii* Prain & Hallier f., Bull. Herb. Boissier 5(5): 382. 1897.

Type: Burma, Moalmyn, 26 January 1827, *N. Wallich s.n.* (EIC 1338), G-DC (barcode G00146610), lectotype selected by Hoogland (1953: 345).

Notes

Prain and Hallier in Hallier (1897) realised *Erycibe glomerata* Wall. was a later homonym of *E. glomerata* Blume and proposed *Erycibe wallichii* as a replacement name. Choisy had validated Wallich's *Erycibe glomerata*, so *Erycibe wallichii* Prain & Hallier f. is legitimate, though it has been reduced to a synonym of *E. citriniflora* Griff.

Erycibe festiva Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 63(2): 87. 1894

Type: Peninsular Malaysia, Perak, Larut, August 1884, *King's Collector 6445* (CAL barcode CAL0000018438, lectotype designated at the first step by Hoogland (1953: 347), and at the second step here; isolectotypes B (barcode B100272273); BM (barcode BM001014540), CAL (barcode CAL0000018439, CAL0000033900); G (barcode G00227174); K (barcode K000545457); L (barcode L0004130); P (barcode P00260159); SING (barcode SING0052314).

Notes

Three specimens matching Hoogland's designation were located in CAL. Therefore a second-step lectotypification is made here to choose the best specimen as lectotype.

Erycibe forbesii Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73(1): 15. 1904

Type: Sumatra, Lampongs, 5 August 1880, *H.O. Forbes 1454* (CAL barcode CAL0000018480, lectotype selected by

Hoogland (1953: 347); isolectotypes A (barcode A00054397, A00054398); B (barcode B100272269, B100272270); BM (barcode BM001014539); BRI (barcode BRI-AQ0277125); FI (barcode FI013062); G (barcode G00227179); GH (barcode GH00054399); K (barcode K000830626); L (barcode L0004132, L0867547); P (barcode P00608656, P00608655); SING (barcode SING0052316, SING0052315, SING0052317); US (barcode US00111194).

Notes

A specimen matching Hoogland's designation was located in CAL and is considered to be the lectotype of Prain's name. The duplicate in K was distributed from CAL in 1904, indicating that it was likely Prain saw more than one specimen of Forbes's collection.

Erycibe hellwigii Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 63(2): 84. 1894

Type: New Guinea, Kaiser Wilhelmsland, 2 August 1888, *F. Hellwig 87* (CAL barcode CAL0000018455, lectotype selected by Hoogland (1953: 349), isolectotypes B (barcode B100279256); BM (barcode BM001014535); K (barcode K000830604).

Notes

A specimen matching Hoogland's designation was located in CAL and is considered to be the lectotype of Prain's name.

Erycibe henryi Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73(1): 15. 1904

Type: Formosa (Taiwan), Takow, Ape's Hill, *A. Henry 1884* (CAL barcode CAL0000018478, lectotype selected by Hoogland (1953: 350); isolectotypes A (barcode A00054379); BM (barcode BM001014554); E (barcode E00433746); NY (barcode NY00318953).

Notes

A specimen matching Hoogland's designation was located in CAL and is considered to be the lectotype of Prain's name.

Erycibe leucoxyloides King ex Ridl., J. Straits Branch Roy. Asiat. Soc. 33: 116. 1900

Type: Singapore, Bukit Timah, 1895, *H.N. Ridley 6897* (SING barcode SING0052324, lectotype designated here;

isolectotype K (barcode K000545462).

(=) *Erycibe leucoxyloides* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73(1): 16. 1904, *nom. illegit.*, non *E. leucoxyloides* King ex Ridl. (1900).

Type: Singapore, Bukit Timah, 1895, *H.N. Ridley 6897* (K barcode K000545462, lectotype designated here; isolectotype SING (barcode SING0052324).

Notes

Ridley published this name before Prain. While Ridley's description is very brief – 'A small-leaved climber, flowers white sweet.' It is sufficient to validate the name. As no specimen of *Ridley 6897* referred to by Hoogland (1953) was located in CAL, a duplicate in K is designated lectotype for Prain's name here. As Ridley mentioned Bukit Timah in his protologue, a duplicate in SING is selected as lectotype for Ridley's name.

Erycibe magnifica Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73(1): 18. 1904

Type: Peninsular Malaysia, Perak, Larut, October 1882, *King's Collector 3454* (CAL barcode CAL0000018461, lectotype designated at the first step by Hoogland (1953: 351), and at the second step here; isolectotypes BM (barcode BM001014531); CAL (barcode CAL0000018462, CAL0000033895, CAL0000033896); E (barcode E00433798); K (barcode K000545464); SING (barcode SING0052325).

Notes

Four specimens matching Hoogland's designation were located in CAL. Therefore a second-step lectotypification is made here to choose the best specimen as lectotype.

Erycibe praecipua Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 63(2): 86. 1894

Type: Peninsular Malaysia, Penang, July 1890, *C. Curtis 911* (CAL barcode CAL0000018466, lectotype designated here).

Notes

No specimen matching Hoogland's designation of *Curtis 911*, July 1896, was located in CAL. A new lectotypification is therefore made here to match the details of a good specimen in CAL.

Erycibe rheedei Blume, Bijdr. Fl. Ned. Ind. 16: 1047. 1826, as 'rheedii'.

Type: Java, *C.L. Blume 648* (L barcode L0004156, lectotype designated at the first step by Hoogland (1953: 355), and at the second step here; isolectotypes L (barcode L0004155, L0004157, L0004158).

(=) *Erycibe angulata* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 63(2): 84. 1894

Type: Peninsular Malaysia, Perak, near G. Boo-bo, March 1885, *King's Collector 7379* (CAL barcode CAL0000018446, lectotype designated at the first step by Hoogland (1953: 355) and at the second step here; isolectotypes B (barcode B100279236); BM (barcode BM001014525); CAL (barcode CAL0000018443, CAL0000018444); G (barcode G00227303); K (barcode K000545453); L (barcode L0004154); P (barcode P00260248); SING (barcode SING0052331, SING0052332).

Notes

Three specimens matching Hoogland's designation for *Erycibe angulata* Prain were located in CAL. Therefore a second-step lectotypification is made here to choose the best specimen as lectotype. The name is now considered a synonym of *Erycibe rheedei* Blume. Hoogland proposed a Blume collection in L as lectotype for this name, but there are actually four specimens present, so we designate the best of them as lectotype at the second step here.

Erycibe sapotacea Hallier f. & Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73(1): 16. 1904

Type: Peninsular Malaysia, Penang, Government Hill, *C. Curtis 772* (CAL barcode CAL0000018465, lectotype selected by Hoogland (1953: 355).

Notes

A specimen matching Hoogland's effective designation was located in CAL and is considered to be the lectotype of Prain's name. It seems likely material of this species was sent on loan from CAL to Hoogland as there is a determination slip by him on the sheet labelled 'holotype' which is here confirmed as lectotype.

Erycibe stapfiana Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 63(2): 87. 1894

Type: Peninsular Malaysia, Perak, Larut, March 1883, *King's Collector 4015* (CAL barcode CAL0000018436,

lectotype designated at the first step by Hoogland (1953: 356), and at the second step here; isolectotypes CAL (barcode CAL0000018435, CAL0000033909, CAL0000033910); K (barcode K000545456); SING (barcode SING0052318, SING0052319).

Notes

Four specimens matching Hoogland's designation were located in CAL. Therefore a second-step lectotypification is made here to choose the best specimen as lectotype.

Erycibe strigosa Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65(3): 536. 1896

Type: Peninsular Malaysia, Perak, Thaiping, February 1886, *King's Collector 8461* (CAL barcode CAL0000018457, lectotype designated at the first step by Hoogland (1953: 356), and at the second step here; isolectotypes B (barcode B100279233); BM (barcode BM001014524); CAL (barcode CAL0000018456, CAL0000033904); G (barcode G00227299); K (barcode K000545460); L (barcode L0004161); SING (barcode SING0069590).

Notes

Three specimens matching Hoogland's designation were located in CAL. Therefore a second-step lectotypification is made here to choose the best specimen as lectotype.

ACKNOWLEDGEMENTS

We thank the Director, Botanical Survey of India (BSI), Kolkata, and Head of Office, Central National Herbarium, BSI, for facilitating this research.

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