



Typification of twenty-five names in Indo-Malesian *Claoxylon* (Euphorbiaceae)

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Abstract

Twenty-two names in Indo-Malesian *Claoxylon* A.Juss. have been lectotypified and three names have been neotypified based on the study of protologues, literature and type specimens. These typifications will ensure unambiguous use of these names

Keywords: *Claoxylon*, lectotypification, neotypification, Indo-Malesia.

Introduction

The genus *Claoxylon* A.Juss., comprising about 113 species, is paleotropical in distribution, spread over Africa, Asia, Australia, extending eastwards to Pacific Islands (Susila Rani & Balakrishnan 2012). POWO (2026) cites 118 accepted species. During the course of taxonomic studies on the genus *Claoxylon* in the Indo-Malesian region, the author came across several names which need typification. In the present paper, 25 such names have been typified. Of these, 22 names have been lectotypified while three names, *Claoxylon crassipes* Pax & K.Hoffm., *Claoxylon lutescens* Pax & K.Hoffm. and *Prockia albicans* Blanco, the basionym of *Claoxylon albicans* (Blanco) Merr. have been neotypified. These typifications will ensure correct application of these names and their unambiguous use.

Materials and Methods

The present paper is based on study of the relevant protologues, literature and type materials or their images available at various herbaria. Type materials from the herbaria other than CAL were consulted through online sources including institutional websites, Global Biodiversity Information Facility (GBIF) and JSTOR Global Plants. Status of the accepted names are based on the earlier revisionary works.

Typification

Claoxylon albicans (Blanco) Merr., Sp. Blancoan. 220. 1918. – *Prockia albicans* Blanco, Fl. Filip. 430. 1837.

Neotype (designated here): Philippines, Luzon, Laguna Province, Los Banos, September 1916, *Merrill Species Blancoanae No. 1008* (US00689066, Fig. 1; isoneotypes A02563984, K005047128, L0164254, NY03950650).

Claoxylon elongatum Merr. in Philipp. J. Sci. 1(Suppl. 3): 204. 1906.

Lectotype (designated here): Philippines, Luzon, Laguna Province, Mount Maquiling, 17 March 1906, *E.D. Merrill 5141* (K001094044; isolectotypes L0059813, US00096138).

Notes: The botanical materials of Blanco are not extant (Merrill, 1918). The names published by him got recognition only after Merrill's publication (1918), who transferred the name *Prockia albicans* Blanco (1837) to *Claoxylon*. Merrill (1918: 221) cited a specimen for *Claoxylon albicans*: "Illustrative specimen from Los Banos, Laguna Province, Luzon, September 1916, *comm. F. W. Foxworthy* (Merrill: *Species Blancoanae No. 1008*)." Merrill (1918: 36) wrote: "specimens that to a large degree would take the place of Blanco's 'types' which were never preserved" Thus, the name *P. albicans* should be neotypified based on this collection following Art. 9.8 of the *Madrid Code* (Turland et al., 2025). Duplicates of this collection could be traced at A, K, L, NY and US. Of these, the material at US is chosen here as the neotype of the name following the recommendation by Nicolson & Arculus (2001). *Claoxylon elongatum* Merr., a synonym of *C. albicans* (Merrill, 1918), was described from the Philippines based on a single collection, Merrill 5141. Duplicates of this collection are available at K, L and US. Of these, the specimen at K, agreeing well with the protologue, is designated here as the lectotype of the name.

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Claoxylon affine Zoll. & Moritzi in *Natuur-Geneesk. Arch. Ned.-Indië* 2: 583. 1845. – *Claoxylon graciliflorum* Miq., *Fl. Ned. Ind.* 1(2): 386. 1859, *nom. superfl.*

Lectotype (designated here): Indonesia, Java, 1846, *H.Zollinger* 2290 (G00313921; isoelectotypes fragm. A00045930, A00045931, G00434297, G00434298, P04864936).

Notes: *Claoxylon affine* was described from Java based on a single collection, Zollinger 2290. Duplicates of this collection could be located at A, G and P. Of these, a good flowering material at G is selected here as the lectotype of the name. *Claoxylon graciliflorum* is a homotypic synonym of *C. affine*. The type of this name, available at U, bearing barcode U0104055 bears three detached leaves and one detached inflorescence. No name of the collector, nor any field number is mentioned on this sheet.

Claoxylon arboreum Elmer in *Leaf. Philipp. Bot.* 2: 486. 1908.

Lectotype (designated here): Philippines, Palo, Leyte Province, Leyte, January 1906, *A.D.E. Elmer* 7335 (K001094038; isoelectotypes A00112242, CAL0000023752, NY00017531).

Claoxylon grandifolium Elmer in *Leaf. Philipp. Bot.* 7: 2638. 1915, *nom. illeg. homonym. post.*

Lectotype (designated here): Philippines, Mindanao, Agusan Province, Cabadbaran (Mount Urdaneta), September 1912, *A.D.E. Elmer* 13872 (K001094039; isoelectotypes BISH1001505, HBG516518, L0059921, NY00017534, US00096141).

Claoxylon pedicellare Pax & K.Hoffm. in *Engler, Pflanzenr.* IV. 147. VII (Heft. 63): 114. 1914, *nom. illeg. homonym. post.*

Lectotype (designated here): Philippines, Mindanao, Davao District, Todaya (Mt. Apo), September 1909, *A.D.E. Elmer* 11835 (L0059814; isoelectotypes A00112243, HBG516516). Additional syntype: Philippines, Mindanao, Camp Keithley, Lake Lanao, June 1907, *M.S. Clemens* 1093 (G00434578).

Notes: Only one collection, Elmer 7335 was cited in the protologue of *Claoxylon arboreum*. Four duplicates of this collection could be traced out. Of these, the best flowering specimen at K is selected here as the lectotype. *Claoxylon grandifolium* was also described from the Philippines based on a single collection, Elmer 13872. Six duplicates of this collection could be traced out of which a good duplicate at K is designated here as the lectotype. Next, *Claoxylon pedicellare* was described from the Philippines based on three collections: Clemens 1093, Elmer 7335 and 11835. The original materials of this name at B are not extant. However, duplicates are available in other herbaria. The material, Elmer 7335 is also the type of *C. arboreum*. Hence, a good flowering specimen of Elmer 11835 at L is chosen here as the lectotype of the name.

Claoxylon brachyandrum Pax & K.Hoffm. in *Engler, Pflanzenr.* IV. 147. VII (Heft 63): 115. 1914.

Lectotype (designated here): Philippines, Culion, February 1903, *A.D.E. Elmer* 667 (K001094033).

Notes: The species was described from the Philippines based on two collections, Ramos (field number 1025) and Elmer (field number 667). These materials are not extant at B. A duplicate of the collection by Elmer is available at K which is designated here as the lectotype of the name.

Claoxylon crassipes Pax & K.Hoffm. in *Engler, Pflanzenr.* IV. 147. VII (Heft. 63): 121. 1914.

Neotype (designated here): Philippines, Luzon, May 1925, *M.Ramos & G.Edano* 45280 (NY03950686, Fig. 2; isoneotype P04864960).

Notes: *Claoxylon crassipes* was described from Luzon in Philippines based on two collections of C.B. Robinson, bearing field numbers 9361 and 9396. These specimens are not extant at B (where Pax & K.Hoffmann worked on the family Euphorbiaceae), nor any duplicate could be found in any other herbarium. Hence, a neotype is designated here based on a good flowering material at NY, collected from the type locality as per Art. 9.8 (Turland et al., 2025). This specimen agrees well with the protologue.

Claoxylon cuneatum J.J. Sm. in *Nova Guinea* 8: 232. 1910.

Lectotype (designated here): Papua New Guinea, Irian Jaya, 27 September 1907, *G.M. Versteeg* 1752 (L0059808; isoelectotypes K001094021, L0059807, U0105454, US00096134). Additional syntypes: Papua New Guinea, Irian Jaya, s.d., *G.M. Versteeg* 1750 (fragm. A02503198, A02503192, K001094020, L0059806, U0105453).

Claoxylon tumidum J.J. Sm. in Nova Guinea 8: 233. 1910.

Lectotype (designated here): Papua New Guinea, Irian Jaya, s.d., *G.M. Versteeg 1708* (L0016112; isoelectotypes K001094115, U0105451). Additional syntypes: Papua New Guinea, Irian Jaya, s.d., *G.M. Versteeg 1282 A* (L0016111). Papua New Guinea, Irian Jaya, s.d., *G.M. Versteeg 1822* (fragm. A02503205, K001094114, L0016113, U0105452).

Notes: *Claoxylon cuneatum* was described from Papua New Guinea based on two collections by G.M. Versteeg bearing field numbers 1750 (female flowers) and 1752 (male flowers). Here, a good specimen at L is chosen as the lectotype. *Claoxylon tumidum* was also described from Papua New Guinea based on three collections by G.M. Versteeg bearing field numbers 1282 A, 1708 and 1822. Of these, a good specimen at L is selected here as the lectotype.

Claoxylon erythrophyllum Miq., Fl. Ned. Ind. 1(2): 387. 1859.

Lectotype (designated here): Indonesia, Lesser Sunda Islands, Sumabawa (Soembawa, op den Batoe Lante), s.d., *H.Zollinger 3405* (A00045936; isoelectotypes fragm. A02563526, fragm. G00313915, L0164462, fragm. U0112694).

Notes: The species was described based on a single collection, Zollinger 3405, available at A, G, L and U. Of these, a duplicate at A, bearing inflorescences is designated her as the lectotype.

Claoxylon euphorbioides (Elmer) Merr., Enum. Philipp. Fl. Pl. 2: 430. 1923. – *Quadrasia euphorbioides* Elmer in Leaf. Philipp. Bot. 7: 2656. 1915.

Lectotype (designated here): Philippines, Sibuyan, Capiz Province, Magallanes (Mt. Giting giting), May 1910, *A.D.E. Elmer 12423* (L0059810; isoelectotypes BISH1001840, K001094026, US01254935, UVMVT026702). Additional syntypes: Philippines, Sibuyan, Capiz Province, Magallanes (Mt. Giting giting), May 1910, *A.D.E. Elmer 12424* (BISH1001839, K001094045, L0059811, NY00273188, US00096139, UVMVT026703). Philippines, Sibuyan, Capiz Province, Magallanes (Mt. Giting giting), April 1910, *A.D.E. Elmer 12273* (BISH1001841, L0059812, NY03950705, US01254934, UVMVT226107).

Notes: *Quadrasia euphorbioides* was described from the Philippines based on three collections of Elmer bearing field number 12273 (fruiting), 12423 (male flowering) and 12424 (female flowering). Of these, Elmer 12323 at L, a good specimen, agreeing well with the protologue, is designated here as the lectotype.

Claoxylon hosei (Merr.) Airy Shaw in Kew Bull. 14: 391. 1960. – *Koilodepas hosei* Merr. in Philipp. J. Sci., C 11: 66. 1916.

Lectotype (designated here): Malaysia, Sarawak, Baram District, Entoyut river, 13 November 1894, *C.Hose 465* (K001094056; isoelectotypes K005046997, L0016255, P05577742).

Notes: A single specimen, Hose 465 was cited in the protologue. Duplicates of this collection are available at K, L and P. Of these, a good specimen at K is designated here as the lectotype of the name.

Claoxylon khasianum Hook.f., Fl. Brit. India 5: 411. 1887.

Lectotype (designated here): India, Meghalaya, Chirra [Cherrapunji], 22 October 1835, *W.Griffith Kew Distrib. No. 4728* (K000246936, image!). Additional syntypes: India, Meghalaya, Khasya, s.d., *J.D. Hooker & T.Thomson s.n.* (CAL0000023742, G00313631, L0164532, P00635004). India, Meghalaya, Khasia, s.d., *W.Griffith s.n.* (K005046598). Bangladesh, Sylhet, 4 December 1850, *J.D. Hooker & T.Thomson s.n.* (K005046602).

Notes: The species was described from Northeast India and Bangladesh (Sylhet) based on several collections by Wallich, Griffith and J.D. Hooker & T.Thomson. Of these, the collection of Wallich could not be located. A specimen, collected by Griffith at K belonging to Hooker's herbarium and bearing flowers and fruits (in a packet) is designated here as the lectotype of the name.

Claoxylon longifolium (Blume) Endl. ex Hassk., Cat. Hort. Bot. Bogor. Alt. 235. 1844. – *Erythrochilus longifolius* Blume, Bijdr. Fl. Ned. Ind.: 616. 1826.

Lectotype (designated here): Indonesia, Java, s.d., *No collector [Herb. Blume] s.n.* (L0164669, image!). Additional original material: Indonesia, Java, s.d., *No collector [Herb. Blume] s.n.* (L0164670). Indonesia, Java, s.d., *C.L. Blume s.n.* (L0164668, NY00263061, NY00263062).

Claoxylon longifolium var. *glabrum* Müll.Arg. in DC., Prodr. 15(2): 781. 1866.

Lectotype (designated here): Malaysia, Penang, s.d., *Wallich Numer. List No. 7715 B* (G00313937, sheet 1; isoelectotypes K001127702, K001127703).

Claoxylon longifolium var. *brachystachys* Hook.f., Fl. Brit. India 5: 411. 1887.

Lectotype (designated here): Malaysia, Penang, Penara Bukit, November 1886, *C.Curtis 1101* (K001094078; isoelectotype K001094079). Additional syntype: Singapore, March 1885, *Hullett 864* (K001094077).

Notes: *Erythrochilus longifolius* was described by Blume from Java based on his own collections. A good specimen bearing flowers and fruits from Blume's herbarium is designated here as the lectotype of the name. *Claoxylon longifolium* var. *brachystachys* was described from Penang in Malaysia and Singapore based on two collections by Curtis and Hullett respectively. Of these, a specimen collected by Curtis, bearing drawing and a short description of male flower, is selected here as the lectotype. *Claoxylon longifolium* var. *glabrum* was described from Penang in Malaysia and Khasi hills in India based on three collections by Wallich, Native collector of Calcutta Botanic Garden and J.D. Hooker & T.Thomson. Here, the collection by Wallich from Penang represents *C. longifolium* while the other two specimens from the Khasi hills represent *C. khasianum*. A collection by Wallich at G-DC is selected here as the lectotype of the name. Thus, the name *C. longifolium* var. *glabrum* cannot be used now as a synonym of *C. khasianum*.

Claoxylon lutescens Pax & K.Hoffm. in Engl., Pflanzenr. IV, 147, XIV (Heft. 68), Euphorb. Addit. 6: 15. 1919.

Neotype (designated here): Papua New Guinea, Eastern Highlands Province, Crater Mt. Wildlife Management area, Ridge above Hauneababo, 20 July 1998, *W.Takeuchi 12258* (L0579775, Fig. 3; isoneotype K005047279).

Notes: *Claoxylon lutescens* was described from Papua New Guinea based on three collections by Ledermann bearing field numbers 12057, 12591 and 12708. These collections at B are not extant, nor any duplicate in any other herbarium. Hence, a neotype is designated here base on a fruiting material at L, also collected from Papua and New Guinea following Art. 9.8 (Turland et al., 2025). It agrees well with the protologue.

Claoxylon nervosum Pax & K.Hoffm. in Engler, Pflanzenr. IV, 147, VII (Heft. 63): 106. 1914.

Lectotype (designated here): Papua New Guinea, Kaiser-Wilhelmsland, In den Waldern des Fbo-Jab., 29 May 1908, *F.R.R. Schlechter 17804* (K001094123; isoelectotypes BR0000006999117, P05565066, P05565067, P05565068). Additional syntypes: Papua New Guinea, Kaiser-Wilhelmsland, Gallem weld am Reneyia, 18 October 1908, *F.R.R. Schlechter 18423* (BR0000006993788, K001094124, P05565093). Papua New Guinea, Kaiser-Wilhelmsland, Bismarckgebirge, 2 November 1908, *F.R.R. Schlechter 18624* (P05565091).

Notes: The species was described from Papua New Guinea based on three collections of Schlechter bearing field numbers 17804, 18423 and 18624. These specimens at B are not extant. However, duplicates are available at BR, K and P. Of these, a good flowering specimen at K is selected here as the lectotype of the name which agrees well with the protologue.

Claoxylon oblanceolatum (Merr.) Pax & K.Hoffm. in Engler, Pflanzenr. IV. 147. VII (Heft. 63): 115. 1914. – *Claoxylon rubescens* var. *oblanceolatum* Merr. in Philipp. J. Sci. 1(Suppl.): 79. 1906.

Lectotype (designated here): Philippines, Luzon, Bataan Province, Lamao River, Mt. Mariveles, June 1904, *T.E. Borden 1222* (US00096146). Additional syntypes: Philippines, Luzon, Bataan Province, Lamao River, Mt. Mariveles, February 1905, *R.Meyer 2763* (K001094036, NY00017538). Philippines, Luzon, Bataan Province, Lamao River, Mt. Mariveles, October 1903, *E.D. Merrill 3112* (K001094037, NY00017539). Philippines, Luzon, Bataan Province, Lamao River, Mt. Mariveles, August 1904, *T.E. Borden 1760* (K005047143, NY00017541).

Notes: *Claoxylon rubescens* var. *oblanceolatum* was described from the Philippines based on five collections by Borden, Meyer, Merrill and Ahern's collector. Of these, the specimen by Ahern's collector could not be

examined. A good flowering specimen at US, agreeing well with the protologue, is designated here as the lectotype of the name.

Claoxylon purpureum Merr. in Philipp. J. Sci. 1(Suppl.): 204. 1906.

Lectotype (designated here): Philippines, Luzon, Benguet Province, Mt. Santo Tomas, June 1904, *A.D.E. Elmer* 6545 (G00434292; isoelectotypes G00434291, K001094042, NY00017543, US01254947). Additional syntypes: Philippines, Luzon, Benguet Province, October 1905, *E.D. Merrill* 4689 (K001094040, NY00017537, US00096145). Philippines, Luzon, Benguet Province, Baguio, May 1904, *A.D.E. Elmer* 6307 (G00434289, G00434290, K001094043, NY00017540, US01254948). Philippines, Luzon, Benguet Province, Mt. Santo Tomas, June 1904, *A.D.E. Elmer* 6548 (G00434293, K001094041, NY00017542, US01254949).

Notes: Four collections from the Philippines were cited in the protologue of *Claoxylon purpureum*: Merrill 4689, Elmer 6307, 6545 and 6548. Duplicates of these collections are available at G, K, NY and US. Of these, a good fruiting material at G-DC is designated here as the lectotype of the name which agrees well with the protologue.

Claoxylon scabratum (Pax & K.Hoffm.) Airy Shaw in Kew Bull. 20(1): 31. 1966. – *Claoxylon indicum* var. *scabratum* Pax & K.Hoffm. in Engler, Pflanzenr. IV. 147. VII (Heft 63): 110. 1914.

Lectotype (designated here): Papua New Guinea, Kaiser Wilhelmsland, Keneyia, 20 October 1908, *F.R.R. Schlechter* 18444 (K001094117; isoelectotype BR0000006994112).

Notes: *Claoxylon indicum* var. *scabratum* was described from Papua New Guinea based on two collections, Schlechter 18444, Schultze 157 at B. However, the original materials of the name at B are not extant. Two duplicates of the collection by Schlechter are available at BR and K. Of these, the better specimen at K is selected here as the lectotype of the name.

Claoxylon spathulatum Pax & K.Hoffm. in Engler, Pflanzenr. IV. 147. VII (Heft 63): 120. 1914.

Lectotype (designated here): Philippines, Luzon, Camarines Sur, Pasacao, s.d., *G.P. Ahern* 266 (US00096148).

Notes: Only one specimen, Ahern 266 was cited in the protologue of *Claoxylon spathulatum*. The holotype of the name is now not extant at B. The only duplicate at US, which could be culled out, is designated here as the lectotype following Art. 9.11 (Turland et al., 2025).

Claoxylon subviride Elmer in Leaflet. Philipp. Bot. 3: 907. 1910.

Lectotype (designated here): Philippines, Sibuyan, Capiz Province, Magallanes (Mt. Giting-giting), April 1910, *A.D.E. Elmer* 12347 (K001094027; isoelectotypes BISH1001508, E00907802, G00434286, GH00112244, HBG516514, L0270275, MO-260002, NY00017545, US00096151, UVMVT311459, Z-000015949).

Notes: The species was described from the Philippines based on a single collection, Elmer 12374. Duplicates of this collection are available at several herbaria. Of these, a good specimen at K is chosen here as the lectotype of the name.

Claoxylon velutinum J.J. Sm. in Bull. Jard. Bot. Buitenzorg, sér. 3, 1: 395. 1920.

Lectotype (designated here): Indonesia, Borneo, Boekit Milie, 14 November 1898, *Amdjah* 149 (BO-1886903; isoelectotypes BO-1886902, L0016128). Additional syntypes: Indonesia, Borneo, Boekit Milie, 14 November 1898, *Amdjah* 150 (BO-1886904, L0016129, L0016130). Indonesia, Borneo, Boekit Kapoer di Bawah, 1890, *Jaheri* 1553 (BO-1886901, L0016127).



Figure 1. Neotype of *Prockia albicans* (US00689066).



Figure 2. Neotype of *Claoxylon crassipes* (NY03950686).



Figure 3. Neotype of *Claoxylon lutescens* (L0579775).

Notes: *Claoxylon velutinum* was described from Indonesian Borneo based on three collections, Jaheri 1553 and Amdjah 149 and 150. These specimens are available at BO and L. In this case, a fruiting material at BO is selected as the lectotype of the name which agrees well with the protologue.

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References

1. Blanco, F.M. "Flora de Filipinas." (1837). Manila (En la imprenta de Sto. Thomas Por D. Candido Lopez), 887 p.
2. Merrill, E.D. "Species blancoanae." (1918). Bureau of Printing, Manila, 423 p.

3. Nicolson, D.H. and Arculus, D. "Candidates for neotypification of Blanco's names of Philippine plants: specimens in the U.S. National Herbarium." *Taxon* 50 (2001): 947–954. <https://doi.org/10.1002/j.1996-8175.2001.tb04001.x>
4. POWO. "Plants of the World Online, Kew: Royal Botanic Gardens, Kew (2026). <https://powo.science.kew.org/>
5. Susila Rani, S.R.M. and Balakrishnan, N.P. "Tribe Acalypheae Bartl." In: Balakrishnan, N.P. et al. (Eds.) *Flora of India*, Vol. 23 (2012). Botanical Survey of India, Kolkata, pp. 89–171.
6. Turland, N.J., Wiersema, J.H., Barrie, F.R., Gandhi, K.N., Gravendyck, J., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Klopfer, R.R., Knapp, S., Kusber, W.-H., Li, D.-Z., May, T.W., Monro, A.M., Prado, J., Price, M.J., Smith, G.F. & Zamora Señoret, J.C. (2025). *International Code of Nomenclature for algae, fungi, and plants (Madrid Code)*. (2025). Regnum Vegetabile 162. Chicago: The University of Chicago Press. p. 303. <https://doi.org/10.7208/chicago/9780226839479.001.0001>

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