

147-A. PHYLLANTHACEAE

Antidesma Linnaeus

Antidesma bunius (L.) Spreng., Syst. 1 (1825) 826; --Merr., Fl. Manila (1912) 287; EPFP 2 (1923) 412; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 4; --Petra Hoffm., Antidesma Malesia Thailand (2006) 74, Fig. 7; Map 6; --Stilago bunius L., Mant. Pl. 1 (1767) 122; --Antidesma stilago Poir., Encycl. suppl. 1 (1811) 403, *pro parte, nom. illeg.*

Antidesma ciliatum C Presl, Epimel. Bot. (1849) 234. --Type: Cuming 1446 (PRC, holo; iso: CGE, E, FHO, G, K, L*, P). Luzon: Batangas prov.

Antidesma bunius (L.) Spreng. var. *cordifolium* (C Presl) Muell.-Arg. in DC., Prodr. 15, 2 (1866) 262; --*Antidesma cordifolium* C Presl, Epimel. Bot. (1849) 235. --Type: Cuming 474 (PRC, holo; iso: CGE, E, G, FHO, K, L 2 sheets*, MEL, P). Luzon: Laguna prov., Calauang.

Antidesma crassifolium (Elmer) Merr., PJS 7 c (1912) Bot. 383; --*Sapium crassifolium* Elmer, LPB 2 (1908) 485. --Lectotype (Petra Hoffm., 2006): Negros Oriental prov., Cuernos Mtns, open, dry grassy ridges at 1000ft., Jun 1908.

var. bunius

India (incl. Andaman & Nicobar Islands), Sri Lanka, S China (Hainan and Guangdong prov.), Burma, Laos, Vietnam, Thailand, Sumatra, Singapore, Borneo, Java, Philippines, Sulawesi, Lesser Sunda Islands, Moluccas, New Guinea, Christmas Islands (Indian Ocean, Australia), Tahiti, Hawaiian Islands. As *Antidesma bunius* is widely cultivated as a fruit tree, it is impossible to distinguish truly wild occurrences and to establish the natural geographic distribution of the species.

In wet evergreen forest, dipterocarp forest and teak forest; on river banks, at forest edges, along roadsides; in bamboo thickets; in semi-cultivated and cultivated areas; in shady or open habitats; usually in secondary but also in primary vegetation. Thrives best in open, sunny places, and is said to be common in the early stages of secondary forest succession, invading marginal grassland (Gruèzo in PROSEA 2, 1991: 79). On sand, loam or clay over (coral) limestone or granite bedrock. Altitude: sea level up to 2100 m.

Antidesma catanduanense Merr., PJS 16 (1920) 549; EPFP 2 (1923) 413; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 4; --Petra Hoffm., Antidesma Malesia Thailand (2006) 81, Map 7. --Lectotype (Petra Hoffm., 2006): BS 30515 Ramos (A*, holo; iso: K, US). Catanduanes: Mt Mariguidon. Nov-Dec 1917.

CATANDUANES. Along streams in forests.

Antidesma curranii Merr., PJS 9 c (1914) Bot. 466; EPFP 2 (1923) 413; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5; --Petra Hoffm., Antidesma Malesia Thailand (2006) 97, Map 11. --Lectotype (Petra Hoffm., 2006): Type: FB 5087 Curran (US). Luzon: Benguet prov., Baguio.

LEYTE, SAMAR, MINDANAO, DINAGAT, BUCAS GRANDE. In (dry) dipterocarp forest; in primary or secondary vegetation; in shady or half-shady habitats. On clay soil, also reported from ultrabasic soil. Altitude: 50-700m.

Antidesma digitaliforme Tul., Ann. Sci. Nat. 3, 15 (1851) 191; --Merr., EPFP 2 (1923) 413; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5; --Petra Hoffm., Antidesma Malesia Thailand (2006) 103, Map 12. --Lectotype (Petra Hoffm., 2006): Callery 42 (P, holo; iso: A, G), Philippines, Luzon, apud Igolotas, in sylvis montium, prope Manillam.

Antidesma lucidum Merr., PJS 1 suppl. (1906) 78. --Lectotype (Petra Hoffm., 2006): Whitford 1135 (US, holo; iso G, K, NY). Luzon: Antidesma luzonicum Merr., PJS 9 c (1914) Bot. 464. --Lectotype (Petra Hoffm., 2006): Ramos (Phil. Pl.) 1555 (L, holo; iso: A, BO, G, NY, SING). Luzon: Camarines Sur prov., Mt Isarog.

LUZON, MINDORO, PALAWAN, SIBUYAN, NEGROS, LEYTE, SAMAR. Understorey of dipterocarp and elfin/montane forest; in primary or secondary vegetation; sometimes on exposed ridges. On clay-loam or loose rocky soil. Altitude: 10-1600m.

Antidesma edule Merr., Govt. Lab. Publ. (Philip.) 17 (1904) 26; --Merr., EPFP 2 (1923) 418, *pro syn.*

A. spicatum Blanco; --Petra Hoffm., *Antidesma Malesia Thailand* (2006) 106, Map 13. --Type: FB 167 Barnes (US, lecto, designated by Petra Hoffman, 2006; iso: BM, K, NY). Luzon: Bataan prov., Lamao River.

var. edule

LUZON, POLILLO, MINDORO, SAMAR, MINDANAO. In mixed lowland to hill forest; sometimes in damp forests by streams. On rocky volcanic/ultrabasic soil, altitude 70-400m.

var. apoense Petra Hoffm., *Kew Bull.* 54 (1999) 350; *Antidesma Malesia Thailand* (2006) 107, Fig. 11, Map 13. — Type: C MINDANAO: North Cotabato (Mt Apo Geothermal Project Site). Known only from the type locality.

Antidesma excavatum Miq., *Ann. Mus. Bot. Lugduno-Batavum* 1 (1864) 218; --Petra Hoffm., *Antidesma Malesia Thailand* (2006) 112, Fig. 5d-f, Map 14. --Type from Sulawesi. *Antidesma sarcocarpum* Airy Shaw, *Kew Bull.* 23 (1969) 288; *Euph. New Guinea* (1980) 218; *Alphab. Enum. Euph. Philip.* (1983) 7. --(Lectotype from Papua New Guinea.

var. excavatum

Sulawesi, Moluccas, New Guinea incl. Bismarck and Louisiade Archipelagos, Solomon Islands, Australia (Queensland, Cape York Peninsula), Caroline Islands (Kusaie), Fiji (Rotuma Islands), Wallis & Futuna Islands, Samoa. Its occurrence in Borneo and the Philippines is somewhat doubtful. There are three collections from the Philippines: BS 39026 Ramos & Edaño from Mindanao is the only typical specimen; BS 24836 Barbos and BS 33057 Ramos from Luzon are doubtful.

Habitat & Ecology — In (rain) forest, associated with Anisoptera, Araucaria, Calophyllum, Castanopsis, Cunoniaceae, Eucalyptopsis, Eugenia, Hopea, Melaleuca, Quercus, Semecarpus and Vatica; Agathis forest; low shrubby forest; coastal plain forest; gallery forest; sometimes on alluvial, swampy or seasonally flooded ground; on grassland; in mangrove forest with Bruguiera, Rhizophora, Sonneratia, Xylocarpus; at back of beaches, associated with Pandanus and Cocos; on coral shores; on an extinct volcano; on semi-cultivated and cultivated land; in lowland to mid-montane, primary or secondary vegetation. On white sand, sandy loam soil, alluvial soil derived from granite, volcanic and ultrabasic soil, limestone rock. Altitude: sea level up to 3600 m.

Antidesma japonicum Siebold & Zucc., *Abh. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss.* 4(3) (1846) 212, repr. as *Fl. Jap. Fam. Nat.* 2 (1846) 88; --Petra Hoffm., *Antidesma Malesia Thailand* (2006) 134, Map 18. --Lectotype (Petra Hoffm., 2006): Siebold & Zuccarini s.n. (L, herb. No. 903154-234, holo; iso: L, LE?), Japan.

Antidesma acuminatissimum Quisumb. & Merr., *PJS* 37 (1928) 159. — Lectotype (Petra Hoffm., 2006): BS 45189 Ramos & Edaño (A, holo; iso: B, K, P, US). Luzon: Aurora prov., Casiguran.

var. japonicum

Japan (Kyushu), Ryukyu Isls, Taiwan, S China (Guangdong, Guangxi, Guizhou, Hunan, Guangxi, Sichuan, Zhejiang provinces, not in Yunnan province), Hainan, Burma (Tenasserim & Thaton distr.), Vietnam, Thailand, Peninsular Malaysia (Kedah, Perak, Pahang), Philippines. LUZON, MINDANAO.

Habitat & Ecology — In (evergreen) forest; in virgin forest, dipterocarp forest and dry thickets; on limestone cliffs; along roadsides; in primary or secondary vegetation; on wet or dry ground. On sandy soil, clay, limestone, over granite bedrock. Altitude: sea level up to 1700 m.

Antidesma ghaesembilla Gaertn., *Fruct.* 1 (1788) 189, t. 39; --Merr., *Fl. Manila* (1912) 287; *EPFP* 2 (1923) 414; --Airy Shaw, *Alphab. Enum. Euph. Philip.* (1983) 5.

Antidesma ghaesembilla var. *vestitum* (C Presl) Muell.-Arg. in *DC.*, *Prodr.* 15, 2 (1866) 251; --*Antidesma vestitum* C Presl, *Epimel. Bot.* (1849) 232; --Merr., *EPFP* 2 (1923) 414; --Airy Shaw, *Alphab. Enum.*

Euph. Philip. (1983) 5. --Type: Cuming 986 (PRC, holo; iso: CGE, E, G, K, L, MEL, NY, TCD).
Luzon: Pangasinan prov.

India, Nicobar Isls, Sri Lanka, Bangladesh, Burma, S China (Guangdong), Hainan, Thailand, Laos, Cambodia, Vietnam, Sumatra, Peninsular Malaysia, Borneo (Kalimantan, Sabah), Java, Philippines, Sulawesi, Lesser Sunda Islands, Moluccas, New Guinea, northern Australia. Throughout the Philippines at low and medium altitudes, a common characteristic tree of open cogonales (grasslands) at low and medium altitudes. Merr 2:414)

In pyrogenous grassland, scrubby 'parang' vegetation, vine thickets, early stage re-growths associated with Macaranga and other fast-growing weed-tree pioneers, along roadsides, on various soil types including limestone and ultramafics-derived, altitude 0-1250m.

Antidesma leucopodium Miq., Fl. Ind. Bat., Suppl. (1861) 465; --Airy Shaw, Kew Bull. Add. Ser. 4 (1975) 212; Alfab. Enum. Euph. Philip. (1983) 6; --Petra Hoffm., Antidesma Malesia Thailand (2006) 145, Fig. 18a-c, Map 22. — (Lecto)type from Sumatra.

Antidesma clementis Merr., PJS 9 c (1914) Bot. 465, *non* Merr. 1917; EPFP 2 (1923) 413; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5. --Lectotype (Petra Hoffm., 2006): MS Clemens 884 (G). Mindanao: Lanao del Sur prov., Camp Keithley.

Peninsular Thailand, Peninsular Malaysia, Sumatra, Borneo, Philippines.

BASILAN, MINDANAO: Lanao del Sur. In lowland to lower montane (mixed) dipterocarp forest up to 50 m tall; in mossy forest; in riverine forest; usually in damp understory, associated with *Castanopsis*, *Dipterocarpus*, *Durio*, *Shorea*; also along roadsides; in primary or secondary vegetation. On loam and clay over sandstone and shale, alluvial soil and limestone rocks. Altitude: sea level up to 2200 m.

Antidesma macgregorii C Robinson, PJS 6 c (1911) Bot. 207; --Merr., EPFP 2 (1923) 415; --

Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6; --Petra Hoffm., Antidesma Malesia Thailand (2006) 145, Map 21. — Lectotype (Petra Hoffm., 2006): BS 10280 McGregor (US, holo; iso: K). Polillo
LUZON: Ilocos Norte, Cagayan, Tayabas, Camarines, POLILLO, CATANDUANES, SIBUYAN, NEGROS, LEYTE, SAMAR. The specimen *Curran 3477(A)* from Masamba, southern Sulawesi, is the only collection of *Antidesma macgregorii* from outside the Philippines. It matches the Philippine specimens but bears only very young fruits and is therefore here regarded as doubtful. In dipterocarp forest; along forest edges; primary or disturbed vegetation. On brown clay and ultrabasic soil. Altitude: 50–900 m.

Antidesma microcarpum Elmer, LPB 2 (1908) 487; --Merr., EPFP 2 (1923) 415; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6; --Petra Hoffm., Antidesma Malesia Thailand (2006) 150, Map 23. — Lectotype (Petra Hoffm., 2006): Elmer 9668 (E, holo; iso: G). Negros: Negros Oriental prov., Cuernos Mtns, Dumaguete.

Antidesma santosii Merr., PJS 16 (1920) 550. — Lectotype (Petra Hoffm., 2006): FB 26300 Santos (US, holo; iso: K). Luzon: Laguna prov., Mount Banahaw.

Antidesma maesoides Pax & K Hoffm. in Engl., Pflanzenreich IV.147.xv (1922) 164. — Lectotype (Petra Hoffm., 2006): Ramos 15251 (A). Leyte: Leyte prov., Dagami.

Antidesma frutiferum Elmer, LPB 10 (1939) 3731, invalid name, no Latin diagnosis. --Voucher: Elmer 14508 (BM, BO, G, GH, K, L, NY, U, US). Luzon: Sorsogon prov., Irosin, Mt Bulusan.

LUZON, PANAY, NEGROS, BOHOL, BILIRAN, LEYTE, SAMAR, MINDANAO. Mainly in secondary forest. Altitude: 60–1050 m.

Antidesma montanum Blume, Bijdr. (1825) 1124, *non* Thwaites 1861; --Airy Shaw, Kew Bull. Add. Ser. 4 (1975) 213; Alfab. Enum. Euph. Philip. (1983) 6; --Petra Hoffm., Antidesma Malesia Thailand (2006) 154, Fig. 14, Map 24, 25. --(Lecto)type from Java.

Antidesma leptocladum Tul., Ann. Sci. Nat. Bot., Sér. 3, 15 (1851) 199; --Merr., Fl. Manila (1912) 88; EPFP 2 (1923) 414; --Airy Shaw, Kew Bull. 37 (1982) 6; Alfab. Enum. Euph. Philip. (1983) 6; --

Antidesma leptocladum Tul. var. *genuinum* Muell.-Arg. in DC, Prodr. 15, 2 (1866) 253, *nom. inval.*
 --Lectotype (Petra Hoffm., 2006): Cuming 1513 (CGE, holo; iso: A, CGE, E, G, G-DC [microfiche], L, K, NY, P, PRC). Luzon: Batangas prov.

Antidesma leptocladum Tul. var. *nitidum* (Tul.) Muell.-Arg. in DC., Prodr. 15, 2 (1866) 253. l; --*Antidesma nitidum* Tul., Ann. Sci. Nat. Bot., Sér. 3 (1851) 193; --Merr., EPFP 2 (1923) 416; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6. --Lectotype (Petra Hoffmann, 2006): Cuming 1511 (P, holo; iso: A, CGE, E, G, G-DC [microfiche], K, L, NY, P, PRC). Luzon: near Manila.

Antidesma rostratum Tul. var. *genuinum* Muell.-Arg. in DC., Prodr. 15, 2 (1866) 257, *nom. inval.* --Lectotype (Petra Hoffm., 2006): Perrottet s.n. (P, holo; iso: G, L), Philippines, Luzon, circa Manillam.

Antidesma pentandrum (Blanco) Merr. var. *lobbianum* (Tul.) Merr., PJS 9 c (1914) Bot. 463; --*Antidesma rostratum* Tul. var. *lobbianum* Tul., Ann. Sci. Nat. Bot., Sér. 3 (1851) 219, in adnot. ("lobbiana"); --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7; --*Antidesma lobbianum* (Tul.) Muell.-Arg. in DC, Prodr. 15, 2 (1866) 254. --Lectotype (Petra Hoffm., 2006): Lobb 460 (CGE [Hb. Lindl.], holo; iso: BM, G, G-DC [microfiche], K, L, OXF), Java or Luzon.

Antidesma leptocladum Tul. var. *glabrum* Muell.-Arg. in DC., Prodr. 15, 2 (1866) 254. --Lectotype (Petra Hoffm., 2006): Cuming 1820 (G-DC [microfiche], holo; iso: CGE, FHO G, K, P, PRC, TCD), Philippines.

Antidesma pentandrum (Blanco) Merr., PJS 9 c (1914) Bot. 462; Sp. Blancoanae (1918) 219; EPFP 2 (1923) 416; --*Cansjera pentandra* Blanco, Fl. Filip. (1837) 73 ("Cansiera"); Fl. Filip., ed. 2 (1845) 53 ("Cansiera"). --Neotype (Petra Hoffm., 2006): Merrill Species Blancoanae 31 (A, holo; iso: GH, K, L, NY, P, US). Luzon: Rizal prov., Pasay (but "Bulacan prov., Angat" in Merrill, Sp. Blancoanae (1918) 219.

Antidesma pentandrum (Blanco) Merr. var. *barbatum* (C Presl) Merr., PJS 9 c (1914) Bot. 463; EPFP 2 (1923) 417; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7; --*Antidesma rostratum* Tul. var. *barbatum* (C Presl) Muell.-Arg. in DC., Prodr. 15, 2 (1866) 257; --*Antidesma barbatum* C Presl, Epimel. Bot. (1849) 233. --Lectotype (Petra Hoffm., 2006): *Cuming 1246* (PRC, holo; iso: CGE, E, G, K, L, MEL, P, PRC). Luzon: Ilocos Norte prov.

Antidesma pentandrum (Blanco) Merr. var. *angustifolium* Merr., PJS 9 c (1914) Bot. 464; --*Antidesma angustifolium* (Merr.) Pax & K Hoffm. in Engl., Pflanzenreich IV.147.xv (1922): 165. --Lectotype (Petra Hoffm., 2006): Elmer 6327 (US, holo; iso: G, K, NY, P). Luzon: Benguet prov., Twin Peaks.

Antidesma pentandrum (Blanco) Merr. var. *ramosii* (Merr.) Pax & K Hoffm. in Engl., Pflanzenreich IV.147.xv (1922) 126; --*Antidesma ramosii* Merr., PJS 9 c (1914) Bot. 468. --Lectotype (Petra Hoffm., 2006): BS 1002 Ramos (US, holo; iso: NY, P). Luzon, Rizal prov., Bosoboso.

Antidesma salicifolium C. Presl, Epimel. Bot. (1849) 233, non Miq. 1861. — Type: Cuming 1316 (PRC, holo; iso: CGE, E, G, FHO, K, L, MEL, P). Luzon: Cagayan prov.

Antidesma mindanaense Merr., PJS 7 c (1912) Bot. 383; EPFP 2 (1923) 415; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6. --Lectotype (Petra Hoffm., 2006): *Williams 2117* (NY, holo; iso: K, NY). Mindanao: Zamboanga, Sax R., San Ramon

Antidesma obliquinervium Merr., PJS 9 c (1914) Bot. 466; EPFP 2 (1923) 416; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6. --Lectotype (Petra Hoffm., 2006): *Merrill 9294* (A, holo; iso: BM, GH*, L*, NY*, P, US). Palawan: Palawan prov., Taytay-Lake Manguao trail.

Antidesma palawanense Merr., PJS 9 c (1914) Bot. 467; Pax & K Hoffm. in Engl., Pflanzenreich IV.147.xv (1922) 131; --Merr., Enum. Philip. Fl. Pl. 2 (1923) 416; --Airy Shaw, Euphorb. Philippines (1983) 6. --Neotype (Petra Hoffm., 2006): Elmer 12808 (K, holo; iso: A, E, G, L, NY, U, WRSL). Palawan: Palawan prov., Puerto Princesa, Mt Pulgar [=Thumb Peak].

Antidesma agusanense Elmer, LPB 7 (1915) 2632; --Merr., EPFP 2 (1923) 412; --Airy Shaw, Euph. Born. (1975) 29; Alfab. Enum. Euph. Philip. (1983) 4. --Type: Elmer 13549 (GH*, lecto, designated by Petra Hoffman, 2006; iso: BISH*, E, G, K, L*, MO*, NY*, P, U, US). Mindanao: Agusan del Norte prov., Cabadbaran, Mt Urdaneta [=Hilong-hilong], "in good humus-covered soil of a deeply wooded flat at 750ft, Aug 1912.

Antidesma angustifolium (Merr.) Pax & Hoffm. in Engl., Pflanzenreich 81 (1922) 165; Merr., EPFP 2 (1923) 412; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 4; --*Antidesma pentandrum* Merr. var. *angustifolium* Merr., PJS 9 c (1914) Bot 464. --Type: Elmer 6320

Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Sulawesi, Lesser Sunda isls, Moluccas.

LUZON: Benguet, Nueva Vizcaya, Quezon, Camarines, Sorsogon, MINDORO, NEGROS, CEBU, BOHOL, LEYTE, MINDANAO: Agusan del Norte (Mt Hilong-hilong), Surigao del Norte. In thickets and forests at low and medium altitudes. (Merr 2:416) (A nitidum)

Antidesma pleuricum Tul., Ann. Sci. Nat. Sér. 3, 15 (1851) 213; --Merr., EPFP 2 (1923) 417; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7; --Petra Hoffm., Antidesma Malesia Thailand (2006) 196, Map 33. — Lectotype (Petra Hoffm., 2006): *Callery 38* (P ["38bis"]), Philippines, **Calawanio**.

Antidesma obliquicarpum Elmer, LPB 7 (1915) 2633. — Lectotype (Petra Hoffm., 2006): Elmer 13277 (NY, holo; iso: A, E, G, GH, K, L, P, US), Mindanao: Agusan del Norte prov., Cabadbaran, Mt Urdaneta [=Hilong-hilong].

?*Antidesma tenuifolium* Pax & K Hoffm. in Engl., Pflanzenreich IV.147.xv (1922) 137. — Lectotype (Petra Hoffm., 2006): Curran 10736 (K, holo; iso: NY, US). Luzon: Camarines.

LUZON: Ilocos Norte, Cagayan, Bataan, Laguna, Quezon, Camarines, Sorsogon, Albay, ALABAT, MINDORO, BURIAS, TICAO, CATANDUANES, SAMAR, SIARGAO, SULU ARCHIPELAGO, MINDANAO. In forests, often in damp, dense habitats or near streams, on deep, fertile red soil, brown loam, limestone, altitude 10–600 m.

Antidesma puncticulatum Miq., Fl. Ned. Ind., Eerste Bijv. (1861) 468; --Petra Hoffm., Antidesma Malesia Thailand (2006) 198, Fig. 9c-g, Map 34. — Type from Sumatra.

Antidesma bunius (L.) Spreng. var. *thwaitesianum* (Müll.Arg.) Trimen, Syst. Cat. Pl. Ceylon (1885) 81; --*Antidesma bunius* (L.) Spreng. var. *b* Thwaites, Enum. Pl. Zeyl. (1861) 289, nom. inval.; --*Antidesma thwaitesianum* Muell.-Arg. in DC., Prodr. 15, 2 (1866) 263; Airy Shaw, Kew Bull. Add. Ser. 4 (1975) 217; --(Lecto)type from Sri Lanka.

Nicobar and Andaman Islands, Sri Lanka, Vietnam, Cambodia, Laos, Thailand, Peninsular Malaysia, Sumatra, north-eastern Borneo (East Kalimantan, Sabah), SW Philippines. PALAWAN, BANCALAN, BALABAC.

In evergreen primary, sometimes disturbed forest; in swamp forest; along river banks; at the inner edge of the mangrove; in secondary vegetation with *Dillenia* and *Melastoma*. On brown to black soil, sandy loam or peat, over sandstone. sea level up to 500 m.

Antidesma riparium Airy Shaw, xxxxxx; --Petra Hoffm., Antidesma Malesia Thailand (2006) 207, Map 36.

subsp. riparium

Sumatra (one doubtful specimen from Padang province), Borneo, Philippines (Palawan), Sulawesi.

In primary or secondary vegetation; in riverine and swamp forest; in mixed (dipterocarp) forest. On sandy or clay soil, over shales. Altitude: 60–1000 m.

Antidesma stipulare Blume, Bijdr. Fl. Ned. Ind. (1826–27) 1125; Airy Shaw, Kew Bull. Add. Ser. 4 (1975) 216; Petra Hoffm., Antidesma Malesia Thailand (2006) 215, Map 37. --(Lecto)type from Nusa Kambangan.

Antidesma cordatostipulaceum Merr., PJS 4 c (1909) Bot. 275; EPFP 2 (1923) 413; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5. --Lectotype (Petra Hoffm., 2006): McGregor 311 (K). Mindoro: Mindoro Oriental prov., Baco River.

Antidesma cordatostipulaceum Merr. var. *lancifolium* Merr., Enum. Philip. Fl. Pl. 2 (1923) 413 ("cordato-stipulaceum"). — Lectotype (Petra Hoffm., 2006): BS 40732 Ramos & Edaña (A, holo; iso: K, P, US). Mindoro.

Sumatra, Peninsular Malaysia, Borneo, Java, Philippines, Sulawesi, Moluccas (Ambon, Buru, Seram, Sula Islands).

MINDORO, PALAWAN, SIBUYAN?, SULU ARCHIPELAGO, MINDANAO. In primary and secondary vegetation; in lowland to hill dipterocarp forest up to 40 m tall; in mossy upper montane forest; in riverine and swamp forest; in *Agathis* forest; usually in shady understorey. On clay, loam, peat and sandy soil, often acidic, sometimes on ultrabasic soil, over limestone, basalt, sandstone and shale. Altitude: sea level up to 1800 m.

Antidesma subcordatum Merr., PJS 4 c (1909) Bot. 275; EPFP 2 (1923) 418; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7; --Petra Hoffm., *Antidesma Malesia Thailand* (2006) 218, Fig. 13a-d, Map 39. — Lectotype (Petra Hoffm., 2006): BS 1114 Ramos (NY, holo; iso: BO, GH, K, P, US). Luzon: Rizal prov., Bosoboso.

Antidesma fusicarpum Elmer, LPB 8 (1919) 3081. — Lectotype (Petra Hoffm., 2006): Elmer 18083 (GH, holo; iso: BM, BO, G, K, L, NY, US), Luzon: Laguna prov., Los Baños (Mt Maquiling).

Antidesma subcordatum Merr. var. *glabrescens* Pax & K.Hoffm. in Engl., *Pflanzenreich* IV.147.xv (1922) 157; --Merr., EPFP 2 (1923) 418; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7. --Lectotype (Petra Hoffm., 2006): Merrill 2860 (NY, holo; iso: K, US). Luzon: Pangasinan prov..

Philippines, Lesser Sunda Isls (Flores; Timor). LUZON, CORRIGIDOR, CORON, PALAWAN, MASBATE. The disjunction might indicate an adaptation to drier habitats than its presumed sister taxon *Antidesma ghaesembilla*, or it might simply be a collecting artefact. Habitat & Ecology: No data. Altitude: 20–200m.

Antidesma tomentosum Blume, Bijdr. (1825) 1126; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 8; Kew Bull. Add. Ser. 4 (1975) 218; --Petra Hoffm., *Antidesma Malesia Thailand* (2006) 224, Map 41.

Antidesma cumingii Muell.-Arg. in DC., Prodr. 15, 2 (1866) 249. --Type: Cuming 1300 (G-BOISS, holo; iso: BM, G, G-DC [microfiche], CGE, FHO, K). Luzon: Albay prov.

Antidesma membranifolium Elmer, LPB 1 (1908) 313 (“membranaefolium”). --Lectotype (Petra Hoffm., 2006): Elmer 9088 (L, holo; iso: A, E, G, K). Luzon: Quezon prov., Lucban.

Antidesma subolivaceum Elmer, LPB 4 (1911) 1272. — Lectotype (Petra Hoffm., 2006): Elmer 12883 (NY, holo; iso: A, BM, BO, E, G, K, L, P, US). Palawan, Puerto Princesa, Mt Pulgar [=Thumb Peak].

Antidesma samarense Merr., PJS 9 c (1914) Bot. 469. --Lectotype (Petra Hoffm., 2006): Ramos (Phil. Pl.) 1665 (US, holo; iso: BM, BO, G, GH, L, NY, P, SING). Samar.

Antidesma urdanetense Elmer, LPB 7 (1915) 2635. --Lectotype (Petra Hoffm., 2006): Elmer 13971 (A, holo; iso: BM, BO, E, G, K, L, NY, P, U, US). Mindanao, Agusan del Norte prov., Cabadbaran, Mt Urdaneta [=Mt Hilong-hilong].

Antidesma ilocanum Merr., PJS 16 (1920) 549. --Lectotype (Petra Hoffm., 2006): BS 32998 Ramos (A, holo; iso: BM, K, US). Luzon: Ilocos Norte prov., between Bangui and Claveria.

Antidesma impressinerve Merr., PJS 16 (1920) 548. --Lectotype (Petra Hoffm., 2006): BS (Ramos & Edaño) 31409 (A, holo; iso: K, US). Panay: Capiz prov., Jamindan.

?*Antidesma megalophyllum* Merr., PJS 16 (1920) 551. --Type: FB 26642 Velasco (not located). Babuyan Isls, Calayan.

var. tomentosum

Great Nicobar Is, Peninsular Thailand, Sumatra, Peninsular Malaysia, Anambas, Borneo, W Java, Philippines, N & C Sulawesi. BABUYAN ISLS, LUZON: Apayao, Cagayan, Isabela, Quezon, Laguna, Camarines, CATANDUANES, PALAWAN, PANAY, NEGROS, LEYTE, SAMAR, BASILAN, MINDANAO. In primary and secondary evergreen vegetation; in mixed lowland to hill dipterocarp forest, on clay, sand and ultrabasic soil, over limestone, or sandstone, from sea level up to 800 m.

Antidesma tomentosum is a very variable species.

Antidesma cumingii Muell.-Arg. in DC, Prodr. 15² (1866) 249; --Merr., EPFP 2 (1923) 413; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5.

Sulawesi and the Philippines: LUZON (widespread), CATANDUANES, PALAWAN, PANAY, NEGROS, LEYTE, SAMAR, MINDANAO, BASILAN. Low and medium altitude forests.

=*A. tomentosum*

Antidesma fru[c]tiferum Elmer, LPB 10 (1939) 3731; invalid name, no Latin descr.; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5.

Philippines.

=*A. microcarpum*.

Antidesma fusicarpum Elmer, LPB 8 (1919) 3080; --Merr., EPFP 2 (1923) 414; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5.

LUZON: Laguna. Forested ravines, altitude c. 300m.

=*A. subcordatum*

Antidesma ilocanum Merr., PJS 16 (1920) 549; EPFP 2 (1923) 414; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5.

LUZON: Ilocos Norte. Lowland secondary forests.

=*A. tomentosum*

Antidesma impressinerve Merr., PJS 16 (1920) 548; EPFP 2 (1923) 414; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 5.

Enum. Euph. Philip. (1983) 5.

PANAY. Forests along small streams.

=*A. tomentosum*

Antidesma leptocladum Tul., Ann. Sci. Nat. 3, 15 (1851) 199; --Merr., EPFP 2 (1923) 414; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6.

Peninsular Malaysia, Philippines. Low altitude forests.

=*A. montanum*

Antidesma luzonicum Merr., PJS 9 c (1914) Bot. 464; EPFP 2 (1923) 415; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6.

LUZON: Quezon, Camarines, LEYTE, SAMAR, BUCAS GRANDE. Low and medium altitude forests.

=*A. digitaliforme*

Antidesma megalophyllum Merr., PJS 6 c (1911) Bot. 207; EPFP 2 (1923) 415; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6.

BABUYAN ISLS (CALAYAN). Low altitude forests.

=*A. tomentosum*

Antidesma mindanaense Merr., PJS 7 c (1912) Bot. 383; EPFP 2 (1923) 415; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6.

LUZON: Apayao, BALABAC, BASILAN, MINDANAO: Zamboanga, Lanao, Cotabato. Lowland forests, ascending to 800m.

=*A. montanum* Blume

Antidesma obliquinervium Merr., PJS 9 c (1914) Bot. 466; EPFP 2 (1923) 416; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 6. --Type: Merrill 9294 (A*, lectotype; isolectotypes in BM, GH*, L*, NY*, P, US). Palawan: Taytay-Lake Manguao Trail, May 1913.

PALAWAN. Low altitude primary forests.

=*A. montanum*

Antidesma pentandrum (Blanco) Merr., PJS 9 c (1914) Bot. 466; EPFP 2 (1923) 416; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7.

Antidesma leptocladum Merr., Fl. Manila (1912) 88, *non* Tul.

var. pentandrum

Taiwan, Philippines. BABUYAN ISLS, LUZON: Ilocos Norte, La Union, Pangasinan, Benguet, Cagayan, Zambales, Bataan, Bulacan, Rizal, Cavite, Laguna, Quezon, Albay, Sorsogon. Low and medium altitude thickets, ascending to 1800m.

=*A. montanum*

var. *barbatum* (C Presl) Merr., PJS 9 c (1914) Bot. 463; EPFP 2 (1923) 417; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7.

BATANES, BABUYAN ISLS, LUZON: Ilocos Norte, Cagayan, Isabela, Zambales, Quezon, Albay. Low and medium altitude thickets.
=A. montanum

var. *lobbianum* (Tul.) Merr., PJS 9 c (1914) Bot. 463; EPFP 2 (1923) 416; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7.

LUZON: Rizal, Manila.

Antidesma phanerophlebium Merr., PJS 11 c (1916) Bot. 59; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7.

Sulawesi and the Philippines.

=A. montanum

Antidesma ramosii Merr., PJS 9 c (1914) Bot. 468; EPFP 2 (1923) 417; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7.

LUZON: Rizal. Medium altitude forests.

=A. montanum

Antidesma samarense Merr., PJS 9 c (1914) Bot. 469; EPFP 2 (1923) 417; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7.

LUZON: Camarines, CATANDUANES, LEYTE, SAMAR, MINDANAO: Agusan, Surigao. Low altitude forests.

=A. *tomentosum*

Antidesma santosii Merr., PJS 16 (1920) 550; EPFP 2 (1923) 417; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 7.

LUZON: Laguna. Forests along streams, altitude c. 600m.

=A. microcarpum

Antidesma sarcocarpum Airy Shaw, Kew Bull. 23 (1969) 288; Euph. New Guinea (1980) 218; Alfab. Enum. Euph. Philip. (1983) 7. --(Lecto)type from Papua New Guinea.

New Guinea and the Philippines.

?BS 39026 Ramos & Edaño

=A. excavatum

Antidesma subolivaceum Elmer, LPB 4 (1911) 1272; --Merr., EPFP 2 (1923) 418; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 8. --Type: Elmer 12883.

PALAWAN. Damp forests, c. 225m.

=A. *tomentosum*

Antidesma thwaitesianum Muell.-Arg. in DC, Prodr. 15² (1866) 263; --Airy Shaw, Euph. Borneo (1975) 217; Alfab. Enum. Euph. Philip. (1983) 8.

Antidesma thwaitesianum MA S B P

=A. puncticulatum

Dubious species:

Antidesma spicatum Blanco, Fl. Filip. (1837) 794 ("spicata"). — Type: Blanco?, Llanos? (not located), Philippines.

No original material located in MA.

Cansjera grossularioides Blanco, Fl. Filip. (1837) 73 ("Cansiera"); Fl. Filip., ed. 2 (1845) 53; Merr., PJS 9 c (1914) Bot. 463; Sp. Blancoanae (1918) 218. — Type: Blanco? Llanos? (not located), Philippines.

No original material located (incl. MA, fide M. Velayos, curator, in litt.). Merrill (1918: 218) regarded this species as conspecific to *Antidesma ghaesembilla*, but did not cite any original material. He selected two “illustrative specimens” of *Antidesma ghaesembilla* for his *Species Blancoanae* (no. 375, Luzon, Laguna Prov., Los Baños, June 1914, Quisumbing, K, and no. 488, Palawan, Taytay, May 1913, K) to represent *C. grossularioides*. As this term is not equivalent to “type” in the sense of Art. 7.11. (Greuter et al. 2000: 9), this did not effect neotypification. Blanco’s species maybe identical with *Antidesma ghaesembilla*, but as long as there is no original material, it seems preferable to treat *C. grossularioides* as incompletely known.

Cansjera rheedii Blanco, Fl. Filip. (1837) 73 (“*Cansiera rheedi*”); Fl. Filip., ed. 2 (1845) 52 (“*Cansiera rhedi*”); Merr., PJS 9 c (1914) Bot. 462. — Type: Blanco? Llanos? (not located), Philippines.

No original material could be located. There is one specimen in MA (only photograph seen): “Llanos 112, In oppid. Angat, vulgo Bignayrugo(?), *Antidesma alexiteria* Blanco? *Cansiera rheedi* Blanco?”, designated as “lectotype in sched.”, probably by Quisumbing. The specimen on the photograph is most probably *Antidesma ghaesembilla*, and the label itself makes it most unlikely that it is the actual type as Blanco himself would hardly have been so indecisive about his own species. Merrill (*Sp. Blancoanae* (1918) 218, regarded this species as conspecific with *Antidesma pentandrum*, the basionym of which he considered to be *Cansiera pentandra* Blanco. *Antidesma* is here treated as a synonym of *Antidesma montanum*.

Aporosa Blume

Revision:

Schot, AM 1995. *A synopsis of taxonomic changes in Aporosa Blume (Euphorbiaceae)*. Blumea 40: 449-460.

Schot, A.M. 2004. *Systematics of Aporosa (Euphorbiaceae)*. Blumea Supplement 17: 1-377.

Aporosa banahaensis (Elmer) Merr., EPFP 2 (1923) 410; --Schot, Blumea Suppl. 17 (2004) 214, Fig. 3.5g; map 10.1. --*Baccaurea banahaensis* Elmer, LPB 4 (1912) 1475. --Type: Elmer 9106 (iso BM, BO, L). Luzon: Quezon prov., Lucban.

Aporosa similis Merr., PJS 9 c (1914) Bot. 472. Type: FB 7279 Everett (iso in P). Negros.

Aporosa agusanensis Elmer, LPB 7 (1915) 2636. --Type: Elmer 13415 (iso in A, BM, BO, L, P). Mindanao: Agusan del Norte prov., Cabadbaran, Mt Urdaneta.

?North Borneo, Philippines. Primary or secondary forest or old logging areas; in lower storey. On (brown) clay, altitude 35–380m. Flowering Feb-Apr; fruiting Apr-Sept and Nov. The fruit is recorded odorless and edible.

Aporosa basilanensis Merr., PJS 9 c (1914) 471; EPFP 2 (1923) 410; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 8; --Schot, Blumea Suppl. 17 (2004) 324, Fig. 3.6o, 3.8f, 4.5b; map 10.53. --Type: BS 16168 Reillo (holo in K; iso in BM, P; photo A). Basilan.

Borneo and SW Philippines.

BASILAN. Primary, mixed dipterocarp forest and in logging areas; on hill sides, hill tops, flat land, and along river banks. On basalt or clayish yellow soil, altitude 30–1450 m. Flowering Mar-May; fruiting Feb-Dec.

Aporosa benthamiana Hook.f, Icon. Pl. 16 (1887) t. 1583; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 8; --Corner, Wayside Trees Malaya 1 (1940) 237; --Whitmore, Tree Fl. Malaya 2 (1973) 59; --Airy Shaw, Kew Bull., Addit. Ser. 4 (1975) 33; --Schot, Blumea Suppl. 17 (2004) 276, Fig. 3.7n, 3.8q, 3.11g, 4.7b; map 10.34. --(Lecto)type from Peninsular Malaysia (Malacca).

Aporosa lunata (Miq.) Kurz var. *stipulosa* (Merr.) Merr., EPFP 2 (1923) 410, *nom. illegit.*; --*Aporosa stipulosa* Merr., PJS 16 (1920) 547. --*Aporosa lunata* (Miq.) Kurz var. *philippinensis* Pax & K Hoffm. in Engl., Pflanzenreich IV.147.xv (1922) 82. --Type: MS Clemens 968 (not seen). Mindanao.

Sumatra, Peninsular Malaysia, Singapore, Borneo (Sabah), Philippines.

BILIRAN, LEYTE, MINDANAO: Lanao del Sur, Agusan del Norte. Lowland primary and secondary forests, ascending to 800m. Flowering May-Nov; fruiting Mar-Dec.

Aporosa frutescens Blume, Bijdr. (1825) 514; --Pax & K Hoffm. in Engl., Pflanzenreich IV.147.xv (1922) 91; --Corner, Wayside Trees Malaya 1 (1940) 237; --Backer & Bakh.f., Fl. Java 1 (1964) 457; --Airy Shaw, Kew Bull. 26 (1972) 216 (excl. *A. banahaensis*); --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 9; --Whitmore, Tree Fl. Malaya 2 (1973) 59, 60; --Airy Shaw, Kew Bull., Addit. Ser. 4 (1975) 216; Kew Bull. 36 (1981) 255, 37 (1982) 7; Schot, Blumea Suppl. 17 (2004) 220, fig. 3.5i, 3.6v, 3.7c, 3.8p, 3.11i, 4.6c, 4.7a; map 10.4; Schot & Welzen in Chayamarit & Welzen, Fl. Thailand 8, 1 (2005) 88, fig. 17. --(Lecto) from Java.

Aporosa fruticosa (Blume) Muell.Arg. in DC., Prod. 15, 2 (1866) 475; --*Leiocarpus fruticosus* Blume, Bijdr. (1825) 582;-- (Lecto) type from Java.

S Burma (Tenasserim), Thailand, Sumatra, Peninsular Malaysia, Singapore, Java, Borneo, Philippines, Sulawesi, Moluccas.

Philippine distribution & Ecol.

Aporosa leytensis Merr., PJS 9c (1914) 368; EPFP 2 (1923) 410; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 9; --Schot, Blumea 40 (1995) 452; Blumea Suppl. 17 (2004) 301, Fig. 3.6n, 3.8e. --Type: Wenzel 614 (A, holo; iso BM, L).

Aporosa alvarezii Merr., PJS 9c (1914) Bot. 470; EPFP 2 (1923) 301; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 8; --Schot, Blumea Suppl. 17 (2004) 324, Fig. 3.6o, 3.8f, 4.5b. --Type: FB 21245 Alvarez (K, iso).

Philippines, Sulawesi. BILIRAN, LEYTE. Forests, altitude 500-600m.

Aporosa octandra (Buch.-Ham. ex D Don) Vickery, Enum. Fl. Pl. Nepal 3 (1982) 193; --Schot, Blumea Suppl. 17 (2004) 259

var. *malesiana* Schot, Blumea 40 (1995) 452; Blumea Suppl. 17 (2004) 263, Fig. 3.5a, 3.6b.

Aporosa dioica (Roxb.) Muell.-Arg. in DC, Prodr. 15² (1866) 472; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 8.

Aporosa aurita (Tul.) Baill., Etud. Gen. Euph. (1858) 645; --Merr., EPFP 2 (1923) 409. --Type: Cuming 860 (P, holo; iso A, BM, K, L).

E Himalayas to S China, Andaman Isls, Thailand, Sumatra, Peninsular Malaysia, Banka, Borneo, Philippines, Java, Sulawesi. LUZON: Isabela, POLILLO, LEYTE, SAMAR.

Lowland forests.

Aporosa sphaeridiophora Merr., PJS suppl. 1 (1906) 76. 'sphaeridiophora' (*corr.* Airy Shaw, 1969); EPFP 2 (1923) 410; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 9; --Schot, Blumea Suppl. 17 (2004) 348, Fig. 3.7j, 3.8j. --Lecto: FB 146 Barnes (iso in BO, K).

Aporosa acuminatissima Merr., PJS 16 (1920) 546; EPFP 2 (1923) 409; --Airy Shaw, Alfab. Enum. Euphorb. Philip. (1983) 9. named by Merrill (1929) represent *A. falcifera* Hook. f. and *A. subcaudata* Merr.

var. *sphaeridiophora*

Sumatra, Java, Philippines, Moluccas. LUZON: Benguet, Cagayan, Zambales, Bataan, Quezon, Laguna, Sorsogon, PALAWAN, PANAY, NEGROS, LEYTE, SAMAR, MINDANAO: Lanao del Sur. In primary forests at medium altitudes ascending to 1600m.

Aporosa symplocifolia Merr., PJS 1 (1906) Suppl. 77 ('*symplocosifolia*'); EPFP 2 (1923) 410; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 9; --Schot, Blumea Suppl. 17 (2004) 268. --Type: *Aporosa elliptifolia* Merr., PJS 9 c (1914) Bot. 472; EPFP 2 (1923) 410; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 9. --Type: Merrill 9609 (A*, GH*, L*, NY*, SING*, US*, iso). Palawan: Silanga, May 1913.

LUZON: Ilocos Norte, Cagayan, Isabela, Pangasinan, Zambales, Bataan, Rizal, Albay,

Sorsogon, MINDORO, PALAWAN. Low and médium altitude primary forests, common.

Aporosa spec. G (aff. *A. caloneura* Airy Shaw/ *A. sphaeridiophora* Merr.) Voucher: PNH 10029 Sulit (staminate, A, BM, L). Mindanao: Bukidnon prov., Mt Kitanglad; PNH 9899 (pistillate, A, L). idem.

MINDANAO: Bukidnon.

Baccaurea Loureiro

Revision:

Fernando, ES. 1979. Kalikasan, Philippine Journal of Biology 8: 301-312

Haegens, RMAP. 2000. *Taxonomy, Phylogeny and Biogeography of Baccaurea, Distichirhops, and Nothobaccaurea (Euphorbiaceae)*. Blumea Supplement 12: 1-218.

Baccaurea lanceolata (Miq.) Muell.-Arg., in DC, Prodr. 15, 2 (1866) 457; --Merr., EPFP 2 (1923) 411; --Fernando, Kalikasan, Philip. J. Biol. 8 (1979) 302, Fig. x; --Airy Shaw, Alfab. Enum. Euphorb. Philip. (1983) 9; --Haegens, Blumea Suppl. 12 (2000) 119, Fig. 3.10, photo 2, 3; --Hedycarpus lanceolatus Miq., Fl. Ned. Ind. 1, 2 (1859) 359. --Type from Java.

Baccaurea glabriflora Pax & Hoffm. in Engl., Pflanzenreich IV. 147.xv (1922) 59; --Merr., EPFP 2 (1923) 411. --Type: Merrill 853 (US*, holo; iso in K). Palawan: San Antonio Bay, Feb. 1903.

Thailand, Sumatra, Peninsular Malaysia, Java, Borneo (Sarawak, Brunei, Sabah, Kalimantan), Philippines. PALAWAN, JOLO (according to Merrill (1923) probably cultivated on account of edible fruits). Lowland forests.

Baccaurea odoratissima Elmer, LPB 4 (1911) 1276; --Merr., EPFP 2 (1923) 411; --Fernando, Kalikasan, Philip. J. Biol. 8 (1979) 307, Fig. 3; --Haegens, Blumea Suppl. 12 (2000) 141, Fig. 3.17. --Type: Elmer 13160 (PNH, holo, lost; lecto at L*, designated by Haegens; isolecto in GH, K, MO*, NY* US*; syntype: Elmer 12864 (L*, MO*, NY*)). Palawan: Puerto Princesa, Mt Pulgar (=Thumb Peak), forests, altitude c. 225m.

Borneo (Sabah, Brunei, Sarawak, Kalimantan), PALAWAN: Mt Pulgar. Lowland forests.

Baccaurea philippinensis (Merr.) Merr., PJS 10 c (1915) Bot. 275; EPFP 2 (1923) 411; -- Fernando, Kalikasan, Philip. (1983) 9; --Haegens, Blumea Suppl. 12 (2000) 157, Fig. 3.19, Map 3.27; -- Everettdendron philippinense Merr., PJS 4 c (1909) Bot. 279. --Type: Everett 7282 (K, lecto; isolecto in US*). Negros: Himugaan River, 1907.

Philippines, Moluccas (Halmaheira). LUZON: Ilocos Norte, Cagayan, Isabela, Pangasinan, Zambales, Quezon, Laguna, Camarines Sur, CALAMIANES, PALAWAN, SIBUYAN, MASBATE, PANAY, NEGROS, BILIRAN, LEYTE, SAMAR, MINDANAO: Surigao del Sur, DINAGAT. Primary and secondary lowland forests, altitude 80-450m. Flowering Apr-Aug; fruiting Jan-Jun; Aug, Oct, Dec.

Baccaurea tetrandra (Baill.) Muell.-Arg. in DC, Prodr. 15, 2 (1866) 465; --Merr., EPFP 2 (1923) 411; --Fernando, Kalikasan, Philip. J. Biol. 8 (1979) 307, Fig. 4; --Airy Shaw, Alfab. Enum. Euphorb. Philip. (1983) 10; --Haegens, Blumea Suppl. 12 (2000) 185, Fig. 3.26, Map 3.41, Photo 12. --Type: Cuming 982 (L, lecto, chosen by Haegens, 2000; isolecto: NY*, P, US). Philippines.

Baccaurea terminalifolia Elmer, LPB 4 (1911) 1277. --Type: Elmer 13089 (DS, lecto, chosen by Haegens, 2000; isolecto in GH, K, L, MO*, NA*, NY* (2 sheets), US*). Palawan: Puerto Princesa, Mt Pulgar (=Thumb Peak),

Borneo, Philippines, Sulawesi, Moluccas (Halmahera). LUZON: Apayao, Cagayan, Zambales, Bataan, Laguna, Quezon, Camarines Sur, Sorsogon, PALAWAN, PANAY, NEGROS, LEYTE, SAMAR, MINDANAO: Zamboanga, Cotabato, Davao, Surigao. Primary and secondary lowland and medium altitude forests, also swamp forests.

Breynia JR & G Forster

Breynia cernua (Poir.) Muell.-Arg. *in* DC, Prodr. 15² (1866) 439; --Merr., Fl. Manila (1912) 286; EPFP 2 (1923) 404; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 10.

Java, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea and Australia. BATAN and N LUZON to PALAWAN and MINDANAO. Common in thickets at low and medium altitudes ascending to 1500m.

Breynia racemosa (Blume) Muell.-Arg. *in* DC, Prodr. 15, 2 (1866) 441; --Airy Shaw, Euph. Born. (1975) 62; Alfab. Enum. Euph. Philip. (1983) 10.

Breynia acuminata (Muell.-Arg.) Muell.-Arg. *in* DC, Prodr. 15² (1866) 442; --Merr., EPFP 2 (1923) 404. Sumatra, Java, Borneo, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea.

LUZON (Cagayan to Laguna, common), MINDORO, NEGROS, LEYTE, SAMAR. In thickets and forests at low and medium altitudes, ascending to 1200m.

Breynia vitis-idaea (Burm.f.) CEC Fischer, Bull. Misc. Inf. Kew (1932) 65; --Airy Shaw, Kew Bull. 26 (1971) 227; Alfab. Enum. Euph. Philip. (1983) 11.

Breynia rhamnoides (Retz.) Muell.-Arg. *in* DC, Prodr. 15, 2 (1866) 440; --Merr., Fl. Manila (1912) 286; EPFP 2 (1923) 404.

India to China, Thailand, Sumatra, Peninsular Malaysia, Philippines, Sulawesi, Java, Lesser Sunda Isls, Moluccas, New Guinea and Australia.

BATAN and N LUZON to PALAWAN and MINDANAO. Common in thickets at low and medium altitudes ascending to 1500m. (Merr 2:404) (*B. rhamnoides*)

Bridelia Willdenow

Revision:

Dressler, S. 1996. *The genus Bridelia (Euphorbiaceae) in Malesia and Indochina - A regional revision*. Blumea 41: 263-331.

Bridelia glauca Blume, Bijdr. (1825) 597; --Jabl. *in* Engl., Pflanzenreich IV.147.viii (1915) 74; --Merr., EPFP 2 (1923) 423; --Salvosa, Lex. Philip. Trees (1963) 89; --Backer & Bakh.f., Fl. Java 1 (1964) 475, *in* clavi; --Airy Shaw, Kew Bull. Add. Ser. 4 (1975) 64; Kew Bull. Add. Ser. 8 (1980) 43; --Airy Shaw, Kew Bull. 36 (1981) 273; Kew Bull. 37 (1982) 10; Enum. Euphorb. Philip. Isl. (1983) 11; --S Dressler, Kew Bull. 51 (1996) 606, Map 3; Blumea 41 (1996) 311, Fig. 4, Map 10. --(Lecto)Type from Java.

Bridelia lauraefolia Elmer, LPB 7 (1915) 2637. --Type: Wenzel 411 (BM, lecto, designated by S Dressler, 1996; isolecto: GH). Leyte: Dagami, 8 September 1913.

Bridelia glauca forma *laurifolia* Jabl. *in* Engl., Pflanzenreich 65 (1915) 75; --Merr., EPFP 2 (1923) 423. -- Type: FB 18195 Curran (K, NY*, US*). Luzon: Benguet prov., Mt Pulag.

Cleistanthus myrianthoides C Robinson, PJS 6 c (1911) Bot. 325. --Type: FB 10679 Curran (US, iso). Luzon: Camarines Sur prov., Caramoan, San Roque.

Bridelia lauraefolia Elmer, LPB 7 (1915) 2637. --- Lectotype (S.Dressler, 1996): Wenzel 411 (BM holo; GH, iso). Leyte: Leyte prov., Dagami.

Bridelia glauca Blume forma *laurifolia* Jabl. *in* Engl., Pflanzenreich IV.147.viii (22 June 1915) 75; --Salvosa, Lex. Philip. Trees (1963) 89. ---Lectotype (S.Dressler, 1996): FB 18195 Curran, Merritt & Zschokke (L holo; K, NY iso). Luzon : Benguet prov., Mt Pulog (=Mt Pulag).

var. *glauca*

India, Bhutan, Sikkim, Burma, Thailand, Laos, Taiwan, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines (not found on Palawan), Sulawesi, Moluccas (Talaud Is, Morotai, Halmahera, Obi, Bacan, Taliaboe Is, Ambon, Seram), New Guinea, Bismarck Archipelago (New Britain). In (sometimes disturbed) primary and secondary forests, often near rivers, reported on well-drained volcanic as well as from sandy, loamy, or clayey soil; over sandstone, limestone, grey schists, or granite; scattered to common, up

to 1500m.

var. acuminatissima (Merr.) S Dressler, *Blumea* 41 (1996) 314; --*Bridelia acuminatissima* Merr., *PJS* 9 c (1914) Bot. 473; *EPFP* 2 (1923) 422; --Airy Shaw, *Alphab. Enum. Euph. Philip.* (1983) 11. --Type: Philip. Pl. 1551 Ramos (iso in A, BM, L, NY, SING). Luzon: Camarines Sur prov., Mt Isarog, along streams in forests, 25 Nov 1913.

LUZON: Camarines Sur (Mt Isarog).

Bridelia insulana Hance, *J. Bot.* 15 (1877) 337; *Jabl. in Engl., Pflanzenreich IV.147.viii* (1915) 63; --S Dressler, *Kew Bull.* 51 (1996) 605, 606, Map 3; *Blumea* 41 (1996) 315, Map 11. --Type from Phukok Is, S Vietnam.

Bridelia penangiana Hook.f., *Fl. Brit. Ind.* 5 (1887) 272; --*Jabl. in Engl., Pflanzenreich IV.147.viii* (1915) 75; --Airy Shaw, *Kew Bull.* 26 (1972) 229; *Kew Bull. Add. Ser.* 8 (1980) 44; *Kew Bull.* 35 (1980) 602; *Muelleria* 4 (1980) 223; Airy Shaw, *Kew Bull.* 36 (1981) 273; *Kew Bull.* 37 (1982) 11; --Whitmore, *Tree Fl. Malaya* 2 (1973) 75, *in clavi*; --Airy Shaw, *Alphab. Enum. Euph. Philip.* (1983) 11; --Type from Penang, Malaysia.

Bridelia minutiflora Hook.f., *Fl. Brit. Ind.* 5 (1887) 273; --*Jabl. in Engl., Pflanzenreich IV.147.viii* (1915) 76; --Merr., *EPFP* 2 (1923) 423; Holthuis & HJ Lam, *Blumea* 5 (1942) 200; --Salvosa, *Lex. Philip. Trees* (1963) 89; --Backer & Bakh. f., *Fl. Java* 1 (1964) 475, *in clavi*. --Type from Tenasserim, Burma.

Bridelia ovata Merr., *Philip. Bur. For. Bull.* 1 (1903) 30 (sec. Merrill, 1923), auct. non Decne.

Bridelia platyphylla Merr., *PJS* 7 c (1912) Bot. 384. --Type: FB 11167 Aguilar (US, type fragment). Luzon: Bulacan prov., Angat.

Burma, Thailand, Indochina, Nicobar Isls, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Palau Isls, Lesser Sunda Isls (Bali, Flores, Sumbawa), Moluccas (Morotai), New Guinea, Bougainville, Solomon Isls, Sta Cruz Group, New Hebrides (Espirito Santo), Reef Is, Malalaika, Guadalcanal/San Cristobal, Choiseul, New Georgia Group, NE Australia (Queensland). LUZON: Cagayan, **Tayabas**, Laguna, Batangas, Camarines, PALAWAN, TABLAS, LEYTE, MINDANAO: Zamboanga, Misamis, Cotabato, SULU ARCHIPELAGO. Primary and secondary rainforests, often along rivers, but also on dry land, sandy to loamy or clayey soil, or on limestone, 0-1500m.

var. insulana

Bridelia pustulata Hook.f., *Fl. Brit. Ind.* 5 (1887) 271; --*Jabl. in Engl., Pflanzenreich IV.147.viii* (1915) 74; --Airy Shaw, *Kew Bull.* 23 (1969) 67; --Whitmore, *Tree Fl. Malaya* 2 (1973) 74, *in clavi*; --Whitmore, *Tree Fl. Malaya* 2 (1973) 74, *in clavi*; --Airy Shaw, *Kew Bull. Add. Ser.* 4 (1975) 64; *Kew Bull.* 36 (1981) 274; --S Dressler, *Blumea* 41 (1996) 320, Fig. 5, Map 12. --Type from Malacca.

Sumatra, Peninsular Malaysia, Borneo, and the Philippines. Primary forests, 0-350m.

LUZON: Cagayan, Laguna, LEYTE, SAMAR, MINDANAO: Davao.

Bridelia stipularis (L.) Blume, *Bijdr.* (1825) 597; --Fern.-Villar in Blanco, *Fl. Philipp.*, ed. 3, Nov. App. 4 (1880) 186; --Vidal, *Sinopsis Atlas* (1883) 38, t. 82, Fig. F; Phan. Cuming. *Philip.* (1885) 141; *Rev. Pl. Vasc. Filip.* (1886) 233; --Merr., *PJS* 1, *Suppl.* (1906) 78; *Fl. Manila* (1912) 284; *Sp. Blancoanae* (1918) 220; *EPFP* 2 (1923) 424; --FC Gates, *PJS* 9 c (1914) Bot. 426; --Corner, *Wayside Trees Malaya*, ed. 3, 1 (1988) 279; --Backer & Bakh. f., *Fl. Java* 1 (1964) 475; --Airy Shaw, *Kew Bull.* 26 (1972) 230; *Kew Bull., Add. Ser.* 4 (1975) 65; *Kew Bull.* 36 (1981) 274; *Kew Bull.* 37 (1982) 11; *Alphab. Enum. Euph. Philip.* (1983) 11; --Whitmore, *Tree Fl. Malaya* 2 (1973) 74, *in clavi*; --S Dressler, *Blumea* 41 (1996) 2, Fig. 1, Map 5; --Clutia *stipularis* L., *Mant. Pl.* (1767) 127; --Blanco, *Fl. Filip.* (1837) 818; ed. 2. (1845) 564, ed. 3, 3 (1879) 229 (as *Clutya*). --Type:

Bridelia stipularis ssp. *philippinensis* *Jabl. in Engl., Pflanzenreich IV.147.viii* (1915) 57. --Lectotype: (S Dressler, 1996): FB 1884 Ahern's collector (US, holo; iso in BO, K, NY). Luzon: Rizal prov., Bosoboso.

Sri Lanka, India, Nepal, SE Asia mainland, Sumatra, Peninsular Malaysia, Java, N Borneo, Philippines, Lesser Sunda Islands (Bali, Lombok, Sumba, Flores, Alor, Timor). LUZON: Cagayan to Laguna and Quezon, common; MINDORO, PALAWAN, TICAO, PANAY, CEBU, BOHOL. Apparently unknown from MINDANAO. Primary and secondary forests, often near wet places (rivers, swamps, seashore, mangrove); mostly reported

from sandy soil, but also from limestone or loamy soil above igneous rocks. Alt. 0 to 400(–1100) m.

Bridelia tomentosa Blume, Bijdr. (1826) 597; --Fern.-Villar in Blanco, Fl. Filip., ed. 3, Nov. App. 4 (1880) 186; --Jabl. in Engl., Pflanzenreich IV.147.viii (1915) 58, Fig.11A; --Corner, Wayside Trees Malaya, ed. 1 (1940) 243, ed. 2, 1 (1951) 243, Fig.72; ed. 3, 1 (1988) 280, Fig. 78; --Airy Shaw, Kew Bull. 26 (1972) 231; Kew Bull. Add. Ser. 4 (1975) 65; Kew Bull. 31 (1976) 382; --Hsieh, Fl. Taiwan 3 (1977) 452; ed. 2, 3 (1993) 430; --Airy Shaw, Kew Bull. Add. Ser. 8 (1980) 45; Kew Bull. 35 (1980) 602; Muellera 4 (1980) 223; Kew Bull. 36 (1981) 274; Kew Bull. 37 (1982) 11; Alphab. Enum. Euphorb. Philip. Isl. (1983) 11; --S Dressler, Kew Bull. 51 (1996) 607, Map 2; Blumea 41 (1996) 297, Fig. 2, Map 6. --(Lecto)type from Java.

Bridelia monoica Merr., PJS 13 c (1918) Bot. 142, *vix* *Clusia monoica* Lour. (sec. Corner, 1939: 291 f.); 475, *in clavi*; --Airy Shaw, Kew Bull. 26 (1972) 228, 231, *in clavi*; --Whitmore, Tree Fl. Malaya 2 (1973) 74, *in clavi*.

EPFP 2 (1923) 423; --

var. tomentosa

India (Madras, Bengal, Assam-Khasi Hills, Bihar, Orissa), E Nepal, Sikkim, S China, Hainan, Taiwan, Burma, Indochina, Thailand, Andaman Isls (Middle and South) and Nicobar Isls, Sumatra, Peninsular Malaysia, Java, Borneo (SE Kalimantan), Philippines (unknown from Mindanao), Sulawesi, Lesser Sunda Isls (Sumbawa, Sumba, Flores, Alor, Timor), Moluccas (Tanimbar & Kei Is.), New Guinea, N Australia; common throughout its range, but rare in Borneo.

Deciduous to evergreen forests, primary to secondary vegetation; reported from sandy or loamy soil, limestone, and over granite bedrocks. Alt. 0-1000 m.

var. glabrescens Benth. *in* Hook. J. Bot. Kew Gard. Misc. 6 (1854) 8; S Dressler, Blumea 41 (1996) 302. --Type from Hongkong.

Bridelia tomentosa Blume var. *glabrifolia* (Merr.) Airy Shaw, Kew Bull. 31 (1976) 383; Kew Bull. 35 (1980) 603; Alphab. Enum. Euph. Philip. (1983) 11. --*Bridelia glabrifolia* Merr., EPFP 2 (1923) 422. -- *Salvosa*, Lex. Philip. Trees (1963) 88.

Bridelia tomentosa Blume var. *lanceaefolia* sec. Muell.-Arg. *in* DC., Prodr. 15, 2 (1866) 502 (*non* *Bridelia lanceaefolia* Roxb.). --*Bridelia lancaefolia* sec. Jabl. *in* Engl., Pflanzenreich IV.147.viii (1915) 60, (*non* *Bridelia lanceaefolia* Roxb.). --Lectotype (Airy Shaw, 1980): Gaudichaud s.n. (G-DC; IDC microfiche Candolle Prodromi Herbarium 2510.20), Philippines, Manila.

Note – The first description of a glabrous form of *B. tomentosa* has unfortunately been overlooked, so that the commonly known name (*var. glabrifolia*) has to be changed to *var. glabrescens*. The type could not be traced in Kew.

Distribution and habitat as with the preceding.

Glochidion JR & G Forster

Glochidion album (Blanco) Boerl., Handl. Fl. Nederl. Ind. 3 (1900) 275; --Merr., EPFP 2 (1923) 397; --Type: Taiwan; Philippines and Sulawesi. LUZON (Cagayan to Sorsogon), MINDORO, PANAY, LEYTE, SAMAR, SIARGAO, DINAGAT, MINDANAO. In primary forests at low and medium altitudes ascending to 1200m.

Glochidion angulatum C Robinson, PJS 4 c (1909) Bot. 91; --Merr., EPFP 2 (1923) 397. --Type: FB 9487 Whitford & Hutchinson

Sumatra, Borneo, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea. PANAY, LEYTE, BASILAN, MINDANAO: Zamboanga, Lanao del Sur, Davao. Low altitude thickets and forests.

Glochidion benguetense Elmer, LPB 1 (1908) 304; --Merr., EPFP 2 (1923) 398. --Type: Elmer 8770 LUZON: Mountain Province, Benguet, Nueva Ecija, Quezon, Laguna. Forests and forested ravines, altitude 600-1400m.

Glochidion brachystylum Merr., PJS 16 (1920) 543; EPFP 2 (1923) 398. –Type: BS 31374 Ramos & Edaña

PANAY: Capiz (Jamindan). Forest along small streams at low or medium altitudes.

Glochidion cagayanense C Robinson, PJS 6 c (1911) Bot. 328; --Merr., EPFP 2 (1923) 398. –
Type: BS 7390 Ramos

LUZON: Cagayan. In forests at low altitudes.

Glochidion camiguinense Merr., PJS 3 c (1908) 414; --C Robinson, PJS 4 c (1909) 100; --Merr.,
EPFP 2 (1923) 398. –Type: BS 4108 Fenix (US*, iso). Camiguin de Babuyan, 21 June 1907.

CAMIGUIN DE BABUYANES. On slopes.

Glochidion canescens Elmer, LPB 8 (1919) 3082; --Merr., EPFP 2 (1923) 398. –Type: FB 25397
Mabesa (US*, iso). Luzon: Laguna prov.,

Philippines, Sulawesi, Lesser Sunda Isls, Moluccas.

LUZON: Laguna. Low wet places along the lakeshore of Laguna de Bay.

Glochidion cauliflorum Merr., PJS 16 (1920) 545; EPFP 2 (1923) 398. –Type: FB 25183 Alvarez
(not seen). Mindanao: Lanao District, near Camp Vickers, in dipterocarp forests, altitude c. 900m,
17 Mar 1916.

LEYTE: Leyte (Dagami, Mt Burau), MINDANAO: Zamboanga, Lanao. Medium altitude
primary forests.

Glochidion cenabrei Merr., PJS 26 (1925) 463; EPFP 4 (1925) 248. –Type: FB 29174 Cenabre
(US*, iso). Palawan: Palawan prov., Puerto Princesa, Feb 1923.

PALAWAN. Low altitude forests.

Glochidion coronulatum C Robinson, PJS 4 c (1909) Bot. 94; --Merr., EPFP 2 (1923) 398. –
Type: FB 13937 Merritt & Darling (not seen).

Glochidion balsahanense Elmer, LPB 4 (1911) 1289. –Type: Elmer 12856 (MO*, NY*, US*, iso). Palawan:
Palawan prov., Puerto Princesa, 'gravelly soil of the densely wooded banks of the Balsahan River',
altitude c. 250ft [=76m], Mar 1911.

LUZON: Ilocos Norte, Abra, Benguet, Cagayan, Nueva Ecija, PALAWAN, LEYTE. Low
altitude second-growth forests.

Glochidion curranii C Robinson, PJS 4 c (1909) Bot. 102; --Merr., EPFP 2 (1923) 398. –Type: FB
3502 Curran (NY*, iso). Palawan: Palawan prov., Puerto Princesa & vicinity, Jan 1906.

CULION, PALAWAN. Low altitude thickets.

Glochidion dolichostylum Merr., PJS 9 c (1914) 483; EPFP 2 (1923) 399. –Type: Merrill 9408
PALAWAN. Low altitude forests.

Glochidion falcatilimum Merr., PJS 16 (1920) 542; EPFP 2 (1923) 399. –Type: FB 30056 Fenix
(P*).

LUZON: Pangasinan. Open slopes, altitude c. 60m.

Glochidion gigantifolium (Vidal) Merr., EPFP 2 (1923) 399. –Type: FB 3374 Ahern's Collector.
LUZON: Ilocos Norte, Ifugao, Pangasinan, Zambales, Bataan, Rizal, Laguna, Quezon,
NEGROS, MINDANAO: Zamboanga. Low and medium altitude primary forests.

Glochidion glaucescens Merr., PJS 8 c (1913) 381; EPFP 2 (1923) 399. –Type: Wenzel 188.
LEYTE. Low altitude forests.

Glochidion humile Merr., PJS 16 (1920) 544; EPFP 2 (1923) 399. –Type: BS 26112 Fenix.
MINDANAO: Bukidnon. Open grasslands, medium altitudes.

Glochidion lancilimum Merr., PJS 26 (1925) 462; EPFP 4 (1925) 248. –Type: BS 37012
Ramos & Edaño. MINDANAO: Zamboanga.
Borneo, Philippines, New Guinea.
MINDANAO: Zamboanga. Low altitude secondary forests.

Glochidion latistylum C Robinson, PJS 4 c (1909) Bot. 93; --Merr., EPFP 2 (1923) 399. –Type:
Clemens 340.
MINDANAO: Lanao del Sur. On slopes, altitude c. 800m.

Glochidion ligulatum C Robinson, PJS 6 c (1911) Bot. 329; --Merr., EPFP 2 (1923) 399. –Type:
BS 7746 Ramos.
LUZON: Ilocos Norte. In forests.

Glochidion littorale Blume, Bijdr. (1825) 585; --Merr., EPFP 2 (1923) 399.
Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Lesser Sunda
Isls. LUZON: Quezon, POLILLO, MINDORO, PALAWAN, PANAY, LEYTE, JOLO,
MINDANAO. Coastal thickets and along tidal streams.

Glochidion longistylum C Robinson, PJS 4 c (1909) Bot. 96; --Merr., EPFP 2 (1923) 400. –Type:
BS 5057 Ramos.
LUZON: Zambales. Low altitudes.

Glochidion lucidum Blume, Bijdr. (1825) 584; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 29;
Sumatra, Peninsular Malaysia, Java, the Philippines, Sulawesi, Moluccas, New Guinea.

Glochidion lutescens Blume, Bijdr. (1825) 585; --Airy Shaw, Alfab. Enum. Euph. Philip. (1983) 29;
Glochidion breynioides C Robinson, PJS 4 c (1909) Bot. 95; --Merr., EPFP 2 (1923) 398. –Type:
S China, SE Asia and Malesia: Sumatra, Java, Borneo, Moluccas, Philippines, Sulawesi,
Lesser Sunda Isls, Moluccas, New Guinea. LUZON: Ilocos Norte, Ilocos Sur, Cagayan,
Pangasinan, Bataan, Rizal, Laguna, Camarines, Sorsogon, MINDORO, PALAWAN,
NEGROS, LEYTE, DINAGAT. In forests, ascending to 1300m.

Glochidion luzonense Elmer, LPB 1 (1908) 301; --Merr., EPFP 2 (1923) 400. –Type:
Sumatra and the Philippines.
LUZON Ilocos Norte, Ilocos Sur, Mountain Province, Benguet, Nueva Vizcaya, La Union,
Pangasinan, Nueva Ecija, Tarlac, Zambales, Rizal, Bataan, Laguna. In forested ravines
at low and medium altitudes ascending to 1400m.

Glochidion malindangense Merr. ex C Robinson, PJS 4 c (1909) Bot. 101; --Merr., EPFP 2
(1923) 400. –Type: FB 4696 Mearns & Hutchinson.
MINDANAO: Misamis Occidental. Forests, altitude c. 1600m.

Glochidion merrillii C Robinson, PJS 4 c (1909) Bot. 100; --Merr., EPFP 2 (1923) 400. –Type: RS
Williams 1356.
LUZON: Benguet, Laguna (Mt Banahaw). Montane forests, altitude 1500-2000m.

Glochidion mindoreense C Robinson, PJS 4 c (1909) Bot. 98; --Merr., EPFP 2 (1923) 401. –Type:
FB 12031 Merritt.

Borneo, Philippines, Lesser Sunda Isls, Moluccas.
LUZON: Quezon, POLILLO, MINDORO, PALAWAN, LEYTE, SAMAR. Low altitude thickets and forests.

Glochidion molle Blume, Bijdr. (1825) 586; --Merr., EPFP 2 (1923) 401.

Java, Borneo, Philippines, Sulawesi, Moluccas.

PALAWAN, JOLO, BASILAN, MINDANAO: Zamboanga, Lanao, Davao del Sur (Mt Apo). Low altitude thickets and forests.

Glochidion nitidum Merr., PJS 9 c (1914) Bot. 483; EPFP 2 (1923) 401. --Type:

Borneo and the Philippines.

LUZON: Laguna, Quezon, Camarines, POLILLO, SAMAR. Forested slopes at low and medium altitudes.

Glochidion palawanense Elmer, LPB 4 (1911) 1290; --Merr., EPFP 2 (1923) 401. --Type: Elmer 12804

PALAWAN. Forests along streams, altitude c. 150m.

Glochidion philippicum (Cav.) C Robinson, PJS 4 c (1909) Bot. 103; --Merr., EPFP 2 (1923) 401. --Type:

Taiwan to Sumatra, Borneo, Java, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, and New Guinea.

N LUZON (Cagayan) to MINDANAO and PALAWAN. Common in thickets and forested ravines at low and medium altitudes.

Glochidion phyllanthoides Merr., PJS 16 (1920) 541; EPFP 2 (1923) 402. --Type:

LUZON: Batangas. Dry slopes at low altitudes

Glochidion psidioides C Robinson, PJS 4 c (1909) Bot. 92; --Merr., EPFP 2 (1923) 402. --Type:

LUZON: Abra, Mountain Province, Benguet, La Union, Nueva Vizcaya. In thickets on ridges and about boulders and ledges, altitude 1200-2000m.

Glochidion pubicapsa Airy Shaw, Euphorb. Born. (1975) 130; Alphab. Enum. Euph. Philip. (1983) 31.

Glochidion pubicarpum Elmer, LPB 10 (1939) 3733, invalid name, no Latin descr.

Sumatra, Borneo, and the Philippines.

Glochidion pulgarens Elmer, LPB 4 (1911) 1291; --Merr., EPFP 2 (1923) 402. --Type: Elmer

13215 (L*, MO*, NY*, US*, iso). Palawan: Palawan prov., Puerto Princesa, low rigid shrub on summit of Mt Pulgar (=Thumb Peak), altitude c. 1300m, May 1911.

PALAWAN: Mt Pulgar (=Thumb's Peak). Exposed ridges, altitude c. 1300m.

Glochidion reticulatum Elmer, LPB 1 (1908) 302; --Merr., EPFP 2 (1923) 402. --Type: Elmer 8188

(not seen). Luzon: Laguna prov., Los Baños, Apr 1906.

LUZON: Laguna, Cavite. Low altitude thickets.

Glochidion robinsonii Elmer, LPB 7 (1915) 2643; --Merr., EPFP 2 (1923) 402. --Type:

LUZON: Apayao, Benguet, Rizal, Laguna, Sorsogon, PANAY, LEYTE, MINDANAO:

Cotabato, Agusan, Davao. Low and medium altitude thickets and second-growth forests.

Glochidion rubrum Blume, Bijdr. (1825) 586; --Merr., Fl. Manila (1912) 286; EPFP 2 (1923) 402.

Thailand, Sumatra, Peninsular Malaysia, Java, Borneo and the Philippines.

N LUZON to
PALAWAN and MINDANAO. In thickets and secondary forests at low and medium
altitudes.

Glochidion subfalcatum Elmer, LPB 1 (1908) 305; --Merr., EPFP 2 (1923) 402. --Type: Elmer 8915
(A*, NY*, US*, iso). Luzon: Benguet prov., Baguio, open dry hot ridge west of Sablan Falls, Mar
1907.

LUZON: Benguet, Pangasinan. Dry ridges at medium altitudes.

Glochidion triandrum (Blanco) C Robinson, PJS 4 c (1909) Bot. 92; --Merr., Sp. Blancoanae
(1918) 217; EPFP 2 (1923) 403; --Kirganelia triandra Blanco, Fl. Filip. (1837) 711; ed. 2 (1845)
492;
ed. 3, 3 (1879) 115. --Type: Not extant. "Illustrative specimen" (Merr., 1918): Merrill Sp. Blancoanae
309, leg. M. Ramos (US*). Luzon: Camarines Sur prov., foot of Mt Isarog, altitude c. 80m, 18 Nov
1913.

LUZON: Cagayan, Benguet, Zambales, Bataan, Quezon, Pampanga, Rizal, Laguna,
Camarines Sur, Albay, POLILLO, MINDORO, SIBUYAN, NEGROS, GUIMARAS,
BILIRAN. In thickets and forests at low and medium altitudes. (Merr 2:403)

Glochidion trichogynum Muell.-Arg., Linnaea 32 (1863) 66; --Merr., EPFP 2 (1923) 403; --
Type: Cuming 1610 (not seen). Mindanao: Misamis prov.

LUZON: Quezon, Camarines, MINDORO: Mindoro Oriental (Baco; Pola; Bongabong
River), PALAWAN (Thumb Peak), LEYTE, MINDANAO: Zamboanga (Sax River),
Zamboanga del Sur (Port Banga), Misamis, Lanao del Sur (Camp Keithley), Davao. Low
and medium altitude forests.

Glochidion trichophorum Merr., PJS 9 c (1914) Bot. 484; EPFP 2 (1923) 403. --Type: BS 20831
Escritor (US*, iso). Luzon: Quezon prov., Mt Cadig, near Guinayangan, in forests, 7 Mar 1913.

LUZON: Quezon, Camarines. Lowland forests along small streams.

Glochidion urophyloides Elmer, LPB 1 (1908) 300; --Merr., EPFP 2 (1923) 403.
Glochidion lanceifolium ('lanci-') C Robinson, PJS 4 c (1909) Bot. 90; --Merr., EPFP 2 (1923) 399. --Type:
BATAN, LUZON: Benguet, Cagayan, Isabela, Rizal to Camarines, POLILLO,
MINDORO, PANAY, LEYTE, MINDANAO: Davao, BASILAN. In forests and forested
ravines at low and medium altitudes

Glochidion weberi C Robinson, PJS 6 c (1911) Bot. 330; --Merr., EPFP 2 (1923) 403. --Type:
MINDANAO: Lanao, Davao, Agusan del Norte. Forests along streams, altitude up to
500m.

Glochidion williamsii C Robinson, PJS 3 c (1908) Bot. 199 (*excl. descr. capsulae*); PJS 4 c (1909)
Bot. 95 (*descr. capsulae*); --Merr., EPFP 2 (1923) 400. --Type:
LUZON: Mountain Province, Benguet, Zambales, Bataan, Laguna. Forested ravines and
on ridges, altitude 1000-1500m.

Glochidion wisselense Airy Shaw, Kew Bull. 27 (1972) 38. --Type from New Guinea.
Philippines, Lesser Sunda Isls, New Guinea.

Glochidion woodii Merr., PJS 26 (1925) 465; EPFP 4 (1925) 249. --Type:
MINDANAO: Zamboanga, Misamis, Lanao del Sur, Davao. In thickets.

Glochidion xerocarpum (O Schwarz) Airy Shaw, Muellera 4 (1980) 212; Alphab. Enum.
Euph. Philip. (1983) 32.

Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea.

Margaritaria Linnaeus *filius*

Margaritaria indica (Dalz.) Airy Shaw, Kew Bull. 20 (1966) 387; Euph. Born. (1975) 175; -- 52; --Merr., EPFP 2 (1923) 392; --Prosorus indicus Dalz. in Hook., Kew J. Bot. 4 (1852) 346. Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Moluccas, New Guinea. LUZON: Cagayan, Camarines Sur (Mapid), PALAWAN (Aborlan), MINDANAO: Agusan (Tipgon River). Low altitude primary forests.

Webster, J. Arnold Arb

Margaritaria luzoniensis (Merr.) Airy Shaw, Kew Bull. 20 (1966) 387; Kew Bull. 25 (1971) 492; --Webster, J. Arnold Arb. 60 (1979) 424; --Phyllanthus luzoniensis Merr., PJS 7 c (1912) Bot. 404; EPFP 2 (1923) 393. LUZON: Pangasinan, Nueva Ecija, Pampanga, Bataan, Cavite, Batangas. Dry slopes at low altitudes.

Phyllanthus Linnaeus

Phyllanthus acidus (L.) Skeels, US Dept. Agr. Bur. Pl. Ind. Bull. 148 (1909) 17. *Cicca acida* (L.) Merr., Interpret. Herb. Amb. (1917) 314; EPFP 2 (1923) 396. *Cicca disticha* L., Mant. 1 (1767) 124; --Merr., Fl. Manila (1912) 396. India, Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Moluccas, to Polynesia, common in cultivation. Where native is not certain. Of prehistoric introduction to the Philippines from Malaya, widely grown in the archipelago on account of its acid edible fruits.

Phyllanthus amarus Schumach. & Thonn., Kongl. Danske Vidensk. Selsk. Skr. 4 (1829) 195. *Phyllanthus niruri* Merr., PJS 1 (1906) Suppl. 75; Fl. Manila (1912) 284; EPFP 2 (1923) 394, *non* L (1753). Pantropic, but probably introduced in the Neotropics. Throughout the Philippines. A common weed at low and medium altitudes.

Phyllanthus anisophyllaeoides Merr., PJS 26 (1925) 465; EPFP 4 (1925) 249. --Type: BS 40585 Ramos & Edaño (L*, US*, iso). Mindoro: Mindoro Oriental prov., Mt Halcon, Mar 1922. MINDORO: Mindoro Oriental (Mt Halcon). In forests, altitude 1000m.

Phyllanthus apiculatus Merr., PJS 16 (1920) 540; EPFP 2 (1923) 391. --Type: BS 33813 Ramos & Edaño (US*, iso). Luzon: Camarines Norte prov., Paracale, damp forests at low altitude, 29 Nov 1919. LUZON: Camarines Norte (Paracale). Lowland forests.

Phyllanthus balgooyi Petra Hoffm. & AJM Baker, Blumea 48 (2003) 195. --Type: PNH 178 Edaño (K, holo; iso L). Palawan: Puerto Princesa, Bacungan. Borneo (Sabah) and Philippines. PALAWAN, restricted to ultramafics, in scrub or very stunted open forests, 150-200m. Sometimes locally common (Mt Bloomfield). In Sabah at 600-1000m.

Phyllanthus benguetensis C Robinson, PJS 4 c (1909) Bot. 78; --Merr., EPFP 2 (1923) 391. --Type: RS Williams 966 (not seen). LUZON: Mountain Province, Benguet. Dry open banks, altitude 1200-1600m.

Phyllanthus blancoanus Muell.-Arg., Linnaea 32 (1863) 49; --Merr., EPFP 2 (1923) 391. --Type:

Not extant. "Illustrative specimen": Merrill Sp. Blancoanae 160

LUZON: Pangasinan, Pampanga, Bataan, Rizal. Forested slopes and ridges, altitude 600-1000m.

Phyllanthus buxifolius (Blume) Muell.-Arg., *Linnaea* 32 (1863) 50; --Merr., EPFP 2 (1923) 391. – Type:

Sumatra, Java, Borneo, Philippines, Lesser Sunda Isls.

LUZON: Pangasinan, Mountain Province, Benguet, Bataan, Rizal, Laguna, Quezon, ALABAT, CEBU, LEYTE. Lowland primary forests, usually along streams, in Benguet ascending to 1800m.

Phyllanthus caudatifolius Merr., *PJS* 30 (1926) 403. –Type: BS 43867 RC McGregor (NY*, iso). Samar: Loquilocon, Jun 1924.

SAMAR: Loquilocon.

Phyllanthus cordatulus C Robinson, *PJS* 4 c (1909) Bot. 76; --Merr., EPFP 2 (1923) 392. –Type: BS 5106 Ramos (US*, iso). Luzon: Zambales prov., 14 Dec 1907.

LUZON: Zambales.

Phyllanthus curranii C Robinson, *PJS* 4 c (1909) Bot. 77; --Merr., EPFP 2 (1923) 392. –Type: FB 10889

LUZON: Ilocos Norte, Cagayan, Nueva Vizcaya, Pampanga, Rizal. Primary forests, altitude 700-900m.

Phyllanthus dumosus C Robinson, *PJS* 4 c (1909) Bot. 79; --Merr., EPFP 2 (1923) 392. –Type: LUZON: Ilocos Norte. Exposed ridges, altitude c. 1100m.

Phyllanthus erythrotrichus C Robinson, *PJS* 4 c (1909) Bot. 80; --Merr., EPFP 2 (1923) 392. – Type:

LUZON: Ilocos Norte, Mountain Province, Benguet, Ifugao, Cagayan, Pampanga, Quezon, Rizal, PANAY. Open slopes at low altitudes, ascending to 1300m.

Phyllanthus everettii C Robinson, *PJS* 4 c (1909) Bot. 80; --Merr., EPFP 2 (1923) 392. –Type: FB 4301 Everett

LUZON: Nueva Vizcaya, Quezon, NEGROS. Forested stream banks, low and medium altitudes.

Phyllanthus glochidioides Elmer, *LPB* 4 (1911) 1302; --Merr., EPFP 2 (1923) 392. –Type: Elmer 13104

PALAWAN. Along streams in shaded ravines at low altitudes.

Phyllanthus greenei Elmer, *LPB* 3 (1910) 929; --Merr., EPFP 2 (1923) 392. –Type: Elmer 12399

LUZON: Batangas, SIBUYAN. In ravines about boulders, sea-level to c. 500m. Very local.

Phyllanthus laciniatus C Robinson, *PJS* 4 c (1909) Bot. 84; --Merr., EPFP 2 (1923) 393. –Type: LUZON: Quezon, Albay, BATAN (off Albay province not in Batanes Group of islands).

Lowland forests.

Phyllanthus lamprophyllus Muell.-Arg. in DC, *Prodr.* 15² (1866) 324; --Merr., EPFP 2 (1923) 393. –Type:

Java, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea.

PALAWAN. Along streams at low altitudes.

Phyllanthus lanceifolius ('lanci-') Merr., PJS 9 c (1914) 489; EPFP 2 (1923) 393. –Type: SIQUIJOR, SAMAR. On dry slopes.

Phyllanthus leytenis Elmer, LPB 1 (1906) 307; --Merr., EPFP 2 (1923) 393. –Type: Elmer 7267 LEYTE. Lowland forests.

Phyllanthus macgregorii C Robinson, PJS 6 c (1911) Bot. 334; --Merr., EPFP 2 (1923) 393. –Type: BS 10128 RC McGregor BABUYAN ISLS (DALUPIRI).

Phyllanthus megalanthus C Robinson, PJS 6 c (1911) Bot. 335; --Merr., EPFP 2 (1923) 393. –Type: LUZON: Ilocos Norte, Cagayan, Quezon. Lowland and medium altitude thickets and forests.

Phyllanthus mindorensis C Robinson, PJS 4 c (1909) Bot. 82; --Merr., EPFP 2 (1923) 394. –Type: Philippines, Sulawesi. LUZON: Nueva Vizcaya, Pampanga, Bulacan, Rizal, MINDORO. Primary forests up to 800m altitudes.

Phyllanthus panayensis Merr., PJS 16 (1920) 539; EPFP 2 (1923) 394. –Syntypes: BS 35655 Martelino & Edaño (L*, US*); & BS 35679 Martelino & Edaño (L*, US*). Panay: Capiz prov., Mt Bulilao, in forests near the summit, altitude c. 650m, 20 Jun 1919. Philippines, Sulawesi, Moluccas. PANAY: Capiz (Mt Bulilao). Medium altitude forests.

Phyllanthus ramosii Quisumb. & Merr., PJS 37 (1928) 160. –Type: LUZON: Isabela (Mt Moises, Palanan). Along forested streams, near sea level to c. 1400m.

Phyllanthus reticulatus Poir. *in* Lam., *Encycl.* 5 (1804) 298; --Merr., *Fl. Manila* (1912) 284; EPFP 2 (1923) 394. *Phyllanthus microcarpus* (Benth.) Muell.-Arg., *Linnaea* 32 (1863) 51; --Merr., EPFP 2 (1923) 393. India to S China and Taiwan, Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea. Throughout the Philippines, in lowland and medium altitude thickets, ascending to 1400m.

Phyllanthus robinsonii Merr., PJS 7 c (1912) Bot. 405; --Merr., EPFP 2 (1923) 395. –Type: BS 11058 Ramos CEBU. On dry slopes.

Phyllanthus rupicola Elmer, LPB 3 (1910) 927; --Merr., EPFP 2 (1923) 395. –Type: Elmer 12240 SIBUYAN, PANAY, CEBU. Shaded cliffs and on boulders along streams, altitude 100-225m.

Phyllanthus samarensis Muell.-Arg., *Linnaea* 34 (1865) 73; --Merr., EPFP 2 (1923) 395. –Type: Jagor *sn* (not seen). Philippines, Sulawesi. SAMAR. Damp ravines along streams at low altitudes.

Phyllanthus securinegoides ('-ioides') Merr., PJS 9 c (1914) 490; EPFP 2 (1923) 395. –Type: *Phyllanthus urdanetensis* Elmer, LPB 7 (1915) 2650. –Type: LUZON: Quezon, MINDANAO: Agusan del Norte. Lowland forests in Quezon, ascending to 1500m in Mindanao.

Phyllanthus sibuyanensis Elmer, LPB 3 (1910) 928; --Merr., EPFP 2 (1923) 395. –Type: Elmer 12113
SIBUYAN. Forested slopes along streams, altitude c. 225m.

Phyllanthus stipularis Merr., PJS 1 (1906) Suppl. 75; EPFP 2 (1923) 395. –Type: LUZON: Bataan (Mt Mariveles). Ridges and slopes in primary forest, altitude 500-900m.

Phyllanthus tenuipes C Robinson, PJS 4 c (1909) Bot. 78; --Merr., EPFP 2 (1923) 396. –Type: Merrill 4419.
LUZON: Benguet. On cliffs, ravines, and on banks, altitude 1200-1500m.

Phyllanthus triphlebius C Robinson, PJS 4 c (1909) Bot. 82; --Merr., EPFP 2 (1923) 396. –Type: LeRoy Topping 510
LUZON: Nueva Vizcaya, Rizal, Laguna, Quezon. On boulders and cliffs in shaded ravines along streams at low and medium altitudes.

Phyllanthus urinaria L., Sp. Pl. (1753) 982; --Merr., Fl. Manila (1912) 285; EPFP 2 (1923) 396.
Pantropic.
Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea.
Throughout the Philippines. A weed in open waste places at low and medium altitudes.

Phyllanthus virgatus G Forst., Fl. Ins. Austr. Prodr. (1786) 65.
Phyllanthus simplex Retz., Obs. 5 (1789) 29; --Merr., Fl. Manila (1912) 285; EPFP 2 (1923) 395.
Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Sulawesi, Lesser Sunda Isls, New Guinea.
Throughout the Philippines. Lowland and medium altitude grasslands, fallow rice paddies, etc. Common.

Non-naturalized:

Phyllanthus emblica L.

Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Moluccas.

Sauropus Blume

Revision:

Welzen, PC van. 2003. *Revision of the Malesian and Thai species of Sauropus (Euphorbiaceae: Phyllanthoideae)*. Blumea 48: 319-391.

Sauropus androgynus (L.) Merr., Bull. Bur. For. Philip. Is. 1 (1903) 30; EPFP 2 (1923) 405; --
Airy Shaw, Alfab. Enum. Euph., Philip. Is. (1883) 44; --Welzen, Blumea 48 (2003) 340, Map 3.
Sauropus scandens C Robinson, PJS 4 c (1909) Bot. 72; --Merr., EPFP 2 (1923) 405; --Airy Shaw, Alfab.
Enum. Euph., Philip. Is. (1983) 44.
India, Sri Lanka, Bangladesh?, Burma, Thailand, Laos, Cambodia, Vietnam, Sumatra, Peninsular Malaysia, Singapore, Java, Cocos Is, Christmas Is (Indian Ocean), Borneo,

Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea (Irian Jaya).
LUZON: Ilocos Sur, Nueva Ecija, Bataan, Camarines, MINDORO, LEYTE, SAMAR.
Lowland thickets, forests and forested ravines.

Sauropus bacciformis (L.) Airy Shaw, Kew Bull. Add. ser. 8 (1980) 221; --Welzen, Blumea 48 (2003) 345, Map 5.

Mauritius, Maldives, India, Sri Lanka, S China, SE Asia mainland, W Malesia: Peninsular Malaysia, Java, Borneo, Philippines, Lesser Sunda Isls (Timor).

Sauropus macranthus Hassk., Retzia 1(1855) 166; --Airy Shaw, Alfab. Enum. Euph., Philip. Is. (1983) 44; --Welzen, Blumea 48 (2003) 358, Fig. 3b; Map 12.

Sauropus robinsonii Merr., PJS 7 c (1912) Bot. 407; EPFP 2 (1923) 405. --Type: Elmer 6441 (PNH, holo, lost; iso: BM, K (2 sheets), L, P). Luzon: Benguet prov., Kias [=Baguio].

Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, New Guinea.
LUZON, MINDORO, CALAMIANES, PALAWAN, MINDANAO.

Sauropus rhamnoides Blume, Bijdr. (1825) 596; --Welzen, Blumea 48 (2003) 367, Fig. 1b-c, 3a, 8, Map 16.

India, Burma, SE and Peninsular Thailand, Cambodia, S Vietnam, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Lesser Sunda Isls (Sumbawa; Flores).

Sauropus villosus (Blanco) Merr., Contrib. Arn. Arb. 8 (1934) 86; --Airy Shaw, Alfab. Enum.

Euph., Philip. Is. (1883) 44; --Welzen, Blumea 48 (2003) 380, Map 21; --Kirganelia villosa Blanco, Fl. Filip. (1837) 712; ed. 2 (1845) 493; ed. 3 (1879) 116, t. 399; --Merr., Sp. Blancoanae (1918) 217. Neotype (Welzen, 2003): Merrill Sp. Blancoanae 931 (L, holo; isoneo: A, BM, K, NSW, NY, P, US). Luzon: Rizal prov.,

Glochidion llanosii Muell.-Arg., Linnaea 32 (1863) 68; --Merr., EPFP 2 (1923) 400.

SE and Peninsular Thailand, Vietnam (Annam), Sumatra, N Peninsular Malaysia, Philippines.

LUZON: Ilocos Norte, Pangasinan, Isabela, Nueva Ecija, Bulacan, Zambales, Bataan, Rizal, Laguna, Camarines, PANAY, BOHOL, SAMAR, MINDANAO: Bukidnon, Davao, Davao Oriental). Open forests at low altitudes. Fl. fr. Sept-Jun.

Securinega Commerson ex Jussieu

Securinega flexuosa (Muell.-Arg.) Muell.-Arg. in DC, Prodr. 15² (1866) 450; --Merr., EPFP 2 (1923) 390.

Philippines, Sulawesi, New Guinea. LUZON: Quezon, Camarines, Sorsogon, NEGROS, CEBU, BOHOL, LEYTE, SAMAR, CAMIGUIN, MINDANAO: Misamis, Bukidnon, Davao, Agusan, Surigao. Low altitude primary forests.

Securinega virosa (Roxb. ex Willd.) Baill., Étud. Gén. Euph. (1858) 593; Adansonia 6 (1866)

334, *excl. descr.*; --Airy Shaw, Euph. Born. (1975) 196.

Flueggea virosa (Roxb.) Baill., Étud. Gén. Euphorb. (1858) 593; --Merr., Fl. Manila (1912) 289; EPFP 2 (1923) 390.

Tropical Africa through India, China, Thailand, across Malesia (Sumatra to the Moluccas) to tropical Australia. Throughout the Philippines in dry thickets at low and medium altitudes. Common.

'New genus, combination B Esser' P L

