

Family 158. CELASTRACEAE (including HIPPOCRATEACEAE)

Revisions:

Ding Hou. 1962. *Celastraceae I*. Flora Malesiana series 1, 6: 227-291.
Treats Celastraceae sensu str.

Ding Hou. 1964. *Celastraceae II*. Flora Malesiana series 1,6: 389-421.
Treats Hippocrateaceae

1. *Bhesa* Hamilton ex Arnott

Bhesa paniculata (Wall.) Arn., Edinburgh Philos. J. 16 (1834) 315; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 282, Fig. 161-o; --Kurrimia paniculata Wall., Cat. (1831) No. 4336; --Merr., EPFP 2 (1923) 483.

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

LUZON: Cagayan, Isabela, Rizal, Quezon, Laguna, Camarines, Sorsogon, MINDORO, PANAY, NEGROS, LEYTE, SAMAR, JOLO, MINDANAO: Zamboanga, Agusan, Surigao, DINAGAT. Low to medium altitude primary and secondary forests.

2. *Cassine* Linnaeus

Cassine viburnifolia (Juss.) Ding Hou, Fl. Males. ser. 1, 6 (1962) 286, Fig. 18a-e, 19 (Map); --Elaeodendron viburnifolium (Juss.) Merr., PJS 16 (1920) 449, t. 1; EPFP 2 (1923) 484.

Andaman Isls, Thailand, NE Sumatra, Peninsular Malaysia, Singapore, Borneo, SW Philippines, C Sulawesi.

JOLO, SULU ARCHIPELAGO. Mangrove swamps.

3. *Celastrus* Linnaeus

Celastrus monospermoides Loesen., Nova Guinea 8 (1910) 280; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 236.

Celastrus apoensis Elmer, LPB 7 (1915) 2579; --Merr., EPFP 2 (1923) 482. --Type:

Sumatra (N half), Peninsular Malaysia (including Penang), Borneo (N half), S Philippines, Moluccas (Seram; Ambon), New Guinea.

Celastrus paniculatus Willd., Sp. Pl. 1 (1798) 1125; --Merr., Fl. Manila (1912) 301; EPFP 2 (1923) 482; --Ding Hou, Fl. Males. Ser. 1, 6 (1962) 235.

Celastrus polybotrys Turcz., Bull. Soc. Nat. Mosc. 31, 1 (1858) 449. --Type: Cuming 1324 (L*, NY*, 2 sheets, iso). Not 1321 as indicated in the original description.

India, Myanmar, Thailand, Indochina, throughout Malesia (except Borneo), to Australia and New Caledonia.

Elaeodendron JF Jacquin (at least as to Philippine taxa) =Cassine

4. *Euonymus* Linnaeus

Euonymus benguetensis Merr., Govt. Lab. Publ. (Philipp.) 29 (1905) 26; EPFP 2 (1923) 480; --Ding Hou, Fl. Males. Ser. 1, 6 (1962) 253.

LUZON: Mountain Province, Benguet. Montane forests, altitude 1200-2300m. One record on limestone.

Euonymus cochinchinensis Pierre, Fl. Forest. Cochin. 4 (1894) t. 309; --Merr., EPFP 2 (1923) 480; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 251; --Glyptopetalum glandulosum Merr., PJS 10 c (1915) Bot. 320; EPFP 2 (1923) 480. --Type: Thailand, Indochina, Hainan, N Sumatra, Peninsular Malaysia, N Borneo, Philippines, SW Sulawesi, Lesser Sunda Isls, Moluccas, W New Guinea. BATAN, LUZON, POLILLO, MINDORO, PALAWAN, MASBATE, SULU ARCHIPELAGO, MINDANAO.

Euonymus glandulosus (Merr.) Ding Hou, Fl. Males. ser. 1, 6 (1962) 251; --Glyptopetalum glandulosum Merr., PJS 12 c (1917) Bot. 279; EPFP 2 (1923) 481. --Type: Borneo (Sabah: Mt Kinabalu), Philippines. PALAWAN, MINDANAO. Mossy forests, altitude 900-2700m.

Euonymus javanicus Blume, Bijdr. (1826) 1146; --Merr., EPFP 2 (1923) 480; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 248, Fig. 5 (map). Euonymus elmeri Merr., PJS 12 c (1917) Bot. 281; EPFP 2 (1923) 480. --Type: India, Myanmar, Thailand, Indochina, Sumatra, Peninsular Malaysia, SE Borneo, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New Guinea. LUZON: Nueva Ecija, Bataan, Rizal, Laguna, Quezon, Camarines, Sorsogon, ALABAT, MINDORO, PANAY, NEGROS, LEYTE, SAMAR, CAMIGUIN, BASILAN, MINDANAO.

Euonymus japonicus Thunb., Nov. Act. R. Soc. Upsal. 3 (1780) 198 & 208; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 252, Fig. 6 (Map). China, Korea, Japan, Ryukyu Isls, W C Sumatra, Java, Philippines, Sulawesi, Lesser Sunda Isls. LUZON: Laguna (Mt Banahaw). Forest edges, ridges, altitude xxxx .

5. Glyptopetalum Thwaites

Glyptopetalum acuminatissimum Merr., PJS 29 (1926) 481; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 257. --Type: FB 29373 Azurin (UC*, holo). Luzon: Isabela prov., Mar-Apr 1923. LUZON: Isabela. Forests, altitude 100-300m.

Glyptopetalum euonymoides Merr., PJS 12 c (1917) Bot. 276; EPFP 2 (1923) 481; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 256. --Type: BS 27546 Ramos (A, BM, K, L*, NY*, US*, iso). Luzon: Ilocos Norte prov., Bangui, Feb-Mar 1917. LUZON: Ilocos Norte. Low altitude thickets.

Glyptopetalum euphlebium (Merr.) Merr., PJS 12 c (1917) Bot. 280; EPFP 2 (1923) 481; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 258; --Glyptopetalum marivelense Merr. var. euphlebium Merr., PJS 10 c (1915) Bot. 321; Tapulao (=High Peak), in forests, altitude "100-1400m" (probably 1400m), 15 Dec 1907. Glyptopetalum remotinervium Merr., PJS 12 c (1917) Bot. 280; EPFP 2 (1923) 481. --Type: Merrill 741 (US*, syntype). Palawan: Ewiig (=Iwahig) River, in forest, altitude c. 300m, 18 Feb. 1903. LUZON: Zambales, PALAWAN. Primary forests, altitude 300-1400m.

Glyptopetalum loheri Merr., PJS 10 c (1915) Bot. 321; EPFP 2 (1923) 481--Ding Hou, Fl. Males. ser. 1, 6 (1962) 257. --Type: Tulisan, Feb 1904. Philippines, SE Sulawesi. LUZON: Rizal, Cavite, PALAWAN (Ridsdale 683). Lowland forests, up to c. 400m.

Glyptopetalum marivelense (Elmer) Merr., PJS 10 c (1915) Bot. 321; EPFP 2 (1923) 481; --Ding Hou, Fl. Males. Ser. 1, 6 (1962) 258; --Euonymus marivelensis Elmer, LPB 7 (1915) 2580. --Type:

Elmer 6644 (not seen). Luzon: Bataan prov., Mt Mariveles, Nov 1904.
Glyptopetalum reticulatum Merr., PJS 12 c (1917) Bot. 277; EPFP 2 (1923) 482. –Type: BS 27043 Ramos (US*, iso). Luzon: Abra prov., Mt Posuey, damp forested slopes, altitude c. 300m, 4 Feb 1917.
LUZON: Abra, Benguet, Zambales, Bataan, Bulacan, Quezon, Batangas, MINDORO, CATANDUANES, CEBU. Forests, from the lowlands to 1400m.

Glyptopetalum palawanense Merr., PJS 26 (1925) 466; EPFP 4 (1925) 249; --Ding Hou, Fl. Males. ser. 1, 6 (1962) Princesa, primary forests at low altitude, 27 Dec 1922.
PALAWAN, CUYO ISLAND GROUP (PAMALICAN). Low altitude primary forest and coastal thickets.

6. *Gymnosporia* (Wight & Arnott) JDHooker

Revision:

Jordaan, M & AE van Wyk. 2003. *Reinstatement of Gymnosporia (Celastraceae): Implications for the Flora Malesiana region*. Telopea 10: 155-176.

Gymnosporia crassa (Ding Hou) Co, **comb. nov.**, --Maytenus crassa Ding Hou, Fl. Males. ser. 1, 6 (1962) 242; --*Gymnosporia nitida* Merr., PJS 9 c (1914) Bot. 311, *non* Mart., 1841; --Merr., EPFP 2 (1923) 483. –Type: FB 11836 Domingo (K, holo; iso in L*, US*). Luzon: Pangasinan prov., Salasa, 20 Nov 1912.
LUZON: Pangasinan. Known only from the type collection.

Gymnosporia diversifolia Maxim., Bull. Acad. Imp. Sc. St. Petersb. 27 (1881) 459; --Merr., EPFP 2 (1923) 483; --Jordaan & Wyk, Telopea 10 (2003) 161. –Type: Maytenus diversifolia (Maxim.) Ding Hou, Fl. Males. ser. 1, 6 (1962) 242.
Vietnam, S China (Fujian), Taiwán, Ryukyus, NW Philippines.
LUZON: Ilocos Norte (Burgos). Dry thickets and on coral along the seashore.

Gymnosporia inermis Merr. & Perry, J. Arn. Arb. 20 (1939) 335; --Jordaan & Wyk, Telopea 10 (2003) 156, Fig. 1. –Type: Maytenus emarginata Ding Hou, Fl. Males. ser. 1, 6 (1962) 241, Fig. 2e, *non* (Willd.) Thwaites
Taiwan, Philippines, Sulawesi, Moluccas (Kei, Tanimbar, Sula Isls, Aru Isls), Waigeo, New Guinea (W Papua, Waigeo; Papua), New Britain, Australia (Queensland).
DALUPIRI, LUZON: Isabela (Palanan), Aurora (Dingalan). Usually along coastal thickets and bluffs.

Gymnosporia spinosa (Blanco) Merr. & Rolfe, PJS 3 c (1908) Bot. 109; --Merr., Fl. Manila (1912) 302; EPFP 2 (1923) 483; --Jordaan & Wyk, Telopea 10 (2003) 158, Fig. 2. –Type: Merrill 5070 (PNH, holo, lost; iso in K, L*, NY*, US*). Luzon: Rizal prov., Montalban, Marikina River, March 1905.
Luzon: Bulacan prov., Angat, Sept 1913.

var. *spinosa*

LUZON: Cagayan (Nabanagan), Bulacan (Angat), Rizal (San Juan del Monte near Manila), LUBANG, PANAY: Iloilo.

var. parva Merr. & Rolfe, PJS 3 c (1908) Bot. 110; --Merr., EPFP 2 (1923) 483; --Jordaan & Wyk, Telopea 10 (2003) 158, Fig. 2. –Type: Merrill 5070 (PNH, holo, lost; iso in K, L*, NY*, US*). Luzon: Rizal prov., Montalban, Marikina River, March 1905.
LUZON: Rizal.

Hippocratea Linnaeus (**Philippine spp.**) = Reissantia, Loeseneriella

7. *Kokoona* Thwaites

Kokoona ochracea (Elmer) Merr., EPFP 2 (1923) 484, as 'Kokoonia'; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 260, Fig. 8k-m; --*Ardisia ochracea* Elmer, LPB 5 (1913) 1819. --Type: Peninsular Malaysia (Johore), N & E Borneo, Nunukan Is, Philippines. PALAWAN. Forests, altitude 225-1400m.

'Kokoonia' = Kokoona

Kurrimia Wallich ex Thwaites = Bhesa

8. Loeseneriella AC Smith

Loeseneriella cumingii (Lawson) Ding Hou, Blumea 12 (1963) 32; Fl. Males. ser. 1, 6 (1962) 399.

Hippocratea macrantha Merr., EPFP 2 (1923) 486, *non* (Korth.) Rolfe, 1918. --Type: Cuming 1725

Hippocratea trichopetala Merr., PJS 13 c (1918) Bot. 21; EPFP 2 (1923) 486. --Type:

W Sumatra (Batu Is.), Peninsular Malaysia (Selangor; Malacca), Philippines.

LUZON: Quezon, BALABAC, PANAY, SAMAR. Lowland forests along streams and on limestone.

Loeseneriella pauciflora (DC) C Presl, Am. J. Bot. 28 (1941) 440; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 400, Fig. 28.

Hippocratea lawsonii Elmer, LPB 7 (1915) 2688; --Merr., EPFP 2 (1923) 486. --Type: Elmer 12241 (L*, MO*, NY*, US*, iso). Sibuyan: Mt Giting-giting, Magallanes [=Magdiwang], along Dulangan Creek, hanging from limbs of trees, altitude 750ft, Apr 1910.

Hippocratea obtusifolia Roxb., Hort. Beng. (1814) 5, *nom. nud.*; Fl. Ind. 1 (1820) 170; --Merr., EPFP 2 (1923) 486. --Type: Cuming 1555

Thailand, NW Sumatra (Simalur Is), Peninsular Malaysia (incl. Penang), Java, Lesser Sunda Isls (Timor), Borneo (Sarawak), N & C Philippines, Sulawesi, Moluccas (Talaud & Sula Isls), and New Guinea.

MINDORO, SIBUYAN, MASBATE. Thickets and forests, sometimes along streams at low altitudes.

9. Lophopetalum Wight

Lophopetalum beccarianum Pierre, Fl. For. Coch. 4 (1894) sub t. 307; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 266, Fig. 10a-f.

C Sumatra, Peninsular Malaysia (Perak), Borneo (Sarawak; Brunei; Sabah; Bulungan; W Kutai & Sangkulirang), Labuan Is, Philippines.

LUZON, PALAWAN.

Lophopetalum javanicum (Zoll.) Turcz., Bull. Soc. Nat. Hist. Mosc. 36, i (1863) 598, as 'javanum'; --Ding Hou, Fl. Males. Ser. 1, 6 (1962) 269; --*Solenospermum javanicum* Zoll., Nat. Tijdr. Ned. Ind. 14 (1857) 169.

Lophopetalum toxicum Loher, Icon. Bogor. 1 (1897) 55, t. 16; --Merr., EPFP 2 (1923) 481. --Type:

Lophopetalum paucinervium Merr., PJS 20 (1922) 402; EPFP 2 (1923) 481. --Type:

Thailand, Sumatra, Simalur, Nias, Banka, Riouw, Peninsular Malaysia, Java, Borneo, Philippines, Sulawesi, Muna, Moluccas (Morotai; Taliabu Isls), New Guinea (Japan and Hollandia).

LUZON: Rizal, Quezon, Laguna, Camarines, MINDORO, PALAWAN, MASBATE, LEYTE, SAMAR, SULU ARCHIPELAGO, MINDANAO: Zamboanga, Lanao, Bukidnon, Davao.

Maytenus *sensu* Ding Hou, 1962, *non* Molina =Gymnosporia

10. *Microtropis* Wallich ex Meissner

Microtropis curranii Merr., PJS 3 c (1908) Bot. 238; EPFP 2 (1923) 482--Ding Hou, Fl. Males. ser. 1, 6 (1962) 278. --Type:

Microtropis curranii var. *zambalensis* Merr. & Freeman; Loes. in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 20b (1942) 29.

Microtropis curranii var. *obovata* Merr. & Freeman; Loes. in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 20b (1942) 29.

LUZON: Benguet, Zambales, Rizal. Mossy and exposed ridges on the higher mountains, altitude 1500-2500m.

Microtropis platyphylla Merr., PJS 10 c (1915) Bot. 319; EPFP 2 (1923) 482; --Merr. & Freeman, --Proc. Am. Ac. Arts Sc. 73 (1940) 306, incl. Var. *elliptifolia* Merr. & Freeman in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 20b (1942) 129; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 279. --Type:

Microtropis basilanensis Merr. & Freeman, Proc. Am. Ac. Arts Sc. 73 (1940)

Microtropis chartacea Merr. & Freeman, Proc. Amer. Acad. Arts 73 (1940) 303. --Type:

Microtropis fasciculata Quisumb. & Merr., PJS 37 (1928) 162. --Type:

Microtropis philippinensis Merr., PJS 13 c (1918) Bot. 306; EPFP 2 (1923) 482; --Merr. & Freeman, Proc. Amer. Acad. Arts 73 (1940) 304; --Type:

Microtropis rostrata Merr., PJS 17 (1920) 275; EPFP 2 (1923) 482; --Merr. & Freeman, Proc. Amer. Acad. Arts 73 (1940) 306. --Type:

Microtropis rubra Elmer ex Merr. & Freeman, Proc. Amer. Acad. Arts 73 (1940) 305. --Type:

Borneo (Sabah: Mt Kinabalu), Philippines.

LUZON: Nueva Ecija, Rizal, Quezon, Camarines Norte, Camarines Sur, Sorsogon, ALABAT, CATANDUANES, PANAY, BASILAN, SIARGAO. Low and medium altitude primary forests.

11. *Perrottetia* Humboldt, Bonpland & Kunth

Perrottetia alpestris (Blume) Loesen. in Engl. & Prantl, Nat. Pflanzenfam. 3³ (1892) 220; --Merr., EPFP 2 (1923) 484.

ssp. *philippinensis* (Vidal) Ding Hou, Fl. Males. ser. 1, 6 (1962) 291, Fig. 21i-j; --*Caryospermum philippinense* Vidal, Rev. Pl. Vasc. Filip. (1886) 89. --Type:

Borneo (Sarawak; Sabah; Kutai), Philippines, Sulawesi.

LUZON: Mountain Province, Benguet, Laguna, Sorsogon, MINDORO, PANAY, CAMIGUIN, MINDANAO: Bukidnon, Davao. Montane forest edges and thickets, 700-2700m. Sometimes descending to 350m.

12. *Pleurostylia* Wight & Arnott

Pleurostylia opposita (Wall.) Alston *in* Trimen, Fl. Ceyl. 6 (Suppl.) (1931) 48; --Ding Hou, Fl. Males. ser. 1, 6 (1962) 288, Fig. 20.

Pleurostylia wightii Wight & Arn., Prodr. (1834) 157, var. *neocaledonia* Loesen. In Engl., Bot. Jahrb. 39 (1907) 171; --Merr., EPFP 2 (1923) 484.

Elaeodendron mindanaense Merr., PJS 12 c (1917) Bot. 277; EPFP 2 (1923) 484. --Type: FB 26243 Ceballos.

Madagascar, Mauritius, Sri Lanka, S India, Thailand, Hainan, Peninsular Malaysia, Philippines, New Guinea, Australia (Queensland), New Caledonia.

LUZON: Batangas, MINDANAO: Davao. Lowland forests or thickets, ascending to 650m.

13. *Reissantia* N Hallé

Reissantia grahamii (Wight) Ding Hou, *Blumea* 12 (1963) 33; *Fl. Males. ser.* 1, 6 (1964) 402, Fig. 29.

Hippocratea ellipticarpa Merr., *PJS* 17 (1920) 275; *EPFP* 2 (1923) 485. --Type:

Hippocratea megalocarpa Merr., *PJS* 13 c (1908) Bot. 20; *EPFP* 2 (1923) 486. --Type:

Kokoona 'Kokoonia' luzoniensis Merr., *PJS* 27 (1925) 32; *EPFP* 4 (1925) 252. --Type:

India, S Andamans, Upper Burma, Thailand, Sumatra, Java, Borneo, Philippines, Moluccas (Kei Is), New Guinea.

LUZON: Laguna, MINDORO: Mindoro Occidental (Paluan), PALAWAN, MINDANAO: Surigao. Lowland forests.

Reissantia indica (Willd.) N. Hallé, [*Bull. Mus. Hist. Nat. Paris* 30 (1958) 466] *Mém. Inst. Fr. Afr. Noire* n. 64 (1962) 85; *Hippocratea indica* Willd., *Sp. Pl.* 1 (1797) 193; --Merr., *EPFP* 2 (1923) 485.

India and Sri Lanka, Myanmar, Thailand, Indochina, S China (Yunnan), Hainan, Sumatra, Peninsular Malaysia, Penang, Singapore, Java, Lesser Sunda Is (Lombok, Sumbawa, Timor), Borneo, Philippines and Sulawesi.

LUZON: Zambales, Bataan, Rizal, Laguna, Batangas, Quezon, Camarines, LUBANG, MINDORO, MINDANAO: Lanao. Thickets and second growth forests in both wet and more seasonal parts of the archipelago, sometimes on limestone, at low altitudes.

14. *Salacia* Linnaeus

Salacia chinensis L., *Mantissa* 2 (1771) 293; --Ding Hou, *Fl. Males. ser.* 1, 6 (1964) 419, Fig. 37 (map).

Salacia prionoides (Willd.) DC, *Prodr.* 1 (1824) 571; --Merr., *Fl. Manila* (1912) 303; *EPFP* 2 (1923) 487.

Widely distributed but scattered in India, Sri Lanka, Burma, Thailand, Indochina, Hainan and throughout Malesia to the Carolines (Yap and Palau), N Queensland, New Britain, Solomons and Fiji.

LUZON: Zambales, Bataan, Batangas, Quezon, Camarines, MINDORO, PALAWAN, ROMBLON, PANAY, BILIRAN, LEYTE, BUCAS GRANDE, MINDANAO, SULU ARCHIPELAGO. Thickets and forests, along sandy riverbanks at low altitudes up to 450m, often near the seashore.

Salacia cymosa Elmer, *LPB* 5 (1913) 1792; --Merr., *EPFP* 2 (1923) 486; --Ding Hou, *Fl. Males. ser.* 1, 6 (1964) 407. --Type:

PALAWAN. Thickets at low altitudes. Known only from the type collection.

Salacia euphlebia Merr., *PJS* 13 c (1918) Bot. 22; *EPFP* 2 (1923) 486; --Ding Hou, *Fl. Males. ser.* 1, 6 (1964) 418.

Peninsular Malaysia and the Philippines.

MINDORO, MINDANAO: Lanao, Surigao. Thickets and forests up to 150m.

Salacia kalahiensis Korth., *Kruidk.* (1842) 183, t. 38; --Ding Hou, *Fl. Males. ser.* 1, 6 (1964) 420.

Salacia subscandens Elmer, *LPB* 5 (1913) 1793; --Merr., *EPFP* 2 (1923) 487.

Java, Borneo (Sarawak, Sabah), Philippines. LUZON, MINDORO, PALAWAN, GUIMARAS, SAMAR, MINDANAO. Forests along streams at low altitudes.

Salacia korthalsiana Miq., Ann. Mus. Bot. Lugd.-Bat. 4 (1869) 152; --Ding Hou, Fl. Males. ser. 1, 6 (1964) 406, Fig. 31 (map).

Salacia philippinensis Merr., PJS 7 c (1912) Bot. 291; EPFP 2 (1923) 487.

Peninsular Thailand, Sumatra, Peninsular Malaysia, Java, Lesser Sunda Isls (Bali), Borneo (Sarawak, Sabah, Kalimantan), Philippines.

LUZON: Ilocos Norte, Cagayan, Pangasinan, Rizal, LUBANG, MINDORO, PALAWAN, ROMBLON, PANAY, CEBU, BOHOL, BILIRAN, MINDANAO: Surigao. Forests and thickets, sometimes on limestone, 50-1400m.

Salacia marginata Ding Hou, Blumea 12 (1963) 35; Fl. Males. ser. 1, 6 (1964) 413.

PALAWAN: Puerto Princesa and Mt Victoria. Lowland forests, 0-100m.

Salacia ovalis Korth., Kruidk. (1842) 182; --Ding Hou, Fl. Males. ser. 1, 6 (1964) 415, Fig. 36f-g.

Salacia integrifolia Merr., PJS 1 (1906) Suppl. 85; EPFP 2 (1923) 487. --Type:

Sumatra (E coast), Java, Philippines, Sulawesi and Moluccas (Sula Isls).

LUZON: La Union, Pangasinan, Zambales, Bataan, Rizal, Quezon, Albay, MINDORO, PANAY, MINDANAO: Surigao. Thickets and forests, lowland up to 1200m

Salacia venosa Ding Hou, Blumea 12 (1963) 34; --Ding Hou, Fl. Males. ser. 1, 6 (1964) 421.

Hiptage lawsonii Elmer, LPB 8 (1915) 2751, *non* King, 1896. --Type:

LUZON: Zambales, SIBUYAN, LEYTE. Lowland forests and in sandy gravelly ground along wooded banks, up to c. 225m.

Salacia verrucosa Wight, Ill. Ind. Bot. 1 (1840) 134; --Ding Hou, Fl. Males. ser. 1, 6 (1964) 414, Fig. 35.

India (Assam and Khasya Hills), Thailand, Myanmar (Tenasserim & Mergui), Laos, S Vietnam, Sumatra, Banka, Billiton, Peninsular Malaysia, Langkawi, Borneo (Sarawak, Sabah), Philippines, Sulawesi.

LUZON. Forests, from lowlands up to 920m.

Salacia wenzelii Merr., PJS 13 c (1918) Bot. 23; EPFP 2 (1923) 487; --Ding Hou, Fl. Males. ser. 1, 6 (1964) 411, Fig. 36h. --Type:

LUZON, CEBU, LEYTE, MINDANAO. Forests at low altitudes.

15. *Siphonodon* Griffith

Siphonodon celastrineus Griff., Calcutta J. Nat. Hist. 4 (1844) 247, t. 14; --Merr., EPFP 2 (1923) 485; --Ding Hou, Fl. Males. ser. 1, 6 (1964) 411, Fig. 36h. --Type:

Siphonodon celastrineus var. *acuminatissima* Merr., EPFP 2 (1923) 485. --Type:

Siphonodon celastrineus var. *subglobosa* (Elmer) Merr., EPFP 2 (1923) 485; --*Xanthophyllum subglobosum* Elmer LPB 5 (1913) 1677. --Type:

Siphonodon pyriformis Merr., PJS 3 c (1908) Bot. 240; EPFP 2 (1923) 485. --Type: Elmer 5985 (US*, lecto)

Siphonodon pyriformis Merr. var. *parvifolius* Merr., PJS 27 (1925) 33; EPFP 4 (1925) 252. --Type: Loher 12809. Luzon: Rizal prov.

India, Burma, Thailand, S Vietnam, throughout Malesia.

LUZON: Abra, Ilocos Sur, Benguet, Cagayan, Isabela, Tarlac, Bataan, Rizal, Laguna, MINDORO, TICA, NEGROS: Negros Oriental (Cuernos Mtns), LEYTE, BASILAN, MINDANAO: Cotabato, Agusan, Surigao, SIARGAO. Forests, sometimes in thickets, near sea-level to 1500m.

Solenospermum Zollinger = *Lophopetalum*

