

Family 63. ULMACEAE

Revision:

E. Soepadmo, E. 1977. *Ulmaceae*. Flora Malesiana series 1, 8: 31-76.

1. *Aphananthe* Planchon

Aphananthe cuspidata (Blume) Planch. *in* DC, Prodr. 17 (1873) 209; --Soepadmo, Fl. Males.

ser. 1, 8 (1977) 69, Fig. 24a-i, 25 (map); --Cyclostemon cuspidatum Blume, Bijdr. (1825) 599.

Gironniera cuspidata (Blume) Kurz, Forest Fl. Brit. Burma 2 (1877) 470; --Merr., EPFP 2 (1923) 35; Backer & Bakh.f. Fl. Java 2 (1965) 12.

Gironniera curranii Merr., PJS 4 c (1909) Bot. 251. --Type:

Sri Lanka, India, Andaman Isls, Burma, Thailand, Indochina, ?China, Hongkong, Hainan, NE Sumatra, Java, Lesser Sunda Isls (Bali; Sumabawa; Flores; Timor), Borneo (Mt Kinabalu), S Philippines, Sulawesi.

Aphananthe philippinensis Planch., Ann. Sci. Nat. Bot. 3, 10 (1848) 337; --Merr., EPFP 2 (1923)

34; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 67, Fig. 24j-n, 25 (map).

N Philippines, New Guinea, Australia (Queensland; New South Wales).

LUZON. Primary and secondary forest subject to rather strong seasonal climate. **Alt.**

2. *Celtis* Linnaeus

Celtis latifolia (Blume) Planch. *in* DC, Prodr. 17 (1873) 186; --Soepadmo, Fl. Males. ser. 1, 8 (1977)

63, Fig. 20j, 23k; --Solenostigma latifolium Blume, Mus. Bot. 2 (1856) 67.

Solomon Isls, New Guinea, Moluccas and the Philippines. PALAWAN. Primary and secondary forests on sandy clay soils, 0-400m.

Celtis luzonica Warb. *in* Perkins, Fragm. Fl. Philipp. (1905) 164; --Merr., EPFP 2 (1923) 32; --

Soepadmo, Fl. Males.

LUZON, MINDORO, MASBATE, SAMAR, MINDANAO. Lowland thickets and forests.

Flowering & fruiting Mar-Jul.

Celtis philippensis Blanco, Fl. Filip. (1837) 197; --Vidal, Rev. Pl. Vasc. Filip. (1886) 248; --Merr., PJS

1 (1906) Suppl. 42; Sp. Blancoanae (1918) 122; EPFP 2 (1923) 32; --Soepadmo *in* Whitmore, Tree

Fl. Malaya 2 (1973) 416; Fl. Males. ser. 1, 8 (1977) 62, Fig. 18a-k, 22.

Celtis mindanaensis Elmer, LPB 8 (1915) 2842. --Type:

Celtis multifolia Elmer, LPB 10 (1939) 3796, invalidly published, no Latin diagnosis. --Voucher:

var. philippensis

Tropical Africa to Madagascar, India, Burma, SE China, Hongkong, Taiwan, Thailand, Indochina, throughout Malesia to NE Australia.

N LUZON to MINDANAO and PALAWAN. Common in thickets and open forests at low altitudes.

var. wightii (Planch.) Soepadmo, Fl. Males. ser. 1, 8 (1977) 62; --*Celtis wightii* Planch., Ann. Sc.

Nat. 3, 10 (1848) 307.

Celtis rigescens (Miq.) Planch. *in* DC, Prodr. 17 (1873) 182; --Soepadmo, *in* Whitmore (ed.), Tree

Fl. Malaya 2 (1973) 416; Fl. Males. ser. 1, 8 (1977) 58, Fig. 20e, 23a-b; --Solenostigma rigescens

Miq., Sumatra (1861) 411.

Celtis asperifolia Merr., PJS 17 (1920) 246; EPFP 2 (1923) 32. --Type:

C & S Sumatra, Anambas Isls, Peninsular Malaysia, W Java, E Borneo, S Philippines, NE Sulawesi, Moluccas (Seram; Buru; Sula; Morotai), New Guinea (incl. New Britain).

MINDANAO: Davao. Lowland thickets or forests.

Celtis rubrovenia Elmer, LPB 2 (1908) 464; --Merr., EPFP 2 (1923) 32; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 65, Fig. 23j. --Type:
Celtis rubrovenia Elmer var. *nigra* Merr., EPFP 2 (1923) xx
Philippines, New Guinea
LUZON: Ilocos Norte, Mountain Province, Benguet. Primary forests on hills and ridges, 500-1800m.

Celtis timorensis Span., Linnaea 15 (1841) 343; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 65.
Celtis cinnamomea Lindley in Wall., Cat. (1831) No 3696, *nomen nudum*; Planch., Ann. Sci. Nat. Bot. 3, 10 (1848) 303; --Merr., EPFP 2 (1923) 32.
Celtis crenato-serrata Merr., PJS 5 c (1910) Bot. 174. --Type:
Sri Lanka, India, Bangladesh, Burma, Thailand, Indochina, C Sumatra, Java, Christmas Is, Lesser Sunda Isls (Flores; Timor), Borneo (Sabah: Mt Kinabalu), Philippines.
LUZON: Cagayan, Bataan. Open forests at low altitudes. Common in areas with rather prominent seasonal climate, in open forests at low altitudes. Fl. Fr. Nov-Apr.

3. *Gironniera* Gaudichaud

Gironniera celtidifolia Gaudich., Bot. Freycinet's Voy. (1844) t. 85; --Merr., EPFP 2 (1923) 35; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 73, Fig. 26a-g.
Gironniera sibuyanensis Elmer, LPB 5 (1913) 1845; --Merr., EPFP 2 (1923) 35. --Type:
Philippines, Moluccas (Morotai; Halmaheira), Misima, Sudest, Rossel Isls, New Guinea, Admiralty. Fl. fr. Jan-Dec.

Gironniera subaequalis Planch., Ann. Sci. Nat. Bot. 3, 10 (1848) 339; --Merr., EPFP 2 (1923) 35; --Corner, Wayside Trees Malaya (1940) 690; --Backer & Bakh.f., Fl. Java 2 (1965) 12; --Soepadmo in Whitmore (ed.), Tree Fl. Malaya 2 (1973) 419, Fig. 2; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 75, Fig. 26h, m, p-r.
Andaman Isls, Burma, Thailand, Indochina, China (Yunnan; Guangdong; Hongkong), Hainan, throughout Malesia (except Lesser Sunda Isls).
Lowland primary and secondary forests.

4. *Parasponia* Miquel

Parasponia rugosa Blume, Ann. Mus. Bot. Lugd.-Bat. 2 (1856) 66; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 44, Fig. 10-11, 12 (map).
Trema vulcanica Merr., PJS 7 c (1912) Bot. 260.
Trema philippinensis Elmer, LPB 9 (1934) 3218.
E Java, Lesser Sunda Isls (Bali; Lombok), Philippines, Sulawesi, Moluccas (Ternate; Banda), New Guinea, New Britain.
LUZON, LEYTE, MINDANAO. Often dominant or co-dominant in seral vegetation on various soil types including volcanic ash, altitude 50-1900m.

5. *Trema* Loureiro

Trema cannabina Lour., Fl. Cochinch. 2 (1790) 563; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 50; --Backer & Bakh.f., Fl. Java 2 (1965) 12; --Soepadmo in Whitmore (ed.), Tree Fl. Malaya 2 (1973) 421; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 50.
Trema amboinensis (Willd.) Blume, Ann. Mus. Bot. Lugd.-Bat. 2 (1856) 61, *quoad syn., excl. descr.!*; --*Celtis amboinensis* Willd., Sp. Pl. 4, 2 (1805) 997. --Type:

Burma, Thailand, Indochina, China, Hainan, Taiwan, throughout Malesia to Australia, Melanesia (Solomon Isls, Vanuatu), New Caledonia, W Polynesia (Fiji; Samoa), and Micronesia. Sea-level to 1200m, along roadsides, forest edges, thickets, early re-growth secondary forests, a common pioneer in newly opened sites.

Trema orientalis (L.) Blume, Ann. Mus. Bot. Lugd.-Bat. 2 (1856) 62; --Merr., Fl. Manila (1912) 171; EPFP 2 (1923) 34; --Backer & Bakh.f., Fl. Java 2 (1965) 12, *pro parte*, excl. syn. *T. amboinensis auct. non* (Willd.) Blume; --Soepadmo in Whitmore (ed.), Tree Fl. Malaya 2 (1973) 421; --Soepadmo, Fl. Males. ser. 1, 8 (1977) 51, Fig. 13, 16; --Celtis orientalis L., Sp. Pl. 2 (1753) 1044.

?Tropical Africa, Sri Lanka, India, Burma, Thailand, Indochina, China, Hainan, Taiwan, S Japan, Sumatra (rare), Peninsular Malaysia, Java, Lesser Sunda Isls (rare), Borneo, Philippines, Sulawesi (rather rare), Moluccas (rare), New Guinea (including New Britain, rare), Australia (Queensland), Solomons, Marianas, Polynesia (Fiji; Tonga; Tahiti).

Trema tomentosa (Roxb.) Hara, Fl. E. Himal. 2 (1971) 19; --Soepadmo in Whitmore (ed.), Tree Fl. Malaya 2 (1973) 423; Fl. Males. ser. 1, 8 (1977) 53, Fig. 16; --Celtis tomentosa Roxb., Fl. Ind. ed. Carey 2 (1832) 66.

Celtis lima (non Sw.) Blanco, Fl. Filip. 2 (1837) 139.

Trema orientalis Merr., Sp. Blancoanae (1918) 121, non (L.) Blume.

Tropical E Africa, Madagascar, Pakistan, India, Bangladesh, Burma, Thailand, Indochina, China, Hainan, Hongkong, Taiwan, Ryukyu Isls (Okinawa), throughout Malesia to Queensland, New Caledonia, Micronesia, Polynesia (Fiji; Tonga, and Hawaii).