

Family 162. ICACINACEAE

Revision:

Sleumer, H. 1971. *ICACINACEAE*. Flora Malesiana series 1, 7: 1-87

1. *Apodytes* E Meyer ex Arnott

Apodytes dimidiata E Meyer, ex Arn. in Hook., J. Bot. 3 (1840) 155; --Sleum., Fl. Males. ser. 1, 7 (1971) 48, Fig. 17.

Mappia philippinensis Merr., PJS 26 (1925) 467; EPFP 4 (1926) 249. --Type: BS 24941 Fenix (L*, iso).

Mindanao: Bukidnon prov., near Tangkulan, steep slopes near streams, altitude ---

Tropical and subtropical Africa, Madagascar, Comores, Réunion, Mauritius, Sri Lanka, S India, SW China (Yunnan), Myanmar, Thailand, Indochina, Hainan, Sumatra, Peninsular Malaysia, Java (extreme W part), Lesser Sunda Isls (E Sumba; Flores; W Timor), Borneo (Sabah), Philippines, Moluccas (Bacan).

MINDANAO: Bukidnon.

2. *Citronella* D Don

Citronella latifolia (Merr.) Howard, J. Arn. Arb. 21 (1940) 472; --Sleum., Fl. Males. ser. 1, 7 (1971) 6; --*Villaresia latifolia* Merr., PJS 14 (1919) 415; EPFP 2 (1923) 488. --Type:

NW Sumatra, W & C Java, N & E Borneo, Philippines, Sulawesi, Moluccas, New Guinea.

SAMAR: Catubig River.

Citronella philippinensis (Merr.) Howard, J. Arn. Arb. 21 (1940) 474; --Sleum., Fl. Males. ser. 1, 7 (1971) 7; --*Chariessa philippinensis* (Merr.) Sleum., Notizb. Berl.-Dahl. 15 (1940) 229; --*Villaresia philippinensis* Merr., PJS 14 (1919) 414; EPFP 2 (1923) 488. --Type:

LUZON: Ilocos Norte. Primary forests, altitude c. 1000m, apparently rare.

3. *Codiocarpus* Howard

Codiocarpus merrittii (Merr.) Howard, Brittonia 5 (1943) 56, f. 2, 3 e-f (wood anat.); --Sleum., Fl. Males. ser. 1, 7 (1971) 43, Fig. 14, 15 (map); --*Stemonurus merrittii* Merr., PJS 3 c (1908) 240; EPFP 2 (1923) 489. --Type:

MINDORO, PALAWAN, PANAY. Lowland primary forests, under partial shade up to 200m, on clayey soil or fertile humus.

Freeria Merrill = *Pyrenacantha*

4. *Gomphandra* Wallich

Gomphandra apoensis (Elmer) Merr., EPFP 2 (1923) 490; --Sleum., Fl. Males. ser. 1, 7 (1971) 29. --Type:

LUZON: Sorsogon, NEGROS, BOHOL, LEYTE, SAMAR, MINDANAO: Davao. Primary

forests along streams, altitude c. 900m. Found on limestone.

Gomphandra cumingiana (Miers) Fern.-Villar, Novis. App. (1880) 46; EPFP 2 (1923) 490; -- Sleum., Fl. Males. ser. 1, 7 (1971) 27; --Stemonurus cumingianus Miers, Contrib. Bot. 1 (1851-62) 92. --Type: Gomphandra agusanensis (Elmer) Merr., EPFP 2 (1923) 489; --Stemonurus agusanensis Elmer, LPB 7 (1915) 2689. --Type: Borneo, Philippines. LUZON: Quezon, Laguna, Camarines, Sorsogon, ALABAT, MINDORO, PALAWAN, BILIRAN, LEYTE, SAMAR, MINDANAO: Agusan del Norte (Mt Urdaneta), Surigao del Norte. Primary mixed dipterocarp forests at low and medium altitudes.

Gomphandra flavicarpa (Elmer) Merr., EPFP 2 (1923) 490; --Sleum., Fl. Males. ser. 1, 7 (1971) 30; --Stemonurus flavicarpus Elmer, LPB 7 (1915) 2691. --Type: MINDANAO: Lanao, Bukidnon, Davao. Primary forests, (700-) 1200-2200m. According to Merrill, very closely allied to *G. cumingiana*.

Gomphandra fuliginea (Elmer) Merr., EPFP 2 (1923) 490; --Sleum., Fl. Males. ser. 1, 7 (1971) 24; --Urandra fuliginea Elmer, LPB 2 (1908) 491. --Type: LUZON: Benguet. Thickets, altitude 1400-1700m. Presumed extinct.

Gomphandra lancifolia Merr., PJS 17 (1920) 277; EPFP 2 (1923) 490; --Sleum., Fl. Males. ser. 1, 7 (1971) 31. --Type: LUZON: Aurora (Mt Dingalan). Low altitude primary forest, altitude 200m. Known only from the type. Presumed extinct.

Gomphandra luzoniensis Merr., EPFP 2 (1923) 490; --Sleum., Fl. Males. ser. 1, 7 (1971) 31. --Type: Taiwan, Philippines. BATANES: Batan, LUZON: Ilocos Norte, Ilocos Sur, La Union, Cagayan, Nueva Ecija, Bataan, Rizal, Laguna, Cavite, Batangas, MINDORO, MARINDUQUE, PALAWAN. Common in primary forests under partial shade or along forest edges at low altitudes, rarely to 850m. Northern populations (variety to be named) tend to have rounded, thicker leaves and occur in more open habitats.

Gomphandra oligantha Sleum., Notizbl. Berl.-Dahl. 15 (1940) 238; Fl. Males. ser. 1, 7 (1971) 30. Gomphandra pauciflora (Merr.) Merr., EPFP 2 (1923) 491, *non* Craib, 1914; --Urandra pauciflora Merr., PJS 3 c (1908) Bot. 243. --Type: MINDORO, PANAY, SIBUYAN. Low altitude primary forests. Common in Mt. Guiting-Guiting NP. Fruit yellow.

Imperfectly known:

Gomphandra oblongifolia Merr., PJS 17 (1920) 277; EPFP 2 (1923) 491; --Sleum., Fl. Males. ser. 1, 7 (1971) 31. LUZON: Camarines and Sorsogon, CATANDUANES, MINDANAO: Dinagat Island, Davao. Low altitude primary forests. Possibly a member of the *G. luzoniensis* complex. Fruit with small, cap-like stigma.

Undescribed species:

Gomphandra sp. 1.

LUZON: Ifugao (Banawe). Only known from female flowers and fruit. Fruit largest of Philippine species.

Gomphandra sp. 2.

BILIRAN, LEYTE, SAMAR. Part of *G. luzoniensis* complex, but twigs and leaves (abaxial) with spreading pubescence.

Gomphandra sp. 3.

LUZON: Camarines Sur (Mt Isarog). Only known from male flowers. Flowers single, with deep (3 mm) calyx. Threatened by abaca cultivation.

Gomphandra sp. 4.

MINDANAO: Davao Oriental (Mt Hamiguitan). Part of *G. luzoniensis* complex, leaves small and thick, male stamens 9 mm long. Flowers and fruit in May, fruit slightly orange-beige.

Gomphandra sp. 5.

LUZON: Quezon (Univ. of the Philippines Land Grant; Quezon National Forest Park). Only known from these sites. Female flowers in short clusters of 4 (rarely 5), fruit ivory.

Gomphandra sp. 6.

MINDORO: Mindoro Oriental (Mt Halcon). Fruit globose, leaves thick, venation indistinct. Only known from one fruiting specimen.

Gomphandra sp. 7.

DINAGAT. Fruit globose, leaves with 3-4 vein pairs, petioles pubescent. Probably part of *G. luzoniensis* complex, maybe allied with *G. oblongifolia*, though fruit are distinct.

5. *Gonocaryum* Miquel

Gonocaryum calleryanum (Baill.) Becc., Malesia 1 (1877) 123; -- Merr., EPFP 2 (1923) 491; -- Sleum., Fl. Males. ser. 1, 7 (1971) 20; --Phlebocalymna calleryana Baill., Adansonia 9 (1869) 147. --Type:

S Taiwan, Lanyu, SW Borneo, Philippines, N Sulawesi, Moluccas (Morotai; Halmahera; Bacan).

BATAN, BABUYAN ISLS, LUZON, ALABAT, SAMAR. Primary lowland (sometimes littoral, also second-growth) forests, 0-250 (-750)m. On clayey, sometimes volcanic soil.

Gonocaryum cognatum Elmer, LPB 1 (1908) 315; -- Merr., EPFP 2 (1923) 491; --Sleum., Fl. Males. ser. 1, 7 (1971) 19. --Type:

Gonocaryum grandifolium Merr., PJS 17 (1920) 278; EPFP 2 (1923) 491. --Type: E and NE Borneo, Philippines.

LUZON: Sorsogon, PANAY, LEYTE, SAMAR, SULU ARCHIPELAGO, MINDANAO: Agusan del Norte, DINAGAT. Lowland primary dipterocarp forests (rarely in secondary), up to 300m, along river, apparently scattered.

6. *Iodes* Blume

Iodes cirrhosa Turcz., Bull. Soc. Nat. Moscou 27, 2 (1854) 281; -- Sleum., Fl. Males. ser. 1, 7 (1971) 70, Fig. 36a-d. --Type:

India (Khasya), Myanmar, Thailand, Indochina, Sumatra (E & W coast, Padang), Peninsular Malaysia, W & E Java, Borneo (Sarawak; Sabah; W Borneo), WC Philippines, Sulawesi, possibly in the Moluccas.
PALAWAN.

lodes philippinensis Merr., PJS 3 c (1908) 241; EPFP 2 (1923) 492; . --Sleum., Fl. Males. ser. 1, 7 (1971) 71, Fig. 36e-e'. --Type: Borneo (Sabah), Philippines, CE Sulawesi, Moluccas (Talaud; Morotai; Halmahera; Ternate; Ambon). Throughout the Philippines. Lowland thickets, edge of forests, also secondary growth.

7. *Medusanthera* Seemann

Medusanthera laxiflora (Miers) Howard, J. Arn. Arb. 21 (1940) 470; --Sleum., Fl. Males. ser. 1, 7 (1971) 46, Fig. 19, 20 (map); --Gomphandra laxiflora (Miers) Rolfe, J. Bot. 23 (1885) 211; --Merr., EPFP 2 (1923) 490; --Stemonurus laxiflorus Miers, Contrib. Bot. 1 (1851-61) 98, t. 16. --Type: Gomphandra glabra Merr., PJS 17 (1920) 277; EPFP 2 (1923) 490. --Type: Philippines, C & SE Sulawesi, Moluccas (Halmahera; Obi; Kai Isls), New Guinea, Melanesia (Solomon Isls), Micronesia (Palau). LUZON: Albay, MINDORO, PALAWAN, LEYTE, SAMAR, MINDANAO. Lowland rainforest understorey, 0-300m.

8. *Merrilliodendron* Kanehira

Merrilliodendron megacarpum (Hemsl.) Sleum., Notizbl. Berl.-Dahl. 15 (1940) 243; Fl. Males. ser. 1, 7 (1971) 50, Fig. 19. Philippines, SE Sulawesi (Muna Is), N New Guinea, Melanesia (New Ireland; New Britain, Solomon Isls; Santa Cruz Isls), Marianas (Rota & Guam), Carolines (Kusaie). PALAWAN

9. *Miquelia* Meissner *non* Blume

Miquelia celebica Blume, Rumphia 4 (1849) 37; --Sleum., Fl. Males. ser. 1, 7 (1971) 79, Fig. 39a-f; 40 (map). *Miquelia cumingii* Baill., Adansonia 10 (1871-73) 278; --Merr., EPFP 2 (1923) 492. --Type: Cuming 1378. W Sumatra (Padang), Borneo, Philippines, Sulawesi (Minahassa; Buton Is). LUZON: Cagayan, Benguet, **Tayabas**, MINDORO, LEYTE, SAMAR, SIARGAO. Lowland primary forests.

Miquelia philippinensis Merr., PJS 14 (1919) 416; EPFP 2 (1923) 493; --Sleum., Fl. Males. ser. 1, 7 (1971) 78, Fig. 40 (map). --Type: BS 32885 Ramos. LUZON: Ilocos Norte. Lowland forest. Only known from the type collection.

Miquelia reticulata Merr., PJS 14 (1919) 312; EPFP 2 (1923) 493; --Sleum., Fl. Males. ser. 1, 7 (1971) 78, Fig. 40 (map). BOHOL, CAMIGUIN. Lowland forests, up to 600m. Twice found.

10. *Nothapodytes* Blume

Nothapodytes nimmoniana (J Graham) Mabb., in KS Manilal (ed.) Bot. Hist. Hort. Mal. (1980) 88; --Sleum., Fl. Males. ser. 1, 9 (1982) 566. *Nothapodytes foetida* (Wight) Sleum., Notizbl. Berl.-Dahl. 15 (1940) 247; Fl. Males. ser. 1, 7 (1971) 55, Fig. 26 (map). Sri Lanka, S India, Assam, Myanmar, Thailand, Cambodia, Lanyu, Ryukyu Isls

(Yaeyama Group), W Sumatra, N Philippines.
LUZON: Ilocos Norte, Isabela. Low altitude primary forests, 100-300m.

11. *Phytocrene* Wallich

Phytocrene macrophylla (Blume) Blume, Rumphia 4 (1849) 36; --Sleum., Fl. Males. ser. 1, 7 (1971) 86.
Phytocrene blancoi (Azaola) Merr., PJS 2 c (1907) Bot. 432; EPFP 2 (1923) 492; --Kadsura blancoi Azaola
in Blanco, Fl. Filip. ed. 2 (1845) 594. --Type:
Phytocrene obovoidea Merr., PJS 10 c (1915) Bot. 322; EPFP 2 (1923) 492. --Type:

var. *macrophylla*

Myanmar, Sumatra, Java, Philippines.
LUZON, POLILLO, PALAWAN, BOHOL, BILIRAN, LEYTE, SAMAR, MINDANAO.
Lowland thickets, secondary forests and dipterocarp forests.

Excluded:

Phytocrene loheri Merr., PJS 7 c (1912) 293; EPFP 2 (1923) 492.
The type, *Loher 5796*, is a mixture: with leaves of *Hypserpa nitida* Miers
[Menispermaceae] and fruits of *Phytocrene macrophylla* var. *macrophylla*.

12. *Platea* Blume

Platea excelsa Blume, Bijdr. (1826) 697; --Sleum., Fl. Males. ser. 1, 7 (1971) 12.
var. *borneensis* (Heine) Sleum., Blumea 17 (1969) 246; Fl. Males. ser. 1, 7 (1971) 13.
Platea apoensis Elmer, LPB 8 (1915) 2789; --Merr., EPFP 2 (1923) 489. --Type:
Platea philippinensis Merr., PJS 9 c (1914) 313; --Merr., EPFP 2 (1923) 489. --Type:
Sumatra, Java, Borneo, Philippines, Sulawesi, Lesser Sunda Isls, Moluccas, New
Guinea, New Britain. LUZON: Mountain Province (Mt Data), Benguet, Bataan, Sorsogon,
PANAY, NEGROS, LEYTE, CAMIGUIN, MINDANAO: Lanao, Davao. Primary montane
forests, 750-2200m.

Platea latifolia Blume, Bijdr. (1826) 647; --Sleum., Fl. Males. ser. 1, 7 (1971) 11, Fig. 6.
Platea fuliginea Elmer, LPB 8 (1915) 2790; --Merr., EPFP 2 (1923) 489. --Type:
Sikkim, Bangladesh, China, Thailand, Indochina, Sumatra, Peninsular Malaysia, Java,
Borneo, Philippines, Sulawesi, New Guinea, Melanesia.
BILIRAN, MINDANAO: Davao, Agusan del Norte (Mt Urdaneta). Primary lowland and
montane rainforests, up to 1500m.

13. *Pyrenacantha* Wight

Pyrenacantha repanda (Merr.) Merr., EPFP 2 (1923) 492; --Sleum., Fl. Males. ser. 1, 7 (1971) 76;
--*Freeria repanda* Merr., PJS 7c (1912) Bot. 292. --Type:
LUZON: Ilocos Norte, Bulacan, Quezon, Sorsogon, SAMAR, MINDANAO. Lowland
primary forests, scattered. Fl. Mar-May, fr. Sept.

14. *Sarcostigma* Wight & Arnott

Sarcostigma paniculata Pierre, Bull. Soc. Linn. Paris 2 (1897) 1319; --Sleum., Fl. Males. ser. 1, 7
(1971) 75, Fig. 38.

Sarcostigma philippinensis Merr., PJS 10 c (1915) 276. –Type:

S Vietnam, Sumatra (Riouw Archipelago), Peninsular Malaysia (Perak), Borneo, E-C Philippines.

LEYTE, SAMAR, MINDANAO. Lowland primary forests, sea-level to 500m (twice found at 1065m in Mindanao). On sandy-loam, scattered. Fl. fr. Jan-Dec.

15. *Stemonurus* Blume

Stemonurus gitingensis (Elmer) Sleum., *Blumea* 17 (1969) 261; --Sleum., *Fl. Males. ser. 1, 7* (1971) 61; --Urandra g
Stemonurus secundiflorus Merr., EPFP 2 (1923) 489, *non* Blume, *Bijdr.* (1825) 649.

SIBUYAN (Mt Giting-giting), PANAY. Primary forests, 225-600m. Fr. Mar-Apr.

Stemonurus umbellatus Becc., *Malesia* 1 (1877) 115, t. 5, Fig. 5 & 6; --Sleum., *Fl. Males. ser. 1, 7* (1971) 62, Fig. 30.

Stemonurus hallieri (Merr.) Merr., EPFP 2 (1923) 489. –*Urandra hallieri* Merr., PJS 5 c (1910) Bot. 194. –
Type:

Peninsular Malaysia, Borneo (Sabah; Sarawak), S Philippines.

BASILAN, MINDANAO: Zamboanga, Surigao. Low altitude primary forests in Mindanao.

Urandra Thwaites = *Stemonurus*, *Gomphandra*

Villaresia Ruiz & Pavon (at least as to Philippine spp.) = *Citronella*