

## Family 239. SAPOTACEAE

### Revisions:

- Lam, HJ. 1925. *The Sapotaceae, Sarcospermaceae and Boerlagellaceae of the Dutch East Indies and surrounding countries*. Bulletin du Jardin Botanique du Buitenzorg, sér. 3, 7: 1-289.
- Lam, HJ. 1927. *Further studies on Malayan Sapotaceae I*. Bulletin du Jardin Botanique du Buitenzorg sér. 3, 8: xxx--xxx

## Chrysophyllum Linnaeus

### Revision:

- Vink, W. 1958. *Revision of the Sapotaceae of the Malaysian area in a wider sense. XIII. Chrysophyllum L.*, Blumea 9: 21-74.

**Chrysophyllum cainito** L., Sp. Pl. (1753) 192; --Merr., EPFP 3 (1923) 288; --Vink, Blumea 9 (1958) 26.

Native of the West Indies and Central America. Cultivated pantropically for its edible fruit.

**Chrysophyllum lanceolatum** (Blume) A DC, Prodr. 8 (1844) 162; --Vink, Blumea 9 (1958) 28.  
**var. lanceolatum**

*Chrysophyllum roxburghii* G Don, Gen. Gard. Syst. Dict. 4 (1838) 33; --Merr., EPFP 3 (1923) 287; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 187, except syn. *C. curtisii* King & Gamble.

India, Sri Lanka, Burma, Thailand, Laos, Cambodia, Vietnam, Hainan, Hongkong, Peninsular Malaysia, Java, Borneo, Philippines, Sulawesi, Moluccas, New Guinea. LUZON: Cagayan, MINDORO, PALAWAN, NEGROS. Low altitude primary forests.

**Chrysophyllum oliviforme** L., Syst. Nat. ed. 10, 11 (1759) 937; --Vink, Blumea 9 (1958) 27.

Introduced from the neotropics. Occasionally cultivated at low altitudes in the Philippines.

## Diploknema Pierre

### Revision:

- Royen, P. van. 1958. *Revision of the Sapotaceae of the Malaysian area in a wider sense. XIV. Diploknema Pierre*, Blumea 9: 75-88.

**Diploknema ramiflora** (Merr.) HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 184, Fig. 52; --Merr., EPFP 4 (1925) 245; --Royen, Blumea 9 (1958) 78, Fig. 3; --*Madhuca ramiflora* (Merr.) Merr., EPFP 3 (1923) 278; 4 (1925) 245; --*Illipe ramiflora* Merr., Govt. Lab. Publ. (Philip.) 17 (1904) 42. --Type: FB 189 Barnes.

LUZON: Pangasinan, Zambales, Bataan, Bulacan, Laguna, Quezon. Low altitude primary forests.

## Ganua Pierre ex Dubard =Madhuca

### Revision:

- Assem, J. van den. 1953. *Revision of the Sapotaceae of the Malaysian area in a wider sense. IV. Ganua*. Blumea 7: 364-400.
- Lam, HJ. 1957. *Revision of the Sapotaceae of the Malaysian area in a wider sense. IVb. Ganua Pierre ex Dubard (2<sup>nd</sup> Supplement)*. Blumea 8: 510-513.

**Ganua monticola** (Merr.) HJ Lam, Blumea 7 (1953) 379, Fig. 6; --HJ Lam, Blumea 8 (1957) 511;

--*Madhuca monticola* (Merr.) Merr., EPFP 3 (1923) 277; 4 (1925) 245; --*Bassia monticola* Merr., PJS 10 c (1915) Bot. 56. --Type:  
*Ganua boerlageana* sensu HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 427 *non* (Burck) Pierre ex Dubard  
Borneo, Philippines. PALAWAN, SIBUYAN. Forested peaks and ridges, altitude up to 550m.

***Ganua obovatifolia*** (Merr.) Assem, Blumea 7 (1953) 390, Fig. 11; --*Madhuca obovatifolia* (Merr.) Merr., EPFP 3 (1923) 277; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1925) 180; --*Bassia obovatifolia* Merr., PJS 10 c (1915) Bot. 57. --Type:  
LUZON: Quezon (Guinayangan), Camarines Norte (near Daet). Low altitude primary forests.

***Ganua palembanica*** (Miq.) Assem & Kosterm., Blumea 7 (1954) 482; --Soejarto et al. (1995) Prelim. Checklist Fl. Pl. Palawan.  
**Extra-Philippine distribution?** PALAWAN: Mt Beaufort, *Soejarto et al. 7100*, F, PNH.

### ***Madhuca* Buchanan-Hamilton ex J. Gmelin**

#### **Revision:**

Royen, P. van. 1960. *Revision of the Sapotaceae of the Malaysian area in a wider sense. XX. Madhuca Gmelin*. Blumea 10: 1-117

***Madhuca betis*** (Blanco) MacBride, Contr. Gray Herb. Harvard Univ. N.S. 53 (1918) 18; --Merr., EPFP 3 (1923) 276; --Blumea 10 (1960) 39.  
*Madhuca philippinensis* Merr., PJS 20 (1922) 430; EPFP 3 (1923) 278; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 166; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 447, Fig. 19.  
Borneo, Sulawesi, Muna and the Philippines.  
LUZON: Cagayan, Isabela, Aurora, Quezon, Cavite, Camarines, MINDORO,  
MINDANAO: Cotabato. Primary Lowland rainforests.

***Madhuca burckiana*** (Koord.) HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 172; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 453, t. 21; --Royen, Blumea 10 (1960) 68.  
*Madhuca fusicarpa* (Elmer) Merr., EPFP 3 (1923) 276; 4 (1925) 245.  
Sulawesi, Muna, Sumbawa, Borneo, Philippines, Ambon, and New Guinea. LUZON: Cagayan, DINAGAT, MINDANAO: Davao, Agusan del Norte (Mt Urdaneta), Surigao. Primary lowland forests, ascending to 1000m.

***Madhuca coriacea*** (Merr.) Merr., EPFP 3 (1923) 276; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 180, 264; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 462; --Royen, Blumea 10 (1960) 107.  
LUZON, SAMAR, LEYTE. Lowland primary rainforests.

***Madhuca lanceolata*** (Merr.) Merr., EPFP 3 (1923) 276; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 182; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 462; --Royen, Blumea 10 (1960) 110. --Type: Ahern 493 (NY\*, US\*). Dinagat, 1902.  
DINAGAT. Probably in lowland forest.

***Madhuca mindanaensis*** (Merr.) Merr., EPFP 3 (1923) 277; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 175, 264, t. 48; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 455; --Royen, Blumea 10 (1960) 19.  
Borneo (Sabah & Kalimantan) and MINDANAO: Misamis. Lowland primary forests.

***Madhuca mirandae*** (Merr.) Merr., EPFP 3 (1923) 277; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 174; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 460; --Royen, Blumea 10 (1960) 90.

MINDANAO: Zamboanga (Mt Kaladis). Forested ridge, c.100m.

**Madhuca multiflora** (Merr.) MacBride, Contr. Gray Herb. Harvard Univ. N.S. 53 (1918) 18; --Merr., EPFP 3 (1923) 65; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 449; --Royen, Blumea 10 (1960) 65.

LUZON: Bataan, Rizal (Antipolo & Boso-boso), POLILLO (Anibawan), PANAY: Capiz (Mt Timbaban), MINDANAO: Lanao. Lowland primary rainforests.

**Madhuca oblongifolia** (Merr.) Merr., EPFP 3 (1923) 277; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 166; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 447;--Royen, Blumea 10 (1960) 105.

LUZON: Quezon (Infanta & Llavac), Camarines Norte (Paracale). Lowland primary forests.

**Madhuca platyphylla** (Merr.) Merr., EPFP 3 (1923) 278; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 167; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 449; --Royen, Blumea 10 (1960) 65.

MINDANAO: Zamboanga del Sur (Margosatubig), alt. 70m.

### **Manilkara Adanson emend. Gilly**

#### **Revision:**

Royen, P van. 1953. *Revision of the Sapotaceae of the Malaysian area in a wider sense. V. Manilkara*. Blumea 7: 401-412.

**Manilkara fasciculata** (Warb.) HJ Lam & Maas Geest., Blumea 4 (1941) 335, Fig. 8.

Mimusops callophyloides Merr., PJS 10 c (1915) Bot. 337; --Merr., EPFP 3 (1923) 288. --Type: FB 22834 Ponce (L\*, NY\*, US\*, iso). Mindanao: Surigao prov., Cadyangao, rather dense forest at about sea level, 20 Aug. 1914

Manilkara merrilliana HJ Lam, Blumea 4 (1941) 334, Fig. 7.

Philippines, Sulawesi, New Guinea. LUZON: Quezon (E coast), SAMAR, MINDANAO: Surigao. Low altitude forests.

**Manilkara kauki** (L.) Dubard, Ann. Mus. Col. Mars. 23 (1915) 9, Fig. 1 & 2; --Royen, Blumea 7 (1953) 405; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1925) 239.

Mimusops kauki L., Sp. Pl. (1753) 349; --Merr., EPFP 3 (1923) 288.

Native from Burma, through Peninsular Malaysia to tropical Australia. Introduced in the Philippines

**Manilkara zapota** (L.) Royen, Blumea 7 (1953) 410; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1925) 218.

Achras zapota L., Sp. Pl. (1753) 1190; --Merr., Fl. Manila (1912) 363; EPFP 3 (1923) 283.

Introduced from the Neotropics, now pantropical in cultivation for its edible fruits. Grown in the lowlands.

### **Mimusops Linnaeus**

**Mimusops elengi** L., Sp. Pl. (1753) 349; --Merr., Fl. Manila (1912) 368; EPFP 3 (1923) 288; --Royen, Blumea 6 (1952) 594.

Mimusops parvifolia R Br., Prodr. (1810) 531; --Merr., EPFP 3 (1923) 288.

### **Palaquium Blanco**

**Revision:**

Royen, P. van. 1960. *Revision of the Sapotaceae of the Malaysian area in a wider sense. XXIII.*  
*Palaquium Blanco*. Blumea 10: 432-606.

**Palaquium abundantiflorum** HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 61, Fig. 11; --Merr., EPFP 4 (1925) 245; --Royen, Blumea 10 (1960) 457.

*Palaquium barnesii* Merr., EPFP 3 (1923) 278, *non* Merr., 1903.

LUZON: Bataan (Lamao River). Fl. Jan.

**Palaquium barnesii** Merr., Bur. Govt. Lab. Publ. (Philipp.) 6 (1903) 13; --HJ Lam, Bull. Jard. Bot. Buitenzorg ser. 3, 7 (1925) 67; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 401; --Royen, Blumea 10 (1960) 484.

LUZON: Bataan, MASBATE. Primary forests at low and medium altitudes. Fl. Jan.

**Palaquium bataanense** Merr., Bur. Govt. Lab. Publ. (Philipp.) 17 (1904) 44; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 37; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 395; --Royen, Blumea 10 (1960) 527, Fig. 14.

BATANES (no definite locality, based on BS 3668 Fenix (NY), LUZON: Bataan, SIBUYAN, PALAWAN, CAMIGUIN, MINDANAO: Lanao (Butig). Dry hill forests at low altitudes. Recorded at 700-850m in Lanao. Fl.-Jan, Mar, Oct; Fr.-Mar., May, Jun.

**Palaquium calophyllum** (Teijsm. & Binn.) Pierre, *in* Burcke, Ann. Jard. Bot. Buitenz. 5 (1886) 28; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 52, incl. var. *typica* & var. *philippinense* HJ Lam; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 398; --Royen, Blumea 10 (1960) 558, Fig. 20.

Peninsular Malaysia, Moluccas (Ternate), New Guinea, Philippines: MINDANAO (Surigao, 20m).

**Palaquium cuneifolium** Merr., EPFP 3 (1923) 279; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 35, 254; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 391; --Royen, Blumea 10 (1960) 585. *Palaquium heterosepalum* Merr., PJS 10 c (1915) Bot. 61; EPFP 3 (1923) 280; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 38; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 395.

LUZON: Ilocos Norte; Ilocos Sur; Zambales (Botolan); Bulacan; Rizal (Montalban & adjacent mtns); Batangas (Tanauan), MINDORO: Mindoro Occidental (Paluan), PANAY: Iloilo (Mt Pulacan, Miag-ao), GUIMARAS, CEBU. In primary and secondary forests, or in swamp, 200-1200m. Fl. Dec.-Jan; Fr. Dec.-Mar. Possibly in Borneo (Sarawak), *vide* Royen.

**Palaquium cuprifolium** Elmer, LPB 8 (1915) 2817; --Merr., EPFP 3 (1923) 279; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 77; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 407; --Royen, Blumea 10 (1960) 479.

MINDANAO: Agusan del Norte (Mt Urdaneta). Humus-covered clay of forested ridges at 300m. Fr. Jul.

**Palaquium dubardii** Elmer, LPB 3 (1910) 868; --Merr., EPFP 3 (1923) 279; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 38; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 395; --Royen, Blumea 10 (1960) 583.

LUZON: Zambales, PALAWAN (Mt Pulgar), SIBUYAN (Paula River; Mt Giting-giting), PANAY, SAMAL. Primary forests, 200-600m, on red soil with gravelly subsoil on wooded banks.

**Palaquium elliptilimbium** Merr., PJS 27 (1925) 46; EPFP 4 (1925) 253; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 412; --Royen, Blumea 10 (1960) 490.

LUZON: Rizal (Montalban), POLILLO (Anibawan).

**Palaquium elongatum** Merr., PJS 3 c (1908) Bot. 257; EPFP 3 (1923) 279; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 61; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 400; --Royen, Blumea 10 (1960) 551.

LUZON: Nueva Ecija, Quezon (E coast). In primary forests at low altitudes.

**Palaquium formosanum** Hayata, J. Coll. Sci. Tokyo 30 (1911-12) 184; --Merr., EPFP 3 (1923) 280; 4 (1925) 245; --Royen, Blumea 10 (1960) 472.

*Palaquium polyandrum* Hayata, J. Coll. Sci. Tokyo 30 (1911-12) 185, *non* C Robinson (1908).

*Palaquium paucivenosum* HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 101, Fig. 29; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 412. --Type: BS 4101 Fenix. Camiguin (SING).

Taiwan, Lanyu, Lutao, and the Philippines. BATAN (Mt Iraya), CAMIGUIN DE BABUYANES, LUZON (based on Haenke 434 (NY), no definite locality).

**Palaquium foxworthyi** Merr., PJS 10 c (1915) Bot. 50; EPFP 3 (1923) 280; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 98; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 411; --Royen, Blumea 10 (1960) 530.

LUZON: Zambales, Bataan, Laguna, Quezon. Primary forests, ascending to 300m.

**Palaquium gigantifolium** Merr., Bur. Govt. Lab. Publ. (Philipp.) 6 (1903) 14; EPFP 3 (1923) 280; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 75; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 407; --Royen, Blumea 10 (1960) 477.

LUZON: Quezon (Mt Binuang; Lucban; Pagbilao), Laguna, CATANDUANES, MINDORO: Mindoro Oriental (Pinamalayan; Baco River; Alag River), MINDANAO. Recorded at 1000m in Laguna. Fl. Apr, Fr. May.

**Palaquium glabrifolium** Merr., PJS 14 (1919) 46; EPFP 3 (1923) 280; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 46; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 398; --Royen, Blumea 10 (1960) 583. PANAY: Capiz (Mt Macosolon, altitude 228m). Fl. Apr.-May.

**Palaquium glabrum** Merr., PJS 10 c (1915) Bot. 61; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 102; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 412; --Royen, Blumea 10 (1960) 531.

LUZON: Aurora (Mt Dingalan), Rizal. Primary forests at low altitudes.

**Palaquium globosum** HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 76; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 407; --Merr., EPFP 4 (1925) 245; --Royen, Blumea 10 (1960) 478.

*Palaquium retusum* (*non* Becc.) Merr., PJS 3 c (1908) Bot. 256; EPFP 3 (1923) 283; 4 (1925) 245.

LUZON: Benguet, Pangasinan (Labrador). In forests and forested ravines, 300-1200m. Fl. in Mar., Nov., Dec.; Fr. in Nov.

**Palaquium lanceolatum** Blanco, Fl. Filip. ed. 1 (1837) 403; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 103; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 412; --Royen, Blumea 10 (1960) 541, Fig. 17.

*Madhuca pacifica* Baehni, Boissiera 11 (1965) 36. --Type: BS 75240 Ramos & Edaño (SING\*, holo for fruit). Catanduanes, Jul-Sept 1928.

*Palaquium pacificum* Elmer, ined.

LUZON: Bataan (Lamao River & Mt Mariveles), Rizal (San Mateo & Baras), Quezon (Mauban), Sorsogon (Mt Bulusan), CATANDUANES. Lowland rainforests.

**Palaquium loheri** Merr., PJS 27 (1925) 47; EPFP 4 (1925) 253; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 413; --Royen, Blumea 10 (1960) 525. --Type: Loher 13396 (K, Lecto).

LUZON: Rizal.

**Palaquium luzoniense** (Fern.-Villar) Vidal, Rev. Pl. Vasc. Filip. (1886) 176; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 400; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 400; --Royen, Blumea 10 (1960) 526.

*Palaquium ahernianum* Merr., Philipp. For. Bur. Bull. 1 (1903) 46; EPFP 3 (1923) 278.

LUZON: Ilocos Sur, Zambales, Bataan, Aurora, Rizal, MINDORO: Mindoro Oriental (Bongabong River), MASBATE, SIBUYAN, PANAY: Iloilo (Mt Balutinao; Miag-ao), GUIMARAS (Sulangun Hill), MINDANAO: Zamboanga (Sta. Maria), Lanao, Agusan, Surigao. Primary forests at low and medium altitudes. Fl. Aug-Jan.

***Palaquium merrillii*** Dubard, Bull. Mus. Hist. Nat. 15 (1909) 381; -- HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 96; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 411; --Royen, Blumea 10 (1960) 534, Fig. 15. *Palaquium lanceolatum* (non Blanco) Merr.

BATAN, LUZON: Laguna (Mt Makiling), Quezon (Calauag), Camarines (Dalupaon & Pasacao), Sorsogon (Mt Bulusan), POLILLO (Karlagan), MINDORO, GUIMARAS, MINDANAO: Agusan del Norte (Butuan).

***Palaquium mindanaense*** Merr., Bur. Govt. Lab. Publ. (Philipp.) 6 (1904) 15; EPFP 3 (1923) 281; -- HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 105; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 413; --Royen, Blumea 10 (1960) 524. --Type: Ahern 837 (PNH, holo, lost; lecto in NY\*, isolecto: US\*)

MINDANAO: Lanao, Cotabato. Lowland primary rainforests.

***Palaquium montanum*** Elmer, LPB 8 (1919) 3102; --Merr., EPFP 3 (1923) 281; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 59; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 400; --Royen, Blumea 10 (1960) 463.

LUZON: Laguna (Mt Makiling), MINDANAO: Davao (Mt Apo). In forest, c. 1100m. Fl. Jun-Jul.

***Palaquium obovatum*** (Griff.) Engl., Bot. Jahrb. 12 (1890) 511; --Merr., EPFP 4 (1925) 245.

**var. orientale** HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 84; --Royen, Blumea 10 (1960) 455.

*Palaquium celebicum* Burck; --Merr., EPFP 3 (1923) 279; 4 (1925) 245.

*Palaquium theoideum* Elmer, LPB 3 (1910) 868; --Merr., EPFP 3 (1923) 283

Philippines, Sulawesi, Sula Isls, Buton, Muna, Ambon, Bacan, Ternate, Halmahera, Sumbawa, Aru Isls, Flores.

LUZON: Rizal, MINDORO, SIBUYAN (Mt Giting-giting), SAMAR (Catubig River), CAMIGUIN DE MINDANAO. Forested ridges, 1000-1300m.

***Palaquium obtusifolium*** Burck, Ann. Jard. Bot. Buitenz. 5 (1886) 33; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 100; --Royen, Blumea 10 (1960) 515.

*Palaquium negrosense* Merr., PJS 10 c (1915) Bot. 63; EPFP 3 (1923) 281; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 99; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 411

Sumatra, Java (cultivated), Bali, Sumbawa, Selayar, Philippines, Buton, Sulawesi, Sula Isls, Talaud, Ternate, Buru, Seram, Morotai, Tanimbar Isls, New Guinea.

NEGROS: Negros Occidental (San Carlos, type locality of *P. negrosense*); MINDANAO: Zamboanga. Lowland primary forests.

***Palaquium philippense*** (Perr.) C. Robinson, PJS 3 c (1908) Bot. 304; -- HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 59, 255; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 400; --Royen, Blumea 10 (1960) 466, fig. 3.

LUZON: Isabela, Bataan, Tarlac, Bulacan, Rizal, Batangas, Quezon, Camarines Sur, Albay, Sorsogon, MINDORO: Mindoro Occidental (Mt Calavite), PANAY: Capiz, NEGROS, LEYTE (Ormoc, Lake Danao), MINDANAO: Davao (Mt Apo). Common in lowland and medium altitude primary forests. Fl. Aug-Sep.

***Palaquium pinnatinervium*** Elmer, LPB 8 (1915) 2819; --Merr., EPFP 3 (1923) 282; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 55; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 399; --Royen, Blumea 10 (1960) 487.

MINDANAO: Agusan del Norte (Mt Urdaneta). Primary forests up to 900m. Fr. Sept.

**Palaquium polyandrum** C Robinson, PJS 3 c (1908) Bot. 212; --Merr., EPFP 3 (1923) 282; 4 (1925) 245; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 76; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 407; --Royen, Blumea 10 (1960) 485.

*Palaquium lepidotum* C Robinson, *ined.*

*Palaquium wenzelii* Merr., *ined.*

PANAY, LEYTE (Dagami, Tacloban), SAMAR (Mt Malignon), MINDANAO: Zamboanga (Malangas; Sax River & San Ramon), Misamis, Lanao del Sur (Camp Keithley). Agusan del Norte (Mt Urdaneta).

**Palaquium pseudorostratum** HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 393, Fig. 3; --Royen, Blumea 10 (1960) 586.

Borneo (Sabah, Sarawak and Kalimantan) and the Philippines (no exact locality, based on Lay *sn* (BM), fr.

**Palaquium sorsogonense** Elmer ex HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 65, Fig. 13; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 401; --Merr., EPFP 3 (1923) 283; 4 (1925) 245; --Royen, Blumea 10 (1960) 468.

LUZON: Cagayan (Abulug), Quezon (Lucban), Camarines Sur (Mt Bagacay), Sorsogon (Mt Bulusan, type locality), BILIRAN (Mt Suiro), LEYTE (Mt Abucayan), SAMAR (Catubig River; Mt Cansayao), Lowland primary forests, swampy habitats, riverine forests, etc. Fl. Dec.

**Palaquium tenuipetiolatum** Merr., Bur. Govt. Lab. Publ. (Philipp.) 17 (1904) 45; EPFP 3 (1923) 283; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 95; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 410; --Royen, Blumea 10 (1960) 529.

*Palaquium vulcanicum* Elmer, *msc.*

LUZON: Bataan, Laguna, Quezon, Camarines Sur, Sorsogon, MINDORO. Common in primary forests and dry hill forests at low and medium altitudes.

#### **Doubtful species:**

*Palaquium vidalii* Pierre ex Dubard, Bull. Mus. Hist. Nat. 15 (1909) 381; --Merr., EPFP 3 (1923) 283; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 106; Bull. Jard. Bot. Buitenz. ser. 3, 8 (1927) 413; --Royen, Blumea 10 (1960) 598.

Known only from original description. Type specimen, Vidal 9 (in P?) not traced by Royen. Exact Philippine locality not known.

### **Payena A de Candolle**

#### **Revision:**

Bruggen, AC van. 1958. *Revision of the Sapotaceae of the Malaysian area in a wider sense. XV. Payena A de Candolle*, Blumea 9: 89-138.

**Payena leerii** (Teijsm. & Binn.) Kurz, J. As. Soc. Beng. 40, 2 (1871) 69; --HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 137; 261; --Brugg, Blumea 9 (1958) 121.

*Madhuca leerii* (Teijsm. & Binn.) Merr., EPFP 3 (1923) 277.

Peninsular Malaysia, Sumatra, Riau, Banka, Borneo, Philippines.

PALAWAN, TAWI-TAWI, MINDANAO: Zamboanga. Low altitude primary forests.

### **Planchonella Pierre**

#### **Revision:**

Royen, P. van. 1957. *Revision of the Sapotaceae of the Malaysian area in a wider sense. VII. Planchonella Pierre*, Blumea 8: 235-445.

**Planchonella firma** (Miq.) Dubard, Ann. Mus. Col. Mars. 20 (1912) 59; --Merr., EPFP 4 (1925) 245; --Royen, Blumea 8 (1957) 316.

**var. firma**

*Pouteria firma* (Miq.) Baehni, Mem. Sapot. Candollea 9 (1942) 284.

*Planchonella fragrans* (Elmer) HJ Lam, Proc. 6<sup>th</sup> Pacific Sc. Congr. Berkeley (1939) 680.

*Sideroxylon fragrans* Elmer, LPB 3 (1910) 871; --Merr., EPFP 3 (1923) 285.

*Sideroxylon gitingense* Elmer, LPB 3 (1910) 873; --Merr., EPFP 3 (1923) 285.

*Sideroxylon angustifolium* Merr., Govt. Lab. Publ. (Philipp.)\_35 (1906) 56; EPFP 3 (1923) 284.

Sumatra, Peninsular Malaysia, Philippines, Sulawesi, Lesser Sunda Isls, New Guinea, Solomon Isls. LUZON: Bataan, Camarines, SIBUYAN, NEGROS, LEYTE. Primary forests, including over ultramafics, altitude 200-500m; 1000-1150m

**Planchonella foxworthyi** (Elmer) HJ Lam, Proc. 6<sup>th</sup> Pacific Sci. Congr. Berkeley (1939) 678; --Royen, Blumea 8 (1957) 319; --*Sideroxylon foxworthyi* Elmer, LPB 5 (1913) 1836; --Merr., EPFP 3 (1923) 285.

PALAWAN, MINDANAO: Bulidnon. Primary forests, altitude 300-800m.

**Planchonella linggensis** (Burck) Pierre, Not. Bot. Sapot. (1890) 35; --Royen, Blumea 8 (1957) 384.

*Planchonella oxyedra* Dubard, Ann. Mus. Col. Mars. 20 (1912) 50, ---Merr., EPFP 4 (1925) 246.

*Sideroxylon pittosporifolium* Elmer, LPB 3 (1910) 873; --Merr., EPFP 3 (1923) 286.

**var. linggensis**

Sumatra, Java, Philippines, Sulawesi, Ambon, isls W end of New Guinea.

LUZON: Laguna, Batangas, Camarines, PALAWAN, SIBUYAN, MINDANAO: Surigao. Low and medium altitude forests.

**Planchonella mindanaensis** HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 207, Fig. 57; --Royen, Blumea 8 (1957) 414; --*Pouteria mindanaensis* (HJ Lam) Baehni, Mem. Sapot. Candollea 9 (1942) 326; --*Sideroxylon mindanaense* Merr. ex HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 207, Fig. 57; --Merr., EPFP 4 (1925) 246.

MINDANAO: Lanao del Sur (Lake Lanao). Low altitude forests.

**Planchonella nitida** (Blume) Dubard, Ann. Mus. Col. Mars. 20 (1912) 62; --Royen, Blumea 8 (1957) 362.

*Pouteria duclitan* (Blanco) Baehni, Mem. Sapot. Candollea 9 (1942) 283; --*Sideroxylon duclitan* Blanco, Fl. Filip. (1837) 129; --Merr., EPFP 3 (1923) 285; 4 (1925) 245.

*Sideroxylon balitbitan* Blanco, Fl. Filip. (1837) 130, 92, 169.

*Sideroxylon ramiflorum* Merr., Gov. Lab. Publ. (Philipp.) 17 (1904) 43.

Bangladesh, Burma, Andaman Isls, Philippines.

BABUYAN ISLS, LUZON: Ilocos Norte, Cagayan, Bataan, Laguna, Quezon, Batangas, Camarines, MINDORO, PALAWAN, MINDANAO: Zamboanga, Cotabato. Low and medium altitude forests.

**Planchonella obovata** (R Br.) Pierre, Not. Bot. Sapot. (1890) 36; --Royen, Blumea 8 (1957) 368; --*Pouteria obovata* (R Br.) Baehni, Mem. Sapot. Candollea 9 (1942) 324.

*Sideroxylon acuminatum* Elmer, LPB 4 (1912) 1487; --Merr., EPFP 3 (1923) 284.

*Sideroxylon ahernianum* Merr., Govt. Lab. Publ. (Philipp.) 35 (1906) 55; EPFP 3 (1923) 284.

*Sideroxylon attenuatum* DC, Prodr. 8 (1844) 178.

*Sideroxylon ferrugineum* Hook. & Arn., Bot. Capt. Beechey's Voyage 6 (1841) 266, t. 55; --Merr., EPFP 3 (1923) 285; 4 (1925) 245

*Sideroxylon merrillii* (Dubard) Merr., EPFP 3 (1923) 286.

*Sideroxylon philippense* (Dubard) Merr., EPFP 3 (1923) 287.

*Sideroxylon apoensis* Elmer, LPB 8 (1915) 2821; --Merr., EPFP 3 (1923) 284.

India, Bangladesh, Andaman Isls, Nicobar Isls, Burma, Thailand, Indochina, Hainan, Peninsular Malaysia, Philippines, Solomon Isls, Australia, Palau, Caroline Isls, Marianas



Isis, Bonin.

Throughout the Philippines in most islands and provinces. Beach forests and thickets, lowland to montane forests, ascending to 1350m.

**Planchonella velutina** (Elmer) HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 215; --Royen, Blumea 8 (1957) 411.

*Pouteria velutina* (Elmer) Baehni, Mem. Sapot., Candollea 9 (1942) 380.

*Sideroxylon velutinum* Elmer, LPB 5 (1913) 1834; --Merr., EPFP 3 (1923) 287; 4 (1925) 246.

*Sideroxylon bulusanense* Elmer ex HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 215, *in syn.*

**var. velutina**

LUZON: Camarines, Sorsogon, PALAWAN, NEGROS, LEYTE, SAMAR. Low altitude forests.

**var. sarcocarpa** (Merr.) HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 215; --Royen, Blumea 8 (1957) 412; --*Sideroxylon sarcocarpum* Merr., PJS 11 c (1916) Bot. 29.

LUZON: Sorsogon (Mt Bulusan). Low and médium altitude primary forests.

### **Pouteria Aublet**

**Revision:**

Herrmann-Erlee, MPM & P. van Royen, 1957. *Revision of the Sapotaceae of the Malaysian area in a wider sense. IX. Pouteria Aublet*, Blumea 8: 452-509.

**Pouteria luzoniensis** (Merr.) Baehni, Mem. Sapot. Candollea 9 (1942) 365; --Herrman-Erlee & van Royen, Blumea 8 (1957) 461; --*Lucuma luzoniensis* (Merr.) HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 227; --*Sideroxylon luzoniense* Merr., PJS 1 (1906) Suppl. 222; EPFP 3 (1923) 286; 4 (1925) 246

**var. luzoniensis**

Kangean, Bali, Borneo (Sabah), Philippines.

LUZON: Cagayan, Pampanga, Rizal, Batangas, Quezon, Camarines, LUBANG, TICAQ. Low and médium altitude thickets and forests.

**Pouteria macrantha** (Merr.) Baehni, Mem. Sapot. Candollea 9 (1942) 328; -- Herrman-Erlee & van Royen, Blumea 8 (1957) 485; --*Lucuma macrantha* (Merr.) HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 225; --*Sideroxylon macranthum* Merr., Govt. Lab. Publ. (Philipp.) 35 (1905) 56; EPFP 3 (1923) 286; 4 (1925) 246.

*Lucuma dolichosperma* HJ Lam, Bull. Jard. Bot. Buitenz. ser. 3, 7 (1925) 223, Fig. 60.

*Sideroxylon stenophyllum* Merr., PJS 3 c (1908) Bot. 258; EPFP 3 (1923) 287

Philippines, Sulawesi, Ambon.

LUZON: Ilocos Sur, Cagayan, Nueva Ecija, Bataan, Laguna, Quezon, Camarines, MINDORO, SIBUYAN, TICAQ, BALABAC. Low altitude primary forests, to c. 600 in Mindoro.

**Pouteria villamilii** (Merr.) Baehni, Mem. Sapot. Candollea 9 (1942) 328; -- Herrman-Erlee & van Royen, Blumea 8 (1957) 483; --*Sideroxylon villamilii* Merr., PJS 10 c (1915) 59; --Merr., EPFP 3 (1923) 287; 4 (1925) 246.

LUZON: Cagayan, Bataan, Laguna, SIARGAO. Médium altitude primary forests.

Cultivated:

**Pouteria campechiana** (Kunth) Baehni, Candollea 9 (1942) 398.

**var. nervosa** (DC) Baehni, Candollea 9 (1942) 401; --*Lucuma nervosa* A DC, Prodr. 8 (1844) 169.

### **Xantholis Rafinesque**

**Revision:**

Royen, P van. 1957. *Revision of the Sapotaceae of the Malaysian area in a wider sense. VI.*  
*Xantholis Rafinisque*, Blumea 8: 207-234.

**Xantholis parvifolia** (A DC) Royen, Blumea 8 (1957) 221; --*Sideroxylon parvifolium* (A DC) Fern.-  
Villar, Novis. App., --Merr., EPFP 3 (1923) 286.

Ilocos Norte, Ilocos Sur, Pangasinan, Batangas. Low altitude forests.

***Occasionally cultivated:***

*Calocarpum sapota* (Jacq.) Merr., EPFP 3 (1923) 284.

Introduced to the Philippines during the Spanish colonial times from Mexico.

Occasionally planted in Luzon.