

## Family 99. MYRISTICACEAE

### Revision:

Wilde, WJJO de 2000. *Myristicaceae*. Flora Malesiana ser. 1, 14: 1-632.

Sinclair, J. 1958. *Gardens Bulletin Singapore* 16: 205-470, pl. 1-14.

### Endocomia de Wilde

### Revision:

Wilde, WJJO de.1984. *Endocomia, a new genus of Myristicaceae*. Blumea 30: 173-196.

**Endocomia macrocoma** (Miq.) de Wilde, Blumea 30 (1984) 182, 184, Fig. 2i; 3d; 41 (1996) 375; Fl. Males. ser. 1, 14 (2000) 32, Fig. 3i, 4d.

#### **ssp. macrocoma**

Moluccas (Talaud, Morotai, Halmahera, Bacan, Obi, Buru, Seram, Ambon); possibly Sulawesi (sterile coll.) and the Philippines: NE LUZON (Palanan, Ridsdale ISU 317). According to de Wilde (2000), the Palanan material strongly deviates in its very hairy appearance, and may represent a separate taxon. Forest with little undergrowth, on alluvial flats locally with stagnant water, or hill slopes; on porous volcanic soil, or loam soil with stones; also in disturbed forest; 0-400 m altitude. fl. and fr. throughout the year (Fl. Mal 14:33)

**ssp. prainii** (King) de Wilde, Blumea 30 (1984) 187, 184, Fig. 3b, c.; Fl. Males. Ser. 1, 14 (2000) 35, Fig. 4b, c.

Horsfieldia oblongata Merr., PJS 13 c (1918) Bot. 286; EPFP 2 (1923) 182;

S China (Yunnan), India (Assam), Andaman Isls., Bangladesh, Burma, Indochina; Malesia: W Sumatra, W Java, Philippines, New Guinea. LUZON (Quezon, Camarines provinces), MINDORO, PANAY, SAMAR, LEYTE, CAMIGUIN DE MINDANAO. Lowland and hillside forest, riverine or swamp forest; by streams, on alluvial or clayey soil, in limestone country, or on copper-rich soil; 0-500m altitude; fl. and fr. throughout the year, but in Philippines mainly Mar.-May.

### Gymnacranthera (A de Candolle) Warburg

### Revisions:

Sinclair, J. 1958. *Garden's Bulletin Singapore* 16: 434-

Sinclair, J. 1958. *The genus Gymnacranthera (Myristicaceae) in Malaysia*. *Garden's Bulletin Singapore* 17 (1958) 96-120.

Schouten, RTA. 1986. *Revision of the genus Gymnacranthera (Myristicaceae)*. Blumea 31: 451-486.

**Gymnacranthera farquhariana** (Hook.f. & Thomson) Warb., *Mon. Myrist.* (1897) 365, t. 20; --RTA Schouten, Blumea 31 (1986) 476, Fig. 7; --de Wilde, Fl. Males. Ser. 1, 14 (2000) 44.

**var. paniculata** (A DC) RTA Schouten, Blumea 31 (1986) 481; --de Wilde, Fl. Males. Ser. 1, 14 (2000) 47.

*Gymnacranthera paniculata* (A. DC) Warb., *Mon. Myrist.* (1897) 370, t. 20; --Merr., EPFP 2 (1923) 181.

*Gymnacranthera acuminata* Merr., PJS 12 c (1917) Bot. 265; EPFP 2 (1923) 181.

*Gymnacranthera macrobotrys* Merr., PJS 13 c (1918) Bot. 284; EPFP 2 (1923) 181.

Widespread Philippine endemic: BABUYAN ISLS (CALAYAN), LUZON: Ilocos Norte, Cagayan, Isabela, Aurora, Nueva Vizcaya, Bataan, Rizal, Laguna, Camarines, Albay, Sorsogon, MINDORO, SIBUYAN, TICAPO, PANAY: Capiz, Aklan, LEYTE, SAMAR,

BASILAN, MINDANAO: Zamboanga peninsula, Agusan del Norte, Surigao del Norte. Lowland and medium altitude forests, on ridges, as well as by rivers and lakes, up to 1400 m altitude. Common.

**var. zippeliana** (Miq.) RTA Schouten, *Blumea* 31 (1986) 482; --de Wilde, *Fl. Males. Ser.* 1, 14 (2000) 47.  
*Gymnacranthera suluensis* Warb., *Mon. Myrist.* (1897) 373; EPFP 2 (1923) 181. --Syntypes: Vidal 3546, 3561. Basilan.  
Peninsular Malaysia, S Philippines and New Guinea (incl. the Bismarck Archipelago)

### **Horsfieldia Willdenow**

#### **Revision:**

Wilde, WJJO de. 1985. *A new account of the genus Horsfieldia (Myristicaceae), part 1.* *Gardens' Bulletin Singapore* 37: 115-179; part. 2. *ibid.* 38 (1985) 55-144; part 3. *ibid.* 38 (1985) 185-226; part. 4. *ibid.* 39 (1985) 1-65.

**Horsfieldia ardisiifolia** (A DC) Warb., *Mon. Myrist.* (1897) 274; --de Wilde, *Gard. Bull. Sing.* 28 (1975) 3; *ibid.*, 38, 1 (1985) 72, Fig. 9; *Fl. Males. ser.* 1, 14 (2000) 90, Fig. 10.  
*Horsfieldia warburgiana* Elmer, *LPB* 3 (1911) 1061; --Merr., EPFP 2 (1923) 183. --Type: Elmer 12297.  
*Horsfieldia gigantifolia* Elmer, *LPB* 9 (1925) 3120, 3129, *nom. nud.*  
LUZON, MINDORO, SIBUYAN, LEYTE, SAMAR. Lowland forest in moist valleys, 0-400m alt. Fl. & fr. throughout the year.

**Horsfieldia costulata** (Miq.) Warb., *Mon. Myrist.* (1897) 350; --de Wilde, *Gard. Bull. Sing.* 39 (1986) 38; *Fl. Males. ser.* 1, 14 (2000) 105.  
*Horsfieldia megacarpa* Merr., *PJS* 13 c (1918) Bot. 286; EPFP 2 (1923) 182. --Type: BS 16527 Ramos.  
*Horsfieldia confertiflora* Merr., *PJS* 13 c (1918) Bot. 285; EPFP 2 (1923) 182. --Type: FB 3183 Ahern's Collector.

Sulawesi and the Philippines.

LUZON: Cagayan, Bataan, Laguna, Quezon, Camarines,  
MINDORO, PALAWAN, LEYTE, BASILAN, MINDANAO: Misamis. Mixed rain forest, primary dipterocarp forest; recorded from alluvial soil and volcanic soil, with *Eucalyptus deglupta* dominance; 250-1200 m altitude.

**Horsfieldia irya** (Gaertn.) Warb., *Mon. Myrist.* (1897) 317 (incl. var. or forma *ceylanica*, *javanica*, *malayana*, *moluccana*, *siamensis*, *wallichii*), t. 22; --J Sinclair, *Gard. Bull. Sing.* 16 (1958) 382, Fig. 33, pl. 19A; *ibid.* 28 (1975) 61; --de Wilde, *Gard. Bull. Sing.* 38, 1 (1985) 55, Fig. 6; *Fl. Males. ser.* 1, 14 (2000) 132, Fig. 20.  
*Horsfieldia acuminata* Merr., *PJS* 17 ('1920', 1921) 253; EPFP 2 (1923) 181. --Type: FB 27507 de Mesa.  
Sri Lanka, Andaman & Nicobar Isls, Burma, Thailand, Cambodia, S Vietnam, Sumatra, Peninsular Malaysia, Singapore, Java, Borneo, C(?) & S Philippines, Sulawesi, Moluccas, New Guinea, Solomon Isls, Caroline Isls.

**Horsfieldia obscura** de Wilde, *Gard. Bull. Sing.* 39 (1) (1986) 44; *Fl. Males. ser.* 1, 14 (2000) 153.  
--Type from Borneo (E Kalimantan).

Borneo (E Kalimantan; possibly Sarawak), Philippines.  
PALAWAN.

**Horsfieldia obscurinervia** Merr., *PJS* 12 c (1917) Bot. 265; EPFP 2 (1923) 182; --de Wilde, *Gard. Bull. Sing.* 38, 1 (1985) 71; *Fl. Males. Ser.* 1, 14 (2000) 154. --Type: FB 26503 de Mesa & Magistrado.  
*Horsfieldia ramosii* Merr., *PJS* 17 ('1920', 1921) 254; EPFP 2 (1923) 182. --Type: BS 35047 Ramos.  
LUZON. Low hills, altitude c. 20m. Fl. Jul; fr. Nov, Dec.

**Horsfieldia polyspherula** (Hook.f. *emend.* King) J Sinclair, Gard. Bull. Sing. 16 (1958) 422, Fig. 47, pl. XII-B; 28 (1975) 101, *p.p.* for the type variety only; --de Wilde, Gard. Bull. Sing. 39

(1986) 17; Blumea 41(

**var. polyspherula**

Sumatra, Peninsular Malaysia, Singapore, Borneo (Sarawak; Sabah; E Kalimantan), Philippines.

LUZON, PALAWAN, MINDANAO. Fl. fr. throughout the year, but most flowering collections in Jun-Sept.

**Horsfieldia samarensis** de Wilde, Gard. Bull. Sing. 38, 1 (1985) 76; Fl. Males. ser. 1, 14 (2000) 182. --Type: PNH 147374 Gutierrez et al. (L\*, holo). Samar: Eastern Samar prov., Mt Apoy, 600-800ft, May 1969.

SAMAR: Eastern Samar (Mt Apoy). Known only from the type collection.

### Knema Loureiro

**Revisions:**

Wilde, WJJO de. 1979. *New account of the genus Knema (Myristicaceae)*. Blumea 25: 321-478; *ibid.* 27 (1981) 223-32; (1987) 115-xxx

Sinclair, J. 1958. *Garden's Bulletin Singapore* 16: 254-; *Ibid.* 18 (1961) 102-

**Knema alvarezii** Merr., PJS 13 c (1918) 288; EPFP 2 (1923) 183; --de Wilde, Blumea 25 (1979) 437; Fl. Males. Ser. 1, 14 (2000) 243. --Type: FB 22395 Alvarez (L\*, iso), FB 22397 (US\*, isosytype). Luzon: Nueva Ecija prov., Mt Macasandal. 10 Feb. 1911.

LUZON: Nueva Ecija (Mt Macasandal). Lower and montane forests, possibly on ultramafics, up to 850m. Fl. Feb., Fr. May. Known only from two collections.

**Knema cinerea** (Poir.) Warb., Mon. Myrist. (1897) 611, t. 25; --J Sinclair, Gard. Bull. Sing. 18 (1961) 169, Fig. 3A-G (*p.p.*, for var. *cinerea* only); --de Wilde, Blumea 25 (1979) 457; *ibid.* 32 (1987) 129; Fl. Males. Ser. 1, 14 (2000) 249. --Type from Pulau Buton, SE off Sulawesi.

Lesser Sunda Isls (Lombok, Sumbawa, Flores, Tanimbar), Sulawesi, Moluccas (Sula Isls, Banda), and the Philippines.

MINDANAO: Zamboanga, FB 23328. Known in the Philippines only from this single collection.

**Knema glomerata** (Blanco) Merr., J. Straits Branch Roy. Asiat. Soc. no. 76 (1917) 81; EPFP 2 (1923) 183; --J Sinclair (1923) 183; --de Wilde, Blumea 25 (1979) 437; *ibid.* 32 (1987) 125; Fl. Males. Ser. 1, 14 (2000) 249. --*Sterculia glomerata* Blanco, Fl. Filip. (1837) 764. --Neotype: Merrill Sp. Blancoanae 504.

*Knema acuminata* Merr., PJS 17 (1920) 256; EPFP 2 (1923) 183. --Type: FB 11266 Klemme.

*Knema glauca* Merr., EPFP 2 (1923) 183, *pro parte, non* (Blume) Warb.

*Knema vidalii* Warb.

Seram, Borneo (Sarawak), Philippines.

BATAN, BABUYAN ISLS (CALAYAN, CAMIGUIN), LUZON: Ilocos Norte, Apayao, Benguet, Cagayan, Isabela, Nueva Vizcaya, Aurora, Nueva Ecija, Tarlac, Zambales, Bataan, Rizal, Cavite, Laguna, Batangas, Quezon, Camarines Norte, Camarines Sur, Albay, Sorsogon, POLILLO, ALABAT, CATANDUANES, MINDORO, PALAWAN, MARINDUQUE, SIBUYAN, TICAO, PANAY: Capiz, Aklan, Iloilo, GUIMARAS, NEGROS, CEBU, BILIRAN, LEYTE, SAMAR (Catarman, Mt Cansayao), TAWI-TAWI., BASILAN, MINDANAO: Zamboanga del Norte, Zamboanga del Sur, Lanao del Sur (Camp Keithley), Cotabato (Carmen), Davao del Sur (Mt Apo; Sta Cruz), Davao Oriental (Mati), Agusan del Norte, Surigao del Norte. Common in primary and degraded lowland and medium altitude forests, 0-600m. Fl. throughout the year; fr. June-Dec.

**Knema korthalsii** Warb. Mon. Myrist. (1897) 557., --J Sinclair, Gard. Bull. Sing. 18 (1961) 232, Fig. 13; --de Wilde, Blumea 25 (1979) 428; *ibid.* 43 (1998) 242; Fl. Males. Ser. 1, 14 (2000) 274. --Type from Borneo (Kalimantan).

*Knema insularis* Merr., PJS 30 (1926) 394. --Type: BS 44288 Ramos & Edaño (NY\*, US\*, iso). Tawi-tawi: damp forest at low altitude, 24 Jul 1924.

*Knema cenabrei* Merr. & Quisumb., PJS 37 (1928) 144, pl. 3. --Type: FB 29973 Cenabre (NY\*, iso).

*Knema mindanaensis* Merr., EPFP 2 (1923) 184, *pro parte*, excl. type, auct. non (Warb.) Merr.

Borneo, Philippines.

DUMARAN, PALAWAN (Taytay: Ibangley; Lake Manguao; San Vicente: Pagdanan Range; Puerto Princesa: Cabayugan), BALABAC, TAWI-TAWI, BASILAN, MINDANAO: Zamboanga. Lowland forests. Fl. May-June; fr. May-Oct.

Dumaran Is, along Linu

**Knema kunstleri** (King) Warb., Mon. Myrist. (1897) 568, t. 25;

**ssp. parvifolia** (Merr.) de Wilde, Blumea 25 (1979) 470. --de Wilde, Blumea 25 (1979) 428; *ibid.* 43 (1998) 244; Fl. Males. Ser. 1, 14 (2000) 277. --Type from Peninsular Malaysia

*Knema parvifolia* Merr., PJS 13 c (1918) Bot. 287; EPFP 2 (1923) 184. --Type: FB 10573 Curran. Luzon: Albay prov., Manito. Forests, c. 30m.

LUZON: Camarines, Albay, SAMAR. Primary dipterocarp forest, 0-300m alt. Fl. June, Nov.-Dec.; fr. Mar.-May.

**Knema latericia** Elmer, LPB 5 (1913) 1815; --Merr., EPFP 2 (1923) 183; --J Sinclair, Gard. Bull. Sing. 16 (1958) 278, Fig. 3, pl. 2A; *ibid.* 18 (1961) 238, Fig. 15B, C, G, excl. var. *lunduensis* J Sinclair; --de Wilde, Blumea 25 (1979) 395; *ibid.* 43 (1998) 245; Fl. Males. Ser. 1, 14 (2000) 284. --Type: Elmer 12757. Palawan:

**ssp. latericia**

**var. latericia**

PALAWAN.

**var. subtilis** de Wilde, Blumea 32 (1987) 118, Fig. 1e; *ibid.* 41 (1996) 388; Fl. Males. Ser. 1, 14 (2000) 287, Fig. 40e. --Type: Ridsdale SMHI 1642. Palawan:

?Borneo (Sarawak; Brunei), Philippines.

PALAWAN. Primary and logged ridges in dipterocarp forests, once recorded from limestone, altitude 0-100m, fl. & fr. Apr.

**Knema ridsdaleana** de Wilde, Blumea 41 (1996) 392; Fl. Males. Ser. 1, 14 (2000) 335. --Type: Ridsdale ISU 451 (PNH, holo; iso in L\*). Luzon: Isabela prov., Palanan, Digallorin (=Digollorin), Divinisa Camp site, 16 50'N, 122 26'E. Forest on ultrabasic, streamside forest, altitude 50m, 9 Apr 1992.

LUZON: Isabela (Palanan). Streamside forest over ultramafics, c. 50m. Known only from the type collection.

**Knema stellata** Merr., PJS 11 c (1916) 182; EPFP 2 (1923) 184; --de Wilde, Blumea 25 (1979) 471; *ibid.* 27 (1981) 234; Fl. Males. Ser. 1, 14 (2000) 343. --Type: BS 24276 Ramos. Samar:

**var. stellata**

SAMAR. Forests at low altitudes. Fr. Feb-May.

**var. cryptocaryoides** (Elmer) de Wilde, Blumea 25 (1979) 471; Fl. Males. Ser. 1, 14 (2000) 344; --Gymnacranthera *cryptocaryoides* Elmer, LPB 3 (1911) 1060; --J Sinclair, Gard. Bull. Sing. 16 (1958) 115. --Type: Elmer 12262. Sibuyan:

*Knema kunstleri* (King) Warb. var. *sheurigaoensis* J Sinclair, Gard. Bull. Sing. 18 (1961) 238, Fig. 14. --Type: Wenzel 2680. Mindanao:

LUZON: Cagayan, Camarines Norte, SIBUYAN, MINDANAO: Surigao del Norte, Agusan del Norte. Lowland forests on fertile soil, altitude c. 250m, fl. Sept-Oct, fr. Feb-Apr.

**Knema stenocarpa** Warb., Mon. Myrist. (1897) 577, *pro parte*, only the fruiting collection, not the male specimens; --Mer

14 (2000) 345. --Syntypes: Warburg 13303, 13303a. Mindanao:  
BASILAN, MINDANAO: Zamboanga, Lanao, Davao. Primary and degraded forests,  
altitude 300-500m. Fl. & fr. throughout the year.

**Knema tomentella** (Miq.) Warb., Mon. Myrist. (1897) 588, t. 25; --J Sinclair, Gard. Bull. Sing. 18  
(1961) 277, Fig. 24, map 18, pro parte, excl. syn. *K. laurina* var. *minahassae*, *K. stellata*, *K.*  
*alvarezii*; --de Wilde, Blumea 25 (1979) 438; ibid. 41 (1996) 394; Fl. Males. Ser. 1, 14 (2000) 351.  
--Type from Moluccas (Ambon).

E-C Philippines, Sulawesi (N, SW, & E Peninsula), Moluccas (Morotai; Halmahera;  
Bacan; Obi; Buru; Seram, Ambon), W New Guinea (Bird's Head peninsula).  
SAMAR.

### **Myristica Gronov.**

**Myristica agusanensis** Elmer, LPB 8 (1915) 2775; --Merr., EPFP 2 (1923) 178; --J Sinclair, Gard.  
Bull. Sing. 23 (1968) 218, Fig. 17, pro parte; --de Wilde, Blumea 42 (1997) 146; Fl. Males. ser.  
1, 14 (2000) 405. --Type: Elmer 13284 (L\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta,  
Jul 1912.

*Myristica laxiflora* Merr., PJS 17 (1920) 254; EPFP 2 (1923) 179. --Type: BS 15498 Reillo (L\*, NY\*, US\*, iso). Basilan. Aug. 1912.  
*Myristica sorsogonensis* Elmer ex Merr., EPFP 2 (1923) 178, in obs. sub *Myristica agusanensis* Elmer, nom.  
nud.; --Elmer, LPB 10 (1939) 3809, not validly published, no Latin descr. --Voucher: Elmer 16010  
(L, NY). Luzon: Sorsogon prov., Mt Bulusan, May 1916.

#### **ssp. agusanensis**

Endemic to the Philippines (widespread throughout, except PALAWAN). Inland forests at  
low altitudes (50 m); fl. July-Aug.; fr. throughout the year.

**Myristica basilanica** de Wilde, Blumea 42 (1997) 148; Fl. Males. Ser. 1, 14 (2000) 411. --Type:  
FB 18929 Miranda (L\*, US\*, iso). Basilan, Aug-Sept 1912.

BASILAN. Known only from the type collection. Flowers and mature fruits in Aug.-Sept.

**Myristica cagayanensis** Merr., PJS 17 ('Sept. 1920', 1921) 255; EPFP 2 (1923) 178; --J Sinclair,  
Gard. Bull. Sing. 18 (1961) 226; --de Wilde, Blumea 42 (1997) 154; Fl. Males. Ser. 1, 14 (2000)  
426; --*Myristica ceylanica* A DC var. *cagayanensis* (Merr.) J Sinclair, Gard. Bull. Sing. 23 (1968)  
442, 444. --Type: Bernardo 24277 (PNH, lost). LUZON, Cagayan prov.

S tip of Taiwan mainland, Lanyu, Lutao and the Philippines.

BATAN and LUZON: Cagayan. Forest of mountain slopes in coastal areas. Fl. & fr.  
throughout the year.

**Myristica cinnamomea** King, Ann. Roy. Bot. Gard. Calc. 3 (1891) 292, pl. 116; --de Wilde,  
Blumea 42 (1997) 156; Fl. Males. Ser. 1, 14 (2000) 431. --Type from Peninsular Malaysia.

Sumatra, Peninsular Malaysia, Singapore, Borneo, rare in the Philippines.

MINDANAO (according to de Wilde (2000) no material seen by him).

**Myristica colindridsdalei** de Wilde, Blumea 42 (1997) 156; Fl. Males. Ser. 1, 14 (2000) 434. --  
Type: Ridsdale at al. ISU 499 (L\*, holo). Luzon: Isabela prov., Palanan, Dimapnat, 17° 09'N,  
122° 24'E. Forest on ultrabasic, high canopy forest on low coastal hills, altitude 50m, 15 Apr 1992.

LUZON: Isabela (Palanan). Forest on ultramafics, low stature forest with many large-  
girth trees, streamside forests, or high cnopy forest on low coastal hills; locally common  
on coastal flat, riverine areas; c. 50m alt. Fl & fr. Apr.

**Myristica cumingii** Warb., Mon. Myrist. (1897) 442, t. 13; --Merr., EPFP 2 (1923) 178; --de Wilde,  
Blumea 42 (1997) 154; Fl. Males. ser. 1, 14 (2000) 446. --Syntypes: Cuming 903, 1570; Vidal 854

(excl. Vidal 1679 = *M. agusanensis*; the FI and L duplicates = *Knema glomerata*).  
*Myristica mindorensis* Merr., PJS 13 c (1918) Bot. 281; EPFP 2 (1923) 179. --Type: Merrill 3698.  
*Myristica nitida* Merr., PJS 13 c (1918) Bot. 282; EPFP 2 (1923) 179 = *Myristica alvarezii* Merr., *nom. ined.*  
--Type: FB 22199 Alvarez.  
*Myristica ceylanica* A DC var. *ceylanica auct. non* A DC, *pro parte*; --J Sinclair, Gard. Bull. Sing. 23 (1968) 437, Fig. 77, for the Philippine material.  
LUZON: Nueva Ecija, Laguna, Quezon, Camarines, Sorsogon, MINDORO, SIBUYAN, TICA, NEGROS, BILIRAN, LEYTE, SAMAR, MINDANAO: Zamboanga, Surigao.  
Lowland forests, ascending to 850m. Common. Fl. mainly May to Aug., fr. throughout the year.

***Myristica fatua*** Hoult., Nat. Hist. Pl. 2 (3) (1774) 337; --J Sinclair, Gard. Bull. Sing. 23 (1968) 268, *pro parte*; --de Wilde, Blumea 35 (1990) 242, Fig. 1:3; *ibid.* 40 (1995) 279; *ibid.* 42 (1997) 166; Fl. Males. ser. 1, 14 (2000) 472. --Type: Elmer 11063. Mindanao:  
*Myristica plumeriifolia* Elmer, LPB 3 (1911) 1063; --Merr., EPFP 2 (1923) 180. --Type: Elmer 11063.

**ssp. fatua**

SE Kalimantan, S Philippines, Moluccas, W New Guinea.  
MINDANAO: Davao del Sur (Mt Apo), Forest along Baracatan River, c. 600m.

***Myristica frugifera*** de Wilde, Blumea 42 (1997) 166; Fl. Males. Ser. 1, 14 (2000) 472. --Type: Ridsdale 1219 (L\*, iso). Mindoro:  
LUZON, MINDORO, LEYTE. Understorey tree of primary and disturbed lowland forest, 0-500m. fr. Feb., June.

***Myristica guateriifolia*** A DC, Ann. Sc. Nat. 4, 4 (1855) 20, t. 4 ('guateriaefolia'); --J Sinclair, Gard. Bull. Sing. 16 (1958) 350, Fig. 25; *ibid.* 23 (1968) 213; --de Wilde, Blumea 42 (1997) 168; Fl. Males. ser. 1, 14 (2000) 483. --Type: Cuming 1582. Luzon: Batangas  
Burma, possibly Thailand, S Vietnam (Pulau Condor), Peninsular Malaysia, Borneo, Nunukan, Philippines, Java, Lesser Sunda Isls (Bali).  
BABUYAN ISLS and N LUZON to PALAWAN and MINDANAO.

***Myristica iners*** Blume, Bijdr. (1825) 575; --de Wilde, Blumea 42 (1997) 168; Fl. Males. ser. 1, 14 (2000) 493. Cambodia, Thailand; Malesia: Sumatra, Peninsular Malaysia, Java, Borneo and possibly Philippines. Philippine record, *fide* de Wilde (2000), is based on Wenzel 3537 (K, immature fr.) which agrees with specimens from NE Borneo. Its locality however is remarkable, far from main distributional area of the species.

***Myristica laevis*** de Wilde, Blumea 42 (1997) 170; Fl. Males. ser. 1, 14 (2000) 508. --Type: PNH 118091 (L\*, holo). Gutierrez. Samar: Mt Sohoton, Pesikohon site, no altitude cited, Apr 1970.

**ssp. laevis**

SAMAR: Mt Sohoton. Forest, altitude not recorded. Fl. & fr. April.

**ssp. badia** de Wilde, Blumea 42 (1997) 172; Fl. Males. ser. 1, 14 (2000) 509. --Type: Rojo 159 (L\*, holo). Mindanao: Surigao del Sur (Lanuza). Hillside forest, 400m. Fr. Nov.; Known only from the type collection.

***Myristica longipetiolata*** de Wilde, Blumea 42 (1997) 173; Fl. Males. ser. 1, 14 (2000) 515. --Type: PNH 21548 Sulit (L\*, holo). Biliran: Mt Suiro, N slope, altitude 830m.  
LUZON: Camarines, Sorsogon, BILIRAN (Mt Suiro). Sloping forests, c. 800m. Fr. Apr-May, Jul-Aug, Dec.

***Myristica mindanaensis*** Warb., Mon. Myrist. (1897) 497, t. 13; --de Wilde, Blumea 35 (1990) 249, Fig. 1:9; 42 (1997) 178; Fl. Males. ser. 1, 14 (2000) 529, FIG. 64 I. --Type: Warburg 13300 (L\*, iso). Mindanao:

Moluccas (Morotai) and S Philippines.  
MINDANAO:

**Myristica nivea** Merr., PJS 1 (1906) Suppl. 191; EPFP 2 (1923) 179; --de Wilde, Blumea 42 (1997) 178; Fl. Males. ser. 1, 14 (2000) 532. --Type: FB 3454 Hutchinson (US\*, iso). Basilan: 14 Dec 1905.

Moluccas (Talaud), S Philippines.

BASILAN, MINDANAO: Zamboanga. Lowland forests. Fl. Dec, fr. Oct-Nov, Mar.

**Myristica philippensis** Lam., Hist. Acad. Roy. Sc. Paris (for 1788) (1761) 161; --Merr., EPFP 2 (1923) 179; --J Sinclair, Gard. Bull. Sing. 23 (1968) 138, Fig. 3, 4; --de Wilde, Blumea 42 (1997) 179; Fl. Males. ser. 1, 14 (2000) 541. --Type: Sonnerat s.n. Philippines, not further localized.

Throughout the Philippines (except Palawan). Primary lowland forests up to c. 400m. Fl. & fr. possibly throughout the year.

**Myristica pilosigemma** de Wilde, Blumea 42 (1997) 179; Fl. Males. ser. 1, 14 (2000) 543. --Type: PNH 118078 Gutierrez (L\*, holo). Samar: Western Samar prov., Mt Sohoton. Along trail, altitude 1800ft., Apr 1970.

SAMAR: Western Samar (Mt Sohoton), MINDANAO. Along trail, c. 600m. Fl. Apr, fr. Jun-Jul.

**Myristica rubrinervis** de Wilde, Blumea 42 (1997) 180; Fl. Males. Ser. 1, 14 (2000) 554. --Type: Ridsdale SMHI 258 (L\*, holo). Palawan: Palawan prov., Puerto Princesa, Mt Beaufort, W spur, altitude 815m, 29 Mar 1984.

**ssp. rubrinervis**

PALAWAN: Puerto Princesa: Mt Beaufort. Stunted montane forest with many epiphytes but little moss; closed broad-leaved rainforest on ultramafics, 400-900m. Fr. Mar-May.

**ssp. duplex** de Wilde, Blumea 42 (1997) 182; Fl. Males. ser. 1, 14 (2000) 555. --Type: Ridsdale SMHI 1528 (L\*, holo). Palawan: Pagdanan Range, Ibangley, Brookside Hill. Closed broad-leaved rainforest with Dipterocarpus spp., altitude 40m, 23 Apr 1984.

MINDORO, LEYTE, PALAWAN. Lowland dipterocarp to montane ridge forests (with Agathis), 40-900m. Fl. (immature) & fr. Feb-Apr.

**Myristica simiarum** A DC, Ann. Sc. Nat. 4, 4 (1855) 29; --Merr., EPFP 2 (1923) 180; --de Wilde, Blumea 35 (1990) 254; Hook.f. & Thomson var. simiarum (A DC) J Sinclair, Gard. Bull. Sing. 16 (1958) 356; ibid. 23 (1968) 62 (key), 190 Fig. 12; --Type: Callery 34. Luzon: "Manilla".

**ssp. simiarum**

Lanyu, Philippines.

BATAN, LUZON: Ilocos Norte, La Union, Cagayan, Bataan, Laguna, Quezon, LEYTE, SAMAR, MINDANAO. Low and medium altitude forests, to 600m. Fl. & fr. throughout the year.

**ssp. celebica** (Miq.) de Wilde, Blumea 35 (1990) 255, Fig. 2 (13); ibid. 42 (1997) 185; Fl. Males. ser. 1, 14 (2000) 569, Fig. 65d, 86f-j; --Myristica elliptica Wall. ex Hook.f. & Thomson var. celebica (Miq.) J Sinclair, Gard. Bull. Sing. 16 (1958) 356; ibid. 23 (1968) 194, Fig. 12F. --Syntypes: from Sulawesi, Bacan, and Buru.

Sulawesi (incl. Muna), Moluccas (Bacan, Sula Isls, Buru), and S Philippines.

MINDANAO: Zamboanga. **Ecol. of Zamboanga material?**

**Myristica umbellata** Elmer, LPB 5 (1913) 1816; --Merr., EPFP 2 (1923) 180; --J Sinclair, Gard. Bull. Sing. 23 (1968) 174, Fig. 10; --de Wilde, Blumea 42 (1997) 188; Fl. Males. ser. 1, 14 (2000) 600, Fig. 60c. --Syntypes: Elmer 12820 (male, L\*, MO\*, NY\*, SING\*, US\*, ). Palawan: Palaawan prov., Puerto Princesa, Mt Pulgar (=Thumb Peak), forested ridge, 1000ft, Mar 1911; Elmer 13166 (fr., L\*,

NY\*, US\*). Palawan: Palawan prov., Puerto Princesa, Mt Pulgar, on trail to Napsan, altitude 750ft, May 1911

PALAWAN: Mt Pulgar (=Thumb Peak) and vicinity. Low canopy lowland and montane forest (with *Agathis celebica*), also on limestone and ultramafic alluvial deposits, 50-800m. Fl. Mar, fr. Apr, May.

***Myristica wenzelii*** Merr., PJS 10 c (1915) Bot. 270; EPFP 2 (1923) 180; ; --de Wilde, Blumea 42 (1997) 188; Fl. Males. ser. 1, 14 (2000) 615; --*Myristica fatua* Houtt. var. *wenzelii* (Merr.) J Sinclair, Gard. Bull. Sing. 23 (1968) 309, Fig. 40. --Type: Wenzel 1152 (MO\*, iso). Leyte: Masaganap near Jaro, in forests, altitude 700m, Sept 1914.

LEYTE, SAMAR, MINDANAO: Surigao del Norte. Low altitude forests. Fl. Oct, fr. Oct-Mar.