

Family 246. GENTIANACEAE

Literature:

Backer, CA & Bakhuizen van den Brink. 1965. Flora of Java 2: 437-441.

Royen, P van. 1964. **Nova Guinea Bot. 17: 369-416.**

Canscora Lamarck

Revision:

Thiv, M. 2003. *A taxonomic revision of Canscora, Cracosna, Duplipetala, Hoppea, Microrphium, Phylloccyclus and Schinziella (Gentianaceae-Canscorinae)*. Blumea 48: 1-46.

Canscora diffusa (Vahl) R Br. ex Roem. & Schult., Syst. Veg. ed. 15 (1818) 301; --Fern.-Villar, --Merr., Fl. Manila (1912) 367; EPFP 3 (1923) 318; --Thiv., Blumea 48 (2003) 11, pl. 2e-h.

Tropical Africa and Asia, across Malesia to tropical Australia. LUZON: Ilocos Norte, Pangasinan, Apayao, Mountain Province, Benguet, Nueva Vizcaya, Zambales, Bulacan, Rizal, Cavite,

Canscora macrocalyx Miq., Fl. Ned.-ind. 2 (1856) 558; --Thiv., Blumea 48 (2003) 15, f. 1, pl. 1e, f. Java, Timor and the Philippines: MINDANAO: Zamboanga del Norte, *PNH 36300 Frake*. Moist open places in grasslands, fields; heavy soil. 0-600m. Flowering Jan.-Aug.

Cotylanthera Blume

Cotylanthera tenuis Blume, Bijdr. (1825) 707; --Merr., PJS 1 (1906) Suppl. 223; EPFP 3 (1923) 317. --Type from Java.

Java, Borneo, Philippines. LUZON: Mountain Province, Bataan, Rizal, Laguna, Sorsogon, PALAWAN, NEGROS, MINDANAO. Low and medium altitude damp primary forests, ascending to 1700m.

Crawfordia Wallich =Tripterospermum

Erythraea Renealm

Erythraea spicata (L.) Pers., Syn. 1 (1905) 283; --Merr., EPFP 3 (1923) 317.

Native of the Mediterranean region. Introduced into Taiwan by early Portuguese colonists, extending thereafter southward to the Batanes Isls Group. BATAN. Open places at low altitudes.

Exacum Linnaeus

Exacum chironioides Griseb., Gen. Sp. Gent. (1839) 109; --Fern.-Villar, Novis. App. (1880) 136; --Merr., Sp. Blancoanae (1918) 307; EPFP 3 (1923) 317.

Widespread in Malesia. LUZON: Ilocos Sur, Pangasinan, Cagayan, Nueva Vizcaya, Zambales, Rizal, MINDORO, PANAY, MINDANAO. Low and medium altitude wet grasslands, swamps, etc.

Exacum parviflorum Merr., PJS 7 c (1912) Bot. 96; EPFP 3 (1923) 317. –Type: Vanoverbergh 758.
LUZON: Mountain Province. Open slopes, altitude c. 1200m.

Gentiana Linnaeus

Gentiana quadrifaria Blume,

Gentiana apoensis Merr., PJS 1 (1906) Suppl. 223; --Merr., EPFP 3 (1923) 318. –Syntypes: Copeland 1161 & 1432 (PNH, possibly lost). Mindanao: Davao, Mt Apo, summit area, c. 3000m, 'Occasional in turf, but inconspicuous, not common', Apr & Oct 1904; --de Vore & Hoover 371 (PNH, possibly lost). Mindanao: Davao, Mt Apo, May 1903.

Gentiana luzoniensis Merr., PJS 1 (1906) Suppl. 224; --Merr., EPFP 3 (1923) 319. –Type: Merrill 4558 (NY*, US*, iso). Luzon: Mountain Province, Mt Data, on dry, open grassy slopes in thin pine forests at c. 2100m, 4 Nov 1905.

Extra-Philippine range:

LUZON: Benguet, Laguna, Quezon, NEGROS, MINDANAO: Davao (Mt Apo).
Open grasslands and exposed ridges on the higher mountains, altitude 1700-2800m.

Gentiana copelandii Elmer, LPB 7 (1915) 2671; --Merr., EPFP 3 (1923) 319. –Type: Elmer 11692.
MINDANAO: Davao (Mt Calelan). In mosses at the summit, altitude c. 2500m.

Gentiana diversifolia Merr., PJS 1 (1906) Suppl. 224; --Merr., EPFP 3 (1923) 319. –Type: Merrill 4443 (PNH, holo, possibly lost). Luzon: Benguet prov., Kabayan. On damp, rocky banks, in open lands. Rare, altitude c. 1300m, 27 Oct 1905.

LUZON: Benguet. Damp rocky banks among grasses, altitude 1200-1900m.

Hoppea Willdenow

Revision:

Thiv, M. 2003. *A taxonomic revision of Canscora, Cracosna, Duplipetala, Hoppea, Microrphium, Phyllocyclus and Schinziella (Gentianaceae-Canscorinae)*. Blumea 48: 1-46.

Hoppea dichotoma Willd., Ges. Naturf. Freunde Berlin Neue Schriften 3 (1801) 434; --Merr., EPFP 3 (1923) 318; --Thiv, Blumea 48 (2003) 28, pl. 3e.

India. Thiv argues that outside of India, this plant is non indigenous in occurrence. In the Philippines reported only from LUZON: Ilocos Norte, Abra, Benguet and Pangasinan, in open places at low and medium altitudes, ascending to 1800m in Benguet. Rare or local.

Limnanthemum SG Gmelin

Limnanthemum cristatum (Roxb.) Griseb., Gen. Sp. Gent. (1839) 342; --Merr., EPFP 3 (1923) 319.

India to S China. Philippines. LUZON: Ilocos Norte, Mountain Province (Mt Data), Benguet, Zambales, Rizal, Laguna. Low and medium altitude shallow lakes, quiet streams, and sometimes in rice paddies. On Mt Data ascending to 2100m.

Microrphium CB Clarke

Revision:

Thiv, M. 2003. *A taxonomic revision of Canscora, Cracosna, Duplipetala, Hoppea, Microrphium,*

Phyllocyclus and Schinziella (Gentianaceae-Canscorinae). Blumea 48: 1-46.

Microrphium pubescens CB Clarke, J. Asiat. Soc. Bengal 74 (1906) 88.

ssp. elmerianum (Regalado & Soejarto) Thiv, Blumea 48 (2003) 33; --*Microrphium elmerianum*

Regalado & Soejarto, Novon 7 (1997) 77. --Type: Soejarto et al. 6499 (F, holo; iso A, PNH).

Palawan: Puerto Princesa, Bacungan Hills, slopes above Nagtabon beach, 9°51'N, 118°37'E.

PALAWAN. Flowering Feb.-Aug.

Nymphoides

Nymphoides indica (L.) Kuntze,

Limnanthemum indicum (L.) Griseb., Gen. Sp. Gent. (1839) 343; --Merr., EPFP 3 (1923) 319; --*Menyanthes indica* L., Sp. Pl. (1753) 145; --Blanco, Fl. Filip. (1837) 87; idem. ed. 2 (1845) 63; idem. ed. 3, 1 (1877) 118.

Tropical Africa and Asia through Malesia to Australia and Polynesia. LUZON: Benguet, Cagayan, Laguna, MINDORO, BOHOL, MINDANAO. Low and medium altitude shallow lakes and quiet streams, ascending to 1500m.

Swertia Linnaeus

Revision:

Geesink, R. 1973. Blumea 21: 179-183.

Swertia decurrens C Robinson, PJS 3 c (1909) Bot. 214; --Merr., EPFP 3 (1923) 319. --Type: RS Williams 1529.

LUZON: Mountain Province, Benguet. Open slopes, extending into the mossy forest, altitude 1200-2300m.

Tripterospermum Blume

Literature:

Murata, J. 1989. *A synopsis of Tripterospermum (Gentianaceae)*. Journal of the Faculty of Science, Univ. Tokyo Sec. III, 16 (4): 273-339.

Tripterospermum luzoniensis (Vidal) J Murata, J. Fac. Sci. Univ. Tokyo 14 (1989) 305; --Wang

JC & Chen YC in Huang TC (ed.), Fl. Taiwan, ed. 2, 4 (1998) 186; --*Crawfordia luzoniensis* Vidal,

Rev. Pl. Vasc. Filip. (1886) 191; --Merr., EPFP 3 (1923) 318. --Type:

Taiwan, Philippines, Indonesia. LUZON: Lepanto, Mountain Province, Benguet, Laguna, Quezon, MINDANAO: Bukidnon. Mossy forests in very damp shaded ravines, alt. 1100-2400m.