

Family 170. VITACEAE

Literature:

Suessenguth, K. 1953. *Die Natürlichen Pflanzenfamilien* ed. 2, 20d: 174-398.

Backer, CA & RC Bakhuizen van den Brink. 1965. *Flora of Java* 2: 86-93.

Ampelocissus Planchon

Ampelocissus botryostachys Planch., in DC. Monog. Phan. 5 (1887) 413; --Merr., PJS 11 c (1916) 126; EPFP 3 (1923) 2. --Type: Cuming 820. Luzon: Quezon prov., vicinity of Mt Banahaw. LUZON: Quezon, Laguna (Liliw; Paete; San Antonio), PANAY. Low altitude damp primary forests.

Ampelocissus madulidii Latiff, Blumea 33 (1988) 505, Fig. 1. --Type: PNH 118367 Madulid et al. Samar: Eastern Samar prov., Balangiga, Bo. Sta. Rita. May 1971 (L*, holo; iso: PNH). SAMAR: Eastern Samar. Altitude 300m.

Ampelocissus martini Planch., in DC. Monog. Phan. 5 (1887) 373; --Merr., PJS 11 c (1916) 126; EPFP 3 (1923) 2. Indochina, Philippines. LUZON: Batangas (Balayan), BANTON, SEMIRARA, CULION, CORON, PALAWAN, APULIT (in Taytay Bay), CUYO, GUIMARAS. Low altitude thickets.

Ampelocissus multifoliola Merr., PJS 11 c (1916) Bot. 127; -- Merr., EPFP 3 (1923) 2. --Type: BS 16539 Ramos. Luzon: Laguna prov., Dahican, in damp forest, 14 Sept 1912. LUZON: Laguna, CATANDUANES. Low altitude damp primary forests.

Ampelocissus ochracea (Teijsm. & Binn.) Merr., PJS 11 c (1916) Bot. 125; -- Merr., EPFP 3 (1923) 2.

var. ochracea

Sulawesi, Philippines. CULION, BASILAN, MINDANAO: Lanao del Sur (Camp Keithley), Davao Oriental (Mati), Agusan del Norte.

CULION: Merrill 668, February, 1903.

MINDANAO:

Lanao del Sur: Lake Lanao, Camp Keithley, Mrs. Clemens 331, March, 1906, s. n., November, 1906:

Davao Oriental: Mati, Piper 447, May, 1911.

Agusan del Norte: Elmer 13600, August, 1912.

BASILAN, Hallier s. n. (sterile), January, 1904.

var. trilobata Merr., PJS 11 c (1916) Bot. 125; -- Merr., EPFP 3 (1923) 2. --Type: BS 10773 McGregor. Polillo, Nov 1909.

LUZON: Pangasinan, Quezon (Infanta), Camarines, POLILLO, CATANDUANES, MINDORO, MINDANAO: Surigao (Hinatuan). Low altitude forests along streams.

Ampelocissus pauciflora Merr., PJS 11 c (1916) Bot. 126; -- Merr., EPFP 3 (1923) 3.

LUZON: La Union (San Fernando), Zambales (Baquilin River), Bataan (Lamao River), GOLO, CORON, PALAWAN (Taytay), CALUSA, CUYO, PANAY. Dry thickets along the seashore.

Ampelopsis Michaux *emend* Planchon

Ampelopsis brevipedunculata (Maxim.) Traut., Acta Hort. Petrop. 8 (1883) 176.

var. hancei (Planch.) Rehder, J. Arnold Arbor. 22 (1922) 177.

Ampelopsis heterophylla Sieb. & Zucc. var. *hancei* Planch., in DC. Monogr. Phan. 5 (1887) 457; --Merr., EPFP 3 (1923) 5.

S China, Taiwan and the Philippines: BATAN to MINDANAO and PALAWAN. In thickets chiefly at medium altitudes, ascending to 2000m in the Cordillera Highlands.

Ampelopsis heterophylla Sieb. & Zucc., Abh. Akad. Muench. iv. II. (1846) 196.

var. hancei Planch. in DC, Monogr. Phan. 5 (1887) 457; --Merr., EPFP 3 (1923) 5.

S China, Indochina, Taiwan, Philippines. BATAN ISLS and N LUZON to PALAWAN and MINDANAO. Chiefly in medium altitude thickets, ascending to 2000m in Benguet.

var. humulifolia (Bunge) Merr., PJS 11 c (1916) Bot. 129; -- Merr., EPFP 3 (1923) 5.

China, Philippines. LUZON: Mountain Province, **Lepanto**, Nueva Vizcaya (Bagabag). Medium altitude thickets.

Cayratia Jussieu

Cayratia apoensis (Elmer) Quisumb., PJS 76 (1944) 45; --*Columella apoensis* (Elmer) Merr., EPFP 3 (1923) 8; --*Cissus apoensis* Elmer, LPB 8 (1915) 2880. --Type: Elmer 11696.

MINDANAO: Davao (Mt Apo). Forests, altitude c. 1200m.

Cayratia corniculata (Benth.) Gagnep. Not. Syst. 1 (1911) 347; --Quisumb., PJS 76 (1944) 45; --*Columella corniculata* (Benth.) Merr., PJS 11 c (1916) Bot. 133; -- Merr., EPFP 3 (1923) 8; --*Vitis corniculata* Benth., Fl. Hongkong. (1861) 54.

Cayratia japonica Gagnep., Not. Syst. 1 (1911) 349, quoad Philipp.; --Merr., PJS 1 (1906) Suppl. 89; *non Vitis japonica* Willd.

S China, Taiwan, Philippines. LUZON: Bataan, Laguna, Quezon, Sorsogon, MINDORO, PANAY, MINDANAO: Agusan del Norte, Surigao. Primary forests along streams, etc., altitude 100-800m.

Cayratia geniculata (Blume) Gagnep., Not. Syst. 1 (1911) 345; --Quisumb., PJS 76 (1944) 46; --*Columella geniculata* (Blume) Merr., PJS 11 c (1916) Bot. 132; --Merr., EPFP 3 (1923) 8; --*Vitis geniculata* (Blume) Miq., Ann. Mus. Bot. Lugd.-Bat. 1 (1863) 81; --Fern.-Villar, Novis. App. (1880) 49; --*Cissus geniculata* Blume, Bijdr. (1825) 184. --Type from Java.

Cissus rubescens Blanco, Fl. Filip. (1837) 71.

var. geniculata

Hainan, Indochina, Peninsular Malaysia, Java, Borneo, Philippines, Moluccas (Ambon).

LUZON: Ifugao, Benguet, Cagayan, Laguna, Batangas, Quezon, Sorsogon, MINDORO, BUSUANGA, BANCALAN, CATANDUANES, LEYTE, MINDANAO. Forests, up to 800m.

var. sarcocarpa (Merr.) Quisumb., PJS 76 (1944) 46; --*Columella geniculata* var. *sarcocarpa* Merr., PJS 11 c (1916) Bot. 133; -- Merr., EPFP 3 (1923) 8. --Type:

LUZON: Bataan, Laguna, Quezon, Camarines, CATANDUANES. Low and médium altitude forests.

Cayratia mollissima (Wall.) Gagnep., Not. Syst. 1 (1911) 345; --Quisumb., PJS 76 (1944) 46; --*Columella mollissima* (Wall.) Merr., EPFP 3 (1923) 8; --*Vitis mollissima* Wall., Fl. Ind. ed. 2, 2 (1832) 482.

Indochina and Malesia. LUZON: Pangasinan, Nueva Ecija, Bulacan, Laguna, Quezon, PANAY, MINDANAO: Zamboanga. Lowland and medium altitude thickets and forests.

Cayratia pedata (Lour.) Juss., Dict. Class. Hist. Nat. 4 (1823) 136; --Quisumb., PJS 76 (1944) 46; --Columella pedata Lour., Fl. Coch. (1790) 85; --Merr., EPFP 3 (1923) 9.
India to Indochina and Java. LUZON: Ilocos Norte, Rizal, MINDANAO: Bukidnon.
Médium altitude forested ravines.

Cayratia pterita (Merr.) Quisumb., PJS 76 (1944) 46; --Columella pterita Merr., PJS 11 c (1916) Bot. 135; -- Merr., EPFP 3 (1923) 9. --Type: Merrill 5388
PANAY, SULU ARCHIPELAGO (UBIAN). Thickets along and near the seashore.

Cayratia simplicifolia (Merr.) Quisumb., PJS 76 (1944) 46. --Columella simplicifolia Merr., PJS 11 c (1916) Bot. 135; -- Merr., EPFP 3 (1923) 9. --Type: BS 15308 Ramos
LEYTE. Forested slopes.

Cayratia tenuifolia (Heyne) Gagnep., Not. Syst. 1 (1911) 348; --Quisumb., PJS 76 (1944) 46; --Columella tenuifolia (Heyne) Merr., PJS 11 c (1916) Bot. 134; --Merr., EPFP 3 (1923) 9; --Vitis tenuifolia (Heyne) Wight & Arn., Prodr. (1834) 129; --Cissus tenuifolia Heyne in Wall. Cat. (1831) no. 6022.

Andaman Isls, Indochina, S China, Taiwan, Philippines. BATAN, LUZON: Isabela, BASILAN, MINDANAO, COMIRAN. Lowland thickets and forests.

Cayratia trifolia (L.) Domin., Biblioth. Bot. 89 (1927) 370; --Quisumb., PJS 76 (1944) 47; --Columella trifolia (L.) Merr., PJS 11 c (1916) Bot. 134; -- Merr., EPFP 3 (1923) 9; --Cissus trifolia (L.) K Schum., Fl. Kaiser Wilhelmsl. (1889) 71; --Merr., Fl. Manila (1912) 311; --Vitis trifolia L., Sp. Pl. (1753) 293.

var. trifolia

India to S China, across Malesia to the Moluccas, Caroline Isls. Throughout the Philippines. Lowland thickets.

var. cinerea (Lam.) Quisumb., PJS 76 (1944) 47; --Columella trifolia (L.) Merr. var. cinerea (Lam.) Merr., EPFP 3 (1923) 10; --Cissus cinerea Lam., Tab. Encycl. 1 (1791) 332.

Range of the species.

Cissus Linnaeus

Cissus adnata Roxb., Fl. Ind. 1 (1820) 405; --Merr., EPFP 3 (1923) 6.

India to Indochina southward to Timor.

N LUZON to MINDANAO. Lowland and medium altitude thickets.

Frequently misidentified as *C. repens* Lam. But can be readily distinguished from it by the rust-colored pubescence on young shoots and by its bristle-serrate leaves.

Cissus aristata Blume, Bijdr. (1825) 183; --Merr., Fl. Manila (1912) 311.

Cissus simplex Blanco, Fl. Filip. (1837) 72; --Merr., EPFP 3 (1923) 7.

Cissus adnata Roxb., Fl. Ind. 1 (1820) 405; --Merr., EPFP 3 (1923) 6.

India, across Malesia from Peninsular Malaysia to New Guinea. LUZON: Benguet, Nueva Vizcaya, Pangasinan, Rizal, Laguna, BUSUANGA, PALAWAN, CUYO, PANAY, MINDANAO. Thickets and forest edges at low and medium altitudes, ascending to 1400m. (as *C. simplex*)

India to Indochina southward to Timor. N LUZON to MINDANAO. Low and medium altitude thickets. (as *C. adnata*)

Cissus assamica (Laws.) Craib, Kew Bull. (1911) 31; --Merr., EPFP 3 (1923) 6.

India to Indochina, Peninsular Malaysia, Philippines. LUZON: Laguna to Sorsogon, PANAY. Thickets at low and medium altitudes.

Cissus discolor Blume, Bijdr. (1825) 181; --Merr., EPFP 3 (1923) 6.

India, S China southward through Peninsular Malaysia to the Moluccas. MINDANAO: Zamboanga, Misamis. Forests, 700-1500m.

Cissus hastata (Miq.) Planch., in DC. Monog. Phan. 5 (1887) 502; --Merr., EPFP 3 (1923) 6.

Indochina, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines. LUZON: Benguet. Thickets, c. 1200m.

Cissus oblongifolia Merr., PJS 11 c (1916) Bot. 129; -- Merr., EPFP 3 (1923) 6. --Type:

LUZON: Zambales, Bataan, Laguna, CATANDUANES, PALAWAN, PANAY. Primary forests, 100-900m.

Cissus quadrangularis L., Mant. 1 (1767) 39; --Merr., Fl. Manila (1912) 311; EPFP 3 (1923) 7.

Tropical Africa to India, Java, Philippines. LUZON: Cagayan, Rizal, Batangas, NEGROS, SIQUIJOR, CEBU. Dry thickets in and about towns at low altitudes.

Cissus repens Lam., Encycl. 1 (1783) 31; --Merr., Fl. Manila (1912) 311; EPFP 3 (1923) 7.

var. repens

India to S China, southward to Sumatra, Java, Borneo, Philippines. LUZON: Benguet, Nueva Ecija, Zambales, Bataan, Bulacan, Rizal, Laguna, Batangas, Sorsogon, PALAWAN, BALABAC, TICAO, PANAY, NEGROS, MINDANAO. Low altitude thickets.

var. luzoniensis Merr., PJS 11 c (1916) Bot. 131; EPFP 3 (1923) 7. --Type:

LUZON: Mountain Province, Pangasinan, Rizal, PALAWAN, PANAY, MINDANAO: Lanao. Low and medium altitude thickets and forests.

Columella Loureiro = Cayratia

Pterisanthes Blume

Pterisanthes sinuosa Merr., PJS 2 c (1907) Bot. 423; EPFP 3 (1923) 3. --Type: Clemens 647.

MINDANAO: Zamboanga, Lanao. Thickets or forests, c. 750m.

Tetrastigma Planchon

Tetrastigma brunneum Merr., PJS 7 c (1912) Bot. 84; EPFP 3 (1923) 3. --Type: Vanoverbergh 795.

Luzon: Mountain Province, Malamey, in forests, altitude c. 1550m, Aug 1910.

Sumatra, Java, Borneo (Sabah), Philippines, New Britain

LUZON: Mountain Province, Benguet (Pauai; Mt Sto Tomas), Bataan (Mt Mariveles), Quezon (Mt Binuang; Mt Banahaw de Lucban), Rizal (Mt Lumutan), Laguna (San Antonio), MINDANAO: Davao (Mt Apo). Forests, alt. 800-2300m.

Tetrastigma clementis Merr., PJS 11 c (1916) Bot. 137; EPFP 3 (1923) 3. --Type: MS Clemens *sn*,

Mindanao: Lanao del Sur prov., Lake Lanao, Camp Keithley, Nov 1906.
PANAY, MINDANAO: Lanao del Sur. Thickets along streams, alt. 350-800m.

Tetrastigma corniculatum Merr., PJS 13 c (1918) Bot. 26; EPFP 3 (1923) 3. –Type: MINDORO, LEYTE. Forests at low and medium altitudes.

Tetrastigma ellipticum Merr., PJS 11 c (1916) Bot. 138; EPFP 3 (1923) 3. –Type: BASILAN. In forests.

Tetrastigma everettii Merr., PJS 11 c (1916) Bot. 139; EPFP 3 (1923) 3. –Type: NEGROS. In forests, alt. c. 90m.

Tetrastigma glabratum (Blume) Planch., in DC Monog. Phan. 5 (1887) 430; –Merr., EPFP 3 (1923) 3.
Java and Philippines. LUZON: Laguna, POLILLO, MINDORO, PALAWAN. Forests at low altitudes.

Tetrastigma harmandii Planch., in DC. Monog. Phan. 5 (1887) 436; –Merr., PJS 11 c (1916) 136; Fl. Manila (1912) 310; EPFP 3 (1923) 3.
Tetrastigma lagunense Elmer, LPB 10 (1939) 3810, pro syn. Voucher: Elmer 17573
Tetrastigma sorsogonense Elmer, LPB 9 (1934) 3134, in obs., nomen; et LPB 10 (1939) 3810, pro syn.
Indochina, Philippines. LUZON: Apayao, Abra, Mountain Province, La Union, Cagayan, Nueva Vizcaya, Bataan, Bulacan, Rizal, Laguna, Quezon, Sorsogon, MINDORO, PANAY. Thickets at low and medium altitudes.

Tetrastigma laxum Merr., PJS 11 c (1916) Bot. 140; EPFP 3 (1923) 4.
LUZON: Benguet, Bataan, Quezon, Laguna. Forests at low and medium altitudes.

Tetrastigma littorale Merr., PJS 11 c (1916) Bot. 141; EPFP 3 (1923) 4. –Type: Merrill 7215.
PALAWAN. Forest along the seashore.

Tetrastigma loheri Gagnep., Not. Syst. 1 (1910) 265; –Merr., EPFP 3 (1923) 4.
Tetrastigma philippinense Merr., PJS 7 c (1912) Bot. 86. –Type: RS Williams 1025 (NY*, 2 sheets, iso).
Luzon: Benguet prov., Antamok, altitude c. 1000m, 22 Oct 1904.
LUZON: Ilocos Norte to Sorsogon, MINDORO, PALAWAN, MINDANAO. Low and medium altitude thickets and forests, ascending to 1400m. Often common.
As *T. philippinense*: LUZON: Ilocos Norte, Mountain Province (Bauco), Benguet (Mt Pulag; Sablan), Bataan (Mt Mariveles, Lamao River; Dinalupihan), Pampanga (Arayat), Rizal (Montalban; Caytimon), Laguna (Cavinti), Quezon, MINDORO: Mindoro Oriental (Baco River), PALAWAN, MINDANAO: Agusan del Norte, Davao.

Tetrastigma magnum Merr., PJS 11 c (1916) Bot. 142; EPFP 3 (1923) 4.
LUZON: Rizal, Laguna, MINDORO. In forests.

Tetrastigma mindanaense Merr., PJS 17 (1920) 279; EPFP 3 (1923) 4. –Type: BS 34463 Ramos & Pascasio.
MINDANAO: Surigao. Low altitude forests.

Tetrastigma papillosum (Blume) Planch. in DC, Monog. Phan. 5 (1887) 429; –Merr., EPFP 3 (1923) 4; –Latiff, Gard. Bull. Sing. 36 (1983) 226.
Thailand, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines, Sulawesi, New Guinea.
LUZON: Rizal, Laguna, Sorsogon, CATANDUANES, NEGROS, BILIRAN, MINDANAO. Forests, 500-1200m.

Tetrastigma robinsonii Merr., PJS 11 c (1916) Bot. 142; EPFP 3 (1923) 5.

Tetrastigma merrittii Elmer ex Merr., EPFP 3 (1923) 5, in obs., pro syn.

LUZON: Laguna, Quezon, POLILLO, CATANDUANES. Low and medium altitude forests.

Tetrastigma sepulchrei Merr., PJS 7 c (1912) Bot. 88; EPFP 3 (1923) 5. –Type: Vanoverbergh 1215. Luzon: Mountain Province, Bauco, in forests, altitude c. 1650m, 18 May 1911.

Tetrastigma benguetense Merr.,

LUZON: Mountain Province, Benguet, Bataan. Thickets and forests, 1200-1700m.

Tetrastigma silvestrei Elmer, LPB 10 (1939) 3802, not validly published, no Latin description. –

Voucher: Elmer 14663. Luzon: Sorsogon prov., Irosin, Mt Bulusan, altitude 750ft, Oct 1915.

LUZON: Sorsogon (Mt Bulusan).

Tetrastigma stenophyllum Merr., PJS 11 c (1916) Bot. 143; EPFP 3 (1923) 5. –Type: BS 12964
Fenix.

LUZON: La Union. Low altitude streamside thickets.

Tetrastigma trifoliolatum Merr., PJS 9 c (1914) Bot. 370; EPFP 3 (1923) 5.

Borneo, Philippines. SAMAR, LEYTE. Forests up to 500m.

Tetrastigma tuberculatum (Blume) Latiff, Folia Malaysiana 2 (2001) 186.

Vitis Linnaeus

Vitis flexuosa Thunb., Trans. Linn. Soc. 2 (1793) 103; --Merr., EPFP 3 (1923) 1.

India to Japan southward to Java. LUZON: Benguet. Thickets about cliffs and boulders, 1000-1400m.

Vitis vinifera L., Sp. Pl. (1753) 202.