

Family 248. ASCLEPIADACEAE

Literature:

Backer, CA & RC Bakhuizen van den Brink. 1965. *Flora of Java* 2: 244-274.
Forster, PI & DJ Liddle. 1994. *Type collections of Asclepiadaceae at Herbarium Bogoriense (BO)*.
Australian Systematic Botany 7: 507-519.

Asclepias Linnaeus

Asclepias curassavica L., *Sp. Pl.* (1753) 215; --Merr., *Fl. Manila* (1912) 377; EPFP 3 (1923) 341.

Native of the American tropics now pantropic in distribution.

Throughout the Philippines in the settled areas, open waste places, etc., ascending to at least 1500m.

Brachystelma R Brown

Brachystelma merrillii Schltr., *Fedde Repert.* 13 (1915) 566; --Merr., EPFP 3 (1923) 343. --Type: Merrill 680 (US*, iso). Culion. Dry open valley, Feb 1903

LUZON: Nueva Vizcaya, CULION, SEMIRARA. Dry open grasslands at low altitudes. Very rare or local.

Calotropis R Brown

Calotropis gigantea (L.) Dryand. in Aiton, *Hort. Kew.* ed. 2, 2 (1811) 78; --Merr., EPFP 3 (1923) 341.

Introduced from tropical Asia, now pantropic in distribution (usually planted as hedges). Thoroughly naturalized in the Philippines, sometimes escaping.

Centrostemma Decaisne

Centrostemma multiflorum (Blume) Decne., *Ann. Sc. Nat. ser. 2*, 9 (1838) 272; --Merr., EPFP 3 (1923) 350; --Hoya multiflora Blume, *Cat. Gew. Buitenz.* (1823) 49. --Type:

Burma, Sumatra, Peninsular Malaysia, Java, Borneo, Philippines.

BABUYAN ISLS, LUZON: Rizal (Mt Angilog; Antipolo; Bosoboso; San Andres), Laguna (Pakil; Liliw; Los Baños; Mt Makiling), Quezon (Mt Banahaw), Sorsogon (Mt Bulusan), POLILLO, MINDORO, MASBATE, TABLAS, PANAY, SAMAR, DINAGAT, SIARGAO, MINDANAO: Davao (Mt Apo), Davao Oriental (Mt Mayo). Epiphytic or pseudo-epiphytic on trees in primary forests at low and medium altitudes.

Ceropegia Linnaeus

Ceropegia cumingiana Decne., *Prodr.* 8 (1844) 643; --Merr., EPFP 3 (1923) 343. --Type: Cuming 447 (L*, iso). Philippines. No definite locality.

Tropical Australia, New Guinea (Papua), Philippines.

LUZON: Ilocos Norte, Bataan, Rizal, Laguna, Sorsogon, MINDANAO: Agusan. Low and

medium altitude secondary growths.

Ceropegia merrillii Schltr., Fedde Repert. 13 (1915) 565; --Merr., EPFP 3 (1923) 344. --Type: Merrill 4863 (US*, iso). Luzon: Benguet prov., Bued River, Oct-Nov 1905.
LUZON: Mountain Province, Benguet. Thickets and ravines, 1100-1400m.

Clemensia Schlechter *non* Merrill =*Clemensiella*

Clemensiella Schlechter

Clemensiella dischidioides Elmer *ex* Merr., EPFP 3 (1923) 356, *in obs., pro syn.* *Clemensiella mariae* Schltr. --Type: Elmer 15801 (NY*, possible type, cited by Merrill as 16801). Luzon: Sorsogon prov., Mt Bulusan. Jul 1916.
Clemensiella mariae Schltr., Fedde, Repert. 13 (1915) 566, *in obs.*; --Merr., EPFP 3 (1923) 356. --Type: LUZON (Laguna, Sorsogon), CATANDUANES, LEYTE, MINDANAO: Lanao del Sur (Camp Keithley). Forests at medium altitudes. A monotypic endemic genus.

Conchophyllum Blume

Conchophyllum elmeri Schltr., Fedde Repert. 13 (1915) 561; --Merr., EPFP 3 (1923) 351. --Type: Elmer 10670 (NY*, iso). Mindanao: Davao, Mt Apo, Todaya. Open moist woods, altitude 3000ft, May 1909.
MINDANAO: Davao (Mt Apo). Thickets or forests, c. 900m.

Cosmostigma Wight

Cosmostigma philippinense Schltr. in Fedde Repert. 13 (1915) 542; --Merr., EPFP 3 (1923) 356. --Type: BS 1072 Ramos (US*, iso). Luzon: Rizal prov., Bosoboso, Jul 1906.
LUZON: Rizal. Thickets or forests at medium altitudes.

Cynanchum Linnaeus

Revision:

Liede, S. 1999. *The genera Cynanchum and Vincetoxicum (Apocynaceae-Asclepiadoideae) in Malesia*. Blumea 44: 471-495.

Cynanchum loheri Schltr. in Perkins, Frag. Fl. Philip. (1904) 120; --Merr., EPFP 3 (1923) 341; --Liede, Blumea 44 (1999) 483, Fig. 5. --Type: Loher 4053 =Vidal 3311 (K, lecto; isolecto: US*). "Luzon Central", no definite locality.
Borneo (Sabah) and the Philippines.
LUZON: Mountain Province, Isabela (San Mariano), Pampanga, Bulacan, Rizal, Laguna (Calauan), Quezon (Dolores), MINDORO: Mindoro Occidental (Abra de Ilog), CULION, BASILAN, MINDANAO: Zamboanga. Low and medium altitude thickets, ascending to 1200m.

Cynanchum ovalifolium Wight, Contr. (1834) 57; --Liede, Blumea 44 (1999) 485, Fig. 7. --Type from Penang, Malaysia.
Cynanchum luzonicum Schltr. in Fedde Repert. 13 (1915) 538; --Merr., EPFP 3 (1923) 341. --Type: Merrill 7702 (US*, iso). Luzon: Benguet prov., May 1911.

Sumatra, Peninsular Malaysia, Java, Krakatau, Borneo (Mabul Is.), Philippines, Sulawesi, Moluccas (Halmahera, Ambon), New Guinea.
LUZON: Ilocos Norte, Mountain Province, Benguet, Zambales, Bulacan, PANAY. Low and medium altitude thickets.

Cynanchum physocarpum Schltr. in Perkins, Frag. Fl. Philip. (1904) 121; --Merr., EPFP 3 (1923) 341; --Liede, Blumea 44 (1999) 487, Fig. 8. --Type: Warburg 13766 (not traced by Liede, probably destroyed at B).

Cynanchum schlechterianum Warb. in Perkins, Frag. Fl. Philip. (1904) 121; --Type: Warburg 13003 (not traced by Liede, probably destroyed at B). Luzon: Quezon prov., Sampaloc.

Cynanchum denigratum Elmer, LPB 10 (1938) 3549, not validly published, no Latin description. --Voucher: Elmer 15636 (L, holo; iso: BM, FI, G, NA*, NY*, 2 sheets). Luzon: Sorsogon prov., lowlands near Irosin, Mt Bulusan, Apr 1916.

BATAN, LUZON: Laguna, Quezon, Albay, Sorsogon (Mt Bulusan), CATANDUANES, CALAMIANES (BICAWAYAN). Thickets and degraded forests at low altitudes including near seashore. Fl. September-July.

Insufficiently known:

Cynanchum suluense Schltr. in Fedde Repert. 13 (1915) 539; --Merr., EPFP 3 (1923) 342. --Type: Merrill 5401

SULU.

Check identity of this Batan material:

Cynanchum liukiense Warb., Fedde Repert. 3 (1907) 305; --Hatusima, Mem. Fac. Agr. Kagoshima Univ. 5 (1966) 45. --Type from Ryukyus.

BATAN. Check voucher no.

Dischidia R Brown

Dischidia acutifolia Maingay ex Hook.f, Fl. Brit. India 4 (1883) 51; --Rintz, Blumea 26 (1980) 101, Fig. 23.

Dischidia brachystele Schltr., Fedde Repert. 13 (1915) 555; --Merr., EPFP 3 (1923) 347. --Type:

ssp. acutifolia

Thailand, Malesia: Sumatra, Peninsular Malaysia, Java, Borneo, Sulawesi and the Philippines.

LUZON: Bataan, Rizal, MINDANAO: Davao Oriental (Mati). Forests at medium altitudes.

Dischidia cleistantha Livshultz, Novon 13 (2003) 89, Fig. 1, 2, 3A, C-D. --Type: Merrill 11639 (K, holo; iso: P, US). Mindanao: Zamboanga.

LUZON: Benguet (Kapangan; Tublay), POLILLO (Karlangan), BURDEOS (Botanan), CATANDUANES (San Domingo River), MINDANAO: Zamboanga, BASILAN (Malamam), JOLO.

Dischidia clemensiae Schltr., Fedde Repert. 13 (1915) 556; --Merr., EPFP 3 (1923) 347. --Type: Clemens 362.

MINDANAO: Lanao del Sur. Thickets or forests, c. 600m.

Dischidia elmeri Schltr., Fedde Repert. 13 (1915) 556; --Merr., EPFP 3 (1923) 347. --Type: Elmer 10759 (BISH*, NY*, iso). Mindanao: Davao, Mt Apo, Todaya, hanging epiphyte in dense forest, altitude 3750ft, May 1909.

MINDANAO: Davao (Mt Apo, Todaya). Thickets or forests, c. 1130m.

Dischidia gibbifera Schltr., Fedde Repert. 13 (1915) 555; --Merr., EPFP 3 (1923) 348. --Type: BS 12011 Ramos (B*, iso). Luzon: Laguna prov., San Antonio, Aug 1910.

LUZON: Laguna. Forests at low and medium altitudes.

Dischidia hirsuta (Blume) Decne. *in* DC, Prodr. 8 (1844) 632; --Merr., EPFP 3 (1923) 348; --
Java.

Soejarto et al. (1995) P

Burma across Malesia from Peninsular Malaysia to New Guinea.

LUZON: Nueva Vizcaya, Laguna, Quezon, Sorsogon, POLILLO, MINDORO: Oriental Mindoro, PALAWAN (Mt Pulgar; Victoria Mtns), MASBATE, PANAY, LEYTE, SAMAR, MINDANAO: Zamboanga. Low to medium altitude forests, sometimes in mangroves.

Dischidia lancifolia Merr., PJS 13 c (1918) Bot. 330; EPFP 3 (1923) 348. --Type: BS 30374 Ramos. Catanduanes: back of Calolbong, on tree trunks in damp forests, low altitudes, 10 Dec 1917.

LUZON: Quezon, Sorsogon (Mt Bulusan, Irosin), CATANDUANES, MINDANAO: Bukidnon. Epiphytic in damp forests at low altitudes, up to 530m.

Dischidia major (Vahl) Merr., Interp. Rumph. Herb. Amb. (1917) 437; --Rintz, Blumea 26 (1980) 92, Fig. 6.

NE India, Burma, Thailand, Indochina, Australia, Malesia: Sumatra, Peninsular Malaysia, Borneo, Java, Sulawesi, New Guinea and the Philippines.

Philippine localities? Locally common on trees along the coast and up to 1000m on coastal mountains, forming large clusters on the branches. The pitcher leaves are commonly inhabited by ants.

Dischidia merrillii Schltr., PJS 1 (1906) Suppl. 299; EPFP 3 (1923) 348; --Elmer, LPB 10 (1938) 3560. --Type: Merrill 3904 (B*, NY*, iso). Luzon: Pampanga prov., Mt Arayat, near summit of slightly developed mossy forest, Oct 1904.

LUZON: Abra, Mountain Province, Benguet (Baguio), Pampanga (Mt Arayat), Bataan, Zambales, Rizal, Quezon (Lucban), Camarines, MINDORO, NEGROS: Negros Oriental (Cuernos Mtns), MINDANAO: Misamis. Chiefly in the mossy forest, 800-1800m.

Dischidia nummularia R Br., Prodr. Fl. Nov. Hol. (1810) 461; --Rintz, Blumea 26 (1980) 98, Fig. 18. --Type:

Dischidia copelandii Schltr., PJS 1 (1906) Suppl. 298; --Merr., EPFP 3 (1923) 347. --Type: Copeland 512 (B*, US). Mindanao: Davao, pendant in large bunches, Mar 1904.

Dischidia pubicaulis Schltr., not published. Based on Elmer 10481 (B*). Mindanao: Davao, Mt Apo, Todaya, May 1909.

NE India, Burma, Indochina, Thailand, Australia and Malesia: Sumatra, Peninsular Malaysia, Java, Borneo, Sulawesi, Moluccas, New Guinea and the Philippines.

LUZON: Laguna, Sorsogon (Mt Bulusan), MINDORO: Pinamalayan, NEGROS: Negros Oriental (Cuernos Mtns), MINDANAO: Zamboanga, Davao, Agusan del Norte (Mt Urdaneta). In thickets and forests at low altitudes.

Dischidia oiantha Schltr. *in* Perkins, Frag. Fl. Philip. (1904) 127; --Merr., EPFP 3 (1923) 348. --Type: Warburg 12252 (not seen). Luzon: Cagayan prov., Enrile.

Dischidia irosinensis Elmer, LPB 10 (1938) 3556, not validly published, no Latin descr. --Syntypes: Elmer 17226 and 15797. Luzon: Sorsogon prov., Mt Bulusan, Irosin, in woods, altitude 1250ft. Apr 1916.

CAMIGUIN DE BABUYANES, LUZON: Apayao, Ifugao, Benguet (Twin Peaks, near Baguio), Cagayan, Nueva Vizcaya, Rizal, Laguna, Batangas, Quezon, Sorsogon (Mt Bulusan), POLILLO, MINDORO, SAMAR, MINDANAO: Zamboanga. Thickets and forests at low and medium altitudes, often along the seashore.

Dischidia platyphylla Schltr., PJS 1 (1906) Suppl. 300; --Merr., EPFP 3 (1923) 348; --Elmer, LPB 10 (1938) 3563. --Type: Copeland 338 (B*, possible holo; iso: NY*). Mindanao: Davao, Mar 1904.

CAMIGUIN DE BABUYANES, LUZON: Laguna, Quezon (Lucban), POLILLO, LEYTE

(Palo), MINDANAO: Zamboanga, Davao, Surigao, SULU. On trees at low altitudes, often along the seashore.

Dischidia punctata (Blume) Decne. in DC, Prodr. 8 (1844) 632; --Merr., EPFP 3 (1923) 348; --Rintz, Blumea 26 (1980) 93, Fig. 9.

Dischidia joloensis Schltr., Fedde Repert. 13 (1915) 557; --Merr., EPFP 3 (1923) 348. --Type: Merrill 5327 (B*, iso?). Jolo: Mt Dajo, 11 Oct 1906.

S Thailand, Malesia: Sumatra, Peninsular Malaysia, Java, Borneo, SW Philippines. JOLO. In thickets, c. 550m.

Dischidia purpurea Merr., Govt. Lab. Publ. (Philip.) 17 (1904) 39; --Merr., EPFP 3 (1923) 348; --Elmer, LPB 10 (1938) 3563; --Soejarto et al. (1995) Prelim. Checklist Fl. Pl. Palawan. --Type:

LUZON: Apayao, Cagayan, Pangasinan, Bataan (Mt Mariveles), Laguna, Quezon, Camarines, PALAWAN (Quezon, TAMLANGON Is), LEYTE, SAMAR, MINDANAO: Davao (Mt Apo, Todaya, c. 1130m), Surigao. Epiphytic in medium altitude forests, ascending to 1200m.

Dischidia quinquangularis Schltr., Fedde Repert. 13 (1915) 557; --Merr., EPFP 3 (1923) 349. --Type: Copeland 555 (B*). Mindanao: Davao, Mar 1904.

MINDANAO: Davao. Thickets or forests.

Dischidia rosea Schltr., PJS 1 (1906) Suppl. 300; --Merr., EPFP 3 (1923) 349; --Elmer, LPB 10 (1938) 3563. --Type: Elmer 5838. Luzon: Benguet prov., Baguio.

LUZON: Ifugao, Benguet (Baguio). Forested ravines, at and above 1300m.

Dischidia ruscifolia Decne ex Becc., Malesia 2 (1886) 272; --Merr., EPFP 3 (1923) 349; --Elmer, LPB 10 (1938) 3564. --Type:

LUZON: Ilocos Norte, Abra, Benguet (Baguio), Cagayan, Pangasinan, Zambales, Pampanga, Nueva Vizcaya, Rizal, Laguna, Quezon, SIBUYAN (Mt Giting-giting), MINDANAO: Agusan del Norte (Mt Urdaneta). Mossy forests and on cliffs in damp primary forests, 300-1600m.

Dischidia saccata Warb. in Perkins, Frag. Fl. Philip. (1904) 127; --Merr., EPFP 3 (1923) 349. --Type: Warburg 14384 (B).

MINDANAO: Zamboanga, Davao. Epiphytic in mangroves.

Dischidia tonsa Schltr., Fedde Repert. 13 (1915) 558; --Merr., EPFP 3 (1923) 349. --Type: Merrill 7200 (B*, US, iso). Busuanga, Sept 1910.

Dischidia palawanensis Elmer, LPB 10 (1938) 3561. --Type: Elmer 13101 (MO*, NY*, iso). Palawan: Mt Pulgar (=Thumb Peak), Apr 1911.

BUSUANGA, CULION, PALAWAN (Thumb Peak; Talimbobog), PANAY. Forests near the seashore, ascending to **xxx m.**

Dischidia vidalii Becc., Malesia 2 (1886) 272, *in nota*; --Merr., EPFP 3 (1923) 349. --Type:

Dischidia pectenoides Pearson, J. Linn. Soc. Bot. 35 (1902) 377; --Merr., Fl. Manila (1912) 381. --Type: LUZON: Bataan, Rizal, Laguna. Epiphytic on dead or dying bamboo (*Schizostachyum*) at low altitudes.

Uncertain names needing validation.

Dischidia apoensis Elmer, LPB 10 (1938) 3551, not validly published, no Latin descr. --Type: Elmer 10659 (MO*, NY*, iso). Mindanao: Davao, Mt Apo, Todaya. Steep ravine along Sibulan River,

altitude 3000ft, May 1909.

Dischidia diphylla Elmer, LPB 10 (1938) 3553, not validly published, no Latin descr. –Type: Elmer 15870 (MO*, NA*, NY*, iso). Luzon: Sorsogon prov., Mt Bulusan, Irosin, in woods, altitude 1250 ft. April 1916.

Dischidia livida Elmer, LPB 10 (1938) 3558, not validly published, no Latin descr. –Type: Elmer 16591 (MO*, NY*, iso). Sept. 1916.

Dischidia palawanensis Elmer, LPB 10 (1938) 3561, not validly published, no Latin descr. –Type: Elmer 13101 (MO*, NY*, iso). Palawan: Puerto Princesa, Mt Pulgar (=Thumb Peak), in thickets and woodlands, altitude c. 250 ft, April 1911.

Dischidia sorsogonensis Elmer, LPB 10 (1938) 3564, not validly published, no Latin descr. –Type: Elmer 15809 (NA*, NY*, iso). Luzon: Sorsogon prov., Mt Bulusan, Irosin, in damp hemp fields, altitude 1000 ft, April 1916.

Dischidia striata Elmer, LPB 10 (1938) 3566, not validly published, no Latin descr. –Syntypes: Elmer 10481. Mindanao: Davao, Mt Apo, Todaya, in forest, altitude 4000ft, May 1909; --Elmer 16874: Luzon: Sorsogon prov., Mt Bulusan, Irosin, in forests, altitude 1000ft, Aug 1916.

Dischidia sylvestris Elmer, LPB 10 (1938) 3568, not validly published, no Latin descr. –Type: Elmer 11401 (NY*, iso). Mindanao: Davao, Mt Apo, Todaya. In forest, altitude 6500ft, Aug 1909. MINDANAO: Davao (Mt Apo). Forest, altitude 1800-2000m.

Dischidiopsis Schlechter

Dischidiopsis carinata Schltr., Fedde Repert. 13 (1915) 558; --Merr., EPFP 3 (1923) 349. –Type: Bolster 227 MINDANAO: Surigao. Low altitude thickets or forests.

Dischidiopsis copelandii Schltr., Fedde Repert. 13 (1915) 559, in nota; --Merr., EPFP 3 (1923) 350. –Type: MINDANAO: Davao. Low altitude thickets or forests.

Dischidiopsis imberbis Schltr., Fedde Repert. 13 (1915) 559; --Merr., EPFP 3 (1923) 350. –Type: BS 10728 RC McGregor (B*). Luzon: Cagayan prov., Claveria, Aug 1909. LUZON: Cagayan. Lowland thickets or forests.

Dischidiopsis incrassata Schltr., Fedde Repert. 13 (1915) 559; --Merr., EPFP 3 (1923) 350. –Type: LUZON: Sorsogon, BASILAN. Thickets along streams at low altitudes.

Dischidiopsis luzonica Schltr., Fedde Repert. 13 (1915) 560; --Merr., EPFP 3 (1923) 350. –Type: LUZON: Cagayan, Pangasinan, Laguna, Cavite. Epiphytic in low and medium altitude forests, sometimes on coconut trunks.

Dischidiopsis mariae Schltr., Fedde Repert. 13 (1915) 560; --Merr., EPFP 3 (1923) 350. –Type: Clemens *sn*, Mindanao: Lanao del Sur prov., MINDANAO: Lanao. Thickets or forests, c. 600m.

Dischidiopsis parasitica (Blanco) Merr., Sp. Blancoanae (1918) 317; EPFP 3 (1923) 350; --Marsdenia parasitica Blanco, Fl. Filip. (1837) 120, as 'parasita'; ed. 2 (1845) 86; ed. 3, 1 (1877) 156. –Type: Non extant. "Illustrative" specimen: Merrill Sp. Blancoanae 693 (US*). Luzon: Rizal prov., Pasay, epiphytic on *Mangifera indica* L., Dec 1914. Conchophyllum merrillii Schltr. ex Merr., Fl. Manila (1912) 380. –Type: Merrill 7441 (L*, iso). Luzon: Manila

and vicinity. Jan-Feb 1911.
Dischidiopsis philippinensis Schltr. in Perkins, Fragm. Fl. Philipp. (1904) 128. --Type: Merrill 972 (NY*, iso).
Lubang: Apr 1903.
LUZON: Bataan, Rizal, Laguna, LUBANG. Epiphytic in lowland thickets and forests.

Dolichostegia Schlechter

Dolichostegia boholensis Schltr., Fedde, Repert. 13 (1915) 554; --Merr., EPFP 3 (1923) 356. --
Type: BS 1693 McGregor.
BOHOL. Cliff near the sea. A monotypic endemic genus.

Dorystephania Warburg =Sarcobolus

Dregea E Meyer

Dregea volubilis (L.f.) Benth. ex Hook.f., Fl. Brit. Ind. 4 (1883) 46; --Merr., EPFP 3 (1923) 354;
--Lu et al., Fl. Taiwan ed. 2 (1998) 227, pl. 99, photo 155.
Wattakaka volubilis (L.f.) Stapf, Bot. Mag. 149 (1923) under t. 8976; --Hatusima, Mem. Fac. Agr. Kagoshima
Univ. 5 (1966) 46.
India to Java, Taiwan and the Philippines. BATAN, CAMIGUIN DE BABUYANES,
LUZON: Mountain Province, Cavite, Laguna, Rizal, Batangas, Zambales, LUBANG. Low
altitude thickets, also along seashores and riverine forests.

Eriostemma (Schlechter) Kloppenburg & Gilding

Eriostemma ciliata (Elmer ex CM Burton) Kloppenb. & Gilding, Fraterna 14(2) (2001) 4;
--Hoya ciliata Elmer ex Burton, Hoya, 9(4:2) (1988) 1; --Hoya ciliata Elmer, LPB 10 (1938) 3577,
not validly published, no Latin diagnosis. --Type: Elmer 11072 (A, L*, NY*, iso). Mindanao: Davao
del Sur prov., Mt Apo, Todaya, Jul 1909.

Eriostemma madulidii (Kloppenb.) Kloppenb. & Gilding, Fraterna 14(2) (2001) 4; --Hoya
madulidii Kloppenb., Fraterna 1 #1 (Fall 1990). --Type: Bolster 357 (B, holo; UC). Mindanao:
Surigao del Norte prov., Caningag Creek, altitude 400ft.
LUZON: Ifugao (PNH 80526 Conklin & Buwaya), MINDORO: Cabesa River (PNH 19486
Britton) Mindoro Oriental (Bongabong, PNH 17766 Sulit), PALAWAN (Mt Mantalingahan,
BS 77507 Edaño), JOLO (PNH 97463 Mendoza), MINDANAO: Zamboanga (Dikus, PNH
36055 Frake), Davao Oriental (Mati, BS 49264 Ramos & Edaño), Surigao del Norte
(type).

Additional exsiccatae: Loher 12139 (UC), possibly from Rizal prov.; and BS 15518
Kienholtz (UC),

Eriostemma pulgarensis (Elmer) Kloppenb. & Gilding, Fraterna 14(2) (2001) 4, *nom. inval.*

Finlaysonia Wallich

Finlaysonia obovata Wall., Pl. As. Rar. 2 (1831) 48, t. 162; --Merr., EPFP 3 (1923) 339.

India through Peninsular Malaysia to the Moluccas.
LUZON: Zambales, **Tayabas**, PANAY, LEYTE. Thickets along the seashore in swampy places, often in mangrove along tidal streams.

Genianthus Hooker *filius*

Genianthus syringifolius (Schltr.) Tsiang, Sunyatsenia 4 (1939) 60.
Secamone syringifolia Schltr., Fedde Repert. 13 (1915) 538; --Merr., EPFP 3 (1923) 343; --PI Forst. & Liddle, Austral. Syst. Bot. 7 (1994) 515. --Type: BS 17658 Ramos (BO, iso). Samar, Apr 1914.
LUZON: Laguna, MINDORO, SAMAR. Damp primary forests at low altitudes.

Gomphocarpus R Brown

Gomphocarpus fruticosus (L.) WT Aiton, Hortus Kew. (WT Aiton), ed. 2. 2 (1811) 80.
Extra-Philippine distribution? Native of ----- . Apparently naturalized in MINDANAO.

Gymnanthera R Brown

Gymnanthera pedunculata (Miq.) Fern.-Villar, Novis. App. (1880) 132, excl. syn. Llanos; --Merr., EPFP 3 (1923) 340.
Lesser Sunda Isls (Flores), Philippines.
MINDANAO: Davao. Thickets behind mangroves.

Gymnema R Brown

Gymnema calycinum Schltr., Fedde Repert. 13 (1915) 540; --Merr., EPFP 3 (1923) 344. --Type: Vanoverbergh 1214.
LUZON: Mountain Province. Thickets or secondary growth, c.1650m.

Gymnema cumingii Schltr., Fedde Repert. 13 (1915) 541; --Merr., EPFP 3 (1923) 344. --Type: Cuming 939.
LUZON: Albay, Sorsogon. Probably in thickets or secondary growth at low altitudes.

Gymnema mariae Schltr., Fedde Repert. 13 (1915) 540; --Merr., EPFP 3 (1923) 344. --Type: MS Clemens 757.
MINDANAO: Lanao. Forest, c. 650m.

Gymnema piperi Schltr., Fedde Repert. 13 (1915) 539; --Merr., EPFP 3 (1923) 344. --Type: Piper 485.
MINDANAO: Davao. Thickets and secondary growth at low altitudes, commonly along the seashore.

Gymnema schlechterianum Warb. *in* Perkins, Frag. Fl. Philip. (1904) 123; --Merr., EPFP 3 (1923) 344. --Type:
LUZON: Rizal, Quezon. Lowland thickets.

Gymnema tingens (Roxb.) Spreng., Syst. 1 (1825) 844; --Merr., Fl. Manila (1912) 378; EPFP 3 (1923) 344; --*Asclepias tingens* Roxb., Hort. Beng. (1814) 21, *nom. nud.*, Pl. Coromandel. 3 (1819) 34, t. 239. --Type:

India to Burma and Peninsular Malaysia, Philippines.

LUZON: La Union, Benguet, Bataan, Rizal, Cavite, Laguna, PALAWAN, MINDANAO: Bukidnon. Low altitude thickets and secondary growth.

Gymnema uncarioides Schltr., Fedde Repert. 13 (1915) 541; --Merr., EPFP 3 (1923) 345. --Type: BS 8218 Ramos.

LUZON: Nueva Vizcaya. Forests at low and medium altitudes.

Heterostemma Wight & Arnott

Heterostemma angustilobum Schltr., Fedde Repert. 13 (1915) 565; --Merr., EPFP 3 (1923) 355. --Type: Elmer 10814 (NY*, US*, iso). Mindanao: Davao, Mt Apo, Todaya, forests along Baruring River, altitude 3000ft, Jun 1909.

MINDANAO: Davao (Mt Apo). Thickets or forests, c. 900m.

Heterostemma cuspidatum Decne. in DC, Prodr. 8 (1844) 630; --Merr., EPFP 3 (1923) 355. --Type: Cuming 1449.

LUZON: Rizal, Laguna, Cavite, Batangas, BUSUANGA, PALAWAN (Puerto Princesa, Tagbaros, km 17). Low altitude secondary forests and thickets.

Heterostemma herbertii Elmer, LPB 8 (1919) 3074; --Merr., EPFP 3 (1923) 355. --Type: Elmer 17661 (BO, lecto, designated by PI Forster & Liddle, 1994; iso: NY*, US*), Elmer 18247 (BO, lectoparatype, designated by PI Forster & Liddle, 1994; NA*, NY*, US*).

LUZON: Laguna. Primary forests, c. 450m.

Hoya R Brown

Philippine Revision:

Kloppenb., D. 1996. Philippine Hoya Species, A Monograph. 157 pp., illustr., privately published.

Hoya alagensis Kloppenb., Fraterna 1, no. 1 (1990); Philip. Hoya Sp. ed. 3 (1996) 29, fig. --Type: Merrill 5542 (B*, holo). Mindoro: Mindoro Oriental prov., Alag River, altitude 150m, Nov 1906.

MINDORO: Mindoro Oriental (Alag River).

Hoya angustisepala Schltr. ex CM Burton, Hoya 8 (1987); --Kloppenb., Philip. Hoya Sp. ed. 3 (1996) 31, fig.; --*Hoya angustisepala* Schltr., ined.; --*Hoya mindanaensis* Elmer, LPB 10 (1938) 3584, not validly published, no Latin descr. --Type: Elmer 10829 (B*, holo; iso: BISH*, L*, NY*). Mindanao: Davao del Sur prov., Mt Apo, Todaya, forest along Sibulan River, altitude 3000 ft, Jun 1909.

MINDANAO: Davao (Mt Apo).

Hoya anncajanoae Kloppenb. & Siar, Asia Life Sci. 17(1) 2008 62 (-66; figs. 4-6). --Type: CAHUP 70358 Siar & Cajano 5923 (CAHUP, holo; iso: CAHUP 2 sheets). Luzon: Laguna prov., Siniloan municip., Barangay Kapatalan, altitude c. 300m, 29 Nov 2006.

LUZON: Laguna

Hoya apoensis Kloppenb. & Siar
Not in IPNI

#71718 (CAHUP)

Hoya atimonensis Kloppenb. & Siar
Not in IPNI

#69916 (CAHUP)

Hoya aurantiaca Kloppenb., Siar & Cajano, Asia Life Sci. 18(1) (2009) 140 (-144; figs. 1-3). –Type: CAHUP 70395 Siar & Cajano 5962 (CAHUP, holo). Luzon: Laguna prov., Siniloan municip., Barangay Kapatalan, altitude c. 300m, 19 Jul 2007.
LUZON: Laguna

Hoya benguetensis Schltr., PJS 1 (1906) Suppl. 301; --Merr., EPFP 3 (1923) 351; --Kloppenb., Philip. Hoya Sp. ed. 3 prov., Baguio, Mar 1904.
LUZON: Benguet, SAMAR (Mt Concord; Mt Sohoton). Thickets or forests, 1200-1600m in Benguet.

Hoya benitotanii
Not in IPNI

#2010-6 (UC)

Hoya benvergarai Kloppenb. & Siar, Asia Life Sci. 17(1) (2008) 58 (-62; figs. 1-3). –Type: CAHUP 70357 Siar & Cajano 5932 (CAHUP, holo). Luzon: Quezon prov., Dolores, altitude c. 30m. Type specimen from a cultivated plant.
LUZON: Quezon

Hoya bicknellii Kloppenb., Fraterna 12 no. 4 (1999) 12. –Type: Bicknell 1470 (UC, holo). Cebu: Cebu prov., Matutinao (Kawasan), Bidian.
CEBU

Hoya bicolensis Kloppenb. & Siar
Not in IPNI

#JP 1994 (UC)

Hoya bicolor Kloppenb., Fraterna 16(1) (2003) 1. –Type: CAHUP 67050 (CAHUP, holo). Type material from UPLB plant breeding program, Los Banos, Laguna. Provenance: Luzon: Quezon prov., Mt Banahaw.
LUZON: Quezon (Mt Banahaw).

Hoya bilobata Schltr., PJS 1 (1906) Suppl. 301; --Merr., EPFP 3 (1923) 351. --Type: Copeland 420 (PNH, holo, possibly lost; iso: B*, L*, NY*, US*), Mindanao: Davao, epiphytic, Mar 1904.
LUZON: Laguna, MINDANAO: Zamboanga, Davao. On trees at low altitudes.

Hoya blashernaезii Kloppenb., Fraterna 12 no. 1 (1999) 9. –Type: BISH 97093 BF Hernaez (BISH*, holo). From cultivated materials originally collected from Catanduanes by Blas F Hernandez in 22 Nov 1998.
CATANDUANES. Low altitude.

Hoya bordenii Schltr., PJS 1 (1906) Suppl. 302; --Merr., EPFP 3 (1923) 351. --Type: FB 1213 TE Borden (B*, holo). Luzon: Bataan prov., Mt Mariveles, Lamao River, in forest, altitude 650m, Jun 1904.
LUZON: Benguet, Pangasinan, Bataan (Mt Mariveles), Bulacan, Cavite, Quezon, Sorsogon (Mt Bulusan). On trees in low and medium altitude forests.

Hoya brittonii Kloppenb., Fraterna 4th Quarter 1992. --Type: PNH 19519 (=BB Britton 256).

Mindoro: Mindoro Oriental prov., Calapan, Badoc, May 1953.

MINDORO

Hoya buotii Kloppenb., *Fraterna* 15(4) (2002) 1. --Type: CAHUP 67049 (CAHUP, holo).
LUZON: Quezon

Hoya burtoniae Kloppenb., *Hoyan* 12 #1 (1990). --Type: Loher *sn* (UC). Luzon: Rizal prov.,
Montalban, Sept 1909.
LUZON: Rizal (Montalban).

Hoya cagayanensis Schltr. *ex* CM Burton, *Hoyan* 8 #4 pt. 2 (1987) pp.b-c. --Type: BS 7374
Ramos (B*, holo), Luzon: Cagayan prov., Mar 1909.
Hoya elmeri Schltr., *ined.*, Based on Elmer 8896 (B*, NY*). Luzon: Benguet prov., Baguio, Mar 1907.
LUZON: Benguet, Cagayan, Aurora (Casiguran), Quezon (Umiray), Laguna, PALAWAN
(Mt Pulgar).

Hoya camphorifolia Warb. in Perkins, *Frag. Fl. Philip.*, 1 (1904) 129; --Merr., *EPFP* 3 (1923) 351.
--Type: Warburg *sn*, Luzon: Quezon prov., Sampaloc.
LUZON: Benguet, Laguna, Quezon, Sorsogon (Mt Bulusan), MINDORO. From sea level
to 1200m in riverine forests, secondary and primary forests.

Hoya cardiophylla Merr., *PJS* 17 (1920) 310; *EPFP* 3 (1923) 351. --Type: BS 35160 Ramos & Pascasio (US*, iso). D
LEYTE: Leyte (Ormoc, Antilao River), MINDANAO: Bukidnon (Mt Kitanglad), Surigao del
Norte, DINAGAT. On trees at low altitudes in Leyte, Dinagat, and Surigao del Norte.

Hoya cembra Kloppenb., *Fraterna* 1, no. 1 (1990). --Type: Merrill 5650 (B*, holo). Mindoro: Mindoro
Oriental prov., Alag River, scandent in thickets along river, altitude 300m, Nov 1906. Distributed as
H. leucantha Schltr., *ined.*
MINDORO: Mindoro Oriental (Alag River).

Hoya coriacea Blume *Bijdr.* (1826) 1063; ---Kloppenb., *Philip. Hoya Sp. ed.* 3 (1996) 55, fig.

Java, Philippines.

PALAWAN (SW coast). No exsiccate cited

Hoya coronaria Blume, *Bijdr. Fl. Ned. Ind.* 16 (1826-27) 1063.

Extra-Philippine distribution?

TAWI-TAWI. Based on BS 44098 Ramos & Edaño (B*), collected Jul-Aug 1924.

Hoya crassicaulis (Elmer) Kloppenb., *Fraterna* 3rd Quarter issue 1995; *Philip. Hoya Sp. ed.* 3
(1996) 57, fig. --Type: Elmer 14440 (GH, not seen). Luzon: Sorsogon prov., Irosin (Mt Bulusan),
altitude 250ft, Oct 1915.
Merrill 4082 (US) and 11591, Weber 1003, Bolster 393, Elmer 14440, 16718.

Hoya cumingiana Decne., in *DC Prodr.* 8 (1844) 636; --Merr., *EPFP* 3 (1923) 351. --Type: Cuming
1480 (L*, iso). Philippines, no further locality data.

Java, Philippines.

LUZON: Mountain Province, Benguet, Bataan, Rizal, Camarines, MINDORO,
PABELLONES off N PALAWAN, TICAQ. Chiefly on limestone cliffs and boulders in open
places, 0-1600m.

Hoya curtisii King & Gamble, *Fl. Mal. Pen.* 2 (1903) 564

Extra-Philippine distribution?

PALAWAN

Hoya davidcummingii Kloppenb., *Fraterna* 2nd Quarter 1995. --Type: T Green 9 (BISH*, holo; UC).

Described from cultivated materials collected from Luzon: Sorsogon prov., 1.5 km from Lake Bulusan coming from I
LUZON: Sorsogon (Lake Bulusan).

Hoya darwinii Loher, *Gard. Chron.* 47 (1910) 66 (3rd series); --Merr., *EPFP* 3 (1923) 352.-- Type: Loher 14574 (UC), Luzon

LUZON: Rizal, Quezon, PANAY. Low or medium altitude forests.

Hoya densifolia Turcz., *Bull. Soc. Nat. Mosc.* 21, 1 (1848) 261. --Type from Java

Hoya diversifolia Blume, *Bijdr. Fl. Ned. Ind.* 16 (1826-27) 1064.

subsp. diversifolia

Burma, Malaya

subsp. el-nidicus (Kloppenb.) Kloppenb., *Fraterna* 14(1) (2001) 13; --Hoya el-nidicus Kloppenb.,

Fraterna 3rd Quarter (1991) 1. --Type: CAHUP 41931 JV Pancho (CAHUP, holo). Palawan: El Nido, Aug 1988

Hoya edanoi CM Burton, *Hoyan* 12 # 2 pt. 2 (1990). --Type: BS 11655 Edaño (A). Negros: Negros Oriental prov., Lake Balinsasayao.

NEGROS: Negros Oriental (Lake Balinsasayaw), TAWI-TAWI (*BS 44121 Ramos & Edaño, B**).

Hoya fischeriana Warb., *Perkins Frag. Fl. Philip.* 1 (1904) 129; --Merr., *EPFP* 3 (1923) 352. --Type:

Warburg 11955, Luzon: Isabela prov., Malunu

LUZON: Ilocos Norte, Isabela, Aurora, MINDORO: Oriental Mindoro, BILIRAN, DINAGAT, MINDANAO: Davao, Surigao. On trees at low altitudes.

Hoya gigantanganensis Kloppenb., *Fraterna* 4th Quarter (1992). --Type: PNH 36787 Kondo & Edaño (PNH). Leyte: C

LEYTE

Hoya golamcoana Kloppenb., *Fraterna*, 1991(3); *Philip. Hoya Sp. Suppl.* (1991) II, as 'golamcoiana' --Type: #41930 (CAHUP)

PALAWAN

Hoya greenii Kloppenb., *Fraterna* 2nd Quarter (1995). --Type: T Green 7 (BISH*, holo). Described

from cultivated materials collected from Mindanao: North Cotabato prov., Kidapawan, Mt Apo, trail to hot springs lake, 4000ft., 30 Oct 1993.

MINDANAO: North Cotabato (Mt Apo).

Hoya halconensis Schltr. ex Kloppenb., *Fraterna* 1 # 1 (Fall, 1990). --Type: Merrill 5674 (B*, holo).

Mindoro: Mindoro Oriental prov., Mt Halcon, scandent in mossy forest, altitude 900m., Nov 1906.

MINDORO: Mindoro Oriental (Mt Halcon).

Hoya heuschkeliana Kloppenb., *Hoyan* 11 #1, pt. 2 (1989) i-ii. --Type: Pancho 2175 (CAHUP).

Luzon: Sorsogon prov., Lake Bulusan, altitude c. 50m.

subsp. heuschkeliana

LUZON: Sorsogon

subsp. cajanae Kloppenb. & Siar, *Fraterna* 20(4) (2007) 9 (-11; figs.). --Type: CAHUP 56574

Hernaiz & Cajano (CAHUP, holo).

Hoya imbricata Decne. in A DC Prodr. 8 (1844) 637; --Koord., PJS 15 (1919) 263, incl. forma typica, nom inval.; --DC. in Deless., Icon. Sel. P1. 5 (1846) 37, t. 90; --Merr., EPFP 3 (1923) 352. --Syntypes: Calléry *sn* (P, not seen). Luzon: Laguna prov., Calauan; --Deless., Icon. Sel. Fl. 5 (1846) t. 90

Hoya imbricata forma basisubcordata Koord., PJS 15 (1919) 264, t. 2, 3; --Merr., EPFP 3 (1923) 352. --Syntypes: BS 24910 Edaño, Samar, --BS 18893 RC McGregor. Biliran, --Copeland 399. Mindanao, Davao district, all apparently loaned from PNH, now lost.

Hoya pseudomaxima Koord., PJS 15 (1919) 265; --Merr., EPFP 3 (1923) 353. --Type: BS 22089 Ramos (US*, iso). Luzon: Camarines Sur prov., Mt Isarog, Nov-Dec 1913. Note: Protologue cites the type locality as Luzon: Rizal prov., Bosoboso, 7 Dec 1913.

Hoya maxima (H Karst.) Warb. in Feddes Repert. Spec. Nov. Regni. Veg. 3 (1907) 342, non Teijsm. & Binn. (1863); --Dischidia maxima Koord., Meded. Lands Plantentuin 19 (1898) 534; --Conchophyllum maximum H Karst., Ann. Jard. Bot. Buitenzorg 12 (1895) 158. --- Type: Not indicated but obviously Karsten's own collection(s).

Philippines, Sulawesi.

LUZON: Mountain Province, Isabela, Rizal, Laguna, Camarines Sur, Sorsogon, BUSUANGA, PALAWAN (Puerto Princesa: St Paul Bay, Sabang beach; Tagbaros, km 17 to Roxas; Quezon: Sinadan; Tamlangon), BILIRAN, SAMAR, MINDANAO: Agusan del Sur, Davao. Epiphytic at low and medium altitudes.

Hoya imperialis Lindl., Bot. Register 1846, plate 68. --Type from Borneo Borneo and SW Philippines. PALAWAN. In mangroves.

Hoya incrassata Warb. in Perkins Frag. Fl. Philip. (1904) 130; --Merr., EPFP 3 (1923) 352; --Type: Warburg 12998, 12997 (syntypes, not seen). Luzon: Quezon prov., Sampaloc.

Hoya crassicaulis Elmer, LPB 10 (1938) 3579, no Latin description. --Type: Elmer 14440 (NY*, iso). Luzon: Sorsogon prov., Mt Bulusan, Irosin, Oct 1915.

Hoya reticulata Merr., PJS 17 (1921) 311; EPFP 3 (1923) 353, *syn. non valid*. --Type: BS 34530 Ramos & Pascasio (US*, iso). Mindanao: Surigao prov., in swampy tickets at low altitudes, 17 Apr 1919.

Hoya orientalis PT Li, Bull. Bot. Res. (1984) 121.

LUZON: Rizal, Laguna, Quezon, Sorsogon, POLILLO, MINDORO, BUSUANGA, PANAY, CAMIGUIN, MINDANAO: Agusan, Surigao del Norte. On trees as well as swampy thickets at low altitudes.

BS 3257 Ramos (US), 32384, 22822, 29232, 10431, 10336, 14730, 41223, BS 34530 Ramos & Pascasio, BS 83385 Ramos & Convozar, BS 46166 Edaño (UC), Warburg 14387 (sterile), Wenzel 2613 (BO, UC, A).

Hoya intermedia Schltr. *ex* Elmer, LPB 10 (1938) 3574, in obs., nomen. --Based on FB 5177 WI Hutchinson (B*). Mindanao: Zamboanga prov., 1906.

MINDANAO: Zamboanga

Hoya juannguoiana Kloppenb., Fraterna 15(2) (2002) 15. --Type: Kloppenburg 2001 (UC, holo). Palawan: Palawan prov., St Paul's Underground River

PALAWAN

Hoya kentiana CM Burton, Hoya 12 (3:2) (1991) iv. --Type: BS 28531 Ramos & Edaño (US*, holo). Luzon: Quezon prov., Mt Binuang, May 1917.

LUZON: Quezon (Mt Binuang).

Hoya landgrantensis Kloppenb., Siar & Cajano, Asia Life Sci. 18(1) (2009) 147 (-150; figs. 7-9). --Type: CAHUP 70617 Siar & Cajano 5963 (CAHUP, holo; iso: CAHUP). Luzon: Laguna prov., Siniloan municip., Barangay Kapatalan, altitude c. 300m, 19 Jul 2007.

LUZON: Laguna.

Hoya lazaroii Kloppenb. & Siar, *Asia Life Sci.* 17(1) (2008) 66 (-70; figs. 7-9); see also, *Fraterna* 21(4) (2008) 22 (-25; figs.). --Type: SV Siar & MAO Cajano 5942 (CAHUP 70361, holo). Type specimen from a cultivated plant originally collected from Luzon: Quezon prov., Mt Banahaw, altitude c. 20m.
LUZON: Quezon (Mt Banahaw).

Hoya leytenis Elmer ex CM Burton, *Hoyan* 10 (1988) i. --Type: Elmer 7261 (US), Leyte: Palo, on tree branches, near sea-level. Jan 1906.
Hoya leytenis Elmer, [LPB 10 (1938) 3582, *invalid name, no Latin descr.*
LEYTE: Leyte (Dagami, Wenzel 19333; Cabalian, BS 41631 Lopez (US); Lake Bito, Glassman 790).

Hoya linavergarae Kloppenb. & Siar, *Fraterna* 19(4) (Oct-Dec 2006) 11. Figs. --Type: CAHUP 68632 (CAHUP, holo).

Hoya loheri Kloppenb., *Fraterna* 3rd Quarter (1991) iii. --Type: Loher *sn* (UC, holo). Luzon: Rizal prov., Montalban, Mt Paningtingan, 15 Mar 1915.
LUZON: Rizal (Montalban, Mt Paningtingan), Quezon.



Hoya lucardenasiana Kloppenb., Siar & Cajano, *Asia Life Sci.* 18(1) (2009) 144 (-147; figs. 4-6). --Type: SV Siar & MAO Cajano 5961 (CAHUP 70615, holo; iso: CAHUP). Luzon: Laguna prov., Siniloan municip., Barangay Kapatalan, altitude c. 300 m, 19 Jul 2007.
LUZON: Laguna

Hoya lucyae Kloppenb. & Siar, *Fraterna* 19(4) (Oct-Dec 2006) 8, Figs. --Type: CAHUP 68633 Bicknell (CAHUP, holo). Cebu, Jan 1998.
CEBU

Hoya macgregorii Schltr., *PJS* 1 (1906) Suppl. 302; --Merr., *EPFP* 3 (1923) 352. --Type: RC MacGregor 191 (B*, holo), Mindoro: Mindoro Oriental prov., Baco River, Apr-May 1905.
MINDORO: Mindoro Oriental (Baco River; Bongabong, PNH 17764 Sulit), PALAWAN (Mt Pulgar =Thumb Peak), SAMAR (Mt Capotoan, BS 45570 Ramos, PNH 15541 Edaño). On trees at low altitudes in the type locality.

E. madulidii Klopp. syn *Hoya coronarioides* #357 (B)

Hoya meliflua (Blanco) Merr., *Sp. Blancoanae* (1918) 318; *EPFP* 3 (1923) 352; --*Stapelia meliflua* Blanco, *Fl. Filip.* (1837) 202. --Type:
Hoya luzonica Schltr. in K Schum. & Laut., *Nacht. Fl. Deutsch Sudsee* (1904) 364; in Perkins, *Frag. Fl. Philip.* (1904) 130; --Merr., *Fl. Manila* (1912) 380. --Type: Warburg 13765 (B*, holo). Luzon: Zambales prov.,

Hoya amblyolepis Schltr syn of *Hoya meliflua* ? syn. #4515 (B)
LUZON: Apayao, La Union, Zambales, Bataan, Rizal, Laguna, MINDORO, PALAWAN (Taytay; Talimbobog), PANAY, NEGROS, LEYTE, MINDANAO: Davao Oriental (Mati).
On trees at low altitudes.

What is Hoya amblyolepis Schltr.?

Based on FB 4515 Curran (B*) from Palawan, collected May 1906

Hoya memoria Kloppenb., *Fraterna* 17 no. 4 (2004): 2 (1-3; photogs.). --Type: xxxx 81074 (UC, holo). Luzon: Manila Memorial Garden, 1981.

LUZON: Manila. Described from cultivated material?

Hoya merrillii Schltr. in Perkins Fragm. Fl. Philip. (1904) 1313; --Merr., EPFP 3 (1923) 353. -- Type: Merrill 2218 (B*, holo; iso: A, NY*, US*). Mindoro: Mindoro Oriental prov., Pola, May 1903.

LUZON: Nueva Vizcaya, Quezon, Cavite, Camarines, POLILLO, MINDORO: Mindoro Oriental, BOHOL, MINDANAO: Davao. On trees at low altitudes.

Hoya mindorensis Schltr., PJS 1 (1906) Suppl. 302; --Merr., EPFP 3 (1923) 353. --Type: RC MacGregor 332 (B*, holo). Mindoro: Mindoro Oriental prov., Baco River, Apr-May 1905.

Hoya mindorensis Schltr. syn *Hoya erythrostemma*

MINDORO: Mindoro Oriental. On trees at low altitudes.

Kloppenb. (1996) also adds the following:

LUZON: BS 28222 Fenix; Rizal (PNH 36815 Santiago), Sorsogon (Mt Bulusan, PNH 2792 Sulit), NEGROS: Negros Oriental (Cuernos Mtns, Elmer 10267), SAMAR (Mt Sohoton, PNH 117696 Gutierrez), MINDANAO: Zamboanga del Norte (PNH 38435 Frake).

subsp. superba Kloppenb., Fraterna 18(3) (2005) 1 (-4; photos). #2005 (UC)

Hoya monetteae T Green, Fraterna 17(2) (2004) 10, (-15; figs.). #007 (BISH)

Hoya obscura Elmer ex CM Burton, Hoyan 8 (1986) 15. --Type: Elmer 16719 (A, UC), Luzon: Sorsogon prov., Irosin

Hoya gracilis Merr., EPFP 2 (1923) 352, *non* Schltr. (1908).

Sulawesi, Philippines.

LUZON: Laguna (Mt Makiling), Quezon, Albay (Mt Malinao), Sorsogon, MINDORO, PANAY. In primary forests on ridges extending into the mossy forest, altitude c.1000m.

Hoya odetteae Kloppenb., Fraterna 11 (1998) 8. --Type: T Green 9801 (BISH*, holo). Described from cultivated plant from NW Mindanao: 6 km N of San Francisco & 14 km S of Sta Maria, growing on tree by river beside the bridge, 26 Feb 1998.

MINDANAO: Davao (E base of Mt Apo). Epiphytic along riverbank. #5604 (BISH, UC)

Hoya odorata Schltr., PJS 1 (1906) Suppl. 303; --Merr., EPFP 3 (1923) 353. --Type: Merrill 3202 (B*, holo; iso: US). Luzon: Bataan prov., Mt Mariveles, epiphytic in mossy forest, altitude 1300m, 1 Jun 1904.

BATANES, LUZON: Ifugao, Bataan, Rizal (Mt Paningtingan), Laguna (Mt Makiling), Sorsogon, PANAY, NEGROS: Negros Occidental (Mt Canlaon), Negros Oriental (Cuernos Mtns), CAMIGUIN. Mossy forests on ridges, 1200-2000m.

Hoya palawanica Schltr. ex Kloppenb., Fraterna 1(1) (1990). --Type: Foxworthy 834 (B*, holo). Palawan: border of mangrove swamp, May 1906.

POLILLO (Karlogan, PNH 8974 Fox), PALAWAN, MINDANAO: Agusan del Norte (Mt Hilong-hilong, PNH 10664 Mendoza & Convozar).

Hoya panayensis Kloppenb. & Siar # 32378 (UC)

Hoya panchoi Kloppenb. ex CM Burton & DH Kent, Hoyan 13 #1, pt. 2 (1991) 1; --PI Forst. & Liddle, Austral. Syst. Bot. 7 (1994) 512. --*Hoya bulusanensis* Elmer, LPB 10 (1938) 3577, not

validly published, no Latin descr. --Type: Elmer 15937 (BISH*, BO, L*, NY*, US, iso). Luzon: Sorsogon prov., Irosin (Mt Bulusan), steep forested ravine at 1500 ft. elevation, May 1916.
LUZON: Sorsogon (Mt Bulusan). Forests, altitude c. 450-550m.

Hoya paziae Kloppenb., *Fraterna*, 1(3), Philip. Hoya Sp. Suppl. (1990) VI; --Hoya eugeniodes Schltr., *ined.*, --Type: Merrill 5618 (B*, holo). Mindoro: Mindoro Oriental prov., Mt Halcon, scandent in mossy forest, altitude 900m, Nov 1906.

LUZON: Quezon, MINDORO: Mindoro Oriental (Mt Halcon), PANAY: Antique (Mt Madya-as, BS 32374 McGregor, PNH 30730 Ramos & Edaño). Mossy forest, altitude 900m on Mt Halcon.

Hoya pentaplebia Merr., *PJS* 13 c (1918) Bot. 330; *EPFP* 3 (1923) 353. --Type: BS 17411 Ramos (L*, NY*, US*, iso). Samar: Cauayan Valley, in damp forest, Mar 1914

MINDORO: Mindoro Oriental (Pinamalayan), BILIRAN, SAMAR, MINDANAO: Surigao. Forests (including mangroves) at low altitudes.

Hoya pimenteliana Kloppenb., *Fraterna* 12 (1999) 7. 96034 (CAHUP)

LUZON: Laguna. Twining on trees and shrubs at low elevations.

Hoya pubicalyx Merr., *PJS* 13 c (1918) Bot. 131; *EPFP* 3 (1923) 353. --Type: BS 19484 Ramos & Edaño (not seen). Luzon: Quezon prov., Mauban, on trees along streams in damp forest, 24 Jan 1913.

LUZON: Quezon (Mauban). Forest near the seashore.

Hoya querinoensis Kloppenb. & Siar, *Fraterna* 20(4) (2007) 13 (-15; figs.). --Type: CAHUP 41946 M Wayet (CAHUP, holo). Luzon: Quirino prov., 15 Sept 1988.

Hoya quinquenervia Warb. in Perkins, *Frag. Fl. Philip.* 1 (1904) 132; --Merr., *EPFP* 3 (1923) 353. --Type: Warburg 11956 (B, not seen). Luzon: Isabela prov., Malunu

LUZON: Isabela (Malunu), Sorsogon. Forests at low and medium altitudes.

Hoya quisumbingii Kloppenb., *Fraterna* 4th Quarter (1992). --Type: PNH 79412 Quisumbing et al. (PNH). Batanes, Itbayat Is., Mar 1961.

Hoya ramosii Kloppenb. & Siar

#75500 (PNH)

Hoya reticulata Merr., *PJS* 17 (1920) 311; *EPFP* 3 (1923) 353. --Type: BS 34530 Ramos & Pascasio. Mindanao: Surigao, swampy thickets at low altitude, 17 Apr 1919.

MINDORO, MINDANAO: Surigao. Low altitude swampy thickets in Surigao.

Synonymous with *H. incrassata* or *H. cardiophylla*?

Hoya rizaliana Kloppenb., *Fraterna* 3rd Quarter (1991) sect. 2, iv. --Type: Loher *sn*, (UC). Luzon: Rizal prov., Montalban, Oct 1909.

Hoya rosarioae Kloppenb. & Siar

#5268 (CAHUP)

Hoya ruscifolia Decne., in *DC Prodr.* 8 (1844) 639. --Type: Callery *s.n.*, Luzon: Igorrotes Mtns
LUZON

Hoya schallertiae CM Burton, *Hoyan* 3 no. 4 (1982) 96. --Type: Mearns *sn* (US*, iso). Mindanao: Cotabato prov., Rio Grande Valley, Seranaya, 11 Mar 1904.

According to Kloppenburg (1996), this is a *Dischidia*.

Hoya siariae Kloppenb., *Fraterna* 15 (2002) 1.

#67052 (CAHUP)

Hoya soligamiana Kloppenb. & Siar

#69916 (CAHUP)

Hoya stoneana Kloppenb. & Siar, *Fraterna* 19(4) (2006) 19.

Hoya suragaoensis Kloppenb. & Siar

71719 (CAHUP)

Hoya tsangii CM Burton, *Hoyan* 9 #4 (1988) pt. 2, i-ii; --Hoya angustifolia Elmer, LPB 10 (1938) 3572, not validly published, no Latin descr. --Syntypes: Elmer 16340 (NY*), 16916 (NY*). Luzon: Sorsogon prov., Irosin, Mt Bulusan, in dense woody tangles, altitude 1000ft, Aug 1916; --Elmer 13372 (A, CAS, L*, NY*, US), Mindanao: Agusan del Norte prov., Cabadbaran (Mt Urdaneta), Aug 1912.

Hoya viracensis Kloppenb. & Siar, *Fraterna* 19(4) (Oct-Dec 2006) 5, figs.

CATANDUANES

Hoya wayetii Kloppenb., *Fraterna* No. 2 (1993) 10. --Type: M Wayet 1989 (CAHUP, holo; iso UC).

Luzon: Benguet prov., Baguio, Nov 1989.

LUZON: Benguet

Hoya wibergiae Kloppenb., *Fraterna* 14(1) (2001) 5. --Type: Specimen prepared from cultivated material from Fresno, California by Kloppenburg (Hort. No. 951074) (UC*, holo). Origin: Palawan:

Estrella Falls area

PALAWAN

Ined. Names:

Hoya fitchii Kloppenb.

#2006 (UC)

Not in IPNI.

Hoya krohniana Kloppenb. & Siar

#76365 (CAHUP)

Not in IPNI

Hoya merlinii Suarez, *ined.*

Hoya myrmecopa

Hoya simonae Suarez, *ined*

Invalidly published names:

Hoya pubifera Elmer, LPB 10 (1938) 3588, not validly published, no Latin descr.; --Voucher: Elmer 16971 (GH, L*, NY*). Luzon: Sorsogon prov., Mt Bulusan. Forests, altitude c. 1500ft, Aug 1916.

LUZON: Sorsogon (Mt Bulusan). Forests, c. 450m.

Check occurrence in the Philippines:

Hoya mitrata Kerr

Hoya verticillata G. Don, *Gen. Hist.* 4 (1837) 128.

Ischnostemma Gamble

Ischnostemma carnosum (R Br.) Merr. & Rolfe, PJS 3 c (1908) Bot. 121; --Merr., Fl. Manila (1912) 378; EPFP 3 (1923) 342.

Peninsular Malaysia, Java, Philippines, tropical Australia. LUZON: La Union, Bataan, Rizal, MINDANAO: Davao. Thickets near the seashore.

Marsdenia R Brown

Marsdenia pachyglossa (Schltr.) PI Forster, Austral. Syst. Bot. xxxxx

Gymnema pachyglossum Schltr., PJS 1 (1906) Suppl. 295; --Merr., EPFP 3 (1923) 344. --Type: LUZON: Ilocos Norte, Bataan, Rizal, Laguna, Quezon, Batangas, MINDORO, PALAWAN, CAGAYAN DE SULU. Thickets and secondary growth at low altitudes, commonly along the seashore.

Marsdenia pergulariformis Schltr. in Perkins, Frag. Fl. Philip. (1904) 133; --Merr., EPFP 3 (1923) 354. --Type: Warburg 13002 (B).

LUZON: Quezon. Probably from thickets at low altitudes.

Marsdenia philippinensis Schltr. in Perkins, Frag. Fl. Philip. (1904) 133; --Merr., EPFP 3 (1923) 354. --Type:

LUZON: Pangasinan, Bataan, Rizal, Laguna. Low altitude forests and thickets.

Marsdenia tinctoria R Br., Mem. Wern. Soc. 1 (1809) 30; --Merr., EPFP 3 (1923) 354; --Lu et al., Fl. Taiwan, ed. 2, 4 (1998) 237, photo 162.

Tropical Africa and Asia. LUZON: Ilocos Norte, Abra, Ilocos Sur, Mountain Province, Benguet, Nueva Vizcaya, Rizal, Laguna, Quezon, Sorsogon, MINDORO, PANAY, LEYTE, BASILAN, MINDANAO. Low and medium altitude primary and secondary forests.

Marsdenia warburgii Schltr. in Perkins, Frag. Fl. Philip. (1904) 133; --Merr., EPFP 3 (1923) 354. --Type: Warburg 15026.

MINDANAO: Cotabato. Low altitude thickets.

Petalonema Schlechter *non* Gilg = Quisumbingia

Quisumbingia Merrill

Quisumbingia merrillii (Schlechtr.) Merr., Philip. J. Sc. 60 (1936) 33

Petalonema merrillii Schlechtr., Fedde, Repert. 13 (1915) 544; --Merr., EPFP 3 (1923) 356.

Schlechterianthus merrillii (Schlechtr.) Quisumb., PJS 41 (1930) 343.

LUZON: Mountain Province, Benguet. Thickets about limestone cliffs, 1200-1600m.

Sarcostemma R Brown

Sarcostemma brunonianum Wight & Arn. in Wight, Contrib. Bot. Ind. (1834) 59; --Merr., EPFP 3 (1923) 342.
India, Philippines. LUZON: Benguet, Bataan, Quezon, Batangas, PALAWAN (Quezon, Lipuun). Thickets, 0-1200m.

Sarcolobus R Brown

Sarcolobus globosus Wall., As. Res. 12 (1818) 568, t. 4.

ssp. peregrinus (Blanco) Rintz, Blumea 26 (1980) 76.

Sarcolobus peregrinus (Blanco) Schltr. in Fedde Repert. 13 (1915) 564; --Merr., EPFP 3 (1923) 345; --
Asclepias peregrina Blanco, Fl. Filip. (1837) 207. --Type:

Vietnam, Mentawi to Borneo and the Philippines, Moluccas to New Guinea. Absent from Peninsular Malaysia and Java. LUZON: Bataan, Tayabas, PALAWAN (Puerto Princesa, Barangay San Vicente), LEYTE, MINDANAO. Tidal streams along edge of mangroves.

Sarcolobus luzonensis (Warb.) PI Forster, Austral. Syst. Bot. 6 (1993) 352.

Dorystephania luzonensis Warb. in Perkins, Frag. Fl. Philip. (1904) 123; --Merr., EPFP 3 (1923) 345.

LUZON: Isabela, Rizal, Bataan, Quezon. Low altitude streams subjected to periodic flashfloods, associated with *Homonoia riparia* and similar types of stenophyllous rheophytes, growing in crevices of rock ledges and boulders.

Schlechterianthus Quisumbing = Quisumbingia

Secamone R Brown

Secamone attenuata Decne. in DC, Prodr. 8 (1844) 501; --Merr., EPFP 3 (1923) 342.

LUZON: Ilocos Norte, Mountain Province, Batangas, MINDORO, ROMBLON, MINDANAO: Zamboanga. Thickets at low and medium altitudes, ascending to 1000m.

Secamone multiflora Decne. in DC, Prodr. 8 (1844) 501; --Merr., EPFP 3 (1923) 342.

LUZON: Mountain Province, Benguet, Cagayan, Isabela, Nueva Vizcaya, Nueva Ecija. Thickets at low and medium altitudes.

Secamone rectinervis Schltr., Fedde Repert. 13 (1915) 537; --Merr., EPFP 3 (1923) 343.

LUZON: Benguet, Rizal, Laguna, Sorsogon, MINDANAO: Lanao. Primary forests at low and medium altitudes.

Secamone urdanetensis Elmer ex Tsiang, Sunyatsenia 4 (1939) 59. --Type: Elmer 13585 (BO, holo). Mindanao: Agusan del Norte prov., Mt Urdaneta. Aug 1912.

Streptocaulon Wight & Arnott

Streptocaulon baumii Decne. in DC, Prodr. 8 (1844) 496; --Merr., Fl. Manila (1912) 377; EPFP 3 (1923) 340.

LUZON: Ilocos Sur, La Union, Nueva Vizcaya, Pangasinan, Bataan, Bulacan, Rizal, Quezon, Albay, MINDORO, CULION, PALAWAN (Aborlan: Mt Apis, Talakaigan River). Thickets and secondary forests at low altitudes. Common.

Streptocaulon cumingii (Turcz.) Fernandez-Villar, Novis. App. (1880) 132; --Merr., EPFP 3 (1923) 340.

LUZON: Ilocos Norte, Benguet, Pangasinan, Zambales, Rizal, Laguna, CEBU. Thickets and forests at low and medium altitudes.

Telosma Coville

Telosma filipes (Schltr.) Rahman & Wilcock, Blumea 34 (1990) 519; --Pergularia filipes Schltr. in Perkins, Frag. Fl. Philip. (1904) 135; --Merr., EPFP 3 (1923) 356, under synonymy of *Telosma procumbens*. --Type: Warburg 13767. Luzon: Pampanga prov., Mt Arayat.

Telosma parviflora Merr., PJS 17 (1920) 312; EPFP 3 (1923) 355. --Type: BS 35011 Ramos & Pascasio (US*, iso). Siargao: Dry forests at low altitudes, 27 May 1919.
LUZON: Quezon, SIARGAO. Low altitude forests.

Telosma procumbens (Blanco) Merr., PJS 7 c (1912) Bot. 243; Fl. Manila (1912) 379; EPFP 3 (1923) 356.

Telosma angustiloba (Warb.) Merr., PJS 7 c (1912) Bot. 243; EPFP 3 (1923) 355; --Pergularia angustiloba Warb. In Perkins, Fragm. Fl. Philip. (1904) 134. --Type: Cuming 1334. Luzon: Cagayan prov.

LUZON: Ilocos Norte to Sorsogon, MINDORO, PALAWAN (Talimbong; Brooke's Point: Barangay Amat, Macagua), CUYO, NEGROS, BILIRAN, LEYTE, BASILAN, MINDANAO. Thickets and forests at low altitudes.

Cultivated:

Telosma cordata (Burm.f.) Merr., PJS 19 (1921) 372; EPFP 3 (1923) 355.

Telosma odoratissima (Lour.) Coville, Contr. US Nat. Herb. 9 (1905) 384; --Merr., Fl. Manila (1912) 379.

Toxocarpus Wight & Arnott

Toxocarpus batanensis Hatusima, Mem. Fac. Agr. Kagoshima Univ. 5 (1966) 46. --Type: Hatusima 28634.

?*Ichnocarpus volubilis* (Lour.) sensu Merr., EPFP 3 (1923) 336, excluding cited plants from Batan.

BATAN. A frequent climber in littoral thickets. Hatusima 28782, 28831. According to Hatusima (l.c.) "This may be a species from BATAN Islands identified by ED Merrill...with *Ichnocarpus volubilis* Merr. ...somewhat resembles *T. rubricaulis* Elmer from LUZON, but differs from it by its much broader leaves with fewer lateral nerves and reticulated undersurfaces, and its larger follicles".

Toxocarpus glaucus Decne. in DC, Prodr. 8 (1844) 505; --Merr., EPFP 3 (1923) 343. --Type: Cuming 1571.

Toxocarpus gracilis Decne. in DC, Prodr. 8 (1844) 506; --Merr., EPFP 3 (1923) 343. --Type: Cuming 1559. Mindoro.

LUZON; Ilocos Norte, **Tayabas**, MINDORO, PALAWAN (Mt Pulgar =Thumb Peak). Low altitude forests or thickets.

Toxocarpus loheri Schltr. in Perkins, Frag. Fl. Philip. (1904) 122; --Merr., EPFP 3 (1923) 343. --Type: Loher 4032.

LUZON: Abra, Rizal, Laguna. Low and medium altitude forests.

Toxocarpus merrillii Schltr., PJS 1 (1906) Suppl. 295; --Merr., EPFP 3 (1923) 343. --Type: Merrill 2810.

LUZON: Rizal, Laguna, LEYTE. Low altitude secondary forests.

Toxocarpus rubricaulis Elmer, LPB 8 (1919) 3075; --Merr., EPFP 3 (1923) 343; --PI Forst. & Liddle, Austral. Syst. Bot. 7 (1994) 516. --Type: Elmer 18297 (BO, iso). Luzon: Laguna prov., Mt Makiling, Jun or Jul 1917.

LUZON: Laguna. Low altitude secondary forests.

Tylophora R Brown

Tylophora angustifolia Schltr., in Perkins, Frag. Fl. Philip. (1904) 124; --Merr., EPFP 3 (1923) 345. --Type: BS 7043 Ramos.

LUZON: **Lepanto**, Rizal. Thickets at low and medium altitudes.

Tylophora brevipes (Turcz.) Fernandez-Villar, Novis. App. (1880) 134; --Merr., EPFP 3 (1923) 345. --Type: Cuming 1431.

Tylophora hybostemma Warb. in Perkins, Frag. Fl. Philip. (1904) 125; --Merr., EPFP 3 (1923) 346. --Type: Warburg 13770. Luzon: Zambales prov.

LUZON: Ilocos Norte, Cagayan, Zambales, MINDORO, PALAWAN (Quezon: Ampaplot). Thickets at low altitudes.

Tylophora clemensiae Schltr., Fedde Repert. 13 (1915) 562; --Merr., EPFP 3 (1923) 346. --Type: Clemens 529.

LUZON: Laguna, Sorsogon, CATANDUANES, MINDANAO: Lanao. Thickets at low and medium altitudes.

Tylophora elmeri Schltr., PJS 1 (1906) Suppl. 296; --Merr., EPFP 3 (1923) 346; --PI Forst. & Liddle, Austral. Syst. Bot. 7 (1994) 515. --Type: Elmer 5980 (BO, NY*, US*, iso). Luzon: Benguet prov., Baguio, Mar 1904.

Mountain Province, Benguet. Thickets, c. 1300m.

Tylophora hispida Decne., in DC Prodr. 8 (1844) 610; --Hatusima, Mem. Fac. Agr. Kagoshima Univ. 5 (1966) 46. --Type:

S China, Ryukyus, Taiwan and the Philippines: BATAN: Mt Iraya, E slope. Open thicket, 100m. Locally rare. *Hatusima s.n.*

Tylophora joloensis Schltr., in Perkins, Frag. Fl. Philip. (1904) 126; --Merr., EPFP 3 (1923) 346. --Type: Warburg 14956 (B).

JOLO. Probably in thickets at low altitudes.

Tylophora lancilimba Merr., PJS 27 (1925) 53; EPFP 4 (1925) 254. --Type: Loher 14834. Luzon: Rizal prov., without definite locality, Aug 1914.

LUZON: Rizal. No recorded habitat data.

Tylophora luzonica Schltr., PJS 1 (1906) Suppl. 296; --Merr., EPFP 3 (1923) 346. --Type: Elmer 5585 (NY*, iso). Luzon: La Union prov., Bauang, Feb 1904.

LUZON: La Union, Benguet, Cagayan. Thickets, ascending to 1200m.

Tylophora perrottetiana Decne. in DC, Prodr. 8 (1844) 609; --Merr., EPFP 3 (1923) 346. --Type:

Tylophora merrillii Schltr., PJS 1 (1906) Suppl. 297; --Merr., Fl. Manila (1912) 379. --Type: Merrill 3648 (NY*, US*, iso). Luzon: Rizal prov., Caloocan, roadside thickets near sea-level, Nov 1903.

Tylophora rizalensis Schltr., Fedde Repert. 13 (1915) 563. --Type: BS 12532 Ramos (US*, iso). Luzon: Rizal prov., Nov-Dec 1914.

Tylophora exilis Schltr., in Perkins, Frag. Fl. Philip. (1904) 125; --Merr., EPFP 3 (1923) 346. --Type:

Rizal prov., Nov-Dec 1914.

Warburg 13551, 13552.

LUZON: Ilocos Norte, La Union, Mountain Province, Benguet, Cagayan, Pangasinan, Nueva Vizcaya, Nueva Ecija, Bataan, Rizal, Laguna, PALAWAN (Quezon: Sinadan). Thickets at low altitudes.

Tylophora ramosii Schltr., Fedde Repert. 13 (1915) 563; --Merr., EPFP 3 (1923) 347. --Type: BS 7700 Ramos (US*, iso). Luzon: Ilocos Norte prov., Mar 1909.

LUZON: Ilocos Norte, Mountain Province. Forests, up to 1100m.

Tylophora setosa Schltr., Fedde Repert. 13 (1915) 563; --Merr., EPFP 3 (1923) 347; --PI Forst. & Liddle, Austral. Syst. Bot. 7 (1994) 517. --Type: Elmer 11962 (BO, L*, NY*). Mindanao: Davao, Mt Apo, Todaya, scandent upon small trees of humid forests at 4500ft on the Talon side of the mountain range, Oct 19

MINDANAO: Davao (Mt Apo). Forests or thickets, c. 1370m.

Tylophora villosa Blume, Bijdr. Fl. Ned. Ind. (1827) 1061.

var. glauciramea (Schltr.) Schneidt, xxx

Tylophora glauciramea Schltr., Fedde Repert. 13 (1915) 562; --Merr., EPFP 3 (1923) 346. --Type: Merrill 4165

Tylophora tonsa Schltr., Fedde Repert. 13 (1915) 564; --Merr., EPFP 3 (1923) 347. --Type: Merrill 7187 (L*, MO*, US*, iso). Lambucan (in Sulu Sea). Thickets behind sandy beach, Sept 1910.

LUZON: **Tayabas**, BANTON, SEMIRARA, ROMBLON, CATANDUANES, PANAY, PALAWAN (Talimbong; Puerto Princesa: St Paul Bay, Sabang beach), LAMBUCAN (in Sulu Sea). Thickets along the seashore.

Tylophora whitfordii Schltr., PJS 1 (1906) Suppl. 297; --Merr., EPFP 3 (1923) 347. --Type: Whitford 898. Luzon: Quezon prov., Gumaca, Sept 1904.

LUZON: Quezon (Gumaca). Nipa tidal stream. Distinct from *T. perrottetiana* Decne.?

Cultivated:

Cryptostegia R Brown

Cryptostegia grandiflora (Roxb.) R Br., Bot. Reg. (1819) t. 435; --Merr., Fl. Manila (1912) 376; EPFP 3 (1923) 340. --Type:

Native of India, now pantropic in cultivation. Planted for ornamental purposes.