

Clerodendrum bungei Steud. [Okinawa]  
Clerodendrum inerme (L.) Gaertn. [Okinawa]  
Clerodendrum trichotomum Thunb. [Iriomote]  
Lantana camara var. aculeata (L.) Moldenke [Okinawa]  
Phyla nodiflora (L.) Greene [Okinawa]  
Premna corymbosa var. obtusifolia (R. Br.) Fletcher [Ishigaki  
 & Okinawa]  
Verbena officinalis L. [Okinawa]  
Verbena rigida Spreng. [Okinawa]  
Vitex trifolia var. bicolor (Willd.) Moldenke [Iriomote]  
Vitex trifolia var. heterophylla (Mak.) Moldenke [Iriomote]  
Vitex trifolia var. simplicifolia Cham. [Okinawa]

## SARAWAK:

Sphenodesme clemensorum Moldenke\*

## BORNEO:

Sphenodesme winkleri H. Hallier is to be deleted

## CULTIVATED:

Aloysia sellowii (Briq.) Moldenke [Brazil]  
Clerodendrum calamitosum L. [Sarawak]  
Clerodendrum japonicum (Thunb.) Sweet [Okinawa]  
Clerodendrum thomsonae Balf. f. [Sarawak]  
Duranta repens L. [Okinawa]  
Nyctanthes arbor-tristis L. [Sarawak]  
Petrea volubilis L. [Sarawak]

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ADDITIONAL NOTES ON THE GENUS AMASONIA. IV

Harold N. Moldenke

AMASONIA L. f.

Literature: Aubl., Hist. Pl. Guian. Franç. 2: 625, pl. 252.  
 1775; L. f., Suppl. Pl. 48 & 294. 1781; Murr., Syst. 581. 1784;  
 A. L. Juss., Gen. Pl. 119--123 & 418. 1789; Neck., Elem. Bot. 1:  
 362--389. 1790; Schreb., Gen. 2: 427. 1791; Gmel., Syst. 965.  
 1791; Vahl, Eclog. Amer. 2: 51, pl. 20. 1791; Lam., Illustr. 3:  
 pl. 543. 1797; Pers., Syst. Pl. 618. 1797; Willd., Sp. Pl. 3:  
 394. 1800; Batsch, Tab. 193. 1802; Mirbel, Hist. Nat. Pl., ed.  
 3, 15: 231. 1805; Lam., Encycl. Méth. Bot., ed. Poir., 7: 556.  
 1806; Pers., Ench. 2: 141. 1807; Spreng., Anal. 2 (1): 423. 1817;  
 H.B.K., Nov. Gen. & Sp. Pl. 2: 253. 1818; Kunth, Syn. 2: 45.  
 1823; Spreng., Syst. Veg. 2: 765. 1825; Reichenb., Consp. 117.  
 1828; Dumort., Anal. Fam. Pl. 22. 1829; Bartl., Ord. Nat. Pl.  
 180. 1830; Spreng., Gen. 2: 481. 1831; Lindl., Nat. Syst. Bot.,  
 ed. 2, 278. 1836; Endl., Gen. Pl. 637--638. 1838; P. DC., Prodr.  
 7: 306. 1838; Benth., Ann. Nat. Hist. 2: 450--451. 1839; Steud.,  
 Nom. Bot., ed. 2, 1: 74. 1840; Spach, Veg. Phan. 9: 227. 1840;

Meisn., Pl. Vasc. Gen. 290--292. 1840; Endl., Ench. 312. 1841; Reichenb., Nom. 108. 1841; Walp., Repert. 4: 124. 1845; Blanco, Fl. Filip., ed. 2, 337. 1845; Schau. in A. DC., Prodr. 11: 524--525 & 677--678. 1847; Lindl., Veg. Kingd. 664. 1847; Schau. in Mart., Fl. Bras. 9: 291--293, pl. 48. 1851; Wittstein, Etymol.-bot. Handwört. 34--35. 1852; Baill., Adansonia 2: pl. 5, figs. 11--18. 1861--1862; Bocq., Rev. Verbenac. pl. 5. 1861--1862; Griseb., Fl. Brit. W. Ind. 501. 1864; Pfeiff., Nom. Bot. 135. 1873; Benth. in Benth. & Hook. f., Gen. Pl. 2: 1132--1136 & 1147. 1876; Meehan, Gard. Month. & Hort. 27: 300--301. 1885; Ill. Gartenzeit. Stuttgart 29: pl. 26. 1885; Handelsblad voor den Tuinboun Semperv. 14: 204. 1885; Journ. Hort., ser. 3, 10: 436. 1885; Garden 27: 130. 1885; Catalogue of Dammann and Comp., St. Giovanni a Teduccio, near Naples, Italy, in 1886 or before, illustr.; Gartenfl. 35: 336--338, fig. 35. 1886; Hook. f. in Curtis, Bot. Mag. 113: pl. 6915. 1887; Veitch's Cat. Pl. 27. 1889; Wien. Illustr. Gartenzeit. 15: 68--69, fig. 9. 1890; Kuntze, Rev. Gen. Pl. 2: 509. 1891; Jacks., Ind. Kew. 1: 103. 1893; Seghers, Rev. Hort. Belg. 20: 13--15. 1894; Möllers Deutsche Gärt.-Zeit. 9: 141--142. 1894; Hook. f. in Curtis, Bot. Mag. 121: pl. 7445. 1895; Briq. in Engl. & Prantl, Nat. Pflanzenfam. 4 (3a): 144 & 156--157. 1895; Bullett. Soc. Toscana di Orticolt. 22: 232, pl. 10. 1897; Pulle, Enum. Vasc. Pl. Surinam 402. 1906; Veitch, Hort. Veitch. 226. 1906; Glaz., Bull. Soc. Bot. Franç. Mém. 3: 546. 1911; Swingle, Journ. Wash. Acad. Sci. 2: 211--212 & 220--222. 1912; Stapf, Ind. Lond. 1: 164. 1929; Stapf, Ind. Lond. 6: 255. 1929; Mappo do Estado do Amazonas, Brasil, 1926--1929. 1929; Gleason, Bull. Torrey Bot. Club 58: 463. 1931; Moldenke, Torreya 34: 8. 1934; Moldenke in Fedde, Repert. 37: 213--214. 1934; Junell, Symb. Bot. Upsal. 4: 107, 202, & 213--214. 1934; Briq., Internat. Rules Bot. Nomen., ed. 3, 106. 1935; Martyn, Ind. Phan. Jenman Herb. 461--462, mss. 1937; Moldenke, Lilloa 4: 304--305. 1939; Moldenke in Fedde, Repert. 46: 193--228. 1939; Moldenke, Prelim. Alph. List Invalid Names 4--5 & 42. 1940; Moldenke, Alph. List Invalid Names 4, 23, & 43. 1942; Moldenke, Phytologia 2: 91 (1944), 2: 198--199 (1946), and 2: 502. 1948; Moldenke, Known Geogr. Distrib. 30, 32, 33, 36, 40, 71, & 86 (1942) and 57, 59, 62, 65, 67, 68, 71, 75, 98, 156, & 176. 1949; Stellfeld, Trib. Farmac. 19 (10): 171. 1951.

Synonymy: Taligalea Aubl., Pl. Guian. 2: 625, pl. 252, nom. rejic. 1775. Amasonia L. f., Suppl. Pl. 48, nom. conserv. 1781. Diphystema Neck., Elem. 1: 382. 1790. Diplostemma Neck. apud P. DC., Prodr. 7: 306, sphalm. 1838. Amazonia L. f. ex Glaz., Bull. Soc. Bot. Franç. 58, Mém. 3: 546, sphalm. 1911. Hassleria Briq. ex Moldenke in Fedde, Repert. 46: 194, in syn. 1939.

AMASONIA ANGUSTIFOLIA Mart. & Schau.

Literature: Schau. in A. DC., Prodr. 11: 678. 1847; Schau. in Mart., Fl. Bras. 9: 294. 1851; Moldenke in Fedde, Repert. 46: 206--208. 1939; Moldenke, Prelim. Alph. List Invalid Names 4, 5, & 42. 1940; Moldenke, Alph. List Invalid Names 4 & 43. 1942;

Moldenke, *Phytologia* 2 (199) and 2: 502. 1948; Moldenke, *Geogr. Distrib.* 75 & 176. 1949. Taligalea angustifolia (Mart. & Schau.) Kuntze, *Rev. Gen. Pl.* 2: 509. 1891. Amasonia sulphurea Spruce ex Moldenke in Fedde, *Repert.* 46: 206, in syn. 1939. Amasonia angustifolia Mart. ex Moldenke in Fedde, *Repert.* 46: 206, in syn. 1939; Moldenke, *Prelim. Alph. List Invalid Names* 4, in syn. 1940. Taligalea angustifolia (Mart. & Schau.) Gardn. ex Moldenke in Fedde, *Repert.* 46: 206, in syn. 1939; Moldenke, *Prelim. Alph. List Invalid Names* 42, in syn. 1940.

Ducke states that the plant grows among herbaceous vegetation along the banks of the Rio Negro, has scarlet bracts and pale-yellow corollas, blooming in February.

Additional citations: BRAZIL: Amazonas: Ducke 1903 (Be--12513, N).

#### AMASONIA ARBOREA H.B.K.

Literature: H.B.K., *Nov. Gen. & Sp. Pl.* 2: 253. 1818; Schau. in Mart., *Fl. Bras.* 9: 292. 1851; Gleason, *Bull. Torrey Bot. Club* 58: 463. 1931; Moldenke in Fedde, *Repert.* 46: 220--222. 1939; Moldenke, *Phytologia* 2: 199. 1946; Moldenke, *Known Geogr. Distrib.* 62, 65, 67, 68, 75, & 176. 1949; F. C. Hoehne, *Ind. Bibl. e Num. Pl. Col. Com. Rondon* 346. 1951. Amasonia arborea (Aubl.) Moldenke, in herb.

The species is described by collectors as a shrub 0.6 to 2 m. tall, with red bracts and yellow flowers, blooming in April, May, and October, growing on low land and in secondary forests.

Additional citations: VENEZUELA: Amazonas: Cardona 166 [*Herb. Nac. Venez.* 12627] (Ve), 2199 (W--1932182); Ll. Williams 13981 [*Herb. Nac. Venez.* 12620] (Ve), 14184 (F--1187915), 15175 [*Herb. Nac. Venez.* 12619] (Ve), 16076 [*Herb. Nac. Venez.* 12622] (Ve), 16112 [*Herb. Nac. Venez.* 12624] (Ve). BRAZIL: Amazonas: Fröes 22084 (Be--28661). Maramhã: Fröes 24276 (Be--43212).

#### AMASONIA CAMPESTRIS (Aubl.) Moldenke

Literature: Moldenke, *Torreyia* 34: 8. 1934; Moldenke, *Lilloa* 4: 305--306. 1939; Moldenke in Fedde, *Repert.* 46: 210--216. 1939; Moldenke, *Alph. List Invalid Names Suppl.* 1: 2. 1947; Moldenke, *Phytologia* 2: 200 (1946) and 2: 502. 1948; Moldenke, *Known Geogr. Distrib.* 57, 62, 65, 67, 68, 75, 156, & 176. 1949; F. C. Hoehne, *Ind. Bibl. e Num. Pl. Col. Com. Rondon* 346. 1951. Taligalea campestris Aubl., *Hist. Pl. Guian.* 2: 625, pl. 252. 1775. Amasonia erecta L. f., *Suppl. Pl.* 294. 1781; Junell, *Symb. Bot. Upsal.* 4: 107, pl. 7, fig. 2. 1934. Amasonia punicea Vahl, *Eclog. Amer.* 2: 51. 1798; Schau. in Mart., *Fl. Bras.* 9: 291. 1851; Gleason, *Bull. Torrey Bot. Club* 58: 463. 1931. Taligalea punicea (Vahl) Poir. in Lam., *Encycl. Méth.* 7: 556. 1806. Amasonia taligalea Auct. ex Steud., *Nom. Bot.*, ed. 2, 1: 74. 1840. Amasonia velutina Schau. in A. DC., *Prodr.* 11: 677. 1847; Schau. in Mart., *Fl. Bras.* 9: 292--293. 1851. Taligalea velutina (Schau.) Kuntze, *Rev. Gen. Pl.* 2: 509. 1891. Amasonia erecta

var. latebracteata Hook. f. in Curtis, Bot. Mag. 121: pl. 7445.  
 1895. Taligalea campestris var. punicea (Vahl) Briq. in Engl. & Prantl, Nat. Pflanzenfam. 4 (3a): 157. 1895. Amasonia erecta var. punicea (Vahl) Briq. ex Pulle, Enum. Pl. Surinam. 402.  
 1906. Amasonia coccinea Liebm. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939. Amasonia erecta var. sylvatica Sagot ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939. Amasonia erecta var. sylvestris Sagot ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939. Taligalea canescens Poit. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939. Taligalea guianensis Aubl. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939. Taligalea campestris Aubl. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939; Moldenke, Prelim. Alph. List Invalid Names 42, in syn. 1940. Amasonia erecta L. f. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939; Moldenke, Prelim. Alph. List Invalid Names 5, in syn. 1940. Amasonia erecta L. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939; Moldenke, Alph. List Invalid Names Suppl. 1: 2, in syn. 1947. Amasonia erecta Miq. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939; Moldenke, Alph. List Invalid Names Suppl. 1: 2, in syn. 1947. Amasonia erecta Willd. ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939; Moldenke, Alph. List Invalid Names Suppl. 1: 2, in syn. 1947. Amasonia panicea Vahl ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939. Amasonia erecta var. punicea (Vahl) Pulle ex Moldenke in Fedde, Repert. 46: 210, in syn. 1939; Moldenke, Prelim. Alph. List Invalid Names 4, in syn. 1940.

Collectors describe this as a perennial plant growing in woods and fields and at the edge of airports and along roadsides. Some call it an herb 1 m. tall. The floral bracts are described as red, crimson, or vermillion, and the corollas as cream, greenish-cream, yellow, or pale-yellow. It has been collected in anthesis from February to April, June, August, and September. The fruits are said to be purple-black, the seeds poisonous. Vernacular names include "mendoca", "mendóca", and "rabo de arara". The plant is said to be medicinal, used as a rinse and for stomach inflammations.

Additional citations: VENEZUELA: Anzoategui: Garroni 75 [Herb. Nac. Venez. 12617] (Ve); Alicia Hernandez 38 [Herb. Nac. Venez. 12623] (Ve); H. Pittier 15089 [Herb. Nac. Venez. 12621] (Ve). Bolívar: Ll. Williams 13420 [Herb. Nac. Venez. 12618] (Ve). Guárico: Lasser 123 [Herb. Nac. Venez. 12626] (Ve). Monagas: H. Pittier 14379 [Herb. Nac. Venez. 12625] (Ve). TRINIDAD: Fendler 555 (Pa). BRITISH GUIANA: Herb. Forest Dept. Br. Guian. WB.256 (N). SURINAM: Kuyper 95 (N). BRAZIL: Amapá: Black & Lobato 50-9434 (N); Fróes 25939 (N). Ceará: Dias da Rocha 57 [Herb. Inst. Bot. S. Paulo 4079] (Sp). Pará: Archer 7606 (Be--11605, N), 8284 (Be--12103); Black 48-3232 (Be--37723); A. Silva 187 (Be--12982), 260 (Be--12870).

## AMASONIA HIRTA Benth.

Literature: Benth., Ann. Nat. Hist. 2: 451. 1839; Schau. in Mart., Fl. Bras. 9: 293. 1851; Moldenke, Lilloa 2: 451. 1939; Moldenke, Prelim. Alph. List Invalid Names 42. 1940; Moldenke, Alph. List Invalid Names 43. 1942; Moldenke, Phytologia 2: 502. 1948; Moldenke, Known Geogr. Distrib. 75, 98, & 176. 1949; F. C. Hoehne, Ind. Bibl. e Num. Pl. Col. Com. Rondon 347. 1951. Taligalea hirta (Benth.) Kuntze, Rev. Gen. Pl. 2: 509. 1891.

Collectors describe the floral bracts as reddish, and the plants as blooming in January and April.

Additional citations: BRAZIL: Minas Geraes: Macedo 195 [Herb. Inst. Bot. S. Paulo 51546] (Sp), 1611 (N). Pará: Archer 8337 (Be--12290).

## AMASONIA LASIOCAULOS Mart. &amp; Schau.

Literature: Schau. in A. DC., Prodr. 11: 678. 1847; Schau. in Mart., Fl. Bras. 9: 293 & 307, pl. 48. 1851; Hayek, Denkschr. Kaiser. Akad. Wissensch. Math.-nat. 79 (1): 296. 1908; Moldenke in Fedde, Repert. 46: 208--210. 1939; Moldenke, Prelim. Alph. List Invalid Names 5 & 42. 1940; Moldenke, Alph. List Invalid Names 4 & 43. 1942; Moldenke, Phytologia 2: 91. 1944; Moldenke, Known Geogr. Distrib. 59, 75, & 176. 1949; F. C. Hoehne, Ind. Bibl. e Num. Pl. Col. Com. Rondon 347. 1951. Amasonia lasiocaulon Mart. & Schau. apud Jacks., Ind. Kew. 1: 103, sphalm. 1893. Amazonia lasiocaulos Mart. & Schau. apud Glaz., Bull. Soc. Bot. Franç. 58, Mém. 3: 545, sphalm. 1911. Taligalea lasiocaulos (Mart. & Schau.) Hayek ex Moldenke in Fedde, Repert. 46: 208, in syn. 1939.

The plant has been collected in "capoeira alta" and in deep ravines, blooming in January and April. Murça Pires & Black call it an herb with vermillion floral bracts and cream-yellow corollas, but Allard describes it as 6 to 8 feet tall, with purplish-red flowers (by "flowers" he probably means bracts).

Additional citations: COLOMBIA: Méta: Galen Smith & Idrobo 1452 (W--2047718). PERU: San Martín: Allard 20522 (W--1999766). BRAZIL: Mattogrosso: J. G. Kuhlmann 1337 [Herb. Inst. Bot. S. Paulo 31984] (Sp). Pará: Murça Pires & Black 1499 (Be--28066, N).

## AMASONIA OBOVATA Gleason

Literature: Gleason, Bull. Torrey Club 58: 463. 1931; Moldenke in Fedde, Repert. 46: 216--217. 1939; Moldenke, Known Geogr. Distrib. 62 & 176. 1949.

## AMASONIA SPRUCEANA Moldenke

Literature: Moldenke in Fedde, Repert. 37: 213--214 (1934) and 46: 222--224. 1939; Moldenke, Phytologia 2: 502. 1948; Moldenke, Known Geogr. Distrib. 59, 62, 75, 156, & 176. 1949.



Moldenke, Harold N. 1953. "Additional notes on the genus *Amasonia*. IV." *Phytologia* 4(5), 452–456.

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