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## Guttiferae of Pernambuco (Brazil)

GERALDO MARIZ

### RÉSUMÉ

L'auteur mentionne six genres et douze espèces de *Guttiferae* de Pernambuco (Brésil). Il décrit deux nouvelles espèces: *Clusia dardanoi* G. Mariz & Maguire et *Clusia intermedia* G. Mariz, ainsi que la nouvelle variété *Vismia reichardtiana* (Kuntze) Ewan var. *polymera* G. Mariz.

### SUMMARY

Six genera and twelve species of *Guttiferae* are referred to Pernambuco (Brazil). Two new species of *Clusia*: *C. dardanoi* G. Mariz & Maguire and *C. intermedia* G. Mariz, and the new variety *Vismia reichardtiana* (Kuntze) Ewan var. *polymera* G. Mariz are described.

### ZUSAMMENFASSUNG

Der Verfasser führt sechs Gattungen und zwölf Arten der *Guttiferae* von Pernambuco (Brasilien) auf. Er beschreibt zwei neue Arten: *Clusia dardanoi* G. Mariz & Maguire, *Clusia intermedia* G. Mariz, sowie die neue Varietät *Vismia reichardtiana* (Kuntze) Ewan var. *polymera* G. Mariz.

The state of Pernambuco (Brazil) is located near the equatorial zone of the earth, from 7°15'45" lat. S to 9°28'18" lat. S. In its greatest extension it is situated between 34°48'33" long. W (Greenwich) to 41°19'54" long. W (Greenwich).

The Brazilian *Guttiferae* were monographed by Engler (1888) in the *Flora Brasiliensis* of Martius.

This report, following twelve years after Andrade-Lima (1960) phytogeographic study, adds 6 new records, two new species and one new variety to the Pernambuco flora.

The specimen studied here, are deposited in the Instituto de Pesquisas Agronômicas de Pernambuco Herbarium (IPA) and in the Herbarium of the Universidade Federal de Pernambuco (UFP).

I am grateful to Dr. Dardano de Andrade-Lima of the Instituto de Pesquisas Agronômicas de Pernambuco for critical comments and Dr. Basset Maguire for helps and co-authorship in one specie.

**Vismia guianensis** (Aublet) Choisy

Recife: shrub to 3 m; calix rusty, corolla palest yellow, 30.1.1965, *G. Mariz*, 220.

*Additional collection.* Tapera: common, 15.1.1934, *B. Pickel*, 333.

**Vismia pentagyna** (Sprengel) Ewan

Recife: small tree, common, by the road, 24.2.1965, *G. Mariz*, 238; Goiana: shrubby tree 4 m high, 8.12.1965, *G. Mariz & Andrade-Lima*, 294.

*Additional collections.* Vitória: 1.4.1934, *B. Pickel*, 3594; Brejão: 13.1.1966, *Andrade-Lima s/n.*

**Vismia reichardtiana** (Kuntze) Ewan

Recife: shrub to 4 m, petals yellow with dark lines (vittate), common, by the road BR 101, km 17, 23.12.1964, *G. Mariz*, 189; Cabo: tree, 5 m high, by the road, 29.1.1965, *G. Mariz*, 216; flowers greenish-yellow, young fruits greens, Fazenda Sta. Leopoldina, 11.1.1966, *G. Mariz*, 312.

This is the most common specie in the region.

**Vismia reichardtiana** (Kuntze) Ewan var. *polymera*, *G. Mariz*, var. *nova*

A typo facile numero componentium verticillorum, 5-9 differt.

*Holotypus:* Goiana: restrict; shrub, by the road, BR 101, km 60, near the city of Goiana. Numbers of sepals, petals, stamens and carpells varying from 5-9, 20.12.1966, *G. Mariz*, 348 (UFP).

This genus is typically pentamerous.

**Caraipa densifolia** Mart.

Cabo: tree 20 m high, flowers white, dry fruit brown to rusty, humid forest, Fazenda Sta. Leopoldina, 29.12.1964, *G. Mariz*, 191; Brejinho: tree 8 m high, humid forest, 26.11.1967, *G. Mariz*, 374.

*Additional collection.* Gurjau, forest near Gurjau River, 5.12.1961, *Ducke & Andrade-Lima*, 69 (identified by Ducke).

**Clusia dardanoi** G. Mariz & Maguire, *spec. nova* (pl. I a-d)

Arbuscula epiphytica, 2-3 m alta. *Foliis* crassis, coriaceis, spathulatis, cuneatis, apice rotundato a triente superiore basin versus sensim angustatis. *Petiolus* brevis latusque, 0.5 cm. *Laminae* 14-18 cm longae, 8.5-13 cm latae, nervo mediano utrinque equaliter prominente, lateralibus parallelis utrinque prominulis. *Inflorescentiae* terminales: saepe 1-2 flores cum 1-2 alabastris. *Florum masculorum*, pedicellis 2 cm longis cum 2 bracteis apicalibus, 13-15 mm longis. *Pedicellus* brevis 6 mm longus, bracteolae 4, exteriores interioribus majores, circa 1 cm longae. *Bractee* vel sepala, 13-22, imbricata, 12-17 mm longa x 11-14 mm lata. *Petala* 5 vinacea, 19-20 mm lata et longa, trapeziformia, a vertice emarginata. *Stamina* infinita, brevissima, in receptaculo crasso convexo elevato, valde congesta disposita. *Synandrium* lutescens. *Anthera* dithecica poris apicalibus dehiscens. *Florum feminarum* pedunculi, pedicelli, bractee, sepala et petala ut in masculi. *Ovario* rotundo glabro, 6 mm alto, 5 carpelari, 5-loculari, ovulis paucis. *Stigmatibus* triangularibus instructus magnis, 3-4 mm longis 3 mm latis; stylus liber, crassus et brevis. *Staminodia* plurima in anulo 2-3 mm alto coalita. *Capsulae* obovatae 18-23 mm altae, 5 stigmatibus triangularibus prope apicem coniventibus, subterminalibus, radialibus. *Semina* 2-3 mm. *Staminodia* ima base coalita. *Bractee* vel sepala plurima persistentia, opposita vel alternantia a base ad medium imbricata. Ad sectionem *Phloiantheram* Planchon & Triana pertinet. Insignis species, fructorum forma et bracteis vel sepalis numerosis, statim cognoscitur.

Prof. Dárdano Andrade-Lima preclaro Botanico Pernambucensi dicatur.

*Holotypus*: Tapera — Mata do Toró — “Epífita sôbre árvore. Pétalas vermelhas. Frutos.” 20.11.1965, G. Mariz & L. Xavier Filho, n° 287; IPA n° 13479; (Isotypus, UFP n° 3058; NY).

*Paratypus*: Tapera — Mata do Toró — “Epífita sôbre Spondias sp. Pétalas vermelhas.” 20.11.1965, G. Mariz & L. Xavier Filho, n° 286; (IPA n° 13478; UFP n° 1275; NY).

**Clusia intermedia** G. Mariz, *spec. nova* (pl. II a-b)

Specie nova a *C. ducui* Benthann forma foliorum, a *C. melchiorii* Gleason foliis minoribus, ab ambabus forma staminibus differt. Arbor parva, 2-3 m alta, cauli ramulisque crassis decussatis. *Foliis* brevissime petiolatis, crassis, obovatis, rotundatis, a medio superiore basin versus cuneatim angustatis vel elliptica. *Lamina* 7.5-11 cm longa, 5-9 cm lata. *Petiolus* brevis, 4-6 mm longus, 5-9 mm latus. Nervo medio valido. *Inflorescentiae pistilatae*, pyramidato — paniculatae terminales multiflorae (18-25), 5-6 cm longis, pedunculo crasso, bracteis ovato-triangularibus 2-3 mm longis. Bracteolis, 4, decussatis, 1-2 mm longis. *Bractee* calycinae, 4, viridi, triangulari-ovatae, 2-3 mm longa et lata. *Flores* valde parvi. *Sepala*, 4, per pares decussata 4-5 mm longa, 2-3 mm lata. *Petala*, 4, alba, per pares decussata 4-5 mm longa, 2-3 mm lata. *Staminodia*, 4, minutissime triangularia. *Ovarium* 4 carpelare, 4 loculare, 3 mm longis, oblongo-ovoideo, stigmatibus, 4, late triangularibus. *Ovula* in loculis 3 vel 2. *Inflorescentiae staminata* pistilatae similis sed numero florum multo majore (40-60). *Flores* valde parvi. *Bractee* calycinae 4, per pares, decussata. *Sepala* 4, decussata, 4-5 mm longa. *Petala* 4, alba, per pares decussata, 4-5 mm

longa. *Stamina* 20-25, libera, ima base coalita, exterioribus quam interioribus minoribus, 2-4 mm alta, filamentis 1-1.5 mm longis, antheris elongatis 1-2.5 mm longis, erectis, thecis rima longitudinaliter dehiscentibus. *Fructus*: capsula elliptico-oblonga vel globosa, 13-16 mm longa, 11-12 mm lata, apice 4, stigmata triangularia producta, 4 loculata, loculis 3 vel 2, rarius monospermis. Seminibus oblongis, arilo membranaceo aurantiaco involutis, 6-7 mm longis, 3-4 mm latis.

*Holotypus*: Brejo da Madre de Deus, small branched tree, petals greenish-white, on the rocks. Sítio do Biturí, 12.12.1966, *G. Mariz*, 352 (IPA n<sup>o</sup> 14023) (Isotypus, UFP; NY).

#### **Clusia nemorosa** G. F. W. Meyer, sect. **Euclusia**

Recife: tree 6 m high, stilt-rooted with thick palest yellow latex, Dois Irmãos forest, 23.12.1964, *G. Mariz*, 187; tree 12 m high, petals with deep red base, stamens red, Dois Irmãos forest, 14.1.1965, *G. Mariz*, 205; Cabo: 4 m high open branched tree, bracts and flowers white with deep red centers, fruits yellow with red dots. Fazenda Sta. Leopoldina, secondary forest, 29.12.1964, *G. Mariz*, 190; Rio Formoso: tree 12 m high, petals white with red base, forest, 21.1.1965, *G. Mariz*, 213.

#### **Clusia palmicida** Rich. ex Planchon & Triana, sect. **Euclusia**

Cabo: epiphytic small tree, 2 m high, 10-12 cm diam., on crown of an *Aspidosperma* tree, in secondary forest; leaves spatulate, sepals and petals palest rose outside, and red wine inside; fruit geoid, yellow, 10-celled. Fazenda Sta. Leopoldina, 8.1.1965, *G. Mariz*, 198; fruits and buds, 6.11.1965, *G. Mariz*, 265; Goiana: fruits 9-11 celled, yellow, geoid, Uzina Sta. Tereza, 30.12.1965, *G. Mariz*, 299.

#### **Tovomita brasiliensis** (Mart.) Walp sect. **1 Eutovomita**

Ponta de Pedra: tree, 3 m high, secondary forest, Corrego do Bispos, 9.2.1968, *Ferreira*, 42.

#### **Tovomita brevistaminea** Engler sect. **1 Eutovomita**

Paulista: tree, 4 m high buds greenish, flowers pale green to white — “capoeira”, Cova da Onça, 7.1.1965, *G. Mariz*, 196; Rio Formoso, tree 6 m high, pistillate flower with 4 sepals, humid forest. Engenho Paraíso, 21.1.1965, *G. Mariz*, 208.

*Tovomita triflora* Huber was reduced by Ducke (1939) under this specie. The only principal difference between this two species is the number of sepals: *T. triflora* has 4 and *T. brevistaminea* has two one.

**Rheedia gardneriana** Planchon & Triana sect. **Eurheedia**

Triunfo: tree, 4 m high, flower white upper branches cauliflorous; by the road, 12.2.1969, *G. Mariz*, 429; Recife: tree, 4-6 m high, male flower white, humid forest, Dois Irmãos, 23.10.1971, *G. Mariz*, 650; tree 6 m high, humid forest, Corgo de Visgueiro, Dois Irmãos, 19.10.1972, *G. Mariz*, 734.

*Additional collection.* Recife: shrubby tree, with yellow latex, flower white, humid forest, Dois Irmãos, 2.10.1949, *Andrade-Lima*, 49/349.

**Symphonia globulifera** L. fil.

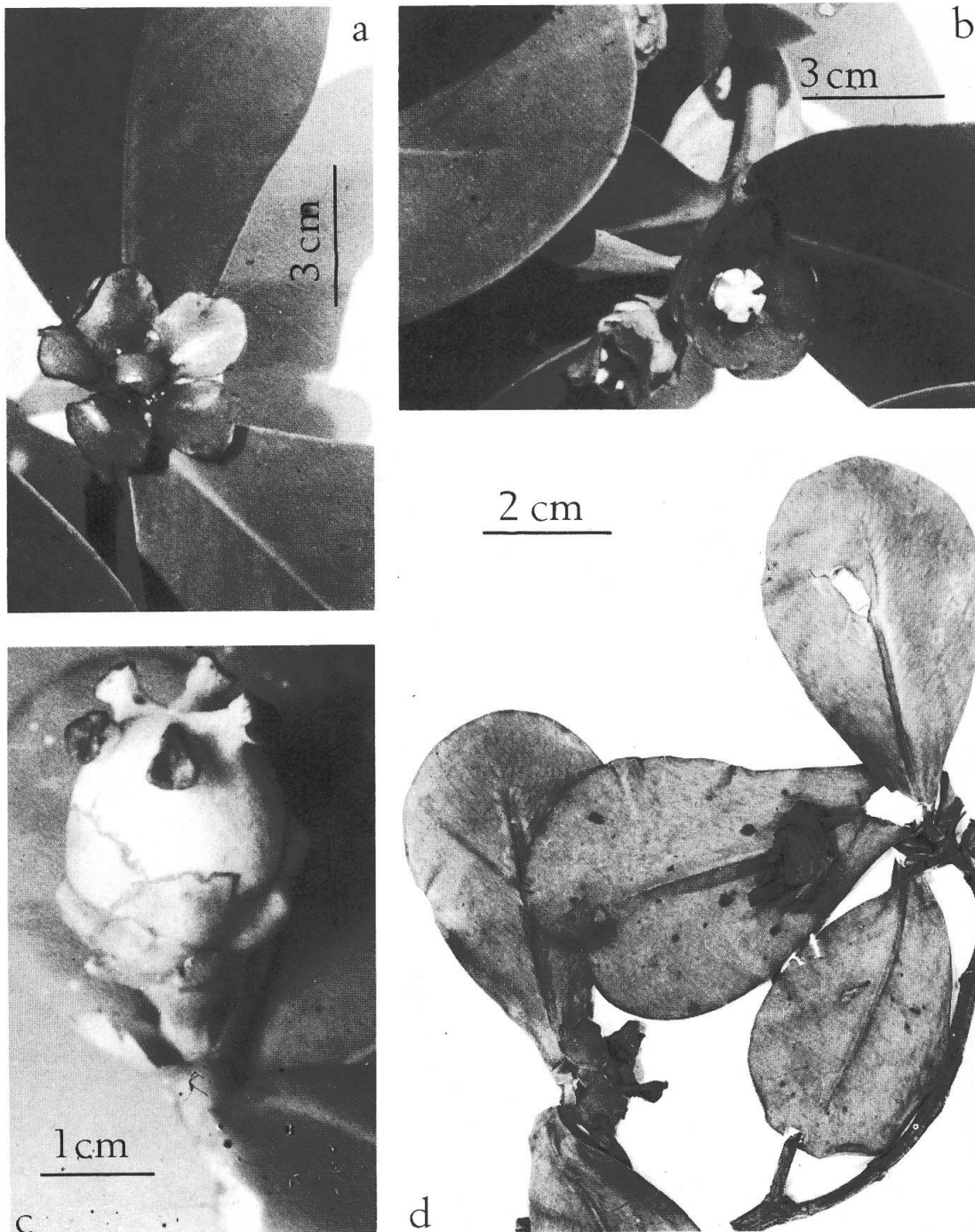
Recife: tree 20 m high, stilt-rooted, latex yellow, petal red, border of swamps, frequent, Dois Irmãos, 20.9.1965, *G. Mariz*, 256; small tree to 4 m high, flower red, young fruit green, mature fruit yellow, globose, in a little isle, Dois Irmãos, 21.12.1964, *G. Mariz*, 185.

*Additional collection.* Também: 9.1937, *Vasconcelos Sobrinho* s/n; Cabo: common and frequent, Lagoa Comprida, 5.5.1961, *A. Sarmiento*.

This specie has two stipules in younger branches, sooner deciduous.

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a, *Clusia dardanoi* G. Mariz & Maguire, *G. Mariz & L. Xavier F<sup>o</sup>*, n<sup>o</sup> 286, male flower; b, *C. dardanoi* G. Mariz & Maguire, *G. Mariz & L. Xavier F<sup>o</sup>*, n<sup>o</sup> 287, female flower; c, *C. dardanoi* G. Mariz & Maguire, *G. Mariz & L. Xavier F<sup>o</sup>*, n<sup>o</sup> 282, fruit; d, *C. dardanoi* G. Mariz & Maguire, *G. Mariz & L. Xavier F<sup>o</sup>*, n<sup>o</sup> 286, male plant.



a, *Clusia intermedia* G. Mariz, G. Mariz, n<sup>o</sup> 388, estaminate plant.

b, *C. intermedia* G. Mariz, Andrade Lima & G. Mariz, n<sup>o</sup> 224, pistillate plant with fruits.