

NEW SPECIES OF ANNONACEAE FROM SURINAME

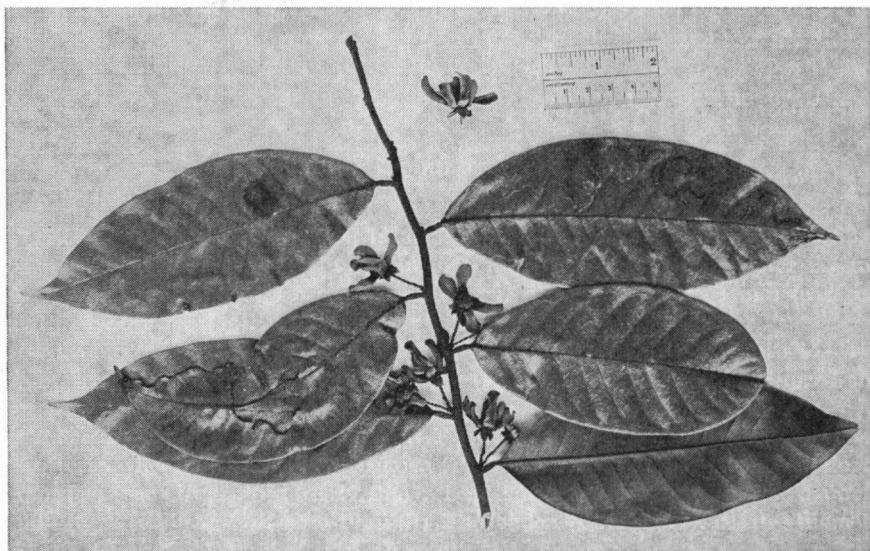
BY

M. J. JANSEN-JACOBS

(Communicated by Prof. J. LANJOUW at the meeting of April 25, 1970)

Guatteria wessels-boerii M. J. Jansen-Jacobs n. sp. Pl. 1.

Arbor circ. 8 m alta. Ramuli novelli pilis sparsis adpressis, mox glabrescentes, nigrescentes. Petiolus crassus, rugosus, adpresso tomentosus, 6–9 mm longus; lamina chartacea, supra glabra et nitida praeter costam hirsutam, subtus pilis sparsis adpressis, anguste elliptica vel elliptica, 12–18 cm longa et 4.5–7 cm lata, apice sensim angustata in acumen 1 cm longum, basi late cuneata vel aliquantum rotundata et decurrentis; costa supra paulo impressa, nervi secundarii utrinque 16–18, supra prominentes, subtus conspicue prominentes, reticulum venularum utrinque manifestum.



Pl. 1.

M. J. Jansen-Jacobs. Suriname, near confluence of
Palomeeu and Tapanahoni Rivers (Wessels Boer 1302).

Inflorescentiae axillares, (1)–2-florae; pedicelli stricti, sparse adpresso tomentosi, 1.2–1.5 cm longi, circ. ad tertiam inferiorem articulati. Sepala ovata, acuta, in vivo viridia, circ. 6 mm longa, extus sericea, intus apicem versus pubescentia ceterumque glabra et in sicco nigra, mox reflexa. Petala oblongo-obovata, apice rotundata, brunnea, extus sericea, intus

tomentosa, interiora ad basim macula trianguli glabra, interiora circ. 1.5 cm longa, exteriora circ. 2 cm longa. Stamina 1.2 mm longa, disco connectivi umbonato, minute papilloso. Pistilla numerosa, circ. 2.5 mm longa, ovaria pilosa, styli glabri, stigmata setulosa. (Fructus ignotus).



Pl. 2. *Oxandra surinamensis* M. J. Jansen-Jacobs. Suriname, Bakhuis Mountains (Florschütz and Maas 2419).

Suriname: Near confluence of Paloemeu and Tapanahoni Rivers, 3°20' N Lat., 55°27' W Long., riverside (Wessels Boer 1302, fl. April, holotype U).

The umbo of the connective disc places this species in section TYLODISCUS R. E. Fries. It is most closely related to *G. insignis* R. E. Fries from which it differs by its shorter petioles, less hairy branches and leaves, the shining upper side of the leaves, and the above prominent secondary veins.

Oxandra surinamensis M. J. Jansen-Jacobs n. sp. Pl. 2.

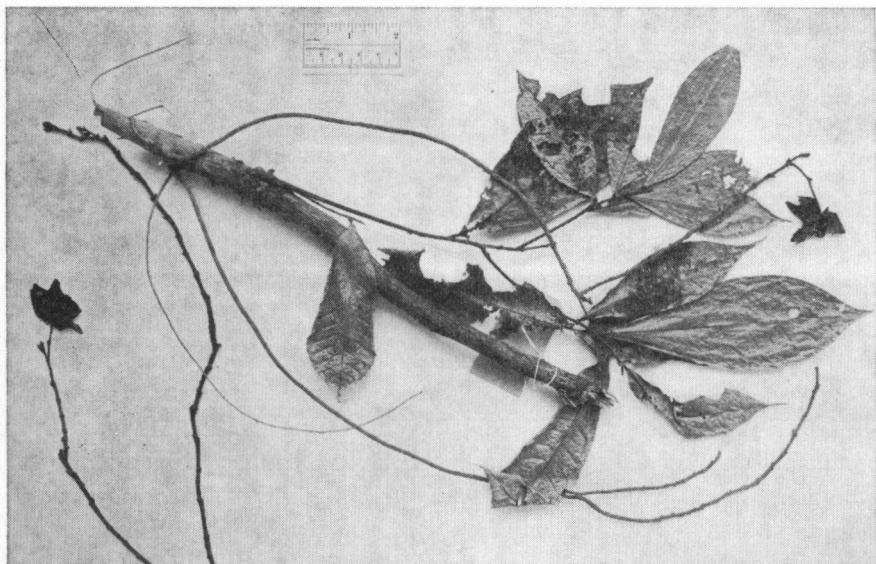
Frutex. Ramuli novelli pilis erectis. Petiolus 1–2 mm longus, rugosus, primo pilosus, mox glabrescens; lamina chartacea, supra glabra et nitida, subtus primo pilis sparsis, mox glabrescens, elliptica, anguste elliptica, obovata, vel anguste obovata, 8.5–13 cm longa et 3–5 cm lata, apice cuspidata, acumine 0.7–1.5 cm longo, basi paulo inaequaliter rotundata, basim versus sensim angustata; costa utrinque elevata, nervi secundarii utrinque 11–13, reticulum venularum utrinque manifestum. (Flores ignoti). Infructescentiae axillares, 1–2-carpiae. Pedicelli fructiferi pilosi, 2–3 mm longi. Monocarpia ellipsoidalia vel globosa, glabra, 0.9–1 cm longa et 0.7–0.8 cm crassa, stipite 1 mm longo vel subsessilia.

Suriname: Bakhuis Mountains, 1–2 km S. of Kabalebo airstrip, 80–150 m alt. (Florschütz and Maas 2419, fr. Dec., holotype U); Emmaketen, top 2, 700 m alt. (Boschwezen 5652, fr. March, paratype U).

The new species is related to *O. asbeckii* (Pulle) R. E. Fries from which it differs by its inequilaterally rotundate base, the larger number of secondary veins, and smaller monocarps.

Duguetia friesii M. J. Jansen-Jacobs n. sp. Pl. 3.

Frutex vel arbor parva, ad 6 m alta, trunco ad 10 cm crasso. Ramuli novelli stellato-lepidoti sicut bracteoli et tori, mox glabrescentes. Petiolus incrassatus, nigrescens, parce lepidotus, mox glabrescens, supra profunde sulcatus, 3–5 mm longus; lamina supra glabra, subtus sparse stellato-lepidota, mox glabrescens, anguste obovata vel anguste elliptica, 15–25 cm longa et 4.5–7 cm lata, apice obtusa, acumine 2.5 cm longo, basi acuta vel anguste cuneata, decurrentis; costa supra canaliculato-impressa, nervi secundarii utrinque 14–17, reticulum venularum utrinque manifestum. Inflorescentiae trunco altitudine usque ad 2 m vel ramulis vetustioribus insidentes; pedunculi efoliosi, ad 4 m longi, decumbentes, ceterumque stoloniformes et reptantes vel subterranei; flores solitarii, in vivo odorem cadaverinum intensissimum exhalantes; pedicelli graciles, ad 5 cm longi, dense stellato-lepidoti, parte inferiore bracteola amplectante, ad 4 mm longa. Sepala ovata, acuta, fusca, ad 2 cm longa et 1 cm lata, extus minute stellato-lepidota, intus apicem versus tomentosa. Petala elliptica, obtusa, ad 2 cm longa et 1.1 cm lata, basim versus incrassata, rutilantia, interiora parte inferiore albida, extus et intus sparse stellato-lepidota. Stamina 1.8 mm longa, crassa, glabra, disco connectivi semigloboso, ad



Pl. 3. *Duguetia friesii* M. J. Jansen-Jacobs. Suriname, Bakhuis Mountains (Florschütz and Maas 2702).

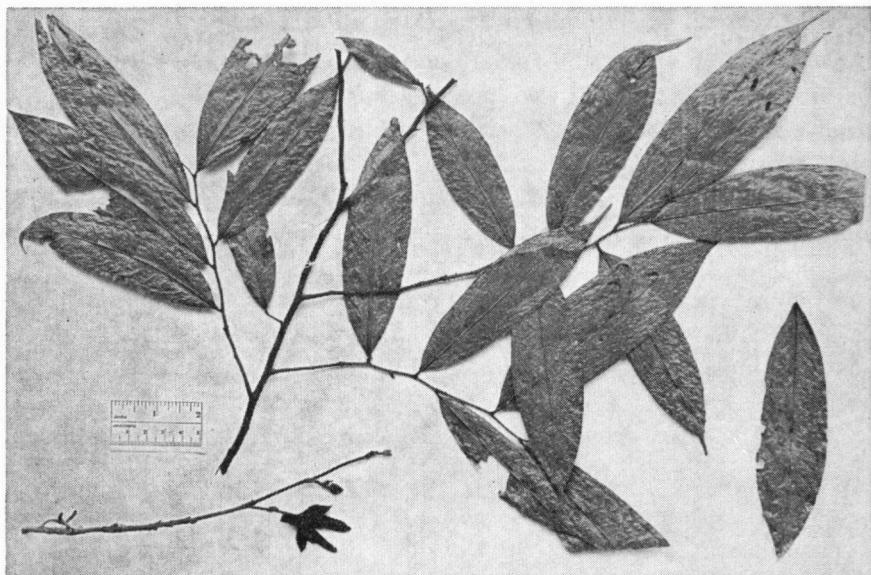
0.2 mm alto. Pistilla numerosa, circ 2 mm. longa; ovaria anguste oblongo-ellipsoidea, pilosa, styli filiformi, glabri. (Fructus ignotus).

Suriname: Bakhuis Mts. (Florschütz and Maas 2702, fl. Febr. and 2767, fl. Febr., holotype U); Emmaketen (Daniëls and Jonker 1159, fl. Sept., 935, fl. Sept., and 740, fl. b. July, paratypes U); Coppename, Hebiweri Mts. (Geijskes 1030, fl. Dec., paratype U); Wilhelmina Mts. (Schulz L.B.B. 10335, fl. Aug., paratype U); Gran Rio (Tresling 493, fl. b., without leaves, Oct.). French Guiana: Arataye River near Pararé Falls (De Granville 5, fl. Febr.).

This species was already mentioned by R. E. Fries in *Acta Hort. Berg.* 12(1): 98.1934, but the material, Tresling 493, was too incomplete to describe it as new. As Fries already supposed, the species belongs to section GEANTHEMUM R. E. Fries, because of the typical inflorescence with very long decumbent peduncles issuing from the trunk. It is closely related to *D. flagellaris* Hub. because of the semiglobose appendage of the connective which does not completely cover the anthers. The pedicels, up to 5 cm long in *D. friesii* and up to 5 mm in *D. flagellaris*, serve to separate the two species readily.

Duguetia adiscandra M. J. Jansen-Jacobs n. sp. Pl. 4.

Arbor parva, ad 4 m alta. Ramuli novelli stellato-lepidoti sicut bracteolae, sepala et petala, mox glabrescentes. Petiolus incrassatus, nigrescens, parce lepidotus, mox glabrescens, supra profunde sulcatus, 2-4 mm longus; lamina supra glabra, bullata, subtus sparse stellato-lepidota, mox glabrescens, anguste obovata vel anguste elliptica, 11-18 cm longa et 3.5-



Pl. 4. *Duguetia adiscandra* M. J. Jansen-Jacobs. Suriname, Sipaliwini River, Palaime Creek (Wessels Boer 867).

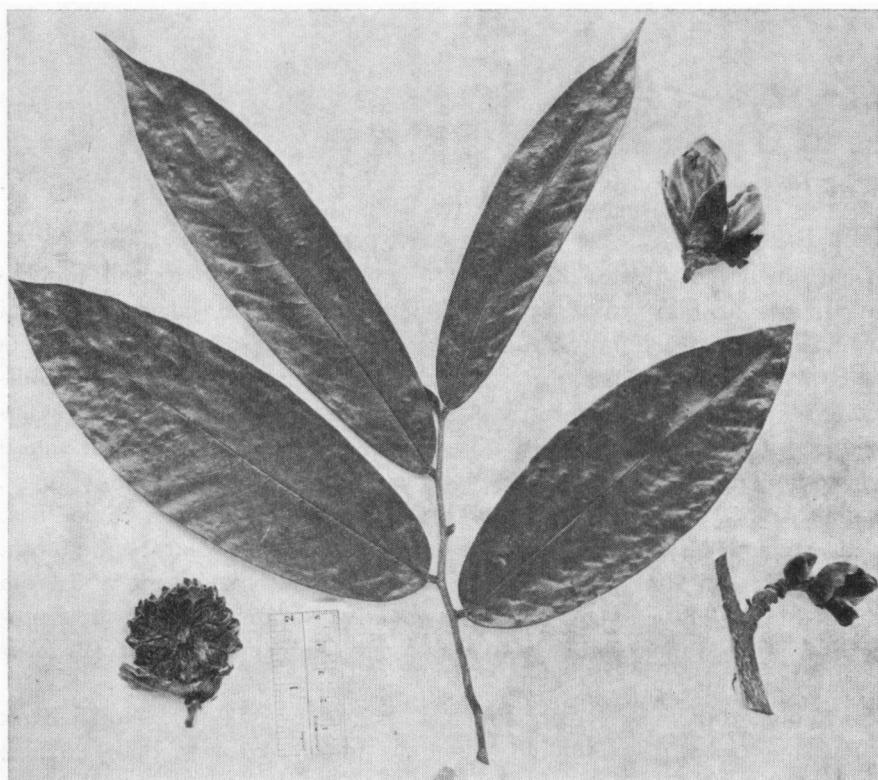
5.5 cm lata, apice obtusa, acumine 2.5 cm longo, basi acuta vel anguste cuneata, decurrens; costa supra canaliculato-impressa, nervi secundarii utrinque 11–15, reticulum venularum utrinque manifestum. Inflorescentiae trunco vel ramulis vetustioribus insidentes; pedunculi efoliosi, stoloni-formes et reptantes vel subterranei; flores solitarii, in vivo odorem cadaverinum intensissimum exhalantes; pedicelli graciles, ad 3 cm longi, dense stellato-lepidoti, parte inferiore bracteola amplectante, ad 6 mm longa. Sepala ovata, acuta, ad 1.8 cm longa et 1 cm lata, intus tomentosa. Petala anguste elliptica, acuta, ad 2.5 cm longa et 0.7 cm lata, rubiginosa, intus albida, apicem versus plus minusve tomentosa, interiora 0.4 cm lata. Stamina 1 mm longa, crassa, connectivo supra antheram non producto. Pistilla numerosa, circ. 3 mm longa, filiformia, pilosa. (Fructus ignotus).

Suriname: Sipaliwini River, 2°8' N Lat., 56°12' W Long., North bank of Palaime Creek, granite hills, savanna forest (Wessels Boer 867, fl. March, holotype U).

The typical inflorescences with very long decumbent peduncles issuing from the trunk and the absence of an appendage of the connective place this species in section GEANTHEMUM R. E. Fries. It is related to *D. friesii* M. J. Jansen-Jacobs from which it is hardly different in characters of the foliage. The difference is in the absence of an appendage of the connective. In this it resembles *D. cadaverica* Hub. and *D. rhizantha* (Eichl.) Hub. The long apices, the colour of the flowers, and the size of the sepals set it apart from *D. rhizantha*, the shape of the leaves and the sepals from *D. cadaverica*.

Duguetia schulzii M. J. Jansen-Jacobs n. sp. Pl. 5.

Arbor ad 10 m alta, trunco ad 10 cm crasso. Ramuli novelli velutinosi, pilis stellatis patentibus fusco-lutescentibus; internodia 1–2 cm longa. Petiolus 2–3 mm longus, incrassatus, vestitus ut ramuli; lamina supra glabra et nitida, subtus stellato-pilosa, densius in costa et nervis secundariis, anguste elliptica, 15–23 cm longa et 3–7 cm lata, apice obtusa, acumine 1.5 cm longo, basi inaequaliter rotundata vel cuneata; costa supra paulo impressa, nervi secundarii utrinque 13–16, reticulum venularum supra vix conspicuum, subtus manifestum. Inflorescentiae caulinflorae, 1–2-florae; pedicelli circ. 8 mm longi, pilis stellatis fusco-lutescentibus velutinosi, prope florem bracteola magna rotundata amplectante,



Pl. 5. *Duguetia schulzii* M. J. Jansen-Jacobs. Suriname, Jodensavanne-Mapane-creek area (Elburg L.B.B. 9858).

alabastrum involvente, extus stellato-tomentosa, intus verruculosa, ad 2.2 cm longa. Sepala connata pro parte quinta longitudinis, ovata, acuta, ad 3 cm longa et 1.5 cm lata, extus fusco-stellato-tomentosa, intus apicem versus cinereo-stellato-pubescentia, basim versus verruculosa. Petala exteriora obovata, obtusa, extus dense fusco-stellato-pilosa, intus cinereo-stellato-tomentosa, ad 3.5 cm longa et 1.5 cm lata; interiora spatulata,

obtusa, ad 3 cm longa et 1.5 cm lata, extus pallide fusco-rosea, dense stellato-pilosa, intus parte superiore cinereo-tomentosa, parte inferiore lineis aurantiaco-lutescentibus striata. Stamina circ. 1.5 mm longa, crassa, glabra, connectivo supra antheram appendice discoideo-dilatato, pilis sparsis minutis patentibus instructo. Pistilla numerosa, circ. 3 mm longa; ovaria pilosa, styli filiformes, sparse pilosi. Torus villosus. Fructus globosus, 3-4 cm diam., bracteola et sepalis persistentibus; monocarpia 1.5 cm longa, ad apicem 1 cm lata, obovata, plus minusve complanata, apice pyramidalia, pubescentia, apiculo 1.5 cm longo, obtuso, interdum arcuato.

Suriname: Jodensavanne-Mapanecreek area, rain forest near Camp 8 (Elburg L.B.B. 9858, fl. fr. April, holotype U); (Kramer and Hekking 2442, fl. Dec., paratype U); (Lindeman 5041, st. Oct., paratype U).

This new species is related to section *SYNSEPALANTHA* R. E. Fries, but differs from it, as defined by Fries, by the hairy petals and the sepals being united only for 1/5 of their length. The definition of the section may have to be amended.

The above entity is named after the ecologist Dr. J. P. Schulz of the Suriname Forest Service, who greatly promoted the floristic investigation of Suriname by his extended and well-annotated collections.

*Botanical Museum and Herbarium,
Utrecht, The Netherlands*