VOLUME 3 APRIL 1956 PART 3

REINWARDTIA

BEING A CONTINUATION OF THE

BULLETIN DU JARDIN BOTANIQUE DE BUITENZORG
(BULLETIN OF THE BOTANIC GARDENS, BUITENZORG)

EDITORS

ANWARI DILMY
(Herbarium Bogoriense)

AND

C. G. G. J. VAN STEENIS
(Flora Malesiana)

Published by
HERBARIUM BOGORIENSE
KEBUN RAYA INDONESIA

Reinwardtia Vol. 3, Part 3, pp. 315-379, BOGOR, April 1956

REINWARDTIA
Published by Herbarium Bogoriense, Kebun Raya Indonesia
Volume 3, Part 3, pp. 347-349 (1956)

A NEW SPECIES OF ANISOPTERA (DIPTEROCARPACEAE)

ANWARI DILMY *)

Anisoptera kostermansiana A. Dilmy, *spec. nov.*—**Fig. 1**

Arbor elata, foliis coriaceis oblongis glabris subtus flavescentibus. Paniculae dense pilosae. Tubus calycis fructiferi cupulatus, pubescens; nucis pars libera calycis tubum longe superans, pilosa; laciniae maiores 2, obovato-lanceolatae, 9—11 cm longae, 1,5—2 cm latae (loco insertionis 5—8 mm latae); laciniae minores 3, subulatae, 2—4 cm longae, basi 3—4 mm latae.

Tree up to 51 m tall, with 30 m straight, cylindrical bole, at 1.20 m about 70 cm in diameter. Crown rather sparse, brownish green. Bark grey brown, fissured, grooves about 7 mm deep; 10—20 mm thick with pale brown, round lenticels, under-bark whitish or straw. Wood straw to very pale pink coloured; sapwood not sharply defined. Branchlets rough, grey-brown, end of branchlets with fine, stellate, light brown hairs. Leaves (adult) glabrous, coriaceous, oblong, 8—11,5 cm long, 3—4 cm wide, top (when dried often plicate) shortly acuminate, acumen acutish, 2—4 mm long, base obtuse or rotundate; upper surface often smooth (or lateral nerves slightly prominulous), midrib impressed; lower surface yellowish brown with very prominent midrib, the c. 15 pairs of lateral nerves prominulous; veins reticulate, hardly prominulous; petioles 2—4 cm long, swollen at the base of the blade, brown (fresh). In fresh condition leaves yellowish green below, with yellow veins above. Infructescense 10 cm long, densely, microscopically, light brown pilose. Fruit wings yellowish green; fruiting calyx tube cup-shaped, 10—12 mm in diameter at apex, 5—6 mm high, densely, minutely pilose; wings slightly puberulous on the nerves; the 2 large ones elongate obovate-lanceolate, 9—11 × 1,5 — 2 cm, apex acutish, gradually narrowed towards base; at basal insertion 5—8 mm wide; the 3 smaller wings subulate, linear-lanceolate, 2—4 cm long, 3—4 mm wide, 3-nerved. Free part of nut exceeding for 3—5 mm the rim of the calyx tube, crowned by the remainder of the stylopodium; densely, microscopically, stellated pilose.

* Keeper Herbarium Bogoriense; Head Botanical Division, Forest Research Institute, Bogor.

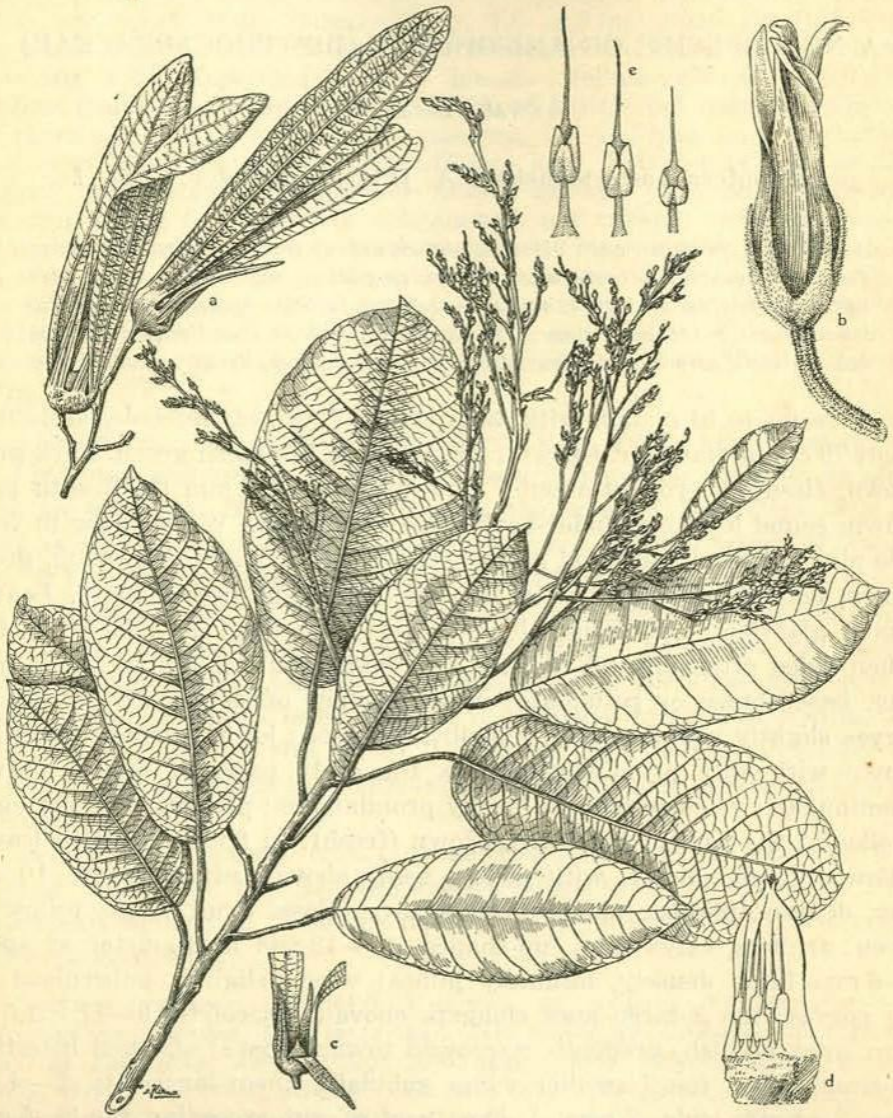


FIG. 1. *Anisoptera kostermansiana* A. Dilmy: *a.* fruit, 0.5 ×. — After Fryar 3355 (BO). *b.* flower, 4 ×; *c.* nut, 0.5 ×; *d.* stamens, 10 ×; *e.* stamens and ovary, 10 ×; flowering branch, 0.5 ×. — After Floyd 5534 (BO).

TYPE SPECIMEN.—*N.G.F. 3355. (D. Fryar).*

DISTRIBUTION.—Territory of New Guinea and Papua.

LOCAL NAMES.—Kwanuawan (Wanigela; Onjob language, Koreaf); Takara (Maniafia language, Utukap); Mirau (Medino).

The species is closely related to *A. polyandra* Bl., from which it may be distinguished by its stiffer leaves with yellowish under surface and by the fruiting calyx, which covers only half of the nut and the much longer minor wings. It is not possible to guarantee the identification of the sterile material, mentioned below. The specimen N.G.F. 1250 has much broader leaves with a conspicuous reticulation of its upper surface and hence could represent *A. polyandra* Bl. Two sterile specimens (bb 30931 and 30932) from Meosnum I., in West New Guinea, also belong here. Hoogland collected also a young plant (4612), which has thin, oblong leaves, up to 8 × 18 cm.

The species is named in honour of Dr. A.J.G.H. Kostermans, who since 1945 not only brought together a very large and important herbarium of Asian plants but also managed to publish numerous scientific papers especially on Malaysian tree species.

SPECIMENS EXAMINED.—NEW GUINEA. Territory of New Guinea. Morobe Distr., May, fr., *Fryar 3355* (BO, LAE); ibid., Feb., fls, *Floyd 5534* (BO, LAE); Oomsis creek area, Labu Wau Road, growing in alluvial silt, May, in bud, *Cavanaugh N.G.F. 855* (BO, BRI); ibid., Jan., in bud, *Smith & Mai, N.G.F. 1250* (BO, BRI); Busu R. area, northeast of Lae, on ridge tops and slopes, Jan., in bud, *Williams N.G.F. 133* (BO, BRI). Territory of Papua, 2 km SE of Budi Barracks, Tufi subdistr., alt. 150 m, Aug., fl., *Hoogland 4612* (BO, CANB.); Milne Bay distr., 2 km inland of Medino (N. Coast of Cape Vogel Peninsula), Sept., young fr., *Hoogland 4718* (BO, CANB.); foothills of Hydrographers Range near new Inota village, *Hoogland 3843* (BO, BRI).

The flowers of the flowering specimens (Hoogland 4612: BO, CANB), are described here:

Calyx green, tube very shallow, about 1—2 mm in diameter; lobes elongate, triangular, 2—3 mm long, grey-woolly; petals creamy, 10—12 mm long, lanceolate, acute, glabrous. Stamens numerous with long filiform, awn-like appendages; ovary pilose, cylindrical or obovate-cylindrical with short styles.