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# REINWARDTIA

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ADDITIONAL NOTES ON *PLANCHONIA BREVISTIPITATA*  
KUSW. (LECYTHIDACEAE)

KUSWATA KARTAWINATA

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ABSTRACT

*Planchonia brevistipitata* Kusw. is re-described and *Barringtonia belagaensis* P. Ghantaranothai is reduced to a synonym of this species.

ABSTRAK

*Planchonia brevistipitata* Kusw. dipertelakan kembali dan *Barringtonia belagaensis* P. Chantaranothai dijadikan sinonim jenis tersebut.

*Planchonia brevistipitata* Kusw. was based only on a single fruiting collection from Northeast Kalimantan, Indonesia. As more flowering and fruiting specimens are now available, I feel that it is appropriate to redescribe this species. The redescription was based on the specimens investigated at the Rijksherbarium Leiden, the Netherlands. The duplicates of these specimens were deposited in various herbaria, but were not seen.

*Barringtonia belagaensis* P. Chantaranothai (Kew Bull. 50 (4): 695-697. 1995) has been reduced to a synonym., as its characters, particularly its fruits, agree with those of *P. brevistipitata*. Numerous seeds contained in each fruit distinguish *Planchonia* from *Barringtonia*, which has one-seeded fruit.

I am grateful to Dr. Dan M. Martin, Director of World Environment and Resources Program, John D. & Catherine T. MacArthur Foundation for encouraging me to continue research in Malesian botany and Prof. Dr. P. Baas, the Director of the Rijks-herbarium and Hortus Botanicus, Leiden, the Netherlands, for allowing me to use the facilities and to study the specimens at the Rijksherbarium.

PLANCHONIA BREVISTIPITATA Kuswata Kartawinata

Bull. Bot. Surv. India 7: 179. 1965. Type: *Amdjah 256* (BO, holo; L, iso), Northeast Kalimantan, Indonesia.

*Barringtonia belagaensis* P. Chantaranothai, Kew Bull. 50(4): 695. 1995. Type: *Othman et al. S43541* (K, holo; A, KEP, L, SAN, iso), Sarawak, Malaysia.

Small tree up to 15 m tall, branchlets grayish brown, -5 mm in diam., finely grooved, leaf-scars conspicuous. Leaves obovate, elliptic to oblanceolate, papyraceous (4.-)8-25 x (2-)6 cm; base decurrent, margin serrulate, apex acuminate, acumen up to 2 cm long, slender, tip sharp; midrib strongly prominent beneath, prominulous above; lateral nerves (8-) 14-18 pairs, making an angle of ca. 60° with the midrib, prominent on the lower surface, prominulous above, arcuately and faintly anastomosing near the margin; reticulation dense, distinct beneath, faint above; petiole 5-10 mm. Raceme (1-)2-5 cm long, 2-3 mm thick, 7-9 flowered, pedicel 2-10 mm long, 1-3 mm thick. Calyx tube obconical, 8-10 mm long, base stipitate; lobe ovate, 3-6 x 3-8 mm, apex rounded; rim of disc about 2 mm high. Corolla obovate to oblong, 2.5-3.5 x 1-1.7 m, papyraceous, apex rounded, Staminal tube 5-10 mm long, stamens 5-8 cm.; anther oblong, 0.5 x 0.8 mm. Style up to 7 cm long, stigma capitate. Ovary 4-celled, up to 20 ovules per cell. Inflorescence terminal, rachis up to 5 cm long, sometimes angular. Pedicel 3-10 mm long, 1-3 mm thick. Fruit globular to ovoid, 2-3 x 1.5-2 cm, crowned with persistent calyx and style (up to 7 cm long), base with 2-3 mm long neck, slightly ribbed, 4-celled, septa thin. Seed 4-11 in each cell, ovoid to pyramidal, slightly curved, tetragonous, sides concave, 7-9 x 3-5 mm; seedcoat coriaceous, silvery brown, about 0.5 mm thick; embryo coiled covered by very thin membrane.

**ECOLOGY.** Common in riverine forest and streamside on sandy and rocky soils (frequently growing together with *Dipterocarpus oblongifolius*), rheophytic zone and in low undulating terrain.

**FIELD NOTES.** Low-spreading small tree up to 20 m tall, up to 8 cm in diameter, crown up to about 8 m in diameter, old leaves withering red. Outer bark smooth to flaky, brownish gray; inner bark up to 2.5 cm thick, pinkish to smooth brown, laminated. Sapwood soft, whitish, yellow to yellowish pink. Inflorescence, terminal, few to many-flowered, bracts distinct. Flowers white to pale green, with numerous stamens to 8 cm long, opening at night, young bud greenish. Fruits yellowish green to greenish.

Specimens Examined - Borneo. Sabah, Danum Valley, St., May, *C.E. Ridsdale 2039A* (L); fl., fr., May, *C.E. Ridsdale 2049* (L); Lahad Datu District, Sg. Danum, fr., Aug., *P.F. Cockburn, SAN 85108* (L; duplicates at K, KEP, KLU, SAN, SAR, SIN, not seen); Beaufort, northeast of Rayoh, fl., fr., June, *Saikeh L. SAN 72168* (L; duplicates at A, K, SAR, SIN not seen); Beaufort district, Mile 70 Railway F. Res., Rayoh, fl., May, *Dewol & Karim, SAN 77587* (L, duplicates at K, SAN, SAR, SING not seen); Sandakan, Tongod, Kinabatangan. River bank, fl., fr., Nov., *W. Meijer SAN 23297* (SAN, L); Tongod, Kg. Ulu Menanam, alt.: 500 ft., fr., *Dewol S &*

*Patrick L. SAN 89287* (L; duplicates at L, SAN, SAR not seen); Tawau, Mile 27 Sepulot, Luasong River bank, fr., July, *F. Krispinus SAN 89872* (L; duplicates at K, SAN, SAR not seen); Tenom District, Mile 75.33, Beaufort Tenom rail Line, near river Padas, fr., July, *Aban Gibot, SAN 64340* (L; duplicates at K, KEP, SAN not seen); Tenom District, Lumaku Forest Reserve, mile 80, Pangi, fr., May, *Francis Sadau SAN 50458* (L; duplicates at K, SAN not seen). Sarawak. Baram (IV Division), around Long Selatong Lepo Ga', fl., fr., Aug., *S.C. Chin 2887* (L; duplicate at KLU not seen); Baram District, Sungei Tutoh, Lat. 4 N, Long 114 48' E, alt: below 200 ft., fr., Feb., *Chew Wee-left CWL. 1071* (L; duplicate at K not seen), Ulu Sg. Belaga, 7th Division, Oct., *Olhman et al. S. 43451* (L, isotype of *B. belagaensis* P. Chantaranonthai; holotypes at K and isotypes at A, KEP, SAN not seen).

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