

## Two new species of *Diospyros* (Ebenaceae) from Thailand

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ABSTRACT. Two new species of *Diospyros* (Ebenaceae) from Thailand, *Diospyros phuketensis* and *Diospyros ranongensis*, are described and illustrated.

***Diospyros phuketensis* Phengklai sp. nov.** Haec speciei *Diospyros mymecocalyx* (Hiern) Bakh. similissima, sed differt calyce fructifero acetabuliformi, non obconico, fructibus fascicularis non solitariis, foliis chartaceis non subcoriaceis vel coriaceis. Typus: Thailand, Phuket, Khao Pra Thaeo Ecological Center, ca. 100–150 m altitude, *C. Niyomdham et al.* 294 (holotypus BKF; isotypi C, AAU). Fig. 1.

Evergreen tree, up to 20 m high, 80–100 cm girth. *Twigs* glabrous, dark brown to blackish when dry. *Terminal buds* terete, 8–10 by 1–1.5 mm, with adpressed dark tomentum. Bark blackish, longitudinally furrowed, sparsely pale lenticelate. *Leaves* oblong, oblong-lanceolate, 14–22 by 3.5–6.5 cm, chartaceous, glabrous on both surfaces, except along midrib, sparsely adpressed-pubescent then glabrescent, margin entire; apex acuminate to caudate; base obtuse, usually suboblique; midrib prominent on the lower surface, depressed on the upper surface; lateral nerves in 7–10 pairs, rather faintly arched but not anastomosing, distinct on the lower surface and subdepressed on the upper surface; scalariform veins usually distinct on the lower surface; reticulate veins hardly distinct; *petiole* 1–1.5 cm, grooved on the adaxial side, white adpressed-pubescent, then glabrescent, dark brown when dry. *Inflorescences* not yet seen. *Infructescences* ramiflorous. *Fruits* ovoid, depressed on both top, 4–5.5 by 3.5–6 cm, pubescent then glabrescent, yellowish brown with grey brown patches; fruiting calyx saucer-shaped, 1–1.5 by 3–4.5 cm, with 5 slightly undulate lobes along margin, densely pale lenticelate on outer part, annular ring-like between fruiting calyx and the end of fruit-stalk; fruit-stalk tubular, 15–20 by 4–6 mm, wrinkled and sparsely dark tomentose, then glabrescent. *Seeds* (8–)10, 2–2.5 cm long, 1–1.2 cm thick, not ruminant.

Thailand.—PENINSULAR: Phuket [Phra Thaeo, *C. Niyomdham* 294 (holotype BKF; isotypes C, AAU)].

Distribution.—Endemic to Thailand.

Ecology.—In tropical evergreen rain forest; 100–150 m altitude.

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**Diospyros ranongensis** Phengklai **sp.nov.** Haec speciei *Diospyros borneensis* Hiern similissima, sed differt fructum apodum, non calycem fructiferum sed collum basi fructus, nervos laterales foliorum aruatos, non anastomosantes habens. Typus: Thailand, Ranong, Klong Na Ka Wildlife Sanctuary, In rain forest, ca. 600 altitude, *C. Niyomdham, R. Kubat & W. Aajchomphoo* 1440 (holotypus BKF; isotypi C, AAU). Fig. 2.

Evergreen tree, 10–15 m high, up to 100 cm girth. *Twigs* slender sparsely pubescent, then glabrescent, dark brown to blackish when dry. *Terminal buds* ellipsoid, 4–5 by 1–1.1 mm, tomentose. Bark greyish-black, rather smooth or longitudinally furrowed, sparsely pale lenticelate. *Leaves* elliptic-oblong to oblong, 10–15 by 2.7–5.5 cm, chartaceous, glabrous on both surfaces, except sparsely pubescent then glabrescent along midrib, dull green on the upper and pale brown on the lower surface when dry, margin entire, usually revolute; apex acute to acuminate; base slightly acute to obtuse; midrib prominent on the lower surface, depressed on the upper surface; lateral nerves in 7–11 pairs, arched but not anastomosing, finely distinct on lower surface and faint or subdepressed on the upper surface; scalariform and reticulate veins distinct on lower surface; *petiole* 0.5–1 cm, sparsely pubescent then glabrescent. *Inflorescences* not yet seen. *Infructescences* ramiflorous. *Fruit* globose 5.5–7 by 5.5–7 cm, greyish-brown to greyish-black, undulate; woody skin up to 1 cm thick; fruiting calyx collar-like at base; fruit-stalk sessile or  $\pm 1$  mm long, connected to the collar. *Seeds* 10–14, 3–4 cm long, 1–1.3 cm thick, not ruminant.

Thailand.— PENINSULAR: Ranong [Khlong Na Kha Wildlife Sanctuary, *C. Niyomdham et al.* 1440 (holotype BKF, isotypes C, AAU)].

Distribution.— Endemic to Thailand.

Ecology.— In tropical evergreen rain forest; ca. 600 m. altitude.

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Figure 1. *Diospyros phuketensis* Phengklai: A. twig; B. infructescence & fruits, B-1. cross-section of fruit. All from the type. Drawn by Oratai Kirdkaew.



Figure 2. *Diospyros ranongensis* Phengklai: A. twig; B. fruit, B-1. cross-section of fruit. All from the type. Drawn by Oratai Kirdkaew.