

Staminate flower 2.5 x 1.5 mm, angular by close packing; sepals three, somewhat transparent, free 0.4 mm from the top, 1.3 x 0.5 mm, spatulate; petals triangular 2.5 x 0.8 mm; stamens 6, shortly epipetalous. Pistillate inflorescence unknown.

Specimens seen: JOHORE; Labis Forest Reserve, Ulu Endau, G. Janing, hill slope above, Dipterocarp forest, 300 m alt., *J. Dransfield 5086* (Holotype KEP, isotype K).

*Notes:* 1. Field data; undergrowth palmlet, spreading by flagelliform shoots, stem to only 20 cm long leaflets dark green and glabrous; inflorescence in axils with 2–3 partial inflorescences.

2. An incomplete specimen, *Dransfield 5159*, from Trengganu, may belong here, but I refrain from assigning it definitely to *Salacca graciliflora*, because it differs in having the leaflets not in one plane, each with 3 main longitudinal veins 9–27 mm apart, and with 3 thin longitudinal veins in between; the petiolar spines are up to 1.2 cm long, two to four of them forming a small comb, these at intervals of 2–6 cm and often with single spines on the side; the top of the rachis is spiny. The inflorescences are too young for analysis. TRENGGANU; Besut, Ulu Setiu Forest Reserve, foothills of G. Lawit, alt. 60 m, *Dransfield 5159* (K, KEP).

G. Lawit, alt. 60 m, *Dransfield 5159* (K, KEP).

*Salacca minuta* Moge, sp. nov

Fig. 4

Inter species *Salaccae* haec species parvissima est; foliis flabellatis, ad 50 cm longis, infra brunneo-tomentosis, inflorescentiis staminatibus aetate flagelliformibus, gracilibus, non-ramosis, usque ad 1.5 m longis, plantulas novas ex apicibus formantibus, rachillae staminatae minutae, cylindricae, ad 10 mm longae, 4 mm diametro.

Typus: JOHORE; *J. Dransfield 5076* (KEP, holo).

This species is the smallest in the genus. Blades flabellate 50 cm long with brown indumentum underneath. The old staminate inflorescences sometimes lying on the ground whiplike, slender, unbranched, up to 1.5 m long; producing a new plant at the apex. Staminate rachilla with minute cylindrical flowers, 10 mm long, 4 mm diam.

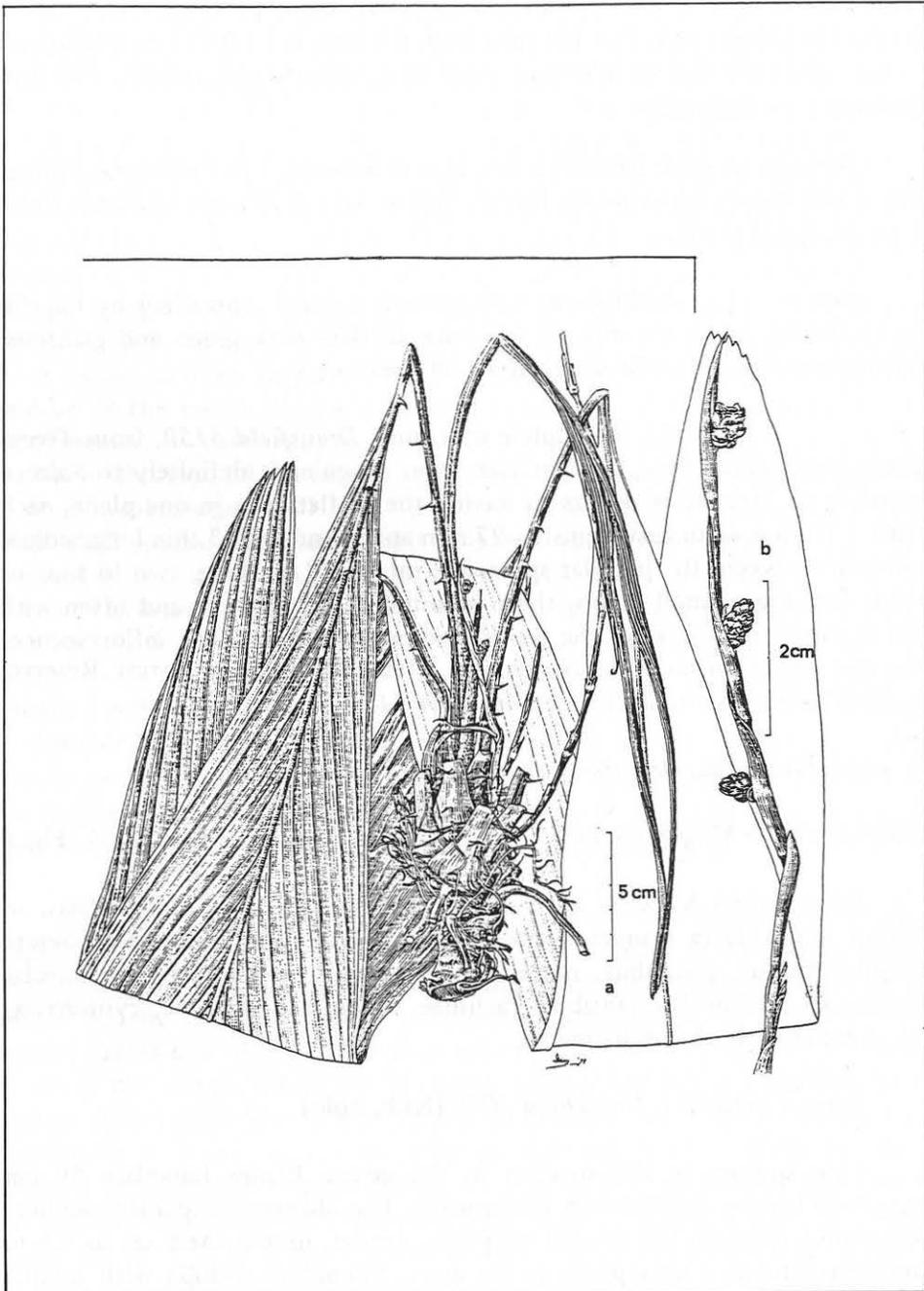


Fig. 4. *Salacca minuta* Mogeia, Sp. nov. — a. base of plant with attached leaves. — b. staminate inflorescence. (After Dransfield 5079).

Plant c. 1 m tall, with very short stem, sometimes stemless. Leaves flabellate, about 0.90 m long; leafsheath 10 cm long, in longitudinal section more or less J-shaped, in cross section weakly crescent-shaped, 4 cm long, 3 cm diam., the very base attached all around the axis, the furrow near the base 7 mm deep, on the lower surface wrinkled, at the medium line spiny, petiole 12–20 cm long, about the middle in cross section somewhat obtriangular, 4 mm tall, gradually decreasing towards the top, on the lower side spiny. Blade flabellate, obtriangular, deeply bifid, 50 cm long, widest at the top 14–20 cm broad, the base narrowly wedge-shaped; above glossy green, below with brown indumentum; lobes at the top 5 on the either side, each at the top corresponding to a main longitudinal vein, 2.5–6 x 1–4 mm, acute, the top main longitudinal veins ending respectively in one lobe, at an angle c. 30° from the rachis or midrib, about the middle at distances of 0.5–1 cm, with 1 or 2 longitudinal thin ones in between; transverse veins c. 5 mm apart. Spines patent, flat, triangular, up to 10 mm long, at the base 2 mm broad, 1 mm thick, sparse on the leafsheath with some single spines, on the petiole and rachis similar as on the leafsheath.

Inflorescences unisexual, axillary, piercing the subtending back of the leafsheath base. Staminate inflorescence slender, unbranched 15 cm long, at the base covered by three empty bracts, boat-shaped, linear-lanceolate, 15–25 x 3–6 mm, enveloping the rachilla with flowers, acute, 2–4 mm diam., when old lacerated and fibrous; rachilla with flowers 3 in one inflorescence, cylindrical 10 mm long, 4 mm diam., outside glabrous, peduncle 3–5 mm long, 1 mm diam. covered by the bracts. Staminate inflorescences sometimes elongate, lying on the ground, whiplike, slender, unbranched, 1.5 m long, producing a new leafy shoot at the apex, rachis 2 mm diam., internode 2–10 cm long, the shorter ones at the base others gradually longer towards the apex, bracteole and staminate flowers not available. Pistillate inflorescence unknown.

Specimens seen: JOHORE; Labis Forest Reserve, Ulu Endau, G. Janing, valley bottom, hill Dipterocarp forest. Alt. 200 m. *J. Dransfield 5079* (Holotype KEP; isotype K)

*Salacca multiflora* Moge, sp. nov.

Figs. 5–7.

Mediocris; foliis flabellatis discoloribus, inflorescentiis staminatibus parvis rachillis 17 in 3 ordines ramorum dispositis.

Typus: TRENGGANU; *J. Dransfield 5135* (KEP, holo).