

## VALIDATION OF LICUALA PITTA (ARECACEAE; CORYPHOIDEAE) FROM SOUTHEAST THAILAND

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### SUMMARY

A new species of *Licuala* from SE Thailand illegitimately published in 2005 is here validated.

**Key words:** Arecaceae, Coryphoideae, *Licuala*, palms, Thailand.

### INTRODUCTION

A new species of *Licuala* from Chantaburi Province in SE Thailand was recently published by horticulturalist Poonsak Vatcharakorn under the name of *Licuala pitta* (Vatcharakorn 2005). The name is illegitimate under the International Code of Botanical Nomenclature since no type specimen is cited and no Latin diagnosis is provided. The new species grows sympatrically with *L. poonsakii* Hodel from which it clearly differs by having divided partial inflorescences and much smaller flowers. The combination of character states in *L. pitta* does not match any other *Licuala* species.

### MATERIALS AND METHODS

Herbarium specimens from the following herbaria were available to us for comparison: AAU, BKF, C, K, L, P and QBG. All measurements were derived from dried voucher specimens. The flowers were boiled previous to longitudinal sectioning. Indication of colour is based on field observations and label information.

### DESCRIPTION OF SPECIES

***Licuala pitta*** Vatch. ex Barfod & Pongsattayapipat, *spec. nov.* — Fig. 1

Palma mediocris, caespitosa, foliis multi-segmentatis, segmentis basin infundibulariter convergentibus, inflorescentia erecta, ad ordinem secundam ramosa, et floribus mediocribus, ovalibus. *Licuala spinosa* affinis, a qua differt inflorescentia interfolia, pauciramosa, rhachillis florentibus paucioribus et brevioribus, floribus duplo longioribus. — Typus: Barfod, Pongsattayapipat & Anker 727 (holo AAU; iso BKF, QBG), Thailand, Province of Chantaburi, Makham, Hills by Khiri Than Reservoir, 339 m alt., 13 March 2006.

*Licuala pitta* Vatch. (2005), nom. nud.

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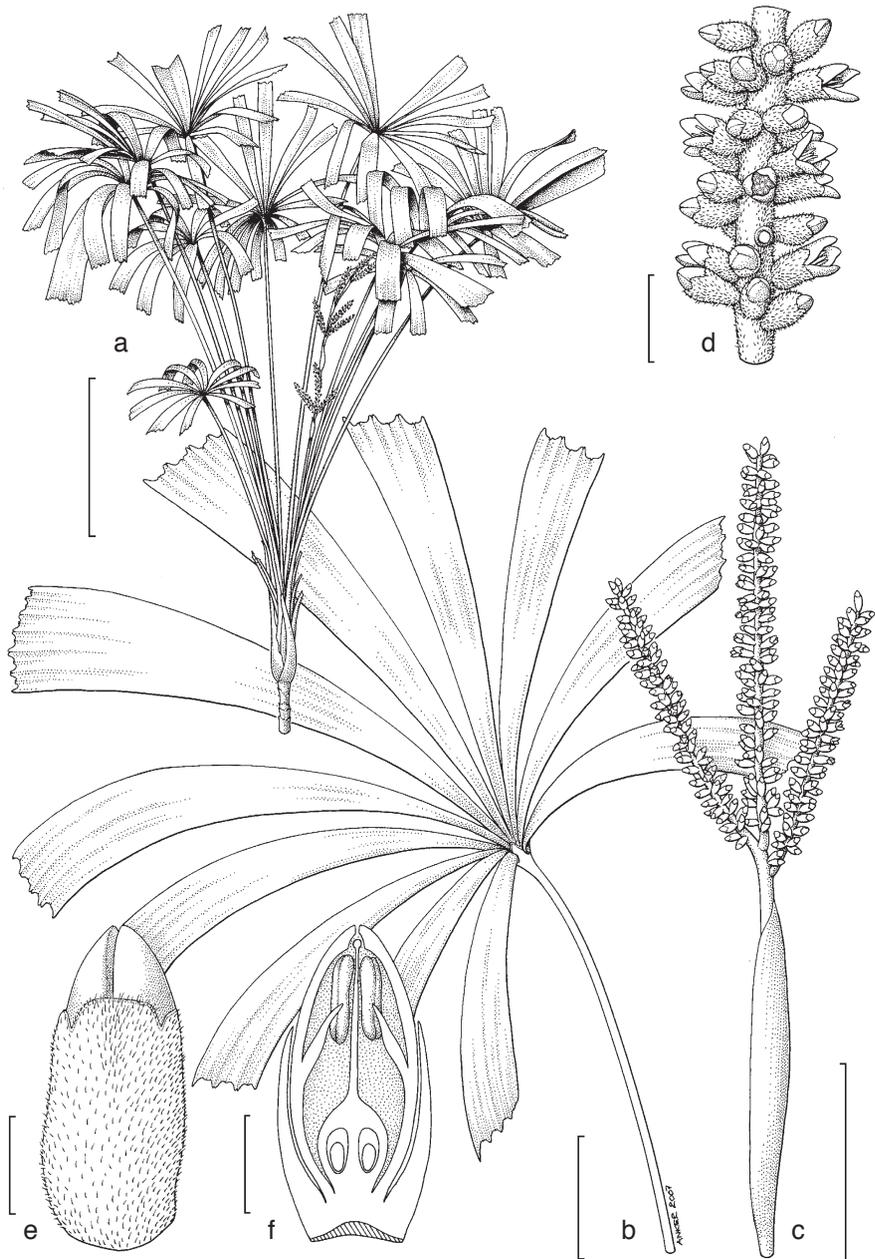


Fig. 1. *Licuala pitta* Vatch. ex Barfod & Pongsattayapipat. a. Habit; b. leaf; c. basal-most partial inflorescence; d. detail of rachilla; e. flower in lateral view; f. longitudinal section of flower. — Scale bars: a = 50 cm ; b = 10 cm; c = 5 cm; d = 1 cm; e, f = 2 mm (from Barfod, Pongsattayapipat & Anker 727, AAU). — Drawing by Katja Anker.

Caespitose palm, 4–8 stemmed, individual stems up to 2.5 m tall, 2.8–3 cm diam. below the crown and with 0.5–1 cm long internodes. *Leaves* 10–12 in crown, sheath margins disintegrating into fibrous mesh, eventually dropping off; petiole 120–150 cm long, 8–10 mm wide at the base to 4–6 mm across towards the apex, adaxially flattened to channelled towards the base, abaxially rounded to ridged, armed on lower 30–50 cm, with more or less evenly distributed, irregularly sized, up to 3 mm long, straight spines; leaf blade 60–70 cm across, divided in 11–15 segments, with slightly curved to straight lateral margins, converging basally in funnel-like manner, apical segment sessile, undivided, 35–45 cm long, with 9–11 adaxial ribs, midsegments of more or less equal length, with 3 or 4 adaxial ribs, somewhat obliquely truncate, basal segments 30–35 cm long, with 2–4 adaxial ribs, obliquely truncate; indentations leading to adaxial ribs 5–10 mm long, U-shaped, those leading to abaxial splits 2–5 mm long, V-shaped. *Inflorescences* 1 or 2 per ramet, 80–90 cm long, carrying 4 or 5 partial inflorescences; peduncle as measured to insertion of basal rachis bract 60 cm long; prophyll 30 cm long; basal rachis bract bicarinate tubular, 23–27 cm by 12–15 mm, covered with patches of ferruginous rammenta particularly basally and towards the margins, loosely fitting, irregularly splitting, 5–12 mm long; remaining rachis bracts gradually shorter towards the apex with a single, up to 7 cm long split; basal partial inflorescence inserted 25–30 cm above its subtending rachis bract, branching near point of insertion, with 1–3, 8–12 cm by 2–3 mm rachillae, each bearing 70–90 flowers. *Flowers* hermaphroditic, protandrous, solitary, bullet-shaped, somewhat triquetrous, 7–7.5 mm long; flowers borne in pairs almost throughout the rachilla, each pair subtended by an inconspicuous up to 0.5 mm long bract, pedicel very short, calyx 4.8–5 mm long, unevenly tomentose, with three shallow, rounded to truncate lobes; corolla 5–5.5 mm long, splitting to c. 2 mm; androecium fused to corolla for 2.2–2.3 mm, staminal ring c. 1 mm high; free part of filaments c. 0.5 mm long; anthers 0.9–1.1 mm long; ovary 1.5–2 mm long, rounded to attenuate apically; style 3–3.5 mm long; locules situated near the middle of the ovary, 0.5–0.6 mm long. *Fruits* unknown.

*Etymology* — Named after Mr. Pitta Bunnak, who has contributed extensively to palm horticulture in Thailand.

*Distribution* — Known only from the type locality in Thailand but should be sought for in adjacent Cambodia.

*Habitat* — This palm is distributed in hill dipterocarp forest and lowland rain forest ranging up to 450 m asl.

*Conservation status* — As long as this species has only been recorded in a restricted area it is of possible concern due to urban development and habitat destruction in one of Thailand's fastest developing provinces.

*Vernacular names & Uses* — None recorded.

*Note* — *Licuala pitta* is similar to the widespread *L. spinosa* in its caespitose habit and its overall leaf morphology. It differs from that species, however, by the inflorescences being presented among the leaves, the leaf segments converging basally in a funnel-like manner, the fewer and shorter flowering rachillae and the flowers being almost twice as long. *Licuala pitta* is reminiscent of *L. taynguyensis* Barfod & Borchs. (Barfod & Borchsenius 2000) from Vietnam but that species is solitary, and has much larger inflorescences, with zigzag rachillae that bear fewer, rather large and densely long-haired flowers.

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