Two new records of *Pavetta* (Rubiaceae) in Thailand

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ABSTRACT. *Pavetta kedahica* Bremek. and *P. salicina* (Ridl.) Bremek. are presented as new records from peninsular Thailand and are described and illustrated.

INTRODUCTION

*Pavetta* L. (Rubiaceae) is a genus of over 340 species distributed from Africa through Arabia, India and South-East Asia to tropical Australia (Bremekamp, 1934 & Govaerts et al., 2007). The last treatments of this genus for Thailand were those of Craib (1934), Bremekamp (1934) and Govaerts et al. (2007). They recognised 11 species and four varieties, 14 species and two varieties, and 16 species and one variety respectively. During the course of fieldwork towards the *Pavetta* treatment for Flora of Thailand, specimens representing the Malay species *P. kedahica* Bremek. and *P. salicina* (Ridl.) Bremek. were collected in Phangnga and Phuket provinces and Yala province respectively in peninsular Thailand. Descriptions, photographs and line drawings of these two species are provided.

MATERIALS & METHODS

In preparing the Flora of Thailand treatment of *Pavetta*, specimens (including types) from the following herbaria were examined: BCU, BK, BKF, CMU, KKU, PSU, QBG and SING. Taxa were delimited using comparative morphology.

NEW RECORDS


Shrub 2–6 m high; branchlets glabrous. Leaves simple, opposite; petiole 0.5–3 cm long, glabrous; blade obovate, 10–13 by 4.5–6 cm, base attenuate to cuneate, apex acuminate, margin entire to slightly undulate, subcoriaceous, with 7–10 pairs of lateral nerves, domatia at lateral nerve axils; midrib prominent underneath. Interpetiolar stipules triangular, 4–5 mm long, aristate to cuspidate, glabrous outside, sericeous inside. *Bacterial nodules* on the

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leaf blade orbicular or irregular, 0.8–3 mm in diam., sometimes absent. Inflorescences axillary, corymbose, with 10–15 flowers; peduncle 2–3 cm long, glabrous; pedicels 4–10 mm long, glabrous. Flowers fragrant. Calyx green, cup-shaped, 0.7–1 mm long, glabrous; lobes dentate, 0.1–0.2 mm long, glabrous. Corolla white, tube 1.2–1.6 cm long, glabrous outside, densely pilose inside; lobes 4, oblong to elliptic, 5–6 by 1.8–2 mm, apex obtuse, sparsely pilose at the base, margins sparsely ciliate. Stamens 4, filaments 0.9–1 mm long, inserted at the mouth of the corolla tube; anthers longitudinally spirally contorted at dehiscence, dorsifixed, linear, 4–5 mm long, base sagittate, apex apiculate. Style white, slender, exserted, 3–3.5 cm long; stigma green, fusiform, 4–5 mm long, sparsely pubescent; ovary globose, 1–1.2 by 0.8–1 mm, glabrous. Fruits green, globose, 5–7 mm in diam., glabrous, with persistent calyx at apex. Seeds 1–2, semiglobose with one face flattened-convex. Figs. 1.


Distribution.— Malay Peninsula, Sumatra.

Ecology.— Strand vegetation.

Phenology.— Flowering May–July, fruiting July–August.

Notes.— P. kedahica is closely related to P. sylvatica but it differs in having a shorter corolla tube which is ciliate at the corolla lobe margin. The former is a species of littoral vegetation, while the latter is found in evergreen forest.


Shrub 1–2 m high; branchlets glabrous. Leaves simple, opposite; petiole 0.5–1.5 cm long, glabrous; blade narrowly elliptic to lanceolate, 9–14 by 0.5–1.5 cm, chartaceous, with 6–7 pairs of sparsely pubescent lateral nerves, midrib prominent below, sparsely pubescent, base attenuate to cuneate, apex acuminate to cuneate. Interpetiolar stipules triangular, 4–5 mm long, aristate to cuspidate, glabrous outside and inside. Bacterial nodules on the leaf blade orbicular or irregular, 0.8–2 mm in diam. Inflorescence terminal, corymbose, with numerous flowers; peduncle short, 1–1.3 cm long, glabrous; pedicels 5–10 mm long, glabrous. Calyx green, cup-shaped, 0.8–1 mm long, glabrous; lobes dentate, 0.1–0.2 mm long, glabrous. Corolla white, tube 1–1.2 cm long, glabrous outside, pilose inside; lobes 4, oblong to lanceolate, 5.5–7 by 2.5–3 mm, apex acute, sparsely pilose at base. Stamens 4, filaments ca. 1 mm long, inserted at the mouth of the corolla tube; anthers longitudinally spirally contorted at dehiscence, dorsifixed, linear, 5–5.5 mm long, base sagittate, apex apiculate. Style white, slender, exserted, 2–2.5 cm long; stigma green, fusiform, 5–6 mm long, sparsely pubescent; ovary globose, ca 1 by 1 mm, glabrous. Fruits globose, ca 1 cm diam., glabrous, with persistent calyx at apex. Seeds 2. Fig. 2.

Thailand.— PENINSULAR: Yala [Khao Han Kut, 27 March 1998, Niyomdham 5376 (BKF)].
Figure 1. *Pavetta kedahica* Bremek.: A. habit; B. corolla with the tube opened longitudinally; C. corolla lobe, showing the ciliate margin; D. calyx and ovary; E. stigma; F. anther; G. stipule; H. domatia at lateral nerve axils; I. fruits. All from Thangthong 311 (KKU) & 312 (KKU). Drawn by J. Thangthong.
Figure 2. *Pavetta salicina* (Rild.) Bremek: A. habit; B. corolla with the tube opened longitudinally; C. calyx and ovary; D. stigma; E. anther; F. stipule. All from *Niyomdham* 5376 (BKF). Drawn by J. Thangthong.
Distribution.— Malay Peninsula.
Ecology.— Evergreen forest.
Phenology.— Flowering March–April.
Notes.— Pavetta salicina is similar to P. graciliflora but it differs in having pubescence on the lower surface of its leaf blade and corolla lobes which are more than half as long as the corolla tube.

ACKNOWLEDGEMENTS

We are extremely grateful to the Biodiversity Research and Training Program (BRT T_146007) for financial assistance. We also thank the directors and curators of the herbaria BCU, BK, BKF, CMU, KKU, PSU, QBG and SING for providing access to specimens.

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