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# Two new species of *Psychotria* from the Society Islands

F. R. FOSBERG

## RÉSUMÉ

FOSBERG, F. R. (1983). Deux espèces nouvelles de *Psychotria* des îles de la Société. *Candollea* 38: 455-458. En anglais, résumé français.

Description de deux espèces nouvelles des îles de la Société: *Psychotria atricaulis* Fosberg spec. nova, et *P. marauensis* Fosberg & Florence spec. nova.

## ABSTRACT

FOSBERG, F. R. (1983). Two new species of *Psychotria* from the Society Islands. *Candollea* 38: 455-458. In English, French abstract.

Description of two new species from the Society Islands: *Psychotria atricaulis* spec. nova, and *P. marauensis* Fosberg & Florence spec. nova.

We were, in 1982, able to collect, in the Society Islands, material of two species of *Psychotria* L. subgenus *Psychotria* that had been known for some time from inadequate specimens. One was described but not named by Fosberg in 1937, the other undescribed. They seem related by their terminal capitulate, or fasciculate, few-flowered inflorescences, subtended by apparently stipular bracts, and rugose pyrenes. Neither seems closely related to other known eastern Polynesian species, though *P. temehaniensis* Moore shows some similarities. The other Society Island *Psychotria* species require considerably more study before a satisfactory key can be constructed, but these two now seem to be clear enough to be placed on record.

***Psychotria atricaulis* Fosberg, spec. nova**

Frutex caulibus atris; folia anguste obovata vel subspathulata; stipulae primo calypratae utraque bicarinata, calyptra quadrimucronata, demum aperiens pro lobis valvatis ovatis intus dense pilosis dehiscentibus vel persistentibus cingentibus florum bases; inflorescentia terminalis capituliformis 1-4 floribus; flos pentamerus calyce persistente lobis obtusis; drupa rubra late ellipsoidea vel subovata, pyrenis obovatis basi truncatis apicale subacutis dorsali subrugosis irregulariter tricarinatis.

Stems smooth, black, internodes to 5.5 cm long; leaves to 16 cm long, narrowly cuneate-obovate to subspatulate, glabrous except for a close line of wool along the midrib beneath, veins strongly spreading, petiole about 1 cm long; stipules when young forming an ovoid calyptra with two ridges or keels on each side (each stipule), to 5 mm long, apex blunt, but calyptra with 4 minute mucros or sharp cusps. As this develops it secretes a strong mucus, the calyptra swells as the leaves, or more so as the flowers, emerge, the top part opens, and forms two broadly obtuse or rounded lobes, appearing strongly ciliate, but entire inner surface densely pilose, especially at base; this falls almost immediately if twig elongates, but on fertile twigs is persistent as a funnel-shaped or cup-shaped sheath around the 1-4 flowers and young fruits; inflorescence a terminal fascicle or sessile head of a few (1-4) flowers and fruits; flower white; calyx cup-shaped subtruncate, corolla with distinct tube, five-lobed; fruit red, broadly ellipsoid to slightly ovoid, crowned with firm persistent calyx about 2 mm long, obscurely 5-dentate, pyrenes obovate in outline, truncate at base, bluntly acute at apex, ventral surface flat, slightly muriculate with trace of a keel, dorsal surface somewhat rugose, with 3 somewhat irregular keels.

Presumably endemic on Huahine Island, at higher elevations, in understory of wet to moist forest, with *Crossostylis*, *Ixora*, *Canthium*, *Fagraea*, etc. or in somewhat open vegetation with *Gleichenia* and shrubs.

Society Islands: Huahine: Mt. Matoereere, 300-400 m, *St. John 17 175* (BISH, P); *Grant 5286* (BISH, 2 sheets); Mt. Turi, 500 m, *Gagné 1545* (BISH, US); 250 m, *Fosberg 63 037* (US, P, BISH); south slope of east ridge of Mt. Turi, 300-325 m, *Fosberg 63 056* (US, BISH, P, L, K, A, NY, CHR); *Fosberg 63 057* (US, holotype, BISH, CHR, P, A, NY, L, MO, K, isotypes); 500 m, *Fosberg 63 072* (US, BISH, P, K, A).

***Psychotria marauensis* Fosberg & Florence, spec. nova**

Frutex subscandens elongatus, subglaber; folia rigescentia elliptica usque ad 9 × 5 cm acuta vel subacuminata brevipetiolata; stipulae calypratae, calyptra 12-24 mm longa anguste acuminata apice bilobata, lobis apiculatis; inflorescentia terminalis capituliformis bracteata 2-6 floribus sessilibus vel subsessilibus, saepe subtentis per 2 ramulos foliosos; flos calyce 2 mm longo

vix lobato lobarum apicibus saepe setiferis, corolla tubo 11-22 mm longo, lobis 5 ovato-lanceolatis 8 mm longis, apicibus uncinatis; drupa subglobosa 15 × 10 mm.

Shrub elongate to almost or quite vine-like, glabrous except occasional pilosity on youngest parts and along mid-rib on under sides of leaves, internodes varied in length, with 4 faint ridges, soon becoming terete, grayish brown or rarely (*Sachet 2377*) black; leaves stiff, elliptic to obovate, up to 9-10 × 5 cm, apex acute to somewhat acuminate, base cuneately acute to obtuse, main nerves rather obscure, (6-)7-9(-10) on a side, widely divergent, network apparent, petiole rather thick but short, 2-5(-9) mm; calyptrate stipule about 12-24 mm long, apical part prolonged, slender, tip bearing two spreading, upwardly curving acutish or bidentate appendages 1-1.5 mm long, or merely 4-toothed, cohering edges of stipules marked by an irregular band of crisply curling pilosity, free edges scarcely so; inflorescence reduced to a terminal sessile or subsessile cluster of 2-6 flowers, enclosed in bud by the calyptrate stipules, often subtended by two branchlets from same node, in axils of nearly full-sized or reduced leaves at this node, cluster of flowers subtended by one or more small ovate fimbriate ciliate stipular (?) bracts; calyx broadly and slightly funnelform, pilosulous, free part about 2 mm high, glabrous, almost truncate except for a setiform process at the apex of each scarcely developed lobe or this lacking; corolla tube about 11-12(-15) mm long, rather slender, somewhat dilated upward, distal portion densely pilose within, glabrous without, lobes 5, ovate-lanceolate, about 8 mm long, spreading to reflexed, apices bluntish, hooked inward, exterior pilosulous distally, interior papillose-puberulent, lower central part pilose; stamens included, subsessile, dorsifixed, inserted in corolla throat, linear, 2.5 mm long, dehiscing longitudinally; style well exerted, basal part weakly pubescent, distal half hirsute, stigma bifid, lobes glabrous, fleshy, oblong, about 1 mm long, blunt; fruit subglobose to elliptic or ovoid, apically more or less truncate, about 5 × 10 mm, glabrous, pinkish, fleshy, calyx persistent; pyrenes plano-convex, 12 × 7 × 3 mm, base truncate, apex rounded-obtuse to subacute, dorsally irregularly tricarinate and very rugose, ventrally flat and closely cross-wrinkled.

Variable in length of petiole and in the details of dentation of stipule apices and calyx lobing.

Presumably endemic in Tahiti, only found, so far, on Mt. Marau in the upper valley and headwaters of Tipaerui Stream, in cloud forest of *Alstonia*, *Cyathea-Streblus*.

Society Islands: Tahiti: Mt. Marau, *Sachet 2355* (US, BISH, P); *Sachet 2377* (US); 875 m, *Gagné 1377* (BISH, US); 1475 m, *Gagné 1345* (BISH); *Gagné 1346* (BISH); headwaters of Tipaerui Stream Valley, Mt. Marau, *Fosberg 62 809* (US, BISH, P); *Florence 3667* (P, Papeete); *Florence 2356* (P, holotype, Papeete, US, isotypes); *Sachet 2667* (US); Route du Mt. Marau, moyenne Tipaerui au-dessus du plateau de Mamanu, 800 m, *Florence 4607* (P, US, Papeete); 825 m, *Florence 4608* (P, US, Papeete).

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