A new species of Phebalium from south-eastern New South Wales

By P. G. Wilson

Abstract

Phebalium ellipticum sp. nov. is described from collections made in the mountain ranges to the east of Cooma, New South Wales. It is placed with P. ovatifolium and P. squameum in the section Eriostemoides.

Phebalium ellipticum P. G. Wilson sp. nov. (Figure 1).

Folia elliptica, 20 x 8-35 x 15 mm, chartacea, retusa, supra glabra, infra lepidota. Inflorescentiae axillares, ca. 10 mm longae, 2-5 florae; pedicelli ca. 2 mm longi, bracteolis duabus linearibus minutis caducis ornatis. Sepala libera, ca. 1 mm longa, glabra. Petala elliptica, ca. 5 mm longa, glabra, alba. Stamina petala aequantia, filamentis subulatis glabris, antheris ellipticis retusis. Discus ca. 0.5 mm altus, glaber. Ovarium lepidotum; stylus glaber; stigma minutum integrum.

Type: East slope of Big Badja Mountain just below summit "Leaning bushy shrub with numerous branches arising from base, ca. 1 m high; common among bushy shrubs above tree line", 27 Oct. 1972, J. P. Baker 907 (holo: NSW; iso: CANB, GAUBA, K, MEL, PERTH).

Bushy shrub to 1.5 m high. Branches terete, lepidote, sparsely to densely glandular verrucose. Leaves shortly petiolate; lamina flat, elliptical, 20 x 8-35 x 15 mm, retuse, firmly chartaceous, glabrous above, closely silvery lepidote below. Inflorescences of short axillary 2-5 flowered cymes ca. 10 mm long; bracts subfoliaceous (but small), very reduced upwards, caducous; bracteoles 2, minute and linear, situated in middle of the short (ca. 2 mm) pedicel, caducous. Sepals free, triangular, ca. 1 mm long, fleshy, glabrous (or sparsely lepidote when young). Petals slightly imbricate, elliptical, ca. 5 mm long, glabrous, white. Ovary hemispherical, ca. 1 mm high, silvery lepidote; style slender, terete, glabrous, ca 2 mm long; stigma entire, equal in width to style. Fruit: cocci spreading, quadrate, very shortly apiculate, 3 mm long; seed not seen.

Distribution: on mountains south and east of Cooma, in the extreme southeast of New South Wales.

New South Wales: "East of Nimitybelle" (= Nimmitabel), head of Howitt's Swamp, 9 Feb. 1908, R. H. Cambage 1862 (NSW, SYD); Big Badja Mtn., ca. 20 mi E of Cooma, alt. ca. 4000 ft., 23 Oct. 1971, J. Webb (GAUBA).

This species belongs to the section Eriostemoides whose other two members are *Phebalium ovatifolium* and *P. squameum*. The distribution of this section is from Tasmania northwards to the south-eastern extremity of Queensland. *Phebalium ellipticum* therefore occupies a central position in relation to the distribution of the section as a whole.

In a revision of the genus *Phebalium* by the present author* reference was made in a note under "*Phebalium* sp. aff. squameum" (p. 95) to a vegetative specimen, Cambage 1862. This specimen belongs to *P. ellipticum*. It was stated in that paper that the specimen resembled in leaf form the Tasmanian plant *P. squameum* subsp. retusum. From this taxon it may be clearly distinguished in the flowering condition by the presence of a lepidote ovary. From *P. ovatifolium*, to which it also bears a resemblance, it may be distinguished by its much larger leaves and by the absence of the prominent and persistent bracteoles which characterize the former species.

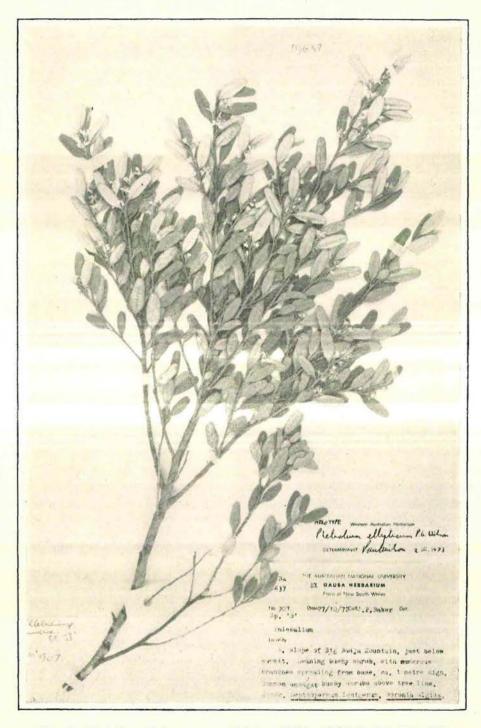


Figure 1-Phebalium ellipticum sp. nov. Holotype NSW ex GAUBA, J. P. Baker 907.

Phebalium ellipticum is not the same species as the collection Gates no. 12 (from Woods Point, Goulburn River, Victoria) which, in the revision, was referred to as Phebalium sp. aff. squameum. This collection represents an as yet undescribed species which differs from P. ellipticum most obviously in having lepidote petals and sepals.

Acknowledgements

I am grateful to Mr. J. P. Baker, of the Department of Botany at the Australian National University, who, through his efforts in obtaining suitable material of *Phebalium ellipticum*, made this paper possible.