A New Species of Phymatocarpus (Myrtaceae) from Southwestern Australia

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Abstract

Phymatocarpus interioris Craven is described newly. A key to the three species of Phymatocarpus is provided and their distributions are mapped.

Introduction

The Western Australian genus *Phymatocarpus* F. Muell. was established in 1862 with *P. porphyrocephalus* F. Muell. its sole, and hence type, species. Mueller added a second species, *P. maxwellii* F. Muell. in 1875. Both of these species have a more or less coastal distribution, the former in the Murchison River-Eneabba region and the latter from Mount Barker east to Israelite Bay. During preparation of an account of the genus for *Flora of Australia* it was noted that several populations, seemingly of *P. maxwelli*, occurred in the Lake King-Peak Charles area to the north of the range of *P. maxwelli*. Further investigation showed that these populations represent an undescribed species of the genus; this is described below as *P. interioris*.

Taxonomy

- **1.** *Phymatocarpus porphyrocephalus* F.Muell., *Fragm.* 3: 121 (1862). *Typus*: Western Australia, sand plain S of Murchison River, *Oldfield s.n.* (holotypus MEL *1059023*).
- 2. Phymatocarpus maxwellii F.Muell., Fragm. 9: 45 (1875), as maxwelli. Typus: Western Australia, near Cape Arid, 1875, Maxwell s.n. (holotypus MEL 1059015). Regelia sparsifolia W.Fitzg., J. Bot. 50: 21 (1912). Typus: Western Australia, Esperance Bay, Oct. 1903, Daw s.n. (holotypus NSW; isotypus MEL fragm.).

3. Phymatocarpus interioris Craven, sp. nov.

A *P. maxwellii* F. Muell. staminibus non distincte fasciculatis et annulo staminali et a *P. porphyrocephalo* F. Muell. staminibus paucioribus (23–30), floribus ebracteolatis et lamina foliorum venis numerosioribus (5–9) differt.

Typus: Western Australia, c. 65 km W of Daniell, 15 Sep 1964, *Kuchel 1798* (holotypus AD; isotypus CANB).

Shrub to 1.5 m tall. Leaves 4.4–9.2 mm long, 3–7.5 mm wide, short-petiolate or subsessile; blade glabrous or hairy, very broadly ovate to circular to transversely broadly elliptic, in transverse section sublunate, the veins 5–9 and parallel-pinnate. Inflorescence with 2–6 triads; bracteoles absent. Hypanthium sericeous. Sepals costate or not, very broadly triangular or elliptic, 0.7–0.8 mm long. Staminal ring well developed, 1.4–2.8 mm long. Stamens 23–30 per flower, often in distinct antepetalous clusters (the bundle claw per se weakly developed), the filaments glabrous, mauve, purple or pink, 3.3–5.5 mm long. Style 7–8 mm long. Ovules 5–10 per locule. Fruit 2.7–3.9 mm long with the distal rim flat or more or less so. Seed generally obovoid; cotyledons obvolute.

Selected specimens examined (c. 12 seen): WESTERN AUSTRALIA: 93.2 km from Lake King Post Office along the Norseman road, 5 Nov 1994, Craven, Lepschi & Holliday 9599 (A, ASU, CANB,

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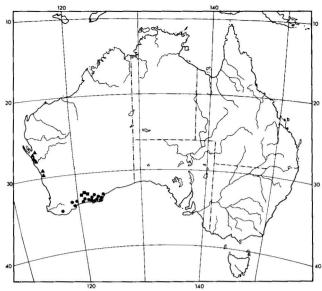


Fig. 1. Distributions of the species of *Phymatocarpus*. ■ *P. interioris* ● *P. maxwellii* ▲ *P. porphyrocephalus*

E, L, MEL, NSW, P, PERTH); 2.6 km N of Peak Eleanora, 3.8 km E of Fields Road on Peak Charles Road, 2 Oct 1983, *Burgman & McNee 2605* (PERTH); 22 km W of 90-Mile Tank on the Daniell-Lake King road, 10 Oct 1973, *Demarz 4649* (PERTH); 54 km W of Kumarl which is c. 122 km N of Esperance, 10 Oct 1966, *Wilson 5697* (PERTH).

Notes: Phymatocarpus interioris occurs in southern Western Australia in the Lake King-Peak Charles area (Fig. 1). It grows in mallee and eucalypt woodland, shrubland and low heathland, apparently preferring well-drained sandy soil that often overlies clay. Flowers have been recorded between September and November.

Specimens that are assigned now to *P. interioris* previously were often identified as *P. maxwellii*, perhaps because of the similar leaf colour and, for the narrower-leaved plants, similar leaf blade shape. The well developed staminal ring, however, clearly distinguishes *P. interioris* from *P. maxwellii* and is a feature possessed in common with *P. porphyrocephalus* from which it differs as given in the key below.

Key to the species of Phymatocarpus

- 1. Stamens not distinctly 5-bundled (although often aggregated into clusters opposite the petals and then with weakly developed bundle claws), staminal ring well-developed (1.4–3 mm long).

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