# Australian Tropical Ferns and Lycophytes - Online edition

# Platycerium veitchii

Family:

Polypodiaceae

#### Botanical name

Platycerium veitchii (Underw.) C.Chr.

Link to Australian Plant Name Index for publication details and synonyms: https://id.biodiversity.org.au/name/apni/79668

### Description

Rhizome short-creeping, clothed with chaffy lanceolate scales, embedded in a nest of fronds and roots. Roots proliferous. Fronds dimorphic with sterile base fronds appressed (laminating) against the host and sterile or fertile foliage fronds emergent. Nest fronds rounded-reniform, 20–45 cm long, 8–15 cm wide; upper margin very deeply cut into thin chartaceous finger-like lobes to about 20 cm long and 1.5 cm wide, or rarely entire. Foliage fronds ascending to somewhat pendulous, in clusters of up to 11, 4.5–72 cm long; base narrow, tapering gradually to c. 5–10 cm or more, then forking into 1–8 narrow lobes up to 20 cm long and 0.4–3.5 cm wide; undersurface white from crowded stellate hairs. Sporangia covering most of the lower surface of ultimate segments, frequently reaching apex. Spores 50–75  $\mu$ m long, 32.5–50  $\mu$ m wide.

#### Distribution

Occurs in NE and E QLD between the McLeod River and Carnarvon. Usually in inland areas but occurring on the coast and islands in the Townsville and Bowen region.

#### Habit and habitat

Lithophytic in seasonally-dry vine forest, usually on large boulder piles, rock scree or on cliff faces. Occasionally epiphytic in dry vine forest or *Araucaria* forest.

#### Natural history

This taxon expresses a suite of drought tolerating mechanisms including leaf rolling, sunken stomata, a thick indument of reflective insulating hairs and CAM photosynthesis. The nest fronds of this species have a deeply lobed upper margin that captures rain and falling debris and funnels it into the root system. Named after nurseryman James Veitch, who introduced this species into cultivation in England.

#### Cultivation

Readily cultivated on a tree, rock, slab or in a pot of coarse material. Grows well in a garden or fernhouse in the tropics, subtropics and warm temperate areas. Plants should be kept on the dry side in cool weather.

# Similar species

Key to Australian Platycerium spp.:

1a. Nests with a solitary growing point, fertile fronds with a single large sorus in the first sinus, nest-fronds forming a wide-spreading fan of lobes = *Platycerium superbum* 

1b Nests forming a colony with several growing points, fertile fronds with sori on the penultimate lobes and not in the sinuses, nest fronds not forming a wide spreading fan of lobes = 2.

- 2a. Nest fronds with an entire upper margin and not forming a basket = Platycerium hillii
- 2b. Nest fronds with a lobed upper margin and forming a basket = 3
- 3a. Plants with a dense covering of stellate hairs, foliage fronds white below obscuring venation, nest fronds drying to a mushroom pink or grey, upper lobes narrow and finger like = *Platycerium veitchii*

3b. Plants with sparse covering of stellate hairs, veins vissible on lower surface of foliage fronds, nest fronds drying to a coppery brown, upper lobes not as above = Platycerium bifurcatum

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Close up of frond showing sori. © G. Sankowsky



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