Australian Tropical Ferns and Lycophytes - Online edition

Alsophila exilis

Family: Cyatheaceae

Botanical name

Alsophila exilis (Holttum) Lehnert

Link to Australian Plant Name Index for publication details and synonyms: https://id.biodiversity.org.au/name/apni/51350865

Description

Rhizome erect to 4 m tall, 4–8 cm diam., suckering from rhizome buds, with 1 bud near each stipe base. Stipe c. 20 cm long; stipe towards base with 0.5–1.5 mm long blunt spines, each spine bearing a caducous dull brown scale; scales c. 10 mm long and 1 mm wide; base thickened; margins fragile, sometimes setiferous; apex setose. Lamina to 100 cm long, thin; longest pinnae to 30 cm long; basal pinnae to 18 cm long; pinna rachis smooth, a few very narrow scales basally; pinnules to 5.2 cm long, 1.5 cm wide, deeply lobed; lobes at an angle of c. 60°, crenate, acute; veins to 7 pairs, those on fertile pinnules mostly forked; scales near bases of pinnule costae ovate; larger scales brownish, apically setiferous; smaller scales pallid, not setiferous; distal scales and those on costules small, bullate, sometimes with filiform apices; upper surface of costae bearing rather sparse antrorsely curved slender brown hairs. Sori medial, near the forks of veins; exindusiate, with few very small scales around receptacle; paraphyses longer than sporangia, distally flexuous, thickened at their bases.



Endemic to Australia and known from only one locality on CYP.

Habit and habitat

Terrestrial in spring-fed creeks in rainforest.

Natural history

This is a rare and localised endemic tree-fern.

Similar species

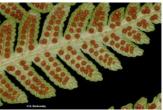
Similar to *Sphaeropteris felina*. It is also very similar to *Alsophila macgillivrayi* from Papua New Guinea and the Louisiade Archipelago. *Alsophila exilis* is distinguished by its shorter stipe (c. 20 cm long cf. to 1 m in *Sphaeropteris felina*) and distinctly reduced basal pinnae (cf. only slightly reduced in *Sphaeropteris felina*).

Citation of Australian Tropical Ferns and Lycophytes

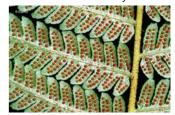
Field AR, Quinn CJ, Zich FA (2022) Australian Tropical Ferns and Lycophytes. apps.lucidcentral.org/fern/text/intro/index.htm (accessed online INSERT DATE).

Field AR, Quinn CJ, Zich FA (2022) 'Platycerium superbum', in Australian Tropical Ferns and Lycophytes. apps.lucidcentral.org/fern/text/entities/platycerium_superbum.htm (accessed online INSERT DATE).

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Close up of frond showing sori © CSIRO



Frond. © G. Sankowsky



Crozier. © G. Sankowsky



Stipe scales. © CSIRO



















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