

Polyphlebium endlicherianum

SYNONYMS

Trichomanes endlicherianum C.Presl; *Crepidomanes endlicherianum* (C.Presl) P.S. Green; *Crepidopteris endlicheriana* (C. Presl) Copel.; *Trichomanes humile* sensu Hook.f.; *Reediella endlicheriana* (C.Presl) Pic.Serm.;

FAMILY

Hymenophyllaceae

AUTHORITY

Polyphlebium endlicherianum (C.Presl) Ebihara et K.Iwats.

FLORA CATEGORY

Vascular – Native

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Ferns

NVS CODE

TRIEND

CURRENT CONSERVATION STATUS

2017 | Not Threatened | Qualifiers: SO

PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

DISTRIBUTION

Indigenous. New Zealand: Kermadec (Raoul Island), Manawatāwhi / Three Kings Islands, North Island, South Island, Chatham Islands. Common in the North Island but scarce over much of the South Island part of its range. Also Australia, Borneo, New Guinea, Vanuatu, Fiji, Samoa, Tahiti and Norfolk Island (the type locality).

HABITAT

Coastal to montane but most common in lowland closed forest. Usually found growing along streams sides in deeply shaded sites on rocks, overhangs and in crevices. Because of this habitat preference it is very easily overlooked.

DETAILED DESCRIPTION

Terrestrial (rarely epiphytic) fern forming dense carpets on suitable substrates. **Rhizomes** c. 0.1 mm diameter, long-creeping; hairs dense short, red-brown. **FronDs** 13–40(–100) mm long, dark green. **Stipes** widely spaced, 3–13(–25) mm long, winged almost to the base. **Rachises** winged. **Lamina** 11–40(–80) × 5–15(–25) m, narrowly ovate to linear, deeply 2–3-pinnatifid; ultimate segments 0.5–0.7 mm wide; margins entire; marginal cells clear, elongate, with oblique end walls; apices obtuse, often notched; false veins absent. **Sori** immersed in short, basal acroscopic segments of the pinnae; involucre funnelform, 1.5–2.0 × 1.0–1.5 mm wide, winged; mouth dilated, entire; receptacle exerted up to 4 mm beyond mouth.



Silverstream, Upper Hutt. Photographer: Jeremy R. Rolfe, Date taken: 07/10/2006, Licence: CC BY.



Silverstream, Upper Hutt. Photographer: Jeremy R. Rolfe, Date taken: 07/10/2006, Licence: CC BY.

SIMILAR TAXA

Of the New Zealand species, *Polyphlebium endlicherianum* is most likely to be confused with *P. colensoi*, which is a much less common plant of montane forested habitats. *Polyphlebium colensoi* differs from *P. endlicherianum* by its more widely spaced pinnae, the lack of a wing on the stipes or rachises, finely divided fronds and stalked (peduncululate) indusia. From *P. endlicherianum* the New Zealand form of *Abrodictyum caudatum* differs by its deltoid frond and by the lobed involucre of the fruiting receptacle and by its epiphytic habit. *Polyphlebium venosum* is easily distinguished from both these species by its conspicuously veined pinnae.

PROPAGATION TECHNIQUE

Difficult—should not be removed from the wild.

WHERE TO BUY

Not commercially available

TAXONOMIC NOTES

NZPCN now follows Ebihara et al. (2006) in recognising *Polyphlebium* as distinct from *Trichomanes*. Although Brownsey & Perrie (2016) rejected this idea, the generic segregation was adopted by the PPG I (2016) and is now widely followed throughout the world.

ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (23 April 2011). Description adapted from Bostock & Spokes (1998).

REFERENCES AND FURTHER READING

Bostock PD, Spokes TM. 1998. Hymenophyllaceae. *Flora of Australia 48, Ferns Gymnosperms and allied groups*: 116–148. ABRIS/CSIRO Victoria, Australia.

Brownsey PJ, Perrie LR. 2016. Hymenophyllaceae. In: Breitwieser I, Heenan PB, Wilton AD. *Flora of New Zealand - Ferns and Lycophytes*. Fascicle 15. Manaaki Whenua Press, Lincoln, NZ. <https://doi.org/10.7931/B1QP4Z>.

Ebihara A, Dubuisson, J-Y, Iwatsuki K, Hennequin S, Ito M. 2006. A taxonomic revision of the Hymenophyllaceae. *Blumea 51*: 2–57. <https://doi.org/10.3767/000651906X622210>.

PPG 1: The Pteridophyte Phylogeny Group 2016. A community-derived classification for extant lycophytes and ferns. *Journal of Systematics and Evolution 54*: 563–603. <https://doi.org/10.1111/jse.12229>.

NZPCN FACT SHEET CITATION

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<https://www.nzpcn.org.nz/flora/species/polyphlebium-endlicherianum/> (Date website was queried)

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/polyphlebium-endlicherianum/>