Notogrammitis givenii

COMMON NAME

strapfern

SYNONYMS

Grammitis givenii (Parris) Parris

FAMILY

Polypodiaceae

AUTHORITY

Grammitis givenii Parris

FLORA CATEGORY

Vascular - Native

ENDEMIC TAXON

Yes

ENDEMIC GENUS

Nο

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Ferns

NVS CODE

NOTGIV

CURRENT CONSERVATION STATUS

2017 | Not Threatened

PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

DISTRIBUTION

Endemic. New Zealand: North Island (from the Raukumara Range (Mt Honokawa) south, scarce), South Island, Chatham Islands, Auckland Islands, Campbell Island/Motu Ihupuku.

HABITAT

Coastal to alpine (strictly montane in the North and South Islands) but extending to the coast on the Chathams and on the subantarctic coast. Commonly found on mostly south facing rocks and cliff faces, within crevices or joints or fringing cave entrances, within forest, scrub or alpine tussock grassland.

DETAILED DESCRIPTION

Rupestral fern. **Rhizome** short-creeping to long-creeping; paleae pale brown, lanceolate, acute, $1.6-5.9 \times 0.6-1.9$ mm. **Stipes** pronounced, 1-18 mm long; stipe hairs whitish to pale red-brown, rare to common, 0.3-2.0 mm long. **Lamina** (11)–19–47–(99) × (3)–3.8–7.0–(10) mm; spathulate-oblanceolate to oblanceolate, obtuse to acute, lamina hairs whitish, sparse, on midribs only, more common in young fronds, to 1.2 mm long; texture coriaceous; veins invisible, endings not darkened; midrib somewhat raised below, \pm concolorous with lamina. **Sori** subglobose to oblong, oblique, in upper half to third of frond, 1-10 pairs, $2.0-6.5 \times 1.0-2.0$ mm; soral vein ending within the sorus or extending a little beyond it, somewhat shorter than basiscopic vein, neither reaching the margin. **Sporangia** (190)–222.2–312.0–(390) µm long; indurated cells of annulus (10)–11.0–13.6–(17). **Spores** (25.0)–31.0–41.6–(50.0) µm diameter.





Bealey chasm, Arthurs pass. March. Photographer: John Smith-Dodsworth, Licence: CC BY-NC.



Bealey chasm, Arthurs pass. March. Photographer: John Smith-Dodsworth, Licence: CC BY-NC.

SIMILAR TAXA

Distinguished from the other New Zealand species of *Notogrammitis* by the combination of having a creeping rhizome, fronds distinctly stipitate, $19-57 \times 3.8-7.0$ mm, these usually bearing > 3 pairs of sori; with the sori 2.0-6.5 mm long and subglobose to oblong.

LIFE CYCLE

Minute spores are wind dispersed (Thorsen et al., 2009).

PROPAGATION TECHNIQUE

Difficult. Should not be removed from the wild.

ETYMOLOGY

notogrammitis: From the Greek noto- 'southern' and gramma 'line', referring to this new genus of southern strap ferns which were previously in Grammitis.

WHERE TO BUY

Not commercially available

TAXANOMIC NOTES

The New Zealand species of *Grammitis* along with <u>Ctenopteris heterophylla</u> and one Australian <u>Grammitis</u> (*G. garrettii*) one Lord Howe (*G. diminuta*) and one species endemic to the Moluccas and Indonesian (*G. kairatuensis*) have traditionally been placed in <u>Grammitis</u> (Parris & Given 1976; Parris 1998). However, these species (with the exception of *G. diminuta*, *G. kairatuensis* and *G. stenophylla*; B.S.Parris pers. comm. to P.J. de Lange January 2011) have now been transferred to a new genus, *Notogrammitis* Parris (Perrie & Parris 2012).

ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (25 April 2011). Description from Parris & Given (1976)

REFERENCES AND FURTHER READING

Parris BS. 1998. Grammitidaceae. *Flora of Australia 48, Ferns Gymnosperms and allied groups*: 450–468. ABRS/CSIRO Victoria, Australia.

Parris BS, Given DR. 1976. A taxonomic revision of *Grammitis* Sw. (Grammitidaceae: Filicales) in New Zealand. *New Zealand Journal of Botany* 14(1): 85–111. https://doi.org/10.1080/0028825X.1976.10428655.

Perrie LR, Parris BS. 2012. Chloroplast DNA sequences indicate the grammitid ferns (Polypodiaceae) in New Zealand belong to a single clade, *Notogrammitis* gen. nov. *New Zealand Journal of Botany* 50(4): 457–472. https://doi.org/10.1080/0028825X.2012.735247.

Thorsen MJ, Dickinson KJM, Seddon PJ. 2009. Seed dispersal systems in the New Zealand flora. *Perspectives in Plant Ecology, Evolution and Systematics* 11: 285–309. https://doi.org/10.1016/j.ppees.2009.06.001.

NZPCN FACT SHEET CITATION

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MORE INFORMATION

https://www.nzpcn.org.nz/flora/species/notogrammitis-givenii/