

Notogrammitis patagonica

COMMON NAMES

strapfern

BIOSTATUS

Native

CATEGORY

Vascular

STRUCTURAL CLASS

Ferns

DETAILED DESCRIPTION

Rupestal (rarely terrestrial) fern. **Rhizome** long-creeping, rarely short-creeping, sometimes mat-forming, especially when dwarfed; paleae ovate-lanceolate, acute or apiculate, 1.5–3.0 × 4.5–0.75 mm. **Stipes** marked, (1)–5–20 mm long; stipe hairs usually dark red-brown, rarely paler, abundant, 0.5–3.0 mm long. **Lamina** (6)–20–70–(130) × (2.0)–2.8–5–(10) mm, linear oblanceolate to linear-spathulate, acute to obtuse; lamina hairs dark red-brown, rarely paler, 0.5–3.0 mm long, absent to common on lamina apart from in sori, where always abundant; texture thinly to thickly coriaceous; veins visible to invisible, endings not darkened; midrib raised somewhat on lower surface, concolorous with or darker than lamina. **Sori** subglobose to oblong, in upper part of frond, sometimes terminal, 1–12 pairs, 1.0–4.5 × 0.5–2.0 mm, usually confluent when mature; soral vein somewhat longer than sorus, shorter than basisopic vein, neither reaching margin. **Sporangia** (230.0)–271.7–338.7–(400.0) µm long; indurated cells of annulus (10)–11.6–15.6–(21). **Spores** (30.0)–38.8–49.6–(60.0) µm diameter.

DISTRIBUTION

Indigenous. New Zealand: North Island, South Island, Chatham Islands. Also South America (Chile, Argentina)

HABITAT

Montane to alpine. On sheltered rock outcrops and cliff faces in closed forest, subalpine scrub, on talus slopes or in tussock grassland and herbfield

CURRENT CONSERVATION STATUS

2023 | Not Threatened | Qualifiers: SO

DETAILED TAXONOMY

FAMILY

Polypodiaceae

AUTHORITY

Notogrammitis patagonica (C.Chr.) Parris

SYNONYMS

Polypodium patagonicum C.Chr.; *Grammitis patagonica* (C.Chr.) Parris;
Polypodium billardierei var. *rigidum* (Hombron) Cockayne



Stipe bases. Mount Ruapehu. Photographer: Jeremy R. Rolfe, Date taken: 09/02/2012, Licence: CC BY.



Sori. Mount Ruapehu. Photographer: Jeremy R. Rolfe, Date taken: 12/02/2012, Licence: CC BY.

TAXONOMIC NOTES

The New Zealand species of *Grammitis* along with *Ctenopteris heterophylla* and one Australian *Grammitis* (*G. garrettii*), one Lord Howe (*G. diminuta*) and one species endemic to the Moluccas and Indonesia (*G. kairatuensis*) have traditionally been placed in *Grammitis* (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).

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

ECOLOGY

LIFE CYCLE AND DISPERSAL

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

PROPAGATION TECHNIQUE

Difficult. Should not be removed from the wild.

OTHER INFORMATION

ETYMOLOGY

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

patagonica: Of Patagonia, South America, from the Latin Patagonicus

NVS CODE

NOTPAT

CHROMOSOME NUMBER

2n = 74

PREVIOUS CONSERVATION STATUSES

2017 | Not Threatened | Qualifiers: SO

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

REFERENCING AND CITATIONS

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>.

ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (Updated 2 May 2011). Description from Parris & Given (1976).

NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Notogrammitis patagonica* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network.

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

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/notogrammitis-patagonica/>

PDF DATE

13 October 2024