

# Notogrammitis patagonica

## COMMON NAME

strapfern

## SYNONYMS

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

## FAMILY

Polypodiaceae

## AUTHORITY

*Notogrammitis patagonica* (C.Chr.) Parris

## FLORA CATEGORY

Vascular – Native

## ENDEMIC TAXON

No

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Ferns

## NVS CODE

NOTPAT

## CHROMOSOME NUMBER

$2n = 74$

## CURRENT CONSERVATION STATUS

2017 | Not Threatened | Qualifiers: SO

## PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

## 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



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



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

## 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 basiscopic 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.

## 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*.

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

## WHERE TO BUY

Not commercially available

## TAXANOMIC 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).

## ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (Updated 2 May 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

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/>