

Hyophila involuta

COMMON NAME

Moss

FAMILY

Pottiaceae

AUTHORITY

Hyophila involuta (Hook.) A. Jaeger

FLORA CATEGORY

Non-vascular – Native

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Mosses

CURRENT CONSERVATION STATUS

2009 | Data Deficient | Qualifiers: OL, SO

DISTRIBUTION

Indigenous. Kermadec Islands (Raoul Island). Widespread throughout the tropical islands of the Pacific Ocean, Central and northern South America, U.S.A., China, Indochina, Nepal, India, Africa, Indonesia, Malaysia, and New Guinea.

HABITAT

Known from one gathering made in May 2009 from a rotting log lying at the base of a steep, flood prone ravine on Raoul island.

DETAILED DESCRIPTION

Tufted, dark green moss, tufts dark green above, reddish below. Stems erect, 1.0-1.5 mm tall, radiculose below, uniformly foliate. Leaves contorted when dry, widely spreading when moist, up to 3 x 1 mm, oblong-lanceolate, concave, from a clasping base, blunt at apex; margins strongly involute when dry, erect or lightly inflexed when moist, denticulate toward apex; costa strong, tapering, smooth, percurrent, upper cells rounded, slightly incrassate, lightly papillose, basal cells rectangular, pellucid, shorter and subquadrate toward margins. Seta 10-15 mm tall, red below, paler above, capsule cylindric, erect or slightly curved, urn 2-3 mm long; peristome none; annulus of one row of cells; lid conic-rostrate, 0.8 mm long; calyptra cucullate, extending nearly to base of urn, spirally twisted; spores smooth 7-10 µm diameter (n/b fruiting material not seen in Kermadec material).

FRUITING

Fruiting material not known from New Zealand

THREATS

Hyophila involuta was collected from Raoul Island, Ravine Eight in May 2009. At the time it was collected the gathering was part of a much larger sampling of a range of mosses and liverworts growing on a rotting log. Since then Raoul Island has been seriously damaged by Cyclone Bune (struck Raoul on March 28 2011) and many of the ravine systems, including Ravine Eight have been seriously damaged by flooding. During the May 2011 Kermadec Biodiscovery Expedition Ravine Eight was not surveyed, and the species was not present on other moss gatherings made from elsewhere on the island so the status of *Hyophila involuta* remains uncertain. For this reason it is recommended it be listed as "Data Deficient".



ATTRIBUTION

Fact Sheet Prepared for NZPCN by: P.J. de Lange 1 July 2011. Description from Bartram (1939).

REFERENCES AND FURTHER READING

Bartram, E.D. 1939: Mosses of the Philippines. *The Philippine Journal of Science* 68: 1-437.

NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Hyophila involuta* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network. <https://www.nzpcn.org.nz/flora/species/hyophila-involuta/> (Date website was queried)

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/hyophila-involuta/>