

Distichophyllum fasciculatum, Mitt. (Pl. LIII.)

Distichophyllum fasciculatum, Mitt. in Journ. Linn. Soc. Lond., xv. p. 71.

Monoicum. Caulis debilis, erectus, fasciculatim ramosus, ruber. Folia compressa, caulina omnia conformia, lateralia patentia, oblongo-ovalia, obtusa, apiculo brevissimo sæpius obsolete terminata, planiuscula, nervo tenui ultra medium evanido, triplici serie cellularum angustissimarum marginata, integerrima, cellulis hexagonis limpidis areolata; perichætialia erecta, interna late ovalia, convoluta, apice acuta, subserrulata, immarginata, enervia. Theca in pedunculo elongato rubro lævi erecta, ovalis, collo sensim angustato.

Caulis uncialis biuncialisve cum foliis lineam latus. Folia pallide stramineo-fusca, sicca vix compressa marginibus flexuosis. Pedunculus unciam brevior.

Like *Distichophyllum sinuosum*, but with cells twice as large and an erect capsule.

MARION ISLAND.—Growing in a tufted manner intermixed with *Jungermannia colorata*—Moseley.

This species agrees very nearly with *Distichophyllum amblyophyllum*, Mitt. (*Hookeria*, Hook. f. et Wils.), from New Zealand, but differs in the presence of a minute apiculus to its leaves, which have also a shorter nerve, and its capsule is nearly erect and not pendulous. It resembles also *Distichophyllum sinuosum* (*Hookeria*, Hook. f. et Wils.) from Tasmania. *Distichophyllum krausii* (Lorentz, *Mniadelphus*) from Chili, has a longer nerve and no apiculus; all these species are very similar in size and in the colour of their foliage, and with *Distichophyllum microcarpum* (*Hookeria*, Hook. f. et Wils.) of New Zealand, form a small group of species agreeing in the rounded apices of their leaves, and in having their capsules supported on a smooth fruit-stalk.

Distichophyllum imbricatum, Mitt. (Pl. LIII.)

Distichophyllum imbricatum, Mitt. in Journ. Linn. Soc. Lond., xv. p. 71.

Caulis rubro-fuscus, fasciculatim ramosus, erectus. Folia concava, fere teretiuscule imbricata, ad ramorum apices in gemmam subacutam congesta, ovali-oblonga, acuta, apiculo parvo terminata, duplice serie cellularum angustissimarum marginata, nervo angusto ultra medium evanescente, cellulis limpidis hexagonis areolata.

Caulis semiuncialis cum foliis vix compressis lineam latus.

Similar to *Distichophyllum flaccidum*, but with acute leaves which at the apices of the stems are imbricated in a cuspidate manner.

MARION ISLAND.—In a scattered manner amongst *Gottschea carnosae*—Moseley.

In the specimens of this moss the stems have leaves imbricated equally on all sides, but they are too scanty to show whether this be a constant character. The outline of the leaves is nearly that of *Distichophyllum zollingeri*, Bry. Jav., and of *Distichophyllum adnatum*, Mitt. (Fl. N. Zeal., t. 93, 94); they are of a dull brownish green, with their cells very iridescent.