

MEDDELELSER OM GRØNLAND

UDGIVNE AF

KOMMISSIONEN FOR VIDENSKABELIGE UNDERSØGELSER I GRØNLAND

Bd. 128 · Nr. 3

---

DANSK NORDØSTGRØNLANDS EKSPEDITION 1938-39

UDSENDT AF: ALF TROLLE, EBBE MUNCK OG EIGIL KNUTH TIL MINDE OM  
DANMARK-EKSPEDITIONEN

LEADERS: EBBE MUNCK AND EIGIL KNUTH

---

MOSSES FROM  
NORTH-EAST GREENLAND (LAT. 77° N.)

DETERMINED BY

AUG. HESSELBO

KØBENHAVN

C. A. REITZELS FORLAG

BIANCO LUNOS BOGTRYKKERI

1948



The great majority of the mosses discussed below were collected by Dr. PAUL GELTING on Rypefjeld, in Mørkefjord, in lat. 77° N. in the course of the Dansk Nord-Øst Grønlands Ekspedition 1938—39, though one moss sample came from Wollaston Forland (*Dicranium elongatum*) in lat. 74° N. The vegetation samples from Rypefjeld were solely circling-samples, each consisting of ten plots of soil measuring 0.01 m<sup>2</sup> with the vegetation growing upon it.

The mosses, especially where the samples came from dry soil, were small and poorly developed, often overgrown by lichens and algae and therefore difficult to identify. Hepaticae were mostly very sparse except for *Cephaloziella* species, which in numerous samples together with lichens and algae formed blackish-brown crusts on the gravelly ground. *Odontoschisma Macouni* and *Blepharostoma trichophyllum* are also among the common species.

Of particular interest among the *Bryales* are *Campylopus subulatus* and *Bryoxiphium norvegicum*. Hitherto the genus *Campylopus* has not been encountered in arctic regions, its European species all belonging to the Atlantic region with its northern limit in Iceland. The northern boundary hitherto for *C. subulatus* has been in West Norway in lat. 62°31', its principal range being Western Europe. On Rypefjeld it was collected from several localities, where it was growing either singly or in small groups on fairly dry soil together with *Polytrichum piliferum*, *Anoetangium aestivum*, *Ditrichum flexicaule*, *Distichium capillaceum* and *Cephaloziella* sp. *Bryoxiphium norvegicum* seems to have a wide range in Northeast Greenland, especially on dry lichen heath, where it grows either individually or in the form of fairly large patches, often thickly encrusted with lichens.

The localities: Rypefjeld, the Eskimo settlement, Mørkefjord and Hvalrosodden are all situated in the inner reaches of Dove Bugt in lat. 77° N., long. 21° W.

Sandodden on Wollaston Foreland lies in lat. 74°18' N., long. 20°10' W.

For the liverworts the nomenclature is in accordance with KARL MÜLLER: Die Lebermoose in Rabenhorst Kryptogamenflora Zweite Auflage, Sechster Band Leipzig 1906—41; for the foliaceous mosses: C. JENSEN: Skandinavisk Bladmossflora, København 1939.

## HEPATICAE

*Gymnomitium corallioides* NEES.

Gefions Havn, sterile.

*Haplozia atrovirens* (SCHLEICHER) DUM.

Rypefjeld.

Found only as solitary, sterile plants interwoven in tussocks of other mosses.

*Sphenobolus minutus* (CRANTZ) STEPHANI.

Rypefjeld, sterile.

Sparsely interwoven in tussocks of other mosses.

*Lophozia quinquedentata* (HUDS) COGNIAUX var. *tenera* C. JENSEN.

Rypefjeld; Gefions Havn. Found sterile exclusively.

*Lophozia quadriloba* (LINDB.) EVANS f. *heterophylla* BRYHN et KAALAAS.

Rypefjeld, sterile.

*Lophozia ventricosa* (DICKS) DUMORTIER.

Rypefjeld, sterile.

*Lophozia alpestris* (SCHLEICH) EVANS.

Rypefjeld, sterile.

*Lophozia Wenzeli* (NEES) STEPHANI.

Rypefjeld, sterile.

*Plagiochila asplenioides* (L.) DUMORTIER.

Rypefjeld, sterile.

*Cephalozia pleniceps* (AUST.).

Rypefjeld, sterile.

*Cephaloziella Hampeana* (NEES) SCHIFFNER.

Rypefjeld, sterile.

*Cephaloziella* sp

Species of the genus *Cephaloziella* are among the most common mosses in the region examined and were collected from almost all localities. Sometimes they form large, brownish or nearly black coverings on the ground, or they grow interwoven in the tussocks of other mosses. Identification has been a matter of much difficulty, the plants always being sterile and as a rule overgrown by algae, making the picking out of the individual plants and the microscopic examination very difficult, it often being impossible to decide, whether, for instance, there are amphigastria or not.

Nevertheless, there is no doubt that most of the plants examined may be placed to *Cephaloziella Starckeii* (FUNCK) SCHIFFNER (*C. divaricata* (FRANCIS)), though in all probability a number belong to *C. arctica* BRYHN and perhaps to *C. rubella* (NEES) and *C. striatula* C. J.

*Odontoschisma Macouni* (AUST.) UNDERWOOD.

Rypefjeld and the Eskimo settlement there.

Often growing in abundance in extensive, whitish-green tussocks on moist soil; found sterile exclusively.

*Blepharostoma trichophyllum* (L.) DUM.

Rypefjeld.

Frequent, and often abundantly interwoven in tussocks of other mosses, always sterile.

*Anthelia Juratzkana* (LIMPR.) TREVISAN.

Rypefjeld, several localities, sterile.

*Scapania mucronata* H. BUCH.

Rypefjeld, several localities, but always very sparse and sterile.

*Blepharozia ciliaris* (L.) DUMORTIER.

Rypefjeld, sterile.

### BRYALES

*Polytrichum alpinum* HEDW. var. *septentrionale* LINDB.

Rypefjeld, many localities.

Everywhere the plant grows sporadically in tussocks of other mosses. It is usually low, 1 to 2 cm, though sometimes up to 5 cm high. The leaves are 4—5 mm long, in the dry state erect, in wet more or less patent, the edge entire or with very indistinct dentations in the upper part. Lamellae 22—26. Found sterile exclusively.

*Polytrichum juniperinum* HEDW.

Rypefjeld, many localities, the Eskimo settlement there. Found sterile only.

*Polytrichum strictum* SM.

Rypefjeld, sterile and sparse.

*Polytrichum piliferum* HEDW.

Rypefjeld, sterile.

*Psilopilum cavifolium* (WILS.) HAGEN.

Rypefjeld, sparsely mixed in tussocks of other mosses.

*Timmia austriaca* HEDW.

Rypefjeld, few plants among other mosses. Sterile.

*Timmia norvegica* ZETT.

Rypefjeld, sterile.

*Philonotis tomentella* MOL.

Rypefjeld in several localities, but generally rather sparse; found sterile exclusively.

*Bartramia ityphylla* BRID.

Rypefjeld, Gefions Havn.

Growing in tussocks of other mosses or in extensive tussocks on the ground. Found sterile exclusively; some of the specimens are of var. *strigosa* (WBG.) HARTM.

*Catocopium nigratum* (HEDW.) BRID.

Rypefjeld, sterile.

*Aulacomnium palustre* (HEDW.) SCHWAEGR.

Hvalrosodden, Mørkefjord, and Eskimo settlement there; Gefions Havn. Sterile.

*Aulacomnium turgidum* (WBG.) SCHWAEGR.

Rypefjeld, abundant in several localities; Mørkefjord. Found sterile only.

*Minium rugicum* Laur.

Rypefjeld, sterile.

*Mnium orthorrhynchum* BR. eur.

Rypefjeld, solitary plants among other mosses.

*Mnium hymenophyllum* BR. eur.

Rypefjeld, solitary plants among other mosses. Sterile.

*Cinclidium subrotundum* LINDB.

Rypefjeld, abundant among other swamp mosses. Sterile.

*Bryum pseudotriquetrum* (HEDW.) SCHWAEGR.

Eskimo settlement on Rypefjeld; Gefions Havn. Sterile.

*Bryum pseudotriquetrum* (HEDW.) SCHWAEGR., subsp. *crispulum* HAMPE.

Rypefjeld, several localities.

One of the most common mosses, often forming the main mass of the moss carpet; ♀ plants frequent, ♂ and fruit not found in the region.

*Bryum Culmannii* LIMPR.

Rypefjeld, c. fr.

*Bryum pendulum* (HORNSCH.) SCHIMP.

Rypefjeld in many localities.

Common and often abundant and fruit-bearing; the specimens

examined correspond most nearly to var. *compactum* (HORNSCH.) SCHIMPER, but the lamellae in most cases are connected by transversal walls.

*Bryum obtusifolium* LINDB.

Gefions Havn, sterile.

*Bryum archangelicum* BR. et SCH.

Rypefjeld, c. fr.

*Bryum rutilans* BRID.

Rypefjeld, sterile.

*Webera nutans* HEDW.

Rypefjeld, sterile, Eskimo settlement (var. *sphagnetorum* SCHPR.).

*Webera cruda* (HEDW.) BRUCH.

Rypefjeld, several localities, found sterile exclusively and usually sparse.

*Webera commutata* SCHIMP.

Rypefjeld, sterile.

*Anomobryum concinnatum* (SPRUCE.) LINDB.

Rypefjeld; sparse and sterile among other mosses.

*Encalypta rhabdocarpa* SCHWAEGR.

Rypefjeld c. fr.; Mørkefjord c. fr.

*Encalypta alpina* SM.

Rypefjeld, many localities.

Common and often abundant in the samples.

*Tortella tortuosa* (HEDW.) LIMPR.

Rypefjeld in many localities.

Frequent and often abundant in the samples.

*Anoetangium aestivum* (HEDW.) MITTEN.

Rypefjeld.

One of the most common species on both dry and rather wet soil, often in extensive yellowish-green cushions 1—2 cm high, but always sterile.

*Barbula botelligera* MÖNKEMEYER.

Rypefjeld. Mørkefjord.

Everywhere very sparse, often as solitary, sterile plants.

*Rhacomitrium canescens* (HEDW.) BRID.

Rypefjeld, very sparse.

*Grimmia elongata* KAULF. f. *epilosa* BR. eur.

Sandodden, in cushions 3—4 cm high on wet gravelly soil.

*Schistidium apocarpum* (HEDW.) BR. eur.

Rypefjeld, sterile; Mørkefjord c. fr.

The plant from Mørkefjord forms a transition to var. *gracile* (SCHLEICH.), which it resembles as to habitus, lack of Central-Strand and the size of the spores (0.010—0.015 mm), but the dorsal nerve is not papillose.

*Dicranum elongatum* SCHLEICH.

Wollaston Forland: Sandodden. Sterile.

*Dicranum glaciale* BERGG.

Rypefjeld in one locality, in large numbers and acting as the main species in the moss covering. Sterile.

*Dichodontium pellucidum* (HEDW.) SCHIMP.

Rypefjeld, sterile.

*Oncophorus virens* (HEDW.) BRID.

Rypefjeld, sterile.

*Oncophorus Wahlenbergii* BRID.

Rypefjeld, numerous localities.

Common and often abundant in the samples. Found sterile only.

*Amphidium Mougeotii* (BR. et SCH.) SCHIMP.

Rypefjeld, sterile.

\**Campylopus subulatus* MILDE.

Rypefjeld.

*Campylopus subulatus* was found in many of the samples, but always very scantily and mostly as solitary plants among other mosses. The species has its range in Western Europe (Great Britain, France, Norway, Sweden and some places in Central Europe). The northern limit hitherto lay in West Norway in lat. 62°31' N.

*Ceratodon purpureus* (HEDW.) BRID.

Rypefjeld in several localities; the Eskimo settlement (var. *obtusifolius* LIMPR.). Usually growing thinly among other mosses. At the Eskimo settlement it was growing in large, deep cushions on soil containing manure. Found sterile exclusively.

*Saelania glaucescens* (HEDW.) BROTH.

Rypefjeld, a few plants among other mosses.

*Distichium capillaceum* (HEDW.) BR. eur.

Rypefjeld in numerous localities; Mørkefjord.

One of the most common mosses, found in almost all the samples, often richly fruiting.

*Ditrichum flexicaule* (SCHLEICH.) HAMPE.

Rypefjeld, found in almost all the moss samples.

Very common and often abundant, but always sterile.

*Bryoxiphium norvegicum* (BRID.) MITTEN.

Rypefjeld in several localities.

The species seems to be very widespread in the region, where on dry gravelly soil it sometimes forms large continuous vegetations about 2 cm high, which are often thickly overgrown by lichens.

*Fissidens osmundoides* HEDW.

Rypefjeld, very scanty and sterile among other mosses.

*Myurella julacea* (HEDW.) BR. et SCH.

Rypefjeld in numerous localities, the Eskimo settlement.

Very common, but often only sparse, interwoven in tussocks of other mosses.

*Myurella tenerrima* (BRID.) LINDB.

Rypefjeld, several localities, thinly interwoven in tussocks of other mosses.

*Brachythecium albicans* (HEDW.) BR. et SCH.

Rypefjeld's Eskimo settlement (var. *Groenlandicum* (C. J.)), sparse in a tussock of *Ceratodon purpureus*.

*Amblystegiella Sprucei* (BRUCH) BR. eur.

Rypefjeld, sparingly among other mosses.

*Isopterygium pulchellum* (HEDW.) BROTH.

Rypefjeld in several localities, var. *nitidulum* (WBG.) BROTH., and the Eskimo settlement.

Widespread, but always scanty in tussocks of other mosses.

*Hypnum hamulosum* BR. et SCH.

Rypefjeld, sterile.

*Hypnum revolutum* BR. et SCH.

Rypefjeld, sterile.

*Orthothecium chryseum* (SCHWAEGR.) BR. et SCH.

Rypefjeld; Eskimo settlement.

*Orthothecium intricatum* (HN.) BR. et SCH.

Rypefjeld, very sparse among other mosses.

*Orthothecium strictum* LOR.

Rypefjeld.

*Calliargon turgescens* (TH. JENS.) LINDB.

Rypefjeld in large, deep cushions together with *Bryum crispulum* etc.

*Calliergon sarmentosum* (WBG.) LINDB.  
Rypefjeld; Gefions Havn.

*Drepanocladus revolvens* (SM.) WARNST.  
Rypefjeld, Eskimo settlement; Gefions Havn.  
Fruits occur now and then.

*Drepanocladus brevifolius* (LINDB.).  
Rypefjeld, sterile.

*Drepanocladus uncinatus* (HEDW.) WARNST.  
Rypefjeld and Eskimo settlement, sterile.

*Cratoneurum filicinum* (HEDW.)  
Rypefjeld, sterile.

*Campylium stellatum* (HEDW.) J. LANGE et C. JENSEN.  
Rypefjeld in several localities, and Eskimo settlement.  
Generally scanty among other mosses. Sterile.

*Campylium polygamum* (BR. et SCH.) J. LANGE et C. JENSEN.  
Rypefjeld, very scanty among other mosses, found sterile only.