

A list of Icelandic bryophyte species

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# A LIST OF ICELANDIC BRYOPHYTE SPECIES

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**Abstract.** The present list includes a listing of the orders, families, genera and species of bryophytes known from Iceland. A total of 562 species are recognized. The catalog includes a systematic arrangement of orders, families, genera and species, an alphabetic arrangement of genera and species, a list of synonyms and excluded species and an orientation list correlating the main list to the most widely used floras.



## I INTRODUCTION

This list is mainly based on investigations and redeterminations of specimens at the Icelandic Museum of Natural History in Reykjavík collected prior to 1950 and on the author's additional collection since 1960. Specimens in other Icelandic herbaria have also been determined. A great amount of collected material is still waiting determination and thus additions to the list are to be expected in the near future.

The most important contribution to the knowledge of the bryophyte flora of Iceland is that of Hesselbo (1918), which is still the basic work on Icelandic bryophytes. Since then several new species have been added to the known Icelandic bryophyte flora and corrections of older records have been published. These records are widely scattered through the literature. Hesselbo's list has inevitably become outdated long ago. It is therefore urgent to publish such a list although it may be incomplete in some respect.

The main list (II) is in a systematic order. It contains 562 species. Taxa below the rank of species are not included. All species without a sign in front of their names (515 species) are represented by specimens kept at the bryophyte herbarium of the Museum in Reykjavík and have been collected since 1950. Species with + in front of their names (7 species) are represented only by specimens collected before 1950. Species with ? in front of their names (40 species) are not represented in Icelandic herbaria, but have been recorded from Iceland. The question mark indicates that the author has not seen any Icelandic specimens belonging to that species, but does not necessarily mean that the author doubts their existence. The author is also well aware that some reliable records may have escaped his attention. Therefore the list is probably incomplete.

The arrangement and nomenclature follows Corley et al. (1981), Düll (1983) and Grolle (1976). The *Racomitrium canescens* group, however, follows Frisvoll

(1983). In the following instances the species concept is used in a broader sense than by the previously mentioned authors:

*Anthelia julacea* includes *A. juratzkana* (Limpr.) Trev.  
*Brachythecium albicans* includes *B. groenlandicum* (C. Jens.) Schljak.

*Cephalozia bicuspidata* includes *C. ambigua* Mass. and *C. lammersiana* Hueb.) Carring.

*Chiloscyphus polyanthos* includes *C. pallescens* (Hoffm.) Dum.

*Didymodon vinealis* includes *D. insulanus* (DeNot.) M. Hill

*Lophozia ventricosa* includes *L. silvicola* Buch and *L. longiflora* (Nees) Schiffn.

*Phaeoceros laevis* includes *P. carolinianus* (Michx.) Prosk.

*Pleurocladula albescens* includes *P. islandica* (Nees) Grolle

*Racomitrium sudeticum* possibly includes forms referable to *R. affine* (Web. & Mohr) Lindb., but I see no reason to divide the Icelandic material into two species at least until this complex has been better studied.

*Radula complanata* includes *R. lindenberghiana* C. Hartm.

The species in the alphabetic list (III) are identical with those on the systematic one.

The list of synonyms (IV) is compiled from literature dealing with Icelandic bryophytes, from Hesselbo (1918) and onwards. Intraspecific taxa are only listed in a few instances.

The most widely used bryophyte floras in Iceland are those of Arnell (1956), Nyholm (1954–1969) and Smith (1978). With their help almost all Icelandic bryophytes can be determined. It was therefore found advisable to provide a list that would facilitate students to correlate names of the present list to these floras (V).

## II SYSTEMATIC LIST

### ANTHOCEROTALES

#### ANTHOCEROTACEAE Dum.

*Phaeoceros* Prosk.

*laevis* (L.) Prosk.

### MARCHANTIALES

#### AYTONIACEAE Cavers

*Reboulia* Raddi

*hemisphaerica* (L.) Raddi

*Asterella* P. Beauv.

*gracilis* (F. Web.) Underw.

#### CONOCEPHALACEAE K. Muell.

*Conocephalum* Wiggers

*conicum* (L.) Lindb.

#### CLEVEACEAE Cavers

*Peltolepis* Lindb.

*quadrata* (Sauter) K. Muell.

- Sauteria* Nees  
*alpina* (Nees) Nees
- MARCHANTIACEAE (Bisch.) Lindley  
*Preissia* Corda  
*quadrata* (Scop.) Nees  
*Marchantia* L.  
*polymorpha* L.  
*alpestris* (Nees) Burgeff
- RICCIACEAE Reichenb.  
*Riccia* L.  
*cavernosa* Hoffm.  
*sorocarpa* Bisch.  
*beyrichiana* Lehm.  
? *bifurca* Hoffm. (Paton 1980)
- METZGERIALES**  
METZGERIACEAE Klinggr.  
*Metzgeria* Raddi  
*furcata* (L.) Dum.
- ANEURACEAE Klinggr.  
*Aneura* Dum.  
*pinguis* (L.) Dum.  
*Riccardia* S. Gray  
? *incurvata* Lindb. (Inoue & Steere 1981)  
*chamaedryfolia* (With.) Grolle  
*latifrons* (Lindb.) Lindb.  
*multifida* (L.) S. Gray
- PELLIACEAE Klinggr.  
*Pellia* Raddi  
*neesiana* (Gott.) Limpr.  
*endiviifolia* (Dicks.) Dum.
- PALLAVICINIACEAE Migula  
*Moerckia* Gott.  
*blyttii* (Moerch) Brockm.
- BLASIACEAE Klinggr.  
*Blasia* L.  
*pusilla* L.
- CODONIACEAE Klinggr.  
*Fossombronia* Raddi  
*foveolata* Lindb.  
*wondraczekii* (Corda) Lindb.
- CALOBRYALES**  
HAPLOMITRIACEAE Dedecek  
*Haplomitrium*, Nees  
*hookeri* (Sm.) Nees
- JUNGERMANNIALES**  
JUNGERMANNIACEAE Reichenb.  
*Chandonanthus* Mitt.  
*setiformis* (Ehrh.) Lindb.  
*Barbilophozia* Loeske  
*quadriloba* (Lindb.) Loeske  
*floerkei* (Web. & Mohr) Loeske  
*kunzeana* (Hueb.) K. Muell.  
? *binsteadii* (Kaal.) Loeske (Inoue & Steere 1981)  
? *atlantica* (Kaal. K. Muell. (Inoue & Steere 1981)  
*hatcheri* (Evans) Loeske  
*lycopodioides* (Wallr.) Loeske  
*barbata* (Schreb.) Loeske  
*Lophozia* (Dum.) Dum.  
*ventricosa* (Dicks.) Dum.  
*wenzelii* (Nees) Steph.  
*sudetica* (Nees) Grolle  
*longidens* (Lindb.) Macoun  
? *elongata* Steph. (Inoue & Steere 1981)  
*excisa* (Dicks.) Dum.  
*obtusa* (Lindb.) Evans  
? *laxa* (Lindb.) Grolle (Dierssen 1973)  
*opacifolia* Culm.  
*grandiretis* (Kaal.) Schiffn.  
*bicrenata* (Hoffm.) Dum.  
*rutheana* (Limpr.) Howe  
*gillmanii* (Aust.) Schust.  
? *bantriensis* (Hook.) Steph. (Dierssen 1973)  
*collaris* (Nees) Dum.  
*heterocolpos* (Thed.) Howe  
*Gymnocolea* (Dum.) Dum.  
*inflata* (Huds.) Dum.  
*Sphenolobus* (Lindb.) Berggr.  
*minutus* (Schreb.) Berggr.  
*Anastrophyllum* (Spruce) Steph.  
+ *saxicola* (Schrad.) Schust.  
*Tritomaria* Loeske  
*scitula* (Tayl.) Joerg.  
*quinquedentata* (Huds.) Buch  
*polita* (Nees) Joerg.  
*Jamesoniella* (Spruce) Carring.  
? *autumnalis* (DC.) Steph. (Hesselbo 1918)  
*Mylia* S. Gray  
? *anomala* (Hook.) S. Gray (Dierssen 1973)  
*Jungermannia* L.  
*atrovirens* Dum.  
*pumila* With.  
*polaris* Lindb.  
*borealis* Damsh. & Vana  
*exsertifolia* Steph.  
*confertissima* Nees  
*sphaerocarpa* Hook.  
? *jenseniana* Grolle (Inoue & Steere 1981)  
*caespiticia* Lindenb.  
*gracillima* Sm.  
*hyalina* Lyell  
*obovata* Nees  
*subelliptica* (Kaal.) Lev.  
*Nardia* S. Gray  
? *compressa* (Hook.) S. Gray (Meylan 1940)  
*scalaris* S. Gray  
*geoscyphus* (DeNot.) Lindb.  
*insecta* Lindb.  
*breidleri* (Limpr.) Lindb.

## GYMNOMITRIACEAE Klinggr.

*Marsupella* Dum.*emarginata* (Ehrh.) Dum.? *sphacelata* (Gieseke) Dum. (Meylan 1940)*funkii* (Web. & Mohr) Dum.*sprucei* (Limpr.) H. Bernet*condensata* (C. Hartm.) Kaal.*brevissima* (Dum.) Grolle? *revoluta* (Nees) Dum. (Hesselbo 1918)*Gymnomitrium* Corda*concinatum* (Lightf.) Corda*coralloides* Nees*apiculatum* (Schiffn.) K. Muell.

## PLAGIOCHILACEAE (Joerg.) K. Muell.

*Plagiochila* (Dum.) Dum.*arctica* Bryhn & Kaal.*porelloides* (Nees) Lindenb.

## LOPHOCOLEACEAE (Joerg.) Vand. Bergh.

*Lophocolea* (Dum.) Dum.*bidentata* (L.) Dum.*minor* Nees*Chiloscyphus* Corda*polyanthos* (L.) Corda

## GEOCALYCACEAE Klinggr.

*Harpanthus* Nees*flotvianus* (Nees) Nees? *scutatus* (Web. & Mohr) Spruce (Inoue & Steere 1981)

## SCAPANIACEAE Migula

*Diplophyllum* (Dum.) Dum.*albicans* (L.) Dum.*taxifolium* (Wahlenb.) Dum.*Scapania* (Dum.) Dum.*obcordata* (Berggr.) S. Arn.*gymnostomophila* Kaal.*calvicola* (H. Arn. & J. Perss.) Ingham*cuspiduligera* (Nees) K. Muell.? *parvifolia* Warnst. (Inoue & Steere 1981)*curta* (Mart.) Dum.*scandica* (H. Arn. & Buch) Macv.*praetervisa* Meyl.*lingulata* Buch*irrigua* (Nees) Nees*degenii* Schiffn.*hyperborea* Joerg.*paludicola* Loeske & K. Muell.*undulata* (L.) Dum.*subalpina* (Nees) Dum.*paludosa* (K. Muell.) K. Muell.*uliginosa* (Lindenb.) Dum.? *obscura* (H. Arn. & C. Jens.) Schiffn. (Inoue & Steere 1981)*sphagni* (Dicks.) Dum.*macounii* (Aust.) Underw.*elongatum* (Lindb.) Evans

## CEPHALOZIACEAE Douin

*Cephaloziella* (Spruce) Schiffn.*spinigera* (Lindb.) Joerg.*divaricata* (Sm.) Schiffn.*arctica* Bryhn & Douin*hampeana* (Nees) Schiffn.*rubella* (Nees) Warnst.

## CEPHALOZIACEAE Migula

*Cephalozia* (Dum.) Dum.*bicuspidata* (L.) Dum.? *macounii* (Aust.) Aust. (Inoue & Steere 1981)? *lunulifolia* (Dum.) Dum. (Inoue & Steere 1981)*pleniceps* (Aust.) Lindb.*Cladopodiella* Buch*francisci* (Hook.) Joerg.*Pleurocladula* Grolle*albescens* (Hook.) Grolle*Hygrobiiella* Spruce*laxifolia* (Hook.) Spruce

## ANTHELIACEAE Schust.

*Anthelia* (Dum.) Dum.*julacea* (L.) Dum.

## LEPIDOZIACEAE Limpr.

*Kurzia* v. Martens+ *pauciflora* (Dicks.) Grolle.

## CALYPOGEIACEAE (K. Muell.) H. Arn.

*Calypogeia* Raddi? *integrastipula* Steph. (Inoue & Steere 1981)*fissa* (L.) Raddi*muellerana* (Schiffn.) K. Muell.*sphagnicola* (H. Arn. & J. Perss.) Warnst. & Loeske

## PSEUDOLEPICOLEACEAE Fulf. &amp; J. Tayl.

*Blepharostoma* (Dum.) Dum.*trichophyllum* (L.) Dum.

## PTILIDIACEAE Klinggr.

*Ptilidium* Nees*ciliare* (L.) Hampe? *pulcherrimum* (G. Web.) Vainio (Meylan 1940)

## HERBERTACEAE K. Muell.

*Herbertus* S. Gray*stramineus* (Dum.) Trev.

## RADULACEAE (Dum.) K. Muell.

*Radula* Dum.*complanata* (L.) Dum.

## ADELANTHACEAE (Joerg.) Grolle

*Odontoschisma* (Dum.) Dum.

## PORELLACEAE Cavers

*Porella* L.*cordaeana* (Hueb.) Moore? *platyphylla* (L.) Pfeiff. (Inoue & Steere 1981)

## JUBULACEAE Klinggr.

*Frullania* Raddi*tamarisci* (L.) Dum.*fragilifolia* (Tayl.) Gott. et al.*dilatata* (L.) Dum.

## LEJEUNEACEAE Cas. - Gil

*Lejeunea* Libert*cavifolia* (Ehrh.) Lindb.

## SPHAGNALES

## SPHAGNACEAE Dum.

*Sphagnum* L.*imbricatum* Russ.*papillosum* Lindb.*palustre* L.*centrale* C. Jens.*magellanicum* Brid.*squarrosum* Crome*teres* (Schimp.) Aongstr.*fimbriatum* Wils.*girgensohnii* Russ.*russowii* Warnst.? *quinquefarium* (Braithw.) Warnst. (Schwabe 1936)*warnstorffii* Russ.*capillifolium* (Ehrh.) Hedw.*subnitens* Russ. & Warnst.*strictum* Sull.*compactum* Lam. & DC.*platyphyllum* (Braithw.) Warnst.*lescurii* Sull.*subsecundum* Nees*contortum* K. F. Schultz*tenellum* (Brid.) Bory*balticum* (Russ.) C. Jens.*fallax* (Klinggr.) Klinggr.*angustifolium* (Russ.) C. Jens.*flexuosum* Dozy & Molk.*obtusum* Warnst.*riparium* Aongstr.*lindbergii* Lindb.

## ANDREAEALES

## ANDREAEACEAE Dum.

*Andreaea* Hedw.*rupestris* Hedw.*blyttii* Schimp.

## POLYTRICHALES

## POLYTRICHACEAE Schwaegr.

*Pogonatum* P. Beauv.*nanum* (Hedw.) P. Beauv.*dentatum* (Brid.) Brid.*urnigerum* (Hedw.) P. Beauv.*Polytrichum* Hedw.*alpinum* Hedw.*longisetum* Brid.*formosum* Hedw.*sexangulare* Brid.*commune* Hedw.*piliferum* Hedw.*hyperboreum* R. Brown*juniperinum* Hedw.*strictum* Brid.*Oligotrichum* Lam. & DC.*hercynicum* (Hedw.) Lam. & DC.*Psilopilum* Brid.*laevigatum* (Wahlenb.) Lindb.*cavifolium* (Wils.) I. Hag.*Atrichum* P. Beauv.*tenellum* (Roehl.) B. & S.*undulatum* (Hedw.) P. Beauv.*angustatum* (Brid.) B. & S.

## BUXBAUMIALES

## BUXBAUMIACEAE Schwaegr.

*Diphyscium* Mohr*foliosum* (Hedw.) Mohr

## ARCHIDIALES

## ARCHIDIACEAE Schimp.

*Archidium* Brid.*alternifolium* (Hedw.) Schimp.

## FISSIDENTALES

## FISSIDENTACEAE Schimp.

*Fissidens* Hedw.*bryoides* Hedw.*pusillus* (Wils.) Milde*osmundoides* Hedw.*cristatus* Mitt.*adianthoides* Hedw.

## DICRANALES

## DICRANACEAE Schimp.

*Dicranum* Hedw.*bonjeanii* DeNot.*scoparium* Hedw.*angustum* Lindb.*majus* Sm.? *affine* Funck (Dierssen 1973)*acutifolium* (Lindb. & H. Arn.) Weim.*congestum* Brid.*fuscescens* Sm.*elongatum* Schwaegr.*tauricum* Sap.*Kiaeria* I. Hag.*falcata* (Hedw.) I. Hag.*blyttii* (B., S. & G.) Broth.*starkei* (Web. & Mohr) I. Hag.*glacialis* (Berggr.) I. Hag.*Arctoa* B., S. & G.*anderssonii* Wich.*fulvella* (Dicks.) B., S. & G.



*Dicranoweisia* Milde  
*crispula* (Hedw.) Milde  
*Campylopus* Brid.  
*schimperi* Milde  
*pyriformis* (K. F. Schultz) Brid.  
*flexuosus* (Hedw.) Brid.  
*Dicranella* C. Muell.) Schimp.  
*palustris* (Dicks.) E. Warb.  
*schreberana* (Hedw.) Dix.  
*grevilleana* (Brid.) Schimp.  
*crispa* (Hedw.) Schimp.  
*subulata* (Hedw.) Schimp.  
*varia* (Hedw.) Schimp.  
*rufescens* (With.) Schimp.  
*cerviculata* (Hedw.) Schimp.  
*heteromalla* (Hedw.) Schimp.  
*Aongstroemia* B., S. & G.  
*longipes* (Somm.) B., S. & G.  
*Dichodontium* Schimp.  
*pellucidum* (Hedw.) Schimp.  
*Cynodontium* Schimp.  
*strumiferum* (Hedw.) Lindb.  
? *polycarpon* (Hedw.) Shimp. (Hesselbo 1918)  
? *tenellum* (B., S. & G.) Limpr. (Caroll 1867)  
*Oncophorus* (Brid.) Brid.  
*virens* (Hedw.) Brid.  
*wahlenbergii* Brid.  
*Ceratodon* Brid.  
*purpureus* (Hedw.) Brid.  
*Saelania* Lindb.  
*glaucescens* (Hedw.) Broth.  
*Ditrichum* Hampe  
*cylindricum* (Hedw.) Grout  
*pusillum* (Hedw.) Hampe  
*lineare* (Sw.) Lindb.  
*heteromallum* (Hedw.) Britt.  
*flexicaule* (Schwaegr.) Hampe  
*Pleuridium* Rabenh.  
*subulatum* (Hedw.) Rabenh.  
*Trematodon* Michx.  
+ *ambiguus* (Hedw.) Hornsch.  
*brevicollis* Hornsch.  
*Distichium* B., S. & G.  
*capillaceum* (Hedw.) B., S. & G.  
*inclinatum* (Hedw.) B., S. & G.  
*Bryoxiphium* Mitt.  
*norvegicum* (Brid.) Mitt.

## POTTIALES

### ENCALYPTACEAE Schimp.

*Encalypta* Hedw.  
*alpina* Sm.  
*brevipes* Schljak.  
*rhaptocarpa* Schwaegr.  
*ciliata* Hedw.  
*affinis* Hedw. f.  
*streptocarpa* Hedw.  
*procera* Bruch

### POTTIACEAE Schimp.

*Tortula* Hedw.  
*ruralis* (Hedw.) Gaertn. et al.  
*ruraliformis* (Besch.) Grout  
*norvegica* (F. Web.) Lindb.  
*subulata* Hedw.  
*mucronifolia* Schwaegr.  
*muralis* Hedw.  
*obtusifolia* (Schwaegr.) Math.  
*Desmatodon* Brid.  
*heimii* (Hedw.) Mitt.  
*cernuus* (Hueb.) B. & S.  
*latifolius* (Hedw.) Brid.  
*Stegonia* Vent.  
*latifolia* (Schwaegr.) Broth.  
*Pottia* (Reichenb.) Fuernr.  
*truncata* (Hedw.) B. & S.  
*intermedia* (Turn.) Fuernr.  
*Barbula* Hedw.  
*unguiculata* Hedw.  
*Didymodon* Hedw.  
*icmadophilus* (C. Muell.) K. Saito  
*rigidulus* Hedw.  
*mamillosus* (Crundw.) M. Hill  
*vinealis* (Brid.) Zander  
*asperifolius* (Mitt.) Crum et al.  
*tophaceus* (Brid.) Lisa  
*fallax* (Hedw.) Zander  
*Bryoerythrophyllum* Chen  
*recurvirostrum* (Hedw.) Chen  
*ferruginascens* (Stirt.) Giac.  
*Gymnostomum* Nees & Hornsch.  
*aeruginosum* Sm.  
*Anoetangium* Schwaegr.  
*aestivum* (Hedw.) Mitt.  
*Hymenostylium* Brid.  
*recurvirostrum* (Hedw.) Dix.  
*Trichostomum* Bruch  
*brachydonitium* Bruch  
*Weissia* Hedw.  
*controversa* Hedw.  
+ *wimmerana* (Sendtn.) B., S & G.  
*rutilans* (Hedw.) Lindb.  
*brachycarpa* (Nees & Hornsch.) Jur.  
*Oxystegus* (Limpr.) Hilp.  
*tenuirostris* (Hook. & Tayl.) A. J. E. Sm.  
*Tortella* (Lindb.) Limpr.  
*tortuosa* (Hedw.) Limpr.  
*fragilis* (Drumm.) Limpr.  
? *inclinata* (Hedw. f.) Limpr. (Hesselbo 1918)

## GRIMMIALES

### GRIMMIACEAE Arnott

*Schistidium* Brid.  
*maritimum* (Turn.) B. & S.  
*rivulare* (Brid.) Podp.  
*agassizii* Sull. & Lesq.  
*apocarpum* (Hedw.) B. & S.  
*Grimmia* Hedw.

- plagiopodia* Hedw.  
*montana* B. & S.  
*alpestris* (Web. & Mohr) Hornsch.  
*sessitana* DeNot.  
*donniana* Sm.  
*elongata* Kaulf.  
*affinis* Hornsch.  
*ovalis* (Hedw.) Lindb.  
? *incurva* Schwaegr. (Meylan 1940)  
*torquata* Grev.  
*funalis* (Schwaegr.) B. & S.  
*anomala* Schimp.  
*Dryptodon* Brid.  
*patens* (Hedw.) Brid.  
*Racomitrium* Brid.  
*ellipticum* (Turn.) B. & S.  
*aciculare* (Hedw.) Brid.  
*fasciculare* (Hedw.) Brid.  
*heterostichum* (Hedw.) Brid.  
*sudeticum* (Funck) B. & S.  
+ *microcarpon* (Hedw.) Brid.  
*lanuginosum* (Hedw.) Brid.  
*canescens* (Hedw.) Brid.  
*elongatum* (Ehrh.) Frisvoll  
*ericoides* (Brid.) Brid.
- PTYCHOMITRIACEAE** Schimp.  
*Glyphomitrium* Brid.  
*daviesii* (With.) Brid.
- SELIGERIALES**  
**SELIGERIAACEAE** Schimp.  
*Blindia* B., S. & G.  
*acuta* (Hedw.) B., S. & G.  
*Seligeria* B., S. & G.  
*brevifolia* (Lindb.) Lindb.
- FUNARIALES**  
**FUNARIAACEAE** Schwaegr.  
*Funaria* Hedw.  
*hygrometrica* Hedw.  
*Entosthodon* Schwaegr.  
*attenuatus* (Dicks.) Bryhn  
*obtusus* (Hedw.) Lindb.
- SPLACHNACEAE** Grev. & Arnott  
*Tayloria* Hook.  
*acuminata* Hornsch.  
*lingulata* (Dicks.) Lindb.  
*Tetraplodon* B., S. & G.  
*mniioides* (Hedw.) B. & S.  
*Splachnum* Hedw.  
*sphaericum* Hedw.  
*vasculosum* Hedw.
- BRYALES**  
**BRYACEAE** Schwaegr.  
*Leptobryum* Wils.  
*pyriforme* (Hedw.) Wils.
- Pohlia* Hedw.  
*elongata* Hedw.  
*cruda* (Hedw.) Lindb.  
*nutans* (Hedw.) Lindb.  
*obtusifolia* (Brid.) L. Koch  
*drummondii* (C. Muell.) Andr.  
*filum* (Schimp.) Maort.  
*andalusica* (Hoehnel) Broth.  
*bulbifera* (Warnst.) Warnst.  
*annotina* (Hedw.) Lindb.  
*proligerica* (Breidl.) H. Arn.  
*ludwigii* (Schwaegr.) Broth.  
*wahlenbergii* (Web. & Mohr) Andr.  
*Plagiobryum* Lindb.  
*zieri* (Hedw.) Lindb.  
*demissum* (Hook.) Lindb.  
*Anomobryum* Schimp.  
*julaceum* (Gaertn. et al.) Schimp.  
*Bryum* Hedw.  
*marratii* Hook. f. & Wils.  
*calophyllum* R. Brown  
*axelblyttii* Philib.  
*purpurascens* (R. Brown) B., S. & G.  
*arcticum* (R. Brown) B., S. & G.  
*pallens* Sw.  
*rutilans* Brid.  
*schleicheri* Lam. & DC.  
*weigeli* Spreng.  
*cryophilum* Maort.  
*algovicum* C. Muell.  
*salinum* Limpr.  
*knowltonii* Barnes  
*archangelicum* B., S. & G.  
*inclinatatum* (Brid.) Bland.  
*intermedium* (Brid.) Bland.  
*capillare* Hedw.  
*elegans* Brid.  
*stirtonii* Schimp.  
*flaccidum* Brid.  
*creberrimum* Tayl.  
*pallescens* Schwaegr.  
*pseudotriquetrum* (Hedw.) Gaertn. et al.  
*caespiticium* Hedw.  
*argenteum* Hedw.  
*bicolor* Dicks.  
*dunense* A. J. E. Sm. & H. Whiteh.  
*klingsgraffii* Schimp.  
*sauteri* B., S. & G.  
*tenuisetum* Limpr.  
*subapiculatum* Hampe  
*Rhodobryum* (Schimp.) Limpr.  
*roseum* (Hedw.) Limpr.
- MNIACEAE** Schwaegr.  
*Mnium* Hedw.  
*hornum* Hedw.  
*spinatum* (Voit) Schwaegr.  
*thomsonii* Schimp.  
*marginatum* (With.) P. Beauv.

*blyttii* B., S. & G.  
*stellare* Hedw.  
*Cinclidium* Sw.  
*subrotundum* Lindb.  
*stygium* Sw.  
*Rhizomnium* T. Kop.  
*punctatum* (Hedw.) T. Kop.  
 ? *andrewsianum* (Steere) T. Kop. (Koponen 1977)  
*magnifolium* (Horik.) T. Kop.  
*pseudopunctatum* (B. & S.) T. Kop.  
*Cyrtomnium* Holmen  
*hymenophylloides* (Hueb.) T. Kop.  
*Plagiomnium* T. Kop.  
*cuspidatum* (Hedw.) T. Kop.  
*medium* (B. & S.) T. Kop.  
*elatum* (B. & S.) T. Kop.  
*ellipticum* (Brid.) T. Kop.  
*undulatum* (Hedw.) T. Kop.  
*rostratum* (Schrad.) T. Kop.  
*Pseudobryum* (Kindb.) T. Kop.  
*cinclidioides* (Hueb.) T. Kop.

AULACOMNIACEAE Schimp.  
*Aulacomnium* Schwaegr.  
*palustre* (Hedw.) Schwaegr.  
*turgidum* (Wahlenb.) Schwaegr.

MEESIACEAE Schimp.  
*Paludella* Brid.  
*squarrosa* (Hedw.) Brid.  
*Meesia* Hedw.  
*uliginosa* Hedw.  
 ? *hexasticha* (Funck) Bruch (Meylan 1940)  
*triquetra* (Richter) Aongstr.  
*Amblyodon* B. & S.  
*dealbatus* (Hedw.) B. & S.

CATOSCOPIACEAE Broth.  
*Catoscopium* Brid.  
*nigritum* (Hedw.) Brid.

BARTRAMIACEAE Schwaegr.  
*Plagiopus* Brid.  
*oederi* (Brid.) Limpr.  
*Bartramia* Hedw.  
*ithyphylla* Brid.  
*Conostomum* Sw.  
*tetragonum* (Hedw.) Lindb.  
*Philonotis* Brid.  
*marchica* (Hedw.) Brid.  
*arnellii* Husn.  
*caespitosa* Jur.  
*fontana* (Hedw.) Brid.  
*tomentella* Mol.  
*seriata* Mitt.

TIMMIACEAE Schimp.  
*Timmia* Hedw.  
*bavarica* Hessel.

*austriaca* Hedw.  
*norvegica* Zett.  
*comata* Lindb. & H. Arn.

## ORTHOTRICHALES

### ORTHOTRICHACEAE Arnott

*Amphidium* Schimp.  
*lapponicum* (Hedw.) Schimp.  
*mougeotii* (B. & S.) Schimp.  
*Zygodon* Hook. & Tayl.  
*viridissimus* (Dicks.) Brid.  
*Orthotrichum* Hedw.  
*striatum* Hedw.  
*speciosum* Nees  
*pylaisii* Brid.  
*rupestre* Schwaegr.  
*laevigatum* Zett.  
*anomalum* Hedw.  
*cupulatum* Brid.  
*stramineum* Brid.  
*alpestre* B., S. & G.  
*Ulota* Mohr  
*phyllantha* Brid.

HEDWIGIACEAE Schimp.  
*Hedwigia* P. Beauv.  
*ciliata* (Hedw.) P. Beauv.

## ISOBRYALES

FONTINALACEAE Schimp.  
*Fontinalis* Hedw.  
*antipyretica* Hedw.

CLIMACIACEAE Kindb.  
*Climacium* Web. & Mohr  
*dendroides* (Hedw.) Web. & Mohr

LEUCODONTACEAE Schimp.  
*Leucodon* Schwaegr.  
*sciuroides* (Hedw.) Schwaegr.  
*Antitrichia* Brid.  
*curtipendula* (Hedw.) Brid.

NECKERACEAE Schimp.  
*Neckera* Hedw.  
*crispa* Hedw.  
*complanata* (Hedw.) Hueb.  
*Homalia* (Brid.) B., S. & G.  
*trichomanoides* (Hedw.) Brid.

## THUIDIALES

THELIACEAE (Broth.) Fleisch.  
*Myurella* B., S. & G.  
*julacea* (Schwaegr.) B., S. & G.  
*tenerrima* (Brid.) Lindb.

LESKEACEAE Schimp.  
*Leskea* Hedw.  
 ? *polycarpa* Hedw. (Meylan 1940)

- Pseudoleskeella* Kindb.  
*nervosa* (Brid.) Nyh.  
*tectorum* (Brid.) Broth.
- Lescuraea* B., S. & G.  
*patens* (Lindb.) H. Arn. & C. Jens.  
*incurvata* (Hedw.) Lawt.  
*radicosa* (Mitt.) Moenk.  
*saxicola* (B., S. & G.) Milde
- Pterigynandrum* Hedw.  
*filiforme* Hedw.
- THAMNIACEAE** Moenk.  
*Thamnobryum* Nieuwl.  
*alopecurum* (Hedw.) Nieuwl.
- THUIDIACEAE** Schimp.  
*Heterocladium* B., S. & G.  
 ? *heteropterum* B., S. & G. (Blazkova 1973)  
*dimorphum* (Brid.) B., S. & G.
- Anomodon* Hook. & Tayl.  
*attenuatus* (Hedw.) Hueb.  
*viticulosus* (Hedw.) Hook. & Tayl.
- Thuidium* B., S. & G.  
*abietinum* (Hedw.) B., S. & G.  
*tamariscinum* (Hedw.) B., S. & G.  
*erectum* Duby  
*philibertii* Limpr.  
*recognitum* (Hedw.) Lindb.
- Helodium* Warnst.  
*blandowii* (Web. & Mohr) Warnst.
- HYPNOBRYALES**
- AMBLYSTEGIACEAE** (Broth.) Fleisch.  
*Cratoneuron* (Sull.) Spruce  
*commutatum* (Hedw.) G. Roth  
*decepiens* (DeNot.) Loeske  
*filicinum* (Hedw.) Spruce
- Campylium* (Sull.) Mitt.  
*stellatum* (Hedw.) J. Lange & C. Jens.  
*chrysophyllum* (Brid.) J. Lange  
*polygamum* (B., S. & G.) J. Lange & C. Jens.  
*elodes* (Lindb.) Kindb.
- ? *calcareum* Crundw., & Nyh. (Hesselbo 1918)
- Amblystegium* B., S. & G.  
*serpens* (Hedw.) B., S. & G.  
*fluviatile* (Hedw.) B., S. & G.  
*tenax* (Hedw.) C. Jens.
- ? *saxatile* Schimp. (Meylan 1940)
- ? *humile* (P. Beauv.) Crundw. (Meylan 1940)
- jungermannoides* (Brid.) A. J. E. Sm.  
*compactum* (C. Muell.) Aust.
- Drepanocladus* (C. Muell.) G. Roth  
*aduncus* (Hedw.) Warnst.  
*sendtneri* (H. Muell.) Warnst.  
*revolvens* (Sw.) Warnst.
- ? *lycopodioides* (Brid.) Warnst. (Dierssen 1973)
- fluitans* (Hedw.) Warnst.  
*exannulatus* (B., S. & G.) Warnst.  
 ? *trichophyllum* (Warnst.) Podp. (Frahm 1975)
- tundrae* (H. Arn.) Loeske  
*badius* (Hartm.) G. Roth  
*uncinatus* (Hedw.) Warnst.
- Hygrohypnum* Lindb.  
*luridum* (Hedw.) Jenn.  
*polare* (Lindb.) Loeske  
*styriacum* (Limpr.) Broth.  
*ochraceum* (Wils.) Loeske  
*alpestre* (Hedw.) Loeske  
*smithii* (Sw.) Broth.
- ? *molle* (Hedw.) Loeske (Meylan 1940)
- alpinum* (Lindb.) Loeske  
*duriusculum* (DeNot.) Jamieson
- Scorpidium* (Schimp.) Limpr.  
*scorpioides* (Hedw.) Limpr.  
*turgescens* (T. Jens.) Loeske
- Calliergon* (Sull.) Kindb.  
*stramineum* (Brid.) Kindb.  
*trifarium* (Web. & Mohr) Kindb.  
*cordifolium* (Hedw.) Kindb.  
*giganteum* (Schimp.) Kindb.  
*richardsonii* (Mitt.) Kindb.  
*sarmentosum* (Wahlenb.) Kindb.
- Calliergonella* Loeske  
*cuspidata* (Hedw.) Loeske
- BRACHYTHECIACEAE** Schimp.  
*Isoetecium* Brid.  
*alopeuroides* (Dubois) Isov.  
*mysuroides* Brid.
- Homalothecium* B., S. & G.  
*sericeum* (Hedw.) B., S. & G.  
*lutescens* (Hedw.) Robins.  
*nitens* (Hedw.) Robins.
- Brachythecium* B., S. & G.  
*albicans* (Hedw.) B., S. & G.
- ? *erythrorrhizon* B., S. & G. (Jones 1946)
- glareosum* (Spruce) B., S. & G.  
*turgidum* (Hartm.) Kindb.  
*salebrosum* (Web. & Mohr) B., S. & G.  
*mildeanum* (Schimp.) Milde  
*rutabulum* (Hedw.) B., S. & G.  
*rivulare* B., S. & G.  
*starkei* (Brid.) B., S. & G.  
*glaciale* B., S. & G.  
*latifolium* Kindb.  
*reflexum* (Starke) B., S. & G.  
*velutinum* (Hedw.) B., S. & G.  
*populeum* (Hedw.) B., S. & G.  
*plumosum* (Hedw.) B., S. & G.
- Scleropodium* B., S. & G.  
*purum* (Hedw.) Grout
- Cirriphyllum* Grout  
*piliferum* (Hedw.) Grout  
*crassinervium* (Tayl.) Loeske & Fleisch.
- Rhynchostegium* B., S. & G.  
*riparioides* (Hedw.) Card.  
*murale* (Hedw.) B., S. & G.  
*confertum* (Dicks.) B., S. & G.

- Eurhynchium* B., S. & G.  
*striatum* (Hedw.) Schimp.  
*pulchellum* (Hedw.) Jenn.  
*praelongum* (Hedw.) B., S. & G.  
*hians* (Hedw.) Sande Lac.
- ENTODONTACEAE Kindb.  
*Entodon* C. Muell.  
*concinus* (DeNot.) Par.
- PLAGIOTHECIACEAE (Broth.) Fleisch.  
*Plagiothecium* B., S. & G.  
*denticulatum* (Hedw.) B., S. & G.  
*cavifolium* (Brid.) Iwats.  
*succulentum* (Wils.) Lindb.  
*Isopterygium* Mitt.  
*pulchellum* (Hedw.) Jaeg.  
+ *elegans* (Brid.) Lindb.  
*Taxiphyllum* Fleisch.  
*wissgrillii* (Garov.) Wijk & Marg.
- HYPNACEAE Schimp.  
*Orthothecium* B., S. & G.  
*intricatum* (Hartm.) B., S. & G.  
+ *strictum* Lor.
- ? *rufescens* (Brid.) B., S. & G. (Meylan 1940)  
*chryseon* (Schwaegr.) B., S. & G.  
*Hypnum* Hedw.  
*revolutum* (Mitt.) Lindb.  
*vaucheri* Lesq.  
*cupressiforme* Hedw.  
*jullandicum* Holmen & Warncke  
*bambergeri* Schimp.  
*lindbergii* Mitt.  
*callichroum* Brid.  
*hamulosum* B., S. & G.  
*Ctenidium* (Schimp.) Mitt.  
*molluscum* (Hedw.) Mitt.  
*Rhytidium* (Sull.) Kindb.  
*rugosum* (Hedw.) Kindb.  
*Rhytidiadelphus* (Limpr.) Warnst.  
*loreus* (Hedw.) Warnst.  
*squarrosus* (Hedw.) Warnst.  
? *subpinnatus* (Lindb.) T. Kop. (Frahm 1975)  
*triquetrum* (Hedw.) Warnst.  
*Pleurozium* Mitt.  
*schreberi* (Brid.) Mitt.  
*Hylocomium* B., S. & G.  
*pyrenaicum* (Spruce) Lindb.  
*splendens* (Hedw.) B., S. & G.

### III ALPHABETIC LIST

- Amblyodon* B. & S.  
*dealbatus* (Hedw.) B. & S.
- Amblystegium* B., S. & G.  
*compactum* (C. Muell.) Aust.  
*fluviatile* (Hedw.) B., S. & G.  
? *humile* (P. Beauv.) Crundw. (Meylan 1940)  
*jungermannoides* (Brid.) A. J. E. Sm.  
? *saxatile* Schimp. (Meylan 1940)  
*serpens* (Hedw.) B., S. & G.  
*tenax* (Hedw.) C. Jens.
- Amphidium* Schimp.  
*lapponicum* (Hedw.) Schimp.  
*mougeotii* (B. & S.) Schimp.
- Anastrophyllum* (Spruce) Steph.  
+ *saxicola* (Schrad.) Schust.
- Andreaea* Hedw.  
*blyttii* Schimp.  
*rupestris* Hedw.
- Aneura* Dum.  
*pinguis* (L.) Dum.
- Anoetangium* Schwaegr.  
*aestivum* (Hedw.) Mitt.
- Anomobryum* Schimp.  
*julaceum* (Gaertn. et al.) Schimp.
- Anomodon* Hook. & Tayl.  
*attenuatus* (Hedw.) Hueb.  
*viticulosus* (Hedw.) Hook. & Tayl.
- Anthelia* (Dum.) Dum.  
*julacea* (L.) Dum.
- Antitrichia* Brid.  
*curtipendula* (Hedw.) Brid.
- Aongstroemia* B., S. & G.  
*longipes* (Somm.) B., S. & G.
- Archidium* Brid.  
*alternifolium* (Hedw.) Schimp.
- Arctoa* B., S. & G.  
*anderssonii* Wich.  
*fulvella* (Dicks.) B., S. & G.
- Asterella* P. Beauv.  
*gracilis* (F. Web.) Underw.
- Atrichum* P. Beauv.  
*angustatum* (Brid.) B. & S.  
*tenellum* (Roehl.) B. & S.  
*undulatum* (Hedw.) P. Beauv.
- Aulacomnium* Schwaegr.  
*palustre* (Hedw.) Schwaegr.  
*turgidum* (Wahlenb.) Schwaegr.
- Barbilophozia* Loeske  
? *atlantica* (Kaal.) K. Muell. (Inoue & Steere 1981)  
*barbata* (Schreb.) Loeske  
? *binsteadii* (Kaal.) Loeske (Inoue & Steere 1981)  
*floerkei* (Web. & Mohr) Loeske  
*hatcheri* (Evans) Loeske  
*kunzeana* (Hueb.) K. Muell.  
*lycopodioides* (Wallr.) Loeske  
*quadriloba* (Lindb.) Loeske
- Barbula* Hedw.  
*unguiculata* Hedw.

- Bartramia Hedw.  
   ithyphylla Brid.  
 Blasia L.  
   pusilla L.  
 Blepharostoma (Dum.) Dum.  
   trichophyllum (L.) Dum.  
 Blindia B., S. & G.  
   acuta (Hedw.) B., S. & G.  
 Brachythecium B., S. & G.  
   albicans (Hedw.) B., S. & G.  
 ? erythrorrhizon B., S. & G. (Jones 1946)  
   glaciale B., S. & G.  
   glareosum (Spruce) B., S. & G.  
   latifolium Kindb.  
   mildeanum (Schimp.) Milde  
   plumosum (Hedw.) B., S. & G.  
   populeum (Hedw.) B., S. & G.  
   reflexum (Starke) B., S. & G.  
   rivulare B., S. & G.  
   rutabulum (Hedw.) B., S. & G.  
   salebrosum (Web. & Mohr) B., S. & G.  
   starkei (Brid.) B., S. & G.  
   turgidum (Hartm.) Kindb.  
   velutinum (Hedw.) B., S. & G.  
 Bryoerythrophyllum Chen  
   ferruginascens (Stirt.) Giac.  
   recurvirostrum (Hedw.) Chen  
 Bryoxiphium Mitt.  
   norvegicum (Brid.) Mitt.  
 Bryum Hedw.  
   algovicum C. Muell.  
   archangelicum B., S. & G.  
   arcticum (R. Brown) B., S. & G.  
   argenteum Hedw.  
   axelblyttii Philib.  
   bicolor Dicks.  
   caespiticium Hedw.  
   calophyllum R. Brown  
   capillare Hedw.  
   creberrimum Tayl.  
   cryophilum Maort.  
   dunense A. J. E. Sm. & H. Whiteh.  
   elegans Brid.  
   flaccidum Brid.  
   inclinatum (Brid.) Bland.  
   intermedium (Brid.) Bland.  
   klinggraeffii Schimp.  
   knowltonii Barnes  
   marratii Hook. f. & Wils.  
   pallens Sw.  
   pallescens Schwaegr.  
   pseudotriquetrum (Hedw.) Gaertn. et al.  
   purpurascens (R. Brown) B., S. & G.  
   rutilans Brid.  
   salinum Limpr.  
   sauteri B., S. & G.  
   schleicheri Lam. & DC.  
   stirtonii Schimp.  
   subapiculatum Hampe  
   tenuisetum Limpr.  
   weigeli Spreng.  
 Calliergon (Sull.) Kindb.  
   cordifolium (Hedw.) Kindb.  
   giganteum (Schimp.) Kindb.  
   richardsonii (Mitt.) Kindb.  
   sarmentosum (Wahlenb.) Kindb.  
   stramineum (Brid.) Kindb.  
   trifarium (Web. & Mohr) Kindb.  
 Calliergonella Loeske  
   cuspidata (Hedw.) Loeske  
 Calypogeia Raddi  
   fissa (L.) Raddi  
   ? integristipula Steph. (Inoue & Steere 1981)  
   muellerana (Schiffn.) K. Muell.  
   sphagnicola (H. Arn. & J. Perss.) Warnst. & Loeske  
 Campylium (Sull.) Mitt.  
   ? calcareum Crundw. & Nyh. (Hesselbo 1918)  
   chrysophyllum (Brid.) J. Lange  
   elodes (Lindb.) Kindb.  
   polygamum (B., S. & G.) J. Lange & C. Jens.  
   stellatum (Hedw.) J. Lange & C. Jens.  
 Campylopus Brid.  
   flexuosus (Hedw.) Brid.  
   pyriformis (K. F. Schultz) Brid.  
   schimper Milde  
 Catoscopium Brid.  
   nigratum (Hedw.) Brid.  
 Cephalozia (Dum.) Dum.  
   bicuspidata (L.) Dum.  
   ? lunulifolia (Dum.) Dum. (Inoue & Steere 1981)  
   ? macounii (Aust.) Aust. (Inoue & Steere 1981)  
   pleniceps (Aust.) Lindb.  
 Cephaloziella (Spruce) Schiffn.  
   arctica Bryhn & Douin  
   divaricata (Sm.) Schiffn.  
   hampeana (Nees) Schiffn.  
   rubella (Nees) Warnst.  
   spinigera (Lindb.) Joerg.  
 Ceratodon Brid.  
   purpureus (Hedw.) Brid.  
 Chandonanthus Mitt.  
   setiformis (Ehrh.) Lindb.  
 Chiloscypus Corda  
   polyanthos (L.) Corda  
 Cinclidium Sw.  
   stygium Sw.  
   subrotundum Lindb.  
 Cirriphyllum Grout  
   crassinervium (Tayl.) Loeske & Fleisch.  
   piliferum (Hedw.) Grout  
 Cladopodiella Buch  
   francisci (Hook.) Joerg.  
 Climacium Web. & Mohr  
   dendroides (Hedw.) Web. & Mohr  
 Conocephalum Wiggers  
   conicum (L.) Lindb.  
 Conostomum Sw.  
   tetragonum (Hedw.) Lindb.

- Cratoneuron (Sull.) Spruce  
   commutatum (Hedw.) G. Roth  
   decipiens (DeNot.) Loeske  
   filicinum (Hedw.) Spruce  
 Ctenidium (Schimp.) Mitt.  
   molluscum (Hedw.) Mitt.  
 Cynodontium Schimp.  
   ? polycarpon (Hedw.) Schimp. (Hesselbo 1918)  
   strumiferum (Hedw.) Lindb.  
   ? tenellum (B., S. & G.) Limpr. (Caroll 1867)  
 Cyrtomnium Holmen  
   hymenophylloides (Hueb.) T. Kop.  
 Desmatodon Brid.  
   cernuus (Hueb.) B. & S.  
   heimii (Hedw.) Mitt.  
   latifolius (Hedw.) Brid.  
 Dichodontium Schimp.  
   pellucidum (Hedw.) Schimp.  
 Dicranella (C. Muell.) Schimp.  
   cerviculata (Hedw.) Schimp.  
   crispa (Hedw.) Schimp.  
   grevilleana (Brid.) Schimp.  
   heteromalla (Hedw.) Schimp.  
   palustris (Dicks.) E. Warb.  
   rufescens (With.) Schimp.  
   schreberana (Hedw.) Dix.  
   subulata (Hedw.) Schimp.  
   varia (Hedw.) Schimp.  
 Dicranoweisia Milde  
   crispula (Hedw.) Milde  
 Dicranum Hedw.  
   acutifolium (Lindb. & H. Arn.) Weim.  
   ? affine Funck (Dierssen 1973)  
   angustum Lindb.  
   bonjeanii DeNot.  
   congestum Brid.  
   elongatum Schwaegr.  
   fuscescens Sm.  
   majus Sm.  
   scoparium Hedw.  
   tauricum Sap.  
 Didymodon Hedw.  
   asperifolius (Mitt.) Crum et al.  
   fallax (Hedw.) Zander  
   icmadophilus (C. Muell.) K. Saito  
   mammosus (Crundw.) M. Hill  
   rigidulus Hedw.  
   tophaceus (Brid.) Lisa  
   vinealis (Brid.) Zander  
 Diphyscium Mohr  
   foliosum (Hedw.) Mohr  
 Diplophyllum (Dum.) Dum.  
   albicans (L.) Dum.  
   taxifolium (Wahlenb.) Dum.  
 Distichium B., S. & G.  
   capillaceum (Hedw.) B., S. & G.  
   inclinatum (Hedw.) B., S. & G.  
 Ditrichum Hampe  
   cylindricum (Hedw.) Grout  
   flexicaule (Schwaegr.) Hampe  
   heteromallum (Hedw.) Britt.  
   lineare (Sw.) Lindb.  
   pusillum (Hedw.) Hampe  
 Drepanocladus (C. Muell.) G. Roth  
   aduncus (Hedw.) Warnst.  
   badius (Hartm.) G. Roth  
   exannulatus (B., S. & G.) Warnst.  
   fluitans (Hedw.) Warnst.  
   ? lycopodioides (Brid.) Warnst. (Dierssen 1973)  
   revolvens (Sw.) Warnst.  
   sendtneri (H. Muell.) Warnst.  
   ? trichophyllus (Warnst.) Podp. (Frahm 1975)  
   tundrae (H. Arn.) Loeske  
   uncinatus (Hedw.) Warnst.  
 Dryptodon Brid.  
   patens (Hedw.) Brid.  
 Encalypta Hedw.  
   affinis Hedw. f.  
   alpina Sm.  
   brevipes Schljak.  
   ciliata Hedw.  
   procera Bruch  
   rhaptocarpa Schwaegr.  
   streptocarpa Hedw.  
 Entodon C. Muell.  
   concinus (DeNot.) Par.  
 Entosthodon Schwaegr.  
   attenuatus (Dicks.) Bryhn  
   obtusus (Hedw.) Lindb.  
 Eurhynchium B., S. & G.  
   hians (Hedw.) Sande Lac.  
   praelongum (Hedw.) B., S. & G.  
   pulchellum (Hedw.) Jenn.  
   striatum (Hedw.) Schimp.  
 Fissidens Hedw.  
   adianthoides Hedw.  
   bryoides Hedw.  
   cristatus Mitt.  
   osmundoides Hedw.  
   pusillus (Wils.) Milde  
 Fontinalis Hedw.  
   antipyretica Hedw.  
 Fossombronia Raddi  
   foveolata Lindb.  
   wondraczekii (Corda) Lindb.  
 Frullania Raddi  
   dilatata (L.) Dum.  
   fragilifolia (Tayl.) Gott. et al.  
   tamarisci (L.) Dum.  
 Funaria Hedw.  
   hygrometrica Hedw.  
 Glyphomitrium Brid.  
   daviesii (With.) Brid.  
 Grimmia Hedw.  
   affinis Hornsch.  
   alpestris (Web. & Mohr) Hornsch.  
   anomala Schimp.  
   donniana Sm.

- elongata Kaulf.  
 funalis (Schwaegr.) B. & S.  
 ? incurva Schwaegr. (Meylan 1940)  
 montana B. & S.  
 ovalis (Hedw.) Lindb.  
 plagiopodia Hedw.  
 sessitana DeNot.  
 torquata Grev.
- Gymnocolea (Dum.) Dum.  
 inflata (Huds.) Dum.
- Gymnomitrium Corda  
 apiculatum (Schiffn.) K. Muell.  
 concinnatum (Lightf.) Corda  
 corallioides Nees
- Gymnostomum Nees & Hornsch.  
 aeruginosum Sm.
- Haplomitrium Nees  
 hookeri (Sm.) Nees
- Harpanthus Nees  
 flotovianus (Nees) Nees  
 ? scutatus (Web. & Mohr) Spruce (Inoue & Steere 1981)
- Hedwigia P. Beauv.  
 ciliata (Hedw.) P. Beauv.
- Helodium Warnst.  
 blandowii (Web. & Mohr) Warnst.
- Herbertus S. Gray  
 stramineus (Dum.) Trev.
- Heterocladium B., S. & G.  
 dimorphum (Brid.) B., S. & G.  
 ? heteropterum B., S. & G. (Blazkova 1973)
- Homalia (Brid.) B., S. & G.  
 trichomanoides (Hedw.) Brid.
- Homalothecium B., S. & G.  
 lutescens (Hedw.) Robins.  
 nitens (Hedw.) Robins.  
 sericeum (Hedw.) B., S. & G.
- Hygrobiella Spruce  
 laxifolia (Hook) Spruce
- Hygrohypnum Lindb.  
 alpestre (Hedw.) Loeske  
 alpinum (Lindb.) Loeske  
 duriusculum (DeNot.) Jamieson  
 luridum (Hedw.) Jenn.  
 ? molle (Hedw.) Loeske (Meylan 1940)  
 ochraceum (Wils.) Loeske  
 polare (Lindb.) Loeske  
 smithii (Sw.) Broth.  
 styriacum (Limpr.) Broth.
- Hylocomium B., S. & G.  
 pyrenaicum (Spruce) Lindb.  
 splendens (Hedw.) B., S. & G.
- Hymenostylium Brid.  
 recurvirostrum (Hedw.) Dix.
- Hypnum Hedw.  
 bambergeri Schimp.  
 callichroum Brid.  
 cupressiforme Hedw.  
 hamulosum B., S. & G.
- jutlandicum Holmen & Warncke  
 lindbergii Mitt.  
 revolutum (Mitt.) Lindb.  
 vaucheri Lesq.
- Isopterygium Mitt.  
 + elegans (Brid.) Lindb.  
 pulchellum (Hedw.) Jaeg.
- Isothecium Brid.  
 alopecuroides (Dubois) Isov.  
 myosuroides Brid.
- Jamesoniella (Spruce) Carring.  
 ? autumnalis (DC.) Steph. (Hesselbo 1918)
- Jungermannia L.  
 atrovirens Dum.  
 borealis Damsch. & Vana  
 caespiticia Lindenb.  
 confertissima Nees  
 exsertifolia Steph.  
 gracillima Sm.  
 hyalina Lyell  
 ? jenseniana Grolle (Inoue & Steere 1981)
- obovata Nees  
 pumila With.  
 polaris Lindb.  
 sphaerocarpa Hook.  
 subelliptica (Kaal.) Lev.
- Kiaeria I. Hag.  
 blyttii (B., S. & G.) Broth.  
 falcata (Hedw.) I. Hag.  
 glacialis (Bergr.) I. Hag.  
 starkei (Web. & Mohr) I. Hag.
- Kurzia v. Martens  
 + pauciflora (Dicks.) Grolle
- Lejeunea Libert  
 cavifolia (Ehrh.) Lindb.
- Leptobryum Wils.  
 pyriforme (Hedw.) Wils.
- Lescuraea B., S. & G.  
 incurvata (Hedw.) Lawt.  
 patens (Lindb.) H. Arn. & C. Jens.  
 radicata (Mitt.) Moenk.  
 saxicola (B., S. & G.) Milde
- Leskea Hedw.  
 ? polycarpa Hedw. (Meylan 1940)
- Leucodon Schwaegr.  
 sciuroides (Hedw.) Schwaegr.
- Lophocolea (Dum.) Dum.  
 bidentata (L.) Dum.  
 minor Nees
- Lophozia (Dum.) Dum.  
 ? bantriensis (Hook.) Steph. (Dierssen 1973)  
 birenata (Hoffm.) Dum.  
 collaris (Nees) Dum.  
 ? elongata Steph. (Inoue & Steere 1981)  
 excisa (Dicks.) Dum.  
 gillmanii (Aust.) Schust.  
 grandiretis (Kaal.) Schiffn.  
 heterocolpos (Thed.) Howe  
 ? laxa (Lindb.) Grolle (Dierssen 1973)



- longidens (Lindb.) Macoun  
 obtusa (Lindb.) Evans  
 opacifolia Culm.  
 rutheana (Limpr.) Howe  
 sudetica (Nees) Grolle  
 ventricosa (Dicks.) Dum.  
 wenzelii (Nees) Steph.
- Marchantia** L.  
 alpestris (Nees) Burgeff  
 polymorpha L.
- Marsupella** Dum.  
 brevissima (Dum.) Grolle  
 condensata (C. Hartm.) Kaal.  
 emarginata (Ehrh.) Dum.  
 funckii (Web. & Mohr) Dum.  
 ? revoluta (Nees) Dum. (Hesselbo 1918)  
 ? spacelata (Gieseke) Dum. (Meylan 1940)  
 sprucei (Limpr.) H. Bernet
- Meesia** Hedw.  
 ? hexasticha (Funk) Bruch (Meylan 1940)  
 triquetra (Richter) Aongstr.  
 uliginosa Hedw.
- Metzgeria** Raddi  
 furcata (L.) Dum.
- Mnium** Hedw.  
 blyttii B., S. & G.  
 hornum Hedw.  
 marginatum (With.) P. Beauv.  
 spinosum (Voit) Schwaegr.  
 stellare Hedw.  
 thomsonii Schimp.
- Moerckia** Gott.  
 blyttii (Moerch) Brockm.
- Mylia** S. Gray  
 ? anomala (Hook.) S. Gray (Dierssen 1973)
- Myurella** B., S. & G.  
 julacea (Schwaegr.) B., S. & G.  
 tenerrima (Brid.) Lindb.
- Nardia** S. Gray  
 breidleri (Limpr.) Lindb.  
 ? compressa (Hook.) S. Gray (Meylan 1940)  
 geoscyphus (DeNot.) Lindb.  
 insecta Lindb.  
 scalaris S. Gray
- Neckera** Hedw.  
 complanata (Hedw.) Hueb.  
 crispa Hedw.
- Odontoschisma** (Dum.) Dum.  
 elongatum (Lindb.) Evans  
 macounii (Aust.) Underw.  
 sphagni (Dicks.) Dum.
- Oligotrichum** Lam. & DC.  
 hercynicum (Hedw.) Lam. & DC.
- Oncophorus** (Brid.) Brid.  
 virens (Hedw.) Brid.  
 wahlenbergii Brid.
- Orthothecium** B., S. & G.  
 chryseon (Schwaegr.) B., S. & G.  
 intricatum (Hartm.) B., S. & G.
- ? rufescens (Brid.) B., S. & G. (Meylan 1940)  
 + strictum Lor.
- Orthotrichum** Hedw.  
 alpestre B., S. & G.  
 anomalum Hedw.  
 cupulatum Brid.  
 laevigatum Zett.  
 pylaisii Brid.  
 rupestre Schwaegr.  
 speciosum Nees  
 stramineum Brid.  
 striatum Hedw.
- Oxystegus** (Limpr.) Hilp.  
 tenuirostris (Hook. & Tayl.) A. J. E. Sm.
- Paludella** Brid.  
 squarrosa (Hedw.) Brid.
- Pellia** Raddi  
 endiviifolia (Dicks.) Dum.  
 neesiana (Gott.) Limpr.
- Peltolepis** Lindb.  
 quadrata (Sauter) K. Muell.
- Phaeoceros** Prosk.  
 laevis (L.) Prosk.
- Philonotis** Brid.  
 arnellii Husn.  
 caespitosa Jur.  
 fontana (Hedw.) Brid.  
 marchica (Hedw.) Brid.  
 seriata Mitt.  
 tomentella Mol.
- Plagiobryum** Lindb.  
 demissum (Hook.) Lindb.  
 zieri (Hedw.) Lindb.
- Plagiochila** (Dum.) Dum.  
 arctica Bryhn & Kaal.  
 porelloides (Nees) Lindenb.
- Plagiomnium** T. Kop.  
 cuspidatum (Hedw.) T. Kop.  
 elatum (B. & S.) T. Kop.  
 ellipticum (Brid.) T. Kop.  
 medium (B. & S.) T. Kop.  
 rostratum (Schrad.) T. Kop.  
 undulatum (Hedw.) T. Kop.
- Plagiopus** Brid.  
 oederi (Brid.) Limpr.
- Plagiothecium** B., S. & G.  
 cavifolium (Brid.) Iwats.  
 denticulatum (Hedw.) B., S. & G.  
 succulentum (Wils.) Lindb.
- Pleuridium** Rabenh.  
 subulatum (Hedw.) Rabenh.
- Pleurocladula** Grolle  
 albescens (Hook.) Grolle
- Pleurozium** Mitt.  
 schreberi (Brid.) Mitt.
- Pogonatum** P. Beauv.  
 dentatum (Brid.) Brid.  
 nanum (Hedw.) P. Beauv.  
 urnigerum (Hedw.) P. Beauv.

- Pohlia* Hedw.  
*andalusica* (Hoehnel) Broth.  
*annotina* (Hedw.) Lindb.  
*bulbifera* (Warnst.) Warnst.  
*cruda* (Hedw.) Lindb.  
*drummondii* (C. Muell.) Andr.  
*elongata* Hedw.  
*filum* (Schimp.) Maort.  
*ludwigii* (Schwaegr.) Broth.  
*nutans* (Hedw.) Lindb.  
*obtusifolia* (Brid.) L. Koch  
*proligerata* (Breidl.) H. Arn.  
*wahlenbergii* (Web. & Mohr) Andr.  
*Polytrichum* Hedw.  
*alpinum* Hedw.  
*commune* Hedw.  
*formosum* Hedw.  
*hyperboreum* R. Brown  
*juniperinum* Hedw.  
*longisetum* Brid.  
*piliferum* Hedw.  
*sexangulare* Brid.  
*strictum* Brid.  
*Porella* L.  
*cordaeana* (Hueb.) Moore  
? *plathyphylla* (L.) Pfeiff. (Inoue & Steere 1981)  
*Pottia* (Reichenb.) Fuernr.  
*intermedia* (Turn.) Fuernr.  
*truncata* (Hedw.) B. & S.  
*Preissia* Corda  
*quadrata* (Scop.) Nees  
*Pseudobryum* (Kindb.) T. Kop.  
*cinclidioides* (Hueb.) T. Kop.  
*Pseudoleskeella* Kindb.  
*nervosa* (Brid.) Nyh.  
*tectorum* (Brid.) Broth.  
*Psilopilum* Brid.  
*cavifolium* (Wils.) I. Hag.  
*laevigatum* (Wahlenb.) Lindb.  
*Pterigynandrum* Hedw.  
*filiforme* Hedw.  
*Ptilidium* Nees  
*ciliare* (L.) Hampe  
? *pulcherrimum* (G. Web.) Vainio (Meylan 1940)  
*Racomitrium* Brid.  
*aciculare* (Hedw.) Brid.  
*canescens* (Hedw.) Brid.  
*ellipticum* (Turn.) B. & S.  
*elongatum* (Ehrh.) Frisvoll  
*ericoides* (Brid.) Brid.  
*fasciculare* (Hedw.) Brid.  
*heterostichum* (Hedw.) Brid.  
*lanuginosum* (Hedw.) Brid.  
+ *microcarpon* (Hedw.) Brid.  
*sudeticum* (Funck) B. & S.  
*Radula* Dum.  
*complanata* (L.) Dum.  
*Reboulia* Raddi  
*hemisphaerica* (L.) Raddi  
*Rhizomnium* T. Kop.  
? *andrewsianum* (Steere) T. Kop. (Koponen 1977)  
*magnifolium* (Horik.) T. Kop.  
*pseudopunctatum* (B. & S.) T. Kop.  
*punctatum* (Hedw.) T. Kop.  
*Rhodobryum* (Schimp.) Limpr.  
*roseum* (Hedw.) Limpr.  
*Rhynchostegium* B., S. & G.  
*confertum* (Dicks.) B., S. & G.  
*murale* (Hedw.) B., S. & G.  
*riparioides* (Hedw.) Card.  
*Rhytidiadelphus* (Limpr.) Warnst.  
*loreus* (Hedw.) Warnst.  
*squarrosus* (Hedw.) Warnst.  
? *subpinnatus* (Lindb.) T. Kop. (Frahm 1975)  
*triquetrus* (Hedw.) Warnst.  
*Rhytidium* (Sull.) Kindb.  
*rugosum* (Hedw.) Kindb.  
*Riccardia* S. Gray  
*chamaedryfolia* (With.) Grolle  
? *incurvata* Lindb. (Inoue & Steere 1981)  
*latifrons* (Lindb.) Lindb.  
*multifida* (L.) S. Gray  
*Riccia* L.  
*beyrichiana* Lehm.  
? *bifurca* Hoffm. (Paton 1980)  
*cavernosa* Hoffm.  
*sorocarpa* Bisch.  
*Saelania* Lindb.  
*glaucescens* (Hedw.) Broth.  
*Sauteria* Nees  
*alpina* (Nees) Nees  
*Scapania* (Dum.) Dum.  
*calcicola* (H. Arn. & J. Perss.) Ingham  
*curta* (Mart.) Dum.  
*cuspiduligera* (Nees) K. Muell.  
*degenii* Schiffn.  
*gymnostomophila* Kaal.  
*hyperborea* Joerg.  
*irrigua* (Nees) Nees  
*lingulata* Buch  
*obcordata* (Berggr.) S. Arn.  
? *obscura* (H. Arn. & C. Jens.) Schiffn. (Inoue & Steere 1981)  
*paludicola* Loeske & K. Muell.  
*paludosa* (K. Muell.) K. Muell.  
? *parvifolia* Warnst. (Inoue & Steere 1981)  
*praetervisa* Meyl.  
*scandica* (H. Arn. & Buch) Macv.  
*subalpina* (Nees) Dum.  
*uliginosa* (Lindenb.) Dum.  
*undulata* (L.) Dum.  
*Schistidium* Brid.  
*agassizii* Sull. & Lesq.  
*apocarpum* (Hedw.) B. & S.  
*maritimum* (Turn.) B. & S.  
*rivulare* (Brid.) Podp.  
*Scleropodium* B., S. & G.  
*purum* (Hedw.) Limpr.

- Scorpidium* (Schimp.) Limpr.  
*scorpioides* (Hedw.) Limpr.  
*turgescens* (T. Jens.) Loeske  
*Seligeria* B., S. & G.  
*brevifolia* (Lindb.) Lindb.  
*Sphagnum* L.  
*angustifolium* (Russ.) C. Jens.  
*balticum* (Russ.) C. Jens.  
*capillifolium* (Ehrh.) Hedw.  
*centrale* C. Jens.  
*compactum* Lam. & DC.  
*contortum* K. F. Schultz  
*fallax* (Klinggr.) Klinggr.  
*fimbriatum* Wils.  
*flexuosum* Dozy & Molk.  
*girgensohnii* Russ.  
*imbricatum* Russ.  
*lescurii* Sull.  
*lindbergii* Lindb.  
*magellanicum* Brid.  
*obtusum* Warnst.  
*palustre* L.  
*papillosum* Lindb.  
*platyphyllum* (Braithw.) Warnst.  
? *quinquefarium* (Braithw.) Warnst. (Schwabe 1936)  
*riparium* Aongstr.  
*russowii* Warnst.  
*squarrosum* Crome  
*strictum* Sull.  
*subnitens* Russ. & Warnst.  
*subsecundum* Nees  
*tenellum* (Brid.) Bory  
*teres* (Schimp.) Aongstr.  
*warnstorffii* Russ.  
*Sphenolobus* (Lindb.) Berggr.  
*minutus* (Schreb.) Berggr.  
*Splachnum* Hedw.  
*spahericum* Hedw.  
*vasculosum* Hedw.  
*Stegonia* Vent.  
*latifolia* (Schwaegr.) Broth.  
*Taxiphyllum* Fleisch.  
*wissgrillii* (Garov.) Wijk & Marg.  
*Tayloria* Hook.  
*acuminata* Hornsch.  
*lingulata* (Dicks.) Lindb.  
*Tetraplodon* B., S. & G.  
*mnioides* (Hedw.) B. & S.  
*Thamnobryum* Nieuwl.  
*alopecurum* (Hedw.) Nieuwl.  
*Thuidium* B., S. & G.  
*abietinum* (Hedw.) B., S. & G.  
*erectum* Duby  
*philibertii* Limpr.  
*recognitum* (Hedw.) Lindb.  
*tamariscinum* (Hedw.) B., S. & G.  
*Timmia* Hedw.  
*austriaca* Hedw.  
*bavarica* Hessl.  
*comata* Lindb. & H. Arn.  
*norvegica* Zett.  
*Tortella* (Lindb.) Limpr.  
*fragilis* (Drumm.) Limpr.  
? *inclinata* (Hedw. f.) Limpr. (Hesselbo 1918)  
*tortuosa* (Hedw.) Limpr.  
*Tortula* Hedw.  
*mucronifolia* Schwaegr.  
*muralis* Hedw.  
*norvegica* (F. Web.) Lindb.  
*obtusifolia* (Schwaegr.) Math.  
*ruraliformis* (Besch.) Grout  
*ruralis* (Hedw.) Gaertn. et al.  
*subulata* Hedw.  
*Trematodon* Michx.  
+ *ambiguus* (Hedw.) Hornsch.  
*brevicollis* Hornsch.  
*Trichostomum* Bruch  
*brachydontium* Bruch  
*Tritomaria* Loeske  
*polita* (Nees) Joerg.  
*quinquedentata* (Huds.) Buch  
*scitula* (Tayl.) Joerg.  
*Ulotia* Mohr  
*phyllantha* Brid.  
*Weissia* Hedw.  
*brachycarpa* (Nees & Hornsch.) Jur.  
*controversa* Hedw.  
*rutilans* (Hedw.) Lindb.  
+ *wimmerana* (Sendtn.) B., S. & G.  
*Zygodon* Hook. & Tayl.  
*viridissimus* (Dicks.) Brid.

## IV SYNONYMS AND EXCLUDED NAMES

- Abietinella abietina* = *Thuidium abietinum* (Hedw.) B., S. & G.  
*Acrocladium cuspidatum* = *Calliergonella cuspidata* (Hedw.) Loeske  
*Acrocladium giganteum* = *Calliergon giganteum* (Schimp.) Kindb.  
*Acrocladium stramineum* = *Calliergon stramineum* (Brid.) Kindb.  
*Alicularia breidleri* = *Nardia breidleri* (Limpr.) Lindb.  
*Alicularia compressa* = *Nardia compressa* (Hook.) S. Gray  
*Alicularia geoscyphus* = *Nardia geoscyphus* (DeNot.) Lindb.  
*Alicularia geoscyphus* var. *insecta* = *Nardia insecta* Lindb.  
*Alicularia scalaris* = *Nardia scalaris* S. Gray  
*Amblystegium helodes* = *Campylium elodes* (Lindb.) Kindb.  
*Amblystegium hygrophilum* = *A. saxatile* Schimp.  
*Amblystegium salinum* = *A. compactum* (C. Muell.) Aust.  
*Amblystegium serpens* ssp. *littorale* = *A. serpens* (Hedw.) B., S. & G.  
*Amblystegium serpens* ssp. *juratzkanum* = *A. serpens* (Hedw.) B., S. & G.  
*Amblystegium sprucei* = *A. jungermannoides* (Brid.) A. J. E. Sm.  
*Amblystegium trichopodium* = *A. humile* (P. Beauv.) Crundw.  
*Anastrophyllum minutum* = *Sphenolobus minutus* (Schreb.) Berggr.  
*Andreaea petrophila* = *A. rupestris* Hedw.  
*Aneura latifrons* = *Riccardia latifrons* (Lindb.) Lindb.  
*Aneura multifida* = *Riccardia multifida* (L.) S. Gray  
*Anisothecium crispum* auct. = *Dicranella crispa* (Hedw.) Schimp.  
*Anisothecium grevilleanum* = *Dicranella grevilleana* (Brid.) Schimp.  
*Anisothecium schreberianum* = *Dicranella schreberana* (Hedw.) Dix.  
*Anoetangium compactum* = *A. aestivum* (Hedw.) Mitt.  
*Anomobryum concinnatum* = *A. julaceum* (Gaertn. et al.) Schimp.  
*Anomobryum filiforme* = *A. julaceum* (Gaertn. et al.) Schimp.  
*Anomobryum juliforme* = *A. julaceum* (Gaertn. et al.) Schimp.  
*Anthelia juratzkana* = *A. julacea* (L.) Dum. (var.)  
*Anthoceros laevis* = *Phaeoceros laevis* (L.) Prosk.  
*Anthoceros punctatus* – excluded  
*Archidium phascoides* = *A. alternifolium* (Hedw.) Schimp.
- Barbula asperifolia* = *Didymodon asperifolius* (Mitt.) Crum et al.  
*Barbula cylindrica* = *Didymodon vinealis* (Brid.) Zander (var.)  
*Barbula fallax* = *Didymodon fallax* (Hedw.) Zander  
*Barbula ferruginascens* = *Bryoerythrophyllum ferruginascens* (Stirt.) Giac.  
*Barbula icmadophila* = *Didymodon icmadophilus* (C. Muell.) K. Saito  
*Barbula lurida* – excluded  
*Barbula recurvirostra* = *Bryoerythrophyllum recurvirostrum* (Hedw.) Chen  
*Barbula rigidula* = *Didymodon rigidulus* Hedw.  
*Barbula rufa* = *Didymodon asperifolius* (Mitt.) Crum et al.  
*Barbula tophacea* = *Didymodon tophaceus* (Brid.) Lisa  
*Barbula vinealis* = *Didymodon vinealis* (Brid.) Zander  
*Bartramia breviseta* = *B. ithyphylla* Brid. (var.)  
*Brachythecium collinum* – excluded  
*Brachythecium groenlandicum* = *B. albicans* (Hedw.) B., S. & G. (var.)  
*Brachythecium illecebrum* – excluded  
*Brachythecium longipilum* = *B. plumosum* (Hedw.) B., S. & G.  
*Brachythecium nelsonii* = *B. latifolium* Kindb.

- Brachythecium tauriscorum* = *B. albicans* (Hedw.) B., S. & G. (var.)  
*Bryum acutum* = *B. axelblyttii* Philib.  
*Bryum affine* = *B. creberrimum* Tayl.  
*Bryum bimum* = *B. pseudotriquetrum* (Hedw.) Gaertn. et al.  
*Bryum brownii* = *B. arcticum* (R. Brown) B., S. & G.  
*Bryum cirratum* = *B. pallescens* Schwaegr.  
*Bryum comense* = *B. caespiticium* Hedw.  
*Bryum duvalii* = *B. weigelii* Spreng.  
*Bryum fallax* = *B. pallens* Sw.  
*Bryum groenlundii* = *B. inclinatum* (Brid.) Bland.  
*Bryum helveticum* = *B. arcticum* (R. Brown) B., S. & G.  
*Bryum islandicum* = *B. inclinatum* (Brid.) Bland.  
*Bryum joergensenii* = *B. archangelicum* B., S. & G.  
*Bryum kaurini* = *B. inclinatum* (Brid.) Bland.  
*Bryum lacustre* = *B. knowltonii* Barnes  
*Bryum neodamense* var. *ovatum* – excluded  
*Bryum oeneum* = *B. rutilans* Brid.  
*Bryum pendulum* = *B. algovicum* C. Muell.  
*Bryum retusum* = *B. salinum* Limpr.  
*Bryum stenotrichum* = *B. inclinatum* (Brid.) Bland.  
*Bryum subrotundum* = *B. pallescens* Schwaegr.  
*Bryum uliginosum* – excluded  
*Bryum ventricosum* = *B. pseudotriquetrum* (Hedw.) Gaertn. et al.
- Calypogeia trichomanis* auct. = *C. muellerana* (Schiffn.) K. Muell.  
*Camptothecium lutescens* = *Homalothecium lutescens* (Hedw.) Robins.  
*Camptothecium nitens* = *Homalothecium nitens* (Hedw.) Robins.  
*Camptothecium sericeum* = *Homalothecium sericeum* (Hedw.) B., S. & G.  
*Campylium protensum* = *C. stellatum* (Hedw.) J. Lange & C. Jens.  
*Campylopus fragilis* – excluded  
*Campylopus subulatus* – excluded  
*Catharinea undulata* = *Atrichum undulatum* (Hedw.) P. Beauv.  
*Cephalozia ambigua* = *C. bicuspidata* (L.) Dum. (var.)  
*Cephalozia media* = *C. lunulifolia* (Dum.) Dum.  
*Cephaloziella curnowii* = *C. hampeana* (Nees) Schiffn.  
*Cephaloziella starkei* = *C. divaricata* (Sm.) Schiffn.  
*Cephaloziella striatula* auct. = *C. spinigera* (Lindb.) Joerg.  
*Cephaloziella subdentata* = *C. spinigera* (Lindb.) Joerg.  
*Chiloscyphus pallescens* = *C. polyanthos* (L.) Corda (var.)  
*Chrysohypnum chrysophyllum* = *Campylium chrysophyllum* (Brid.) J. Lange  
*Chrysohypnum polygamum* = *Campylium polygamum* (B., S. & G.) J. Lange & C. Jens.  
*Chrysohypnum stellatum* = *Campylium stellatum* (Hedw.) J. Lange & C. Jens.  
*Conostomum boreale* = *C. tetragonum* (Hedw.) Lindb.  
*Cratoneuron falcatum* = *C. commutatum* (Hedw.) G. Roth  
*Cratoneuron irrigatum* = *C. commutatum* (Hedw.) G. Roth  
*Cratoneuron sulcatum* = *C. commutatum* (Hedw.) G. Roth  
*Cylindrothecium concinnum* = *Entodon concinnum* (DeNot.) Par.  
*Cynodontium virens* = *Oncophorus virens* (Hedw.) Brid.
- Desmatodon obtusifolius* = *Tortula obtusifolia* (Schwaegr.) Math.  
*Dicranella schreberi* = *D. schreberana* (Hedw.) Dix.  
*Dicranella secunda* = *D. subulata* (Hedw.) Schimp.  
*Dicranella squarrosa* = *D. palustris* (Dicks.) E. Warb.  
*Dicranoweisia compacta* = *D. crispula* (Hedw.) Milde  
*Dicranum anderssonii* = *Arctoa anderssonii* Wich.  
*Dicranum arcticum* = *Kiaeria glacialis* (Berggr.) I. Hag.  
*Dicranum bergeri* = *D. affine* Funck  
*Dicranum blyttii* = *Kiaeria blyttii* (B., S. & G.) Broth.  
*Dicranum falcatum* = *Kiaeria falcata* (Hedw.) I. Hag.

- Dicranum fulvellum* = *Arctoa fulvella* (Dicks.) B., S. & G.  
*Dicranum molle* = *Kiaeria glacialis* (Berggr.) I. Hag.  
*Dicranum muehlenbeckii* auct. = *D. acutifolium* (Lindb. & H. Arn.) Weim.  
*Dicranum neglectum* auct. = *D. congestum* Brid.  
*Dicranum spadiceum* auct. = *D. congestum* Brid.  
*Dicranum starkei* = *Kiaeria starkei* (Web. & Mohr) I. Hag.  
*Didymodon rubellus* = *Bryoerythrophyllum recurvirostrum* (Hedw.) Chen  
*Didymodon rufus* = *D. asperifolius* (Mitt.) Crum et al.  
*Diobelon squarrosus* = *Dicranella palustris* (Dicks.) E. Warb.  
*Diphyscium sessile* = *D. foliosum* (Hedw.) Mohr  
*Diplophyllum obtusifolium* – excluded  
*Dissodon splachnoides* = *Tayloria lingulata* (Dicks.) Lindb.  
*Distichium montanum* = *D. capillaceum* (Hedw.) B., S. & G.  
*Ditrichum glaucescens* = *Saelania glaucescens* (Hedw.) Broth.  
*Ditrichum homomallum* = *D. heteromallum* (Hedw.) Britt.  
*Ditrichum nivale* – excluded  
*Ditrichum tortile* = *D. pusillum* (Hedw.) Hampe  
*Drepanocladus cossonii* = *D. revolvens* (Sw.) Warnst.  
*Drepanocladus exannulatus* var. *tundrae* = *D. tundrae* (H. Arn.) Loeske  
*Drepanocladus intermedius* = *D. revolvens* (Sw.) Warnst.  
*Drepanocladus kneiffii* = *D. aduncus* (Hedw.) Warnst.  
*Drepanocladus polycarpus* = *D. aduncus* (Hedw.) Warnst.
- Encalypta contorta* = *E. steptocarpa* Hedw.  
*Entodon orthocarpus* = *E. concinnus* (DeNot.) Par.  
*Entodon schreberi* = *Pleurozium schreberi* (Brid.) Mitt.  
*Entosthodon ericetorum* = *E. obtusus* (Hedw.) Lindb.  
*Entosthodon fascicularis* – excluded  
*Erythrophyllum recurvirostrum* = *Bryoerythrophyllum recurvirostrum* (Hedw.) Chen  
*Erythrophyllum rubellum* = *Bryoerythrophyllum recurvirostrum* (Hedw.) Chen  
*Eucalyx obovatus* = *Jungermannia obovata* Nees  
*Eucalyx subellipticus* = *Jungermannia subelliptica* (Kaal.) Lev.  
*Eurhynchium cirrosus* – excluded  
*Eurhynchium diversifolium* = *E. pulchellum* (Hedw.) Jenn.  
*Eurhynchium meyeri* = *Cirriphyllum piliferum* (Hedw.) Grout  
*Eurhynchium piliferum* = *Cirriphyllum piliferum* (Hedw.) Grout  
*Eurhynchium stokesii* = *E. praelongum* (Hedw.) B., S. & G.  
*Eurhynchium strigosum* = *E. pulchellum* (Hedw.) Jenn.  
*Eurhynchium swartzii* = *E. hians* (Hedw.) Sande Lac.
- Fegatella conica* = *Conocephalum conicum* (L.) Lindb.  
*Fimbriaria ludwigii* auct. = *Asterella gracilis* (F. Web.) Underw.  
*Fimbriaria pilosa* = *Asterella gracilis* (F. Web.) Underw.  
*Fissidens decipiens* = *F. cristatus* Mitt.  
*Fontinalis androgyna* = *F. antipyretica* Hedw.  
*fontinalis gracilis* = *F. antipyretica* Hedw.  
*fontinalis islandica* = *F. antipyretica* Hedw.  
*Fontinalis longifolia* = *F. antipyretica* Hedw.  
*Fontinalis thulensis* = *F. antipyretica* Hedw.  
*Fossombronina dumortieri* = *F. foveolata* Lindb.  
*Funaria attenuata* = *Entosthodon attenuatus* (Dicks.) Bryhn  
*Funaria fascicularis* – excluded  
*Funaria obtusa* = *Entosthodon obtusus* (Hedw.) Lindb.
- Grimmia agassizii* = *Schistidium agassizii* Sull. & Lesq.  
*Grimmia alpicola* = *Schistidium rivulare* (Brid.) Podp.  
*Grimmia apocarpa* = *Schistidium apocarpum* (Hedw.) B. & S.  
*Grimmia commutata* = *G. ovalis* (Hedw.) Lindb.  
*Grimmia maritima* = *Schistidium maritimum* (Turn.) B. & S.

- Grimmia ovalis* auct. = *G. affinis* Hornsch.  
*Grimmia ovata* auct. = *G. affinis* Hornsch.  
*Grimmia patens* = *Dryptodon patens* (Hedw.) Brid.  
*Grimmia pulvinata* – excluded  
*Grimmia stricta* = *Schistidium apocarpum* (Hedw.) B. & S. (var.)  
*Gymnomitrium revolutum* = *Marsupella revoluta* (Nees) Dum.  
*Gymnomitrium varians* = *Marsupella brevissima* (Dum.) Grolle  
*Gymnostomum recurvirostrum* = *Hymenostylium recurvirostrum* (Hedw.) Dix.  
*Gymnostomum rupestre* = *G. aeruginosum* Sm.
- Haplozia atrovirens* auct. = *Jungermannia borealis* Damsh. & Vana  
*Haplozia cordifolia* = *Jungermannia exsertifolia* Steph.  
*Haplozia crenulata* = *Jungermannia gracillima* Sm.  
*Haplozia pumila* = *Jungermannia pumila* With.  
*Haplozia riparia* = *Jungermannia atrovirens* Dum.  
*Haplozia sphaerocarpa* = *Jungermannia sphaerocarpa* Hook.  
*Hedwigia albicans* = *H. ciliata* (Hedw.) P. Beauv.  
*Herberta straminea* = *Herbertus stramineus* (Dum.) Trev.  
*Heterocladium squarrosulum* = *H. dimorphum* (Brid.) B., S. & G.  
*Hygroamblystegium filicinum* = *Cratoneuron filicinum* (Hedw.) Spruce  
*Hygroamblystegium fluviatile* = *Amblystegium fluviatile* (Hedw.) B., S. & G.  
*Hygroamblystegium tenax* = *Amblystegium tenax* (Hedw.) C. Jens.  
*Hygrohypnum dilatatum* = *H. duriusculum* (DeNot.) Jamieson  
*Hygrohypnum palustre* = *H. luridum* (Hedw.) Jenn.  
*Hylocomium loreum* = *Rhytidiadelphus loreus* (Hedw.) Warnst.  
*Hylocomium parietinum* = *Pleurozium schreberi* (Brid.) Mitt.  
*Hylocomium proliferum* = *H. splendens* (Hedw.) B., S. & G.  
*Hylocomium rugosum* = *Rhytidium rugosum* (Hedw.) Kindb.  
*Hylocomium squarrosulum* = *Rhytidiadelphus squarrosus* (Hedw.) Warnst.  
*Hylocomium triquetrum* = *Rhytidiadelphus triquetrus* (Hedw.) Warnst.  
*Hymenostomum microstomum* = *Weissia brachycarpa* (Nees & Hornsch.) Jur.  
*Hymenostylium curvirostre* = *H. recurvirostrum* (Hedw.) Dix.  
*Hypnum alpestre* = *Hygrohypnum alpestre* (Hedw.) Loeske  
*Hypnum alpinum* = *Hygrohypnum alpinum* (Lindb.) Loeske  
*Hypnum arcticum* = *Hygrohypnum smithii* (Sw.) Broth.  
*Hypnum chrysophyllum* = *Campylium chrysophyllum* (Brid.) J. Lange  
*Hypnum commutatum* = *Cratoneuron commutatum* (Hedw.) G. Roth  
*Hypnum cordifolium* = *Calliargon cordifolium* (Hedw.) Kindb.  
*Hypnum cupressiforme* var. *ericetorum* = *Hypnum jutlandicum* Holmen & Warncke  
*Hypnum curvicaule* = *Cratoneuron filicinum* (Hedw.) Spruce  
*Hypnum decipiens* = *Cratoneuron decipiens* (DeNot.) Loeske  
*Hypnum exannulatum* = *Drepanocladus exannulatus* (B., S. & G.) Warnst.  
*Hypnum filicinum* = *Cratoneuron filicinum* (Hedw.) Spruce  
*Hypnum fluitans* = *Drepanocladus fluitans* (Hedw.) Warnst.  
*Hypnum giganteum* = *Calliargon giganteum* (Schimp.) Kindb.  
*Hypnum kneiffii* = *Drepanocladus aduncus* (Hedw.) Warnst.  
*Hypnum imponens* – excluded  
*Hypnum intermedium* = *Drepanocladus revolvens* (Sw.) Warnst.  
*Hypnum molluscum* = *Ctenidium molluscum* (Hedw.) Mitt.  
*Hypnum ochraceum* = *Hygrohypnum ochraceum* (Wils.) Loeske  
*Hypnum palustre* = *Hygrohypnum luridum* (Hedw.) Jenn.  
*Hypnum polygamum* = *Campylium polygamum* (B., S. & G.) J. Lange & C. Jens.  
*Hypnum protensum* = *Campylium stellatum* (Hedw.) J. Lange & C. Jens.  
*Hypnum revolvens* = *Drepanocladus revolvens* (Sw.) Warnst.  
*Hypnum richardsonii* = *Calliargon richardsonii* (Mitt.) Kindb.  
*Hypnum sarmentosum* = *Calliargon sarmentosum* (Wahlenb.) Kindb.  
*Hypnum sendtneri* = *Drepanocladus sendtneri* (H. Muell.) Warnst.  
*Hypnum sommerfeltii* auct. = *Campylium calcareum* Crundw. & Nyh.  
*Hypnum stellatum* = *Campylium stellatum* (Hedw.) J. Lange & C. Jens.

*Hypnum stramineum* = *Calliergon stramineum* (Brid.) Kindb.  
*Hypnum trifarium* = *Calliergon trifarium* (Web. & Mohr) Kindb.  
*Hypnum turgescens* = *Scorpidium turgescens* (T. Jens.) Loeske  
*Hypnum uncinatum* = *Drepanocladus uncinatus* (Hedw.) Warnst.  
*Isopterygium borrierianum* = *I. elegans* (Brid.) Lindb.  
*Isothecium eumyosuroides* = *I. myosuroides* Brid.  
*Isothecium myosuroides* (Hedw.) Podp. = *I. alopecuroides* (Dubois) Isov.  
*Isothecium myurum* = *I. alopecuroides* (Dubois) Isov.  
*Isothecium tenuinerve* = *I. myosuroides* Brid.  
*Isothecium viviparum* = *I. alopecuroides* (Dubois) Isov.

*Jungermannia hatcheri* = *Barbilophozia hatcheri* (Evans) Loeske

*Kiaeria fulvella* = *Arctoa fulvella* (Dicks.) B., S. & G.

*Leiocolea bantriensis* = *Lophozia bantriensis* (Hook.) Steph.  
*Leiocolea gillmanii* = *Lophozia gillmanii* (Aust.) Schust.  
*Leiocolea heterocolops* = *Lophozia heterocolops* (Thed.) Howe  
*Leiocolea hornschiiana* = *Lophozia bantriensis* (Hook.) Steph.  
*Leiocolea muelleri* = *Lophozia collaris* (Nees) Dum.  
*Leiocolea rutheana* = *Lophozia rutheana* (Limpr.) Howe  
*Lepidozia setacea* = *Kurzia pauciflora* (Dicks.) Grolle  
*Leptodontium flexifolium* – excluded  
*Leptoscyphus anomalus* = *Mylia anomala* (Hook.) S. Gray  
*Lescuraea atrovirens* = *L. incurvata* (Hedw.) Lawt.  
*Lescuraea atrovirens* var. *patens* = *L. patens* (Lindb.) H. Arn. & C. Jens.  
*Lescuraea breidlerii* = *L. radicata* (Mitt.) Moenk.  
*Lescuraea decipiens* auct. = *L. saxicola* (B., S. & G.) Milde  
*Lescuraea denudata* = *L. radicata* (Mitt.) Moenk.  
*Lescuraea filamentosa* = *L. incurvata* (Hedw.) Lawt.  
*Lescuraea mutabilis* var. *saxatilis* = *L. saxicola* (B., S. & G.) Milde  
*Leskea catenulata* – excluded  
*Leskea nervosa* = *Pseudoleskeella nervosa* (Brid.) Nyh.  
*Leskeella nervosa* = *Pseudoleskeella nervosa* (Brid.) Nyh.  
*Leskeella tectorum* = *Pseudoleskeella tectorum* (Brid.) Broth.  
*Lesquereuxia saxicola* = *Lescuraea saxicola* (B., S. & G.) Milde  
*Lophocolea cuspidata* = *L. bidentata* (L.) Dum.  
*Lophozia alpestris* auct. = *L. sudetica* (Nees) Grolle  
*Lophozia atlantica* = *Barbilophozia atlantica* (Kaal.) K. Muell.  
*Lophozia barbata* = *Barbilophozia barbata* (Schreb.) Loeske  
*Lophozia binsteadii* = *Barbilophozia binsteadii* (Kaal.) Loeske  
*Lophozia ehrhartiana* = *L. sudetica* (Nees) Grolle  
*Lophozia floerkei* = *Barbilophozia floerkei* (Web. & Mohr) Loeske  
*Lophozia hatcheri* = *Barbilophozia hatcheri* (Evans) Loeske  
*Lophozia hornschiiana* = *L. bantriensis* (Hook.) Steph.  
*Lophozia kunzeana* = *Barbilophozia kunzeana* (Hueb.) K. Muell.  
*Lophozia longiflora* = *L. ventricosa* (Dicks.) Dum. (var.)  
*Lophozia lycopodioides* = *Barbilophozia lycopodioides* (Wallr.) Loeske  
*Lophozia lycopodioides* var. *parvifolia* = *Barbilophozia hatcheri* (Evans) Loeske  
*Lophozia marchica* = *L. laxa* (Lindb.) Grolle  
*Lophozia muelleri* = *L. collaris* (Nees) Dum.  
*Lophozia porphyroleuca* – excluded  
*Lophozia quadriloba* = *Barbilophozia quadriloba* (Lindb.) Loeske  
*Lophozia quinquentata* = *Tritomaria quinquentata* (Huds.) Buch  
*Lophozia schultzei* = *L. rutheana* (Limpr.) Howe  
*Lophozia tenera* auct. = *Tritomaria quinquentata* (Huds.) Buch  
*Lophozia ventricosa* var. *prophyroleuca* – excluded

*Madotheca cordaeana* = *Porella cordaeana* (Hueb.) Moore



- Marsupella aquatica* = *M. emarginata* (Ehrh) Dum. (var.)  
*Marsupella ustulata* = *M. sprucei* (Limpr.) H. Bernet  
*Marsupella varians* = *M. brevissima* (Dum.) Grolle  
*Martinellia paludicola* = *Scapania paludicola* Loeske & K. Muell.  
*Meesia albertinii* = *M. hexasticha* (Funck) Bruch  
*Meesia trichodes* = *M. uliginosa* Hedw.  
*Meesia trifaria* = *M. triquetra* (Richter) Aongstr.  
*Mniobryum albicans* = *Pohlia wahlenbergii* (Web. & Mohr) Andr.  
*Mnium affine* auct. = *Plagiomnium ellipticum* (Brid.) T. Kop.  
*Mnium cinclidioides* = *Pseudobryum cinclidioides* (Hueb.) T. Kop.  
*Mnium cuspidatum* = *Plagiomnium cuspidatum* (Hedw.) T. Kop.  
*Mnium medium* = *Plagiomnium medium* (B. & S.) T. Kop.  
*Mnium orthorrhynchum* auct. = *M. thomsonii* Schimp.  
*Mnium pseudopunctatum* = *Rhizomnium pseudopunctatum* (B. & S.) T. Kop.  
*Mnium punctatum* = *Rhizomnium punctatum* (Hedw.) T. Kop.  
*Mnium punctatum* var. *elatum* = *Rhizomnium magnifolium* (Horik.) T. Kop.  
*Mnium rostratum* = *Plagiomnium rostratum* (Schrad.) T. Kop.  
*Mnium rugicum* = *Plagiomnium ellipticum* (Brid.) T. Kop.  
*Mnium seligeri* = *Plagiomnium elatum* (B. & S.) T. Kop.  
*Mnium serratum* = *M. marginatum* (With.) P. Beauv.  
*Mnium subglobosum* = *Rhizomnium pseudopunctatum* (B. & S.) T. Kop.  
*Mnium undulatum* = *Plagiomnium undulatum* (Hedw.) T. Kop.  
*Myurella apiculata* = *M. tenerrima* (Brid.) Lindb.
- Odontoschisma denudatum* – excluded  
*Orthotrichum blyttii* = *O. pylaisii* Brid.  
*Orthotrichum killiasii* = *O. speciosum* Nees  
*Orthotrichum microblepharum* = *O. pylaisii* Brid.  
*Orthotrichum saxatile* = *O. anomalum* Hedw.  
*Orthotrichum sturmii* = *O. rupestre* Schwaegr.
- Philonotis calcarea* – excluded  
*Philonotis capillaris* auct. = *P. arnellii* Husn.  
*Plagiochila asplenioides* auct. = *P. porelloides* (Nees) Lindenb.  
*Plagiomnium affine* – excluded  
*Plagiomnium rugicum* = *P. ellipticum* (Brid.) T. Kop.  
*Plagiothecium depressum* = *Taxiphyllum wissgrillii* (Garov.) Wijk & Marg.  
*Plagiothecium elegans* = *Isopterygium elegans* (Brid.) Lindb.  
*Plagiothecium pulchellum* = *Isopterygium pulchellum* (Hedw.) Jaeg.  
*Plagiothecium roeseanum* = *P. cavifolium* (Brid.) Iwats.  
*Plagiothecium silvaticum* auct. = *P. succulentum* (Wils.) Lindb.  
*Platydictya jungermannioides* = *Amblystegium jungermannioides* (Brid.) A. J. E. Sm.  
*Platyhypnidium riparioides* = *Rhynchostegium riparioides* (Hedw.) Card.  
*Plectocolea obovata* = *Jungermannia obovata* Nees  
*Plectocolea subelliptica* = *Jungermannia subelliptica* (Kaal.) Lev.  
*Pleuroidium alternifolium* = *P. subulatum* (Hedw.) Rabenh.  
*Pleuroclada albescens* = *Pleurocladula albescens* (Hook.) Grolle  
*Pogonatum capillare* = *P. dentatum* (Brid.) Brid.  
*Pogonatum polytrichoides* = *P. nanum* (Hedw.) P. Beauv.  
*Pohlia acuminata* = *P. elongata* Hedw.  
*Pohlia commutata* = *P. drummondii* (C. Muell.) Andr.  
*Pohlia cucullata* = *P. obtusifolia* (Brid.) L. Koch  
*Pohlia gracilis* = *P. filum* (Schimp.) Maort.  
*Pohlia grandiflora* = *P. annotina* (Hedw.) Lindb.  
*Pohlia minor* = *P. elongata* Hedw.  
*Pohlia polymorpha* = *P. elongata* Hedw.  
*Pohlia rothii* auct. = *P. drummondii* (C. Muell.) Andr.  
*Pohlia schleicheri* = *P. filum* (Schimp.) Maort.  
*Pohlia tenuifolia* = *P. bulbifera* (Warnst.) Warnst.

- Polytrichum alpestre = *P. strictum* Brid.  
 Polytrichum gracile = *P. longisetum* Brid.  
 Polytrichum jensenii = *P. commune* Hedw.  
 Polytrichum norvegicum auct. = *P. sexangulare* Brid.  
 Polytrichum sphaerothecium = *P. sexangulare* Brid. (var.)  
 Polytrichum swartzii = *P. commune* Hedw.  
 Polytrichum urnigerum = *Pogonatum urnigerum* (Hedw.) P. Beauv.  
 Pottia heimii = *Desmatodon heimii* (Hedw.) Mitt.  
 Pottia latifolia = *Stegonia latifolia* (Schwaegr.) Broth.  
 Preissia commutata = *P. quadrata* (Scop.) Nees  
 Pseudoleskea atrovirens = *Lescurea incurvata* (Hedw.) Lawt.  
 Pseudoleskea breidlerii = *Lescurea radicata* (Mitt.) Moenk.  
 Pseudoleskea denudata = *Lescurea radicata* (Mitt.) Moenk.  
 Pseudoleskea incurvata = *Lescurea incurvata* (Hedw.) Lawt.  
 Pseudoleskea patens = *Lescurea patens* (Lindb.) H. Arn. & C. Jens.  
 Pseudoleskea radicata = *Lescurea radicata* (Mitt.) Moenk.
- Racomitrium affine acut. = *R. sudeticum* (Funck) B. & S.  
 Racomitrium hypnoides = *R. lanuginosum* (Hedw.) Brid.  
 Racomitrium patens = *Dryptodon patens* (Hedw.) Brid.  
 Rhizomnium perssonii = *R. magnifolium* (Horik.) T. Kop.  
 Rhynchostegiella compacta = *Amblystegium compactum* (C. Muell.) Aust.  
 Rhynchostegium rusciforme = *R. riparioides* (Hedw.) Card.  
 Rhytidadelphus calvescens = *R. subpinnatus* (Lindb.) T. Kop.  
 Riccia crystallina auct. = *R. cavernosa* Hoffm.
- Saccobasis polita = *Tritomaria polita* (Nees) Joerg.  
 Saelania caesia = *S. glaucescens* (Hedw.) Broth.  
 Scapania bartlingii = *S. cuspiduligera* (Nees) K. Muell.  
 Scapania dentata = *S. undulata* (L.) Dum.  
 Scapania obliqua = *S. uliginosa* (Lindenb.) Dum.  
 Scapania remota = *S. hyperborea* Joerg.  
 Schistidium alpicola = *S. rivulare* (Brid.) Podp.  
 Schistidium angustum = *S. agassizii* Sull. & Lesq.  
 Schistidium apocarpum ssp. confertum = *S. apocarpum* (Hedw.) B. & S. (var.)  
 Schistidium apocarpum ssp. gracile = *S. apocarpum* (Hedw.) B. & S. (var.)  
 Schistidium apocarpum ssp. vulgare = *S. apocarpum* (Hedw.) B. & S.  
 Schistidium confertum = *S. apocarpum* (Hedw.) B. & S. (var.)  
 Schistidium gracile = *S. apocarpum* (Hedw.) B. & S. (var.)  
 Schistidium papillosum = *S. apocarpum* (Hedw.) B. & S. (var.)  
 Serpoleskea sprucei = *Amblystegium jungermannoides* (Brid.) A. J. E. Sm.  
 Solenostoma crenulatum = *Jungermannia gracillima* Sm.  
 Solenostoma oblongifolium auct. = *Jungermannia borealis* Damsh. & Vana  
 Sphagnum acutifolium = *S. capillifolium* (Ehrh.) Hedw.  
 Sphagnum amblyphyllum = *S. flexuosum* Dozy & Molk.  
 Sphagnum apiculatum = *S. fallax* (Klinggr.) Klinggr.  
 Sphagnum auriculatum = *S. lescurii* Sull.  
 Sphagnum capillaceum = *S. capillifolium* (Ehrh.) Hedw.  
 Sphagnum contortum var. platyphyllum = *S. platyphyllum* (Braithw.) Warnst.  
 Sphagnum cymbifolium = *S. palustre* L.  
 Sphagnum dusenii – excluded  
 Sphagnum fallax ssp. flexuosum = *S. flexuosum* Dozy & Molk.  
 Sphagnum gravetii = *S. lescurii* Sull.  
 Sphagnum inundatum = *S. lescurii* Sull.  
 Sphagnum medium = *S. magellanicum* Brid.  
 Sphagnum nemoreum = *S. capillifolium* (Ehrh.) Hedw.  
 Sphagnum parvifolium = *S. angustifolium* (Russ.) C. Jens.  
 Sphagnum plumulosum = *S. subnitens* Russ. & Warnst.  
 Sphagnum recurvum auct. = *S. fallax* (Klinggr.) Klinggr.

*Sphagnum recurvum* var. *amblyphyllum* = *S. flexuosum* Dozy & Molk.  
*Sphagnum robustum* = *S. russowii* Warnst.  
*Sphagnum rubellum* – excluded  
*Sphagnum subbicolor* = *S. centrale* C. Jens.  
*Sphagnum subsecundum* var. *auriculatum* = *S. lescurii* Sull.  
*Sphagnum subsecundum* var. *bavaricum* = *S. lescurii* Sull.  
*Sphagnum subsecundum* var. *gravetii* = *S. lescurii* Sull.  
*Sphagnum subsecundum* var. *inundatum* = *S. lescurii* Sull.  
*Sphagnum warnstorffianum* = *S. warnstorffii* Russ.  
*Sphenolobus politus* = *Tritomaria polita* (Nees) Joerg.  
*Sphenolobus saxicola* = *Anastrophyllum saxicola* (Schrad.) Schust.  
*Splachnum ovatum* = *S. sphaericum* Hedw.  
*Syntrichia ruralis* = *Tortula ruralis* (Hedw.) Gaertn. et al.

*Tetraplodon bryoides* = *T. mnioides* (Hedw.) B. & S.  
*Thamnum alopecurum* = *Thamnobryum alopecurum* (Hedw.) Nieuwl.  
*Thuidium delicatulum* = *T. erectum* Duby  
*Thuidium lanatum* = *Helodium blandowii* (Web. & Mohr) Warnst.  
*Tomentypnum nitens* = *Homalothecium nitens* (Hedw.) Robins.  
*Tortula aciphylla* = *T. norvegica* (F. Web.) Lindb.  
*Trichostomum littorale* = *T. brachydontium* Bruch

*Webera cruda* = *Pohlia cruda* (Hedw.) Lindb.  
*Weissia crispata* auct. = *W. controversa* Hedw.  
*Weissia fallax* auct. = *W. controversa* Hedw.  
*Weissia microstoma* = *W. brachycarpa* (Nees & Hornsch.) Jur.  
*Weissia viridula* = *W. controversa* Hedw.

## V CHANGES IN NOMENCLATURE AND TAXONOMY FROM ARNELL (1956), NYHOLM (1954–1969) and SMITH (1978)

Accepted names are listed in alphabetic order in the left column and followed by the names used by Arnell, Nyholm and Smith.

### A Changes from Arnell

*Anastrophyllum saxicola* (Schrad.) Schust. – *Sphenolobus saxicolus*  
*Aneura pinguis* (L.) Dum. – *Riccardia pinguis*  
*Anthelia julacea* (L.) Dum. – *A. julacea* and *A. juratzkana*  
*Asterella gracilis* (F. Web.) Underw. – *A. ludwigii*  
*Barbilophozia atlantica* (Kaal.) K. Muell. – *Orthocaulis atlanticus*  
*Barbilophozia binsteadii* (Kaal.) Loeske – *Orthocaulis binsteadii*  
*Barbilophozia floerkei* (Web. & Mohr) Loeske – *Orthocaulis floerkei*  
*Barbilophozia kunzeana* (Hueb.) K. Muell. – *Orthocaulis kunzeanus*  
*Barbilophozia quadriloba* (Lindb.) Loeske – *Orthocaulis quadrilobus*  
*Calypogeia integristipula* Steph. – *C. meylanii*  
*Cephalozia bicuspidata* (L.) Dum. – *C. bicuspidata*, *C. ambigua* and *C. lammersiana*  
*Cephalozia lunulifolia* (Dum.) Dum. – *C. media*  
*Cephaloziella spinigera* (Lindb.) Joerg. – *C. subdentata*

*Chiloscyphus polyanthos* (L.) Corda – *C. polyanthos* and *C. pallescens*  
*Fossombronina foveolata* Lindb. – *F. dumortieri*  
*Herbertus stramineus* (Dum.) Trev. – *Herberta adunca*  
*Jungermannia atrovirens* Dum. – *J. tristis*  
*Jungermannia borealis* Damsh. & Vana – *J. oblongifolia*  
*Jungermannia confertissima* Nees – *J. scalariformis* and *J. levieri*  
*Jungermannia exsertifolia* Steph. – *J. cordifolia*  
*Jungermannia gracillima* Sm. – *J. crenulata*  
*Jungermannia hyalina* Lyell – *Plectocolea hyalina*  
*Jungermannia jenseniana* Grolle – *J. pusilla*  
*Jungermannia obovata* Nees – *Plectocolea obovata*  
*Jungermannia polaris* Lindb. – *J. polaris* and *J. schiffneri*  
*Jungermannia subelliptica* (Kaal.) Lev. – *Plectocolea subelliptica*  
*Kurzia pauciflora* (Dicks.) Grolle – *Lepidozia setacea*  
*Lophocolea bidentata* (L.) Dum. – *L. bidentata* and *L. cuspidata*  
*Lophozia bantriensis* (Hook.) Steph. – *Leiocolea bantriensis*  
*Lophozia bicrenata* (Hoffm.) Dum. – *Isopaches bicrenatus*  
*Lophozia collaris* (Nees) Dum. – *Leiocolea muelleri*  
*Lophozia elongata* Steph. – *Orthocaulis elongatus*  
*Lophozia gillmanii* (Aust.) Schust. – *Leiocolea gillmanii*  
*Lophozia heterocolpos* (Thed.) Howe – *Leiocolea heterocolpos*  
*Lophozia laxa* (Lindb.) Grolle – *L. marchica*  
*Lophozia obtusa* (Lindb.) Evans – *Obtusifolium obtusum*  
*Lophozia rutheana* (Limpr.) Howe – *Leiocolea rutheana*  
*Lophozia sudetica* (Nees) Grolle – *L. alpestris*  
*Lophozia ventricosa* (Dicks.) Dum. – *L. ventricosa*, *L. longiflora* and *L. silvicola*  
*Marchantia polymorpha* L. – *M. polymorpha* and *M. aquatica*  
*Marsupella brevissima* (Dum.) Grolle – *M. varians*  
*Marsupella emarginata* (Ehrh.) Dum. – *M. emarginata* and *M. aquatica*  
*Marsupella sprucei* (Limpr.) H. Bernet – *M. sprucei* and *M. ustulata*  
*Plagiochila porelloides* (Nees) Lindenb. – *P. asplenioides*  
*Pleurocladula albescens* (Hook.) Grolle – *Pleuroclada albescens*  
*Radula complanata* (L.) Dum. – *R. complanata* and *R. lindbergiana*  
*Riccardia chamaedryfolia* (With.) Grolle – *R. sinuata*  
*Riccia cavernosa* Hoffm. – *R. crystallina*  
*Scapania obcordata* (Berggr.) S. Arn. – *S. lapponica*  
*Scapania praetervisiva* Meyl. – *S. mucronata* var. *praetervisiva*  
*Tritomaria polita* (Nees) Joerg. – *Saccobasis polita*

## B Changes from Nyholm

*Amblystegium compactum* (C. Muell) Aust. – *Rhynchostegiella compacta*  
*Amblystegium humile* (P. Beauv.) Crundw. – *A. kochii*  
*Amblystegium jungermannoides* (Brid.) A. J. E. Sm. – *Amblystegiella jungermannoides*  
*Anoetangium aestivum* (Hedw.) Mitt. – *A. compactum*  
*Arctoa anderssonii* Wich. – *A. fulvella* var. *anderssonii*  
*Brachythecium albicans* (Hedw.) B., S. & G. – *B. albicans* and *B. groenlandicum*  
*Bryoerythrophyllum ferruginascens* (Stirt.) Giac. – *Barbula ferruginascens*  
*Bryoerythrophyllum recurvirostrum* (Hedw.) Chen – *Barbula recurvirostris*  
*Bryum algovicum* C. Muell. – *B. pendulum*  
*Bryum axelblyttii* Philib. – *B. acutum*  
*Bryum creberrimum* Tayl. – *B. affine*  
*Bryum dunense* A. J. E. Sm. & H. Whiteh. – included in *B. bicolor*  
*Bryum elegans* Brid. – included in *B. capillare*  
*Bryum flaccidum* Brid. – included in *B. capillare*  
*Bryum knowltonii* Barnes – *B. lacustre*  
*Bryum pseudotriquetrum* (Hedw.) Gaertn. et al. – *B. pseudotriquetrum* and *B. bimum*  
*Bryum schleicheri* Lam. & DC. – included in *B. pseudotriquetrum*  
*Bryum stirtonii* Schimp. – included in *B. capillare*

- Bryum subapiculatum* Hampe – included in *B. erythrocarpum*  
*Bryum tenuisetum* Limpr. – included in *B. erythrocarpum*  
*Desmatodon heimii* (Hedw.) Mitt. – *Pottia heimii*  
*Dicranella palustris* (Dicks.) E. Warb. – *D. squarrosa*  
*Dicranum acutifolium* (Lindb. & H. Arn.) Weim. – *D. muehlenbeckii* var. *acutifolium*  
*Dicranum affine* Funck – *D. bergeri*  
*Dicranum congestum* Brid. – *D. fuscescens* var. *congestum*  
*Dicranum tauricum* Sap. – *Orthodicranum strictum*  
*Didymodon asperifolius* (Mitt.) Crum et al. – *Barbula rufa*  
*Didymodon fallax* (Hedw.) Zander – *Barbula fallax*  
*Didymodon icmadophilus* (C. Muell.) K. Saito – *Barbula icmadophila*  
*Didymodon rigidulus* Hedw. – *Barbula rigidula*  
*Didymodon tophaceus* (Brid.) Lisa – *Barbula tophacea*  
*Didymodon vinealis* (Brid.) Zander – *Barbula vinealis*  
*Drepanocladus aduncus* (Hedw.) Warnst. – *D. aduncus* and *D. polycarpus*  
*Drepanocladus fluitans* (Hedw.) Warnst. – *D. fluitans* and *D. schulzei*  
*Dryptodon patens* (Hedw.) Brid. – *Grimmia patens*  
*Eurhynchium hians* (Hedw.) Sande Lac. – *E. praelongum*  
*Eurhynchium praelongum* (Hedw.) B., S. & G. – *E. stokesii*  
*Fissidens pusillus* (Wils.) Milde – *F. pusillus* and *F. minutulus*  
*Grimmia affinis* Hornsch. – *G. ovalis*  
*Grimmia anomala* Schimp. – *G. hartmanii* var. *anomala*  
*Grimmia ovalis* (Hedw.) Lindb. – *G. commutata*  
*Homalothecium nitens* (Hedw.) Robins. – *Tomentypnum nitens*  
*Hygrohypnum duriusculum* (DeNot.) Jamieson – *H. dilatatum*  
*Hypnum jutlandicum* Holmen & Warncke – *H. ericetorum*  
*Isothecium alopecuroides* (Dubois) Isov. – *I. myurum*  
*Mnium marginatum* (With.) P. Beauv. – *M. serratum*  
*Mnium thomsonii* Schimp. – *M. orthorrhynchum*  
*Myurella tenerrima* (Brid.) Lindb. – *M. apiculata*  
*Orthotrichum pylaisii* Brid. – *O. microblephare*  
*Oxystegus tenuirostris* (Hook. & Tayl.) A. J. E. Sm. – *Trichostomum cylindricum*  
*Plagiomnium cuspidatum* (Hedw.) T. Kop. – *Mnium cuspidatum*  
*Plagiomnium elatum* (B. & S.) T. Kop. – *Mnium seligeri*  
*Plagiomnium ellipticum* (Brid.) T. Kop. – *Mnium rugicum*  
*Plagiomnium medium* (B. & S.) T. Kop. – *Mnium affine* var. *medium*  
*Plagiomnium rostratum* (Schrad.) T. Kop. – *Mnium longirostre*  
*Plagiomnium undulatum* (Hedw.) T. Kop. – *Mnium undulatum*  
*Plagiothecium cavifolium* (Brid.) Iwats. – *P. roeseanum*  
*Pogonatum dentatum* (Brid.) Brid. – *P. capillare*  
*Pohlia filum* (Schimp.) Maort. – *P. gracilis*  
*Pohlia obtusifolia* (Brid.) L. Koch – *P. cucullata*  
*Pohlia wahlenbergii* (Web. & Mohr) Andr. – *P. albicans*  
*Polytrichum sexangulare* Brid. – *P. norvegicum*  
*Polytrichum strictum* Brid. – *P. juniperinum* var. *gracilius*  
*Pseudobryum cinclidioides* (Hueb.) T. Kop. – *Mnium cinclidioides*  
*Racomitrium elongatum* (Ehrh.) Frisvoll – *R. canescens* var. *ericoides*  
*Racomitrium ericoides* (Brid.) Brid. – *R. canescens* var. *ericoides*  
*Racomitrium sudeticum* (Funck) B. & S. – *R. heterostichum* var. *sudeticum*  
*Rhizomnium magnifolium* (Horik.) T. Kop. – *Mnium punctatum* var. *elatum*  
*Rhizomnium pseudopunctatum* (B. & S.) T. Kop. – *Mnium pseudopunctatum*  
*Rhizomnium punctatum* (Hedw.) T. Kop. – *Mnium punctatum*  
*Rhytidiadelphus subpinnatus* (Lindb.) T. Kop. – *R. calvescens*  
*Schistidium rivulare* (Brid.) Podp. – *S. alpicola*  
*Sphagnum angustifolium* (Russ.) C. Jens. – *S. fallax* var. *angustifolium*  
*Sphagnum capillifolium* (Ehrh.) Hedw. – *S. memoreum*  
*Sphagnum flexuosum* Dozy & Molk. – *S. fallax* var. *flexuosum*  
*Sphagnum lescurii* Sull. – *S. subsecundum* var. *inundatum* and var. *auriculatum*  
*Splachnum sphaericum* Hedw. – *S. ovatum*

Thamnobryum alopecurum (Hedw.) Nieuwl. – Thamnium alopecurum  
 Thuidium abietinum (Hedw.) B., S. & G. – Abietinella abietina  
 Thuidium erectum Duby – T. delicatulum  
 Tortula ruraliformis (Besch.) Grout – T. ruralis var. ruraliformis  
 Weissia brachycarpa (Nees & Hornsch.) Jur. – W. microstoma

### C Changes from Smith

Amblystegium jungermannoides (Brid.) A. J. E. Sm. – Platydictya jungermannioides  
 Anomobryum julaceum (Gaertn. et al.) Schimp. – A. filiforme  
 Bryoerythrophyllum ferruginascens (Stirt.) Giac. – Barbula ferruginascens  
 Bryoerythrophyllum recurvirostrum (Hedw.) Chen – Barbula recurvirostra  
 Bryum subapiculatum Hampe – B. microerythrocarpum  
 Calliergonella cuspidata (Hedw.) Loeske – Calliergon cuspidatum  
 Campylopus flexuosus (Hedw.) Brid. – C. paradoxus  
 Desmatodon heimii (Hedw.) Mitt. – Pottia heimii  
 Dicranum affine Funck – D. undulatum  
 Dicranum congestum Brid. – D. fuscescens var. congestum  
 Didymodon asperifolius (Mitt.) Crum et al. – Barbula asperifolia  
 Didymodon fallax (Hedw.) Zander – Barbula fallax  
 Didymodon icmadophilus (C. Muell.) K. Saito – Barbula icmadophila  
 Didymodon mamillosus (Crunchw.) M. Hill – Barbula mamillosa  
 Didymodon rigidulus Hedw. – Barbula rigidula  
 Didymodon tophaceus (Brid.) Lisa – Barbula tophacea  
 Didymodon vinealis (Brid.) Zander – Barbula vinealis and B. cylindrica  
 Entosthodon attenuatus (Dicks.) Bryhn – Funaria attenuata  
 Entosthodon obtusus (Hedw.) Lindb. – Funaria obtusa  
 Eurhynchium hians (Hedw.) Sande Lac. – E. swartzii  
 Fissidens pusillus (Wils.) Milde – included in F. viridulus  
 Hygrohypnum duriusculum (DeNot.) Jamieson – H. dilatatum  
 Hymenostylium recurvirostrum (Hedw.) Dix. – Gymnostomum recurvirostrum  
 Isothecium alopecuroides (Dubois) Isov. – I. myurum  
 Kiaeria glacialis (Berggr.) I. Hag. – Dicranum glaciale  
 Pohlia andalusica (Hoehnel) Broth. – P. rothii  
 Pohlia annotina (Hedw.) Lindb. – included in P. prolifera  
 Polytrichum strictum Brid. – P. alpestre  
 Racomitrium elongatum (Ehrh.) Frisvoll – R. canescens var. ericoides  
 Racomitrium ericoides (Brid.) Brid. – R. canescens var. ericoides  
 Racomitrium sudeticum (Funck) B. & S. – R. affine  
 Schistidium rivulare (Brid.) Podp. – S. alpicola  
 Schistidium apocarpum (Hedw.) B. & S. – S. apocarpum and S. strictum  
 Scleropodium purum (Hedw.) Limpr. – Pseudoscleropodium purum  
 Sphagnum angustifolium (Russ.) C. Jens. – S. recurvum var. tenue  
 Sphagnum fallax (Klinggr.) Klinggr. – S. recurvum var. mucronatum  
 Sphagnum flexuosum Dozy & Molk. – S. recurvum var. amblyphyllum  
 Sphagnum lescurii Sull. – S. auriculatum  
 Thuidium erectum Duby – T. delicatulum  
 Tortula ruraliformis (Besch.) Grout – T. ruralis ssp. ruraliformis  
 Weissia brachycarpa (Nees & Hornsch.) Jur. – W. microstoma

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