

## The Second Checklist of Bryobionta of Ukraine

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The second checklist of bryophytes of Ukraine is given according to the contemporary taxonomical system in this edition (Checklist first published in 2008). The bryophytes (superdivision Bryobionta) refer to 3 divisions: Anthocerotophyta (4 species), Marchantiophyta (192 species), Bryophyta (653 species). Species are placed alphabetically. Modern Latin names and known synonyms are given to each species. Literature sources on the Ukrainian bryoflora, including those published long ago as well as of the latest decades, especially generalized works, are quoted here. Distribution of all the species both in physiogeographic plains zones and mountain landscapes: zone of mixed coniferous-deciduous forests (Ukraine Polissja), zone of deciduous forests (nemoral zone), the Forest-steppe zone, the Steppe zone (with steppe Crimea), Carpathian mountain region, Crimean mountain region and administrative regions of Ukraine is shown. The indications about species which were not presented in the first Ukrainian Checklist of Briobionta (2008), questionable species and species that were excluded from Ukrainian bryoflora are given.

*Key words:* *Bryobionta, Anthocerotophyta, Marchantiophyta, Bryophyta, Checklist, Ukraine*

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Другий чекліст мохоподібних України складено відповідно до сучасної таксономічної системи бріофітів (перший чекліст опубліковано у 2008 році). Мохоподібні (надвідділ Bryobionta) відносяться до 3 відділів: Anthocerotophyta (4 види), Marchantiophyta (192 вид), мохи (653 види). Види у відділах розташовані в алфавітному порядку. Для кожного виду вказані сучасні латинські назви, найбільш відомі синоніми, поширення у фізико-географічних рівнинних зонах: зоні мішаних хвойно-широколистяних лісів (Українське Полісся), зоні широколистяних лісів (неморальна зона), лісостеповій зоні та степовій зоні (в т.ч у кримських степах) та у гірських ландшафтних країнах – Карпатська гірська країна (Українські Карпати), Кримська гірська країна та поширення видів в адміністративних областях України. Наводяться вказівки щодо видів, які не вказувалися у першому Чеклісті мохоподібних України (2008), а також сумнівні види та види, що виключені з бріофлори України.

*Ключові слова:* *Bryobionta, Anthocerotophyta, Marchantiophyta, Bryophyta, чекліст, Україна*

Бойко М.Ф. (2014). **Второй чеклист мохообразных Украины.** *Черноморск. бот. ж.*, **10** (4): 426-487. doi:10.14255/2308-9628/14.104/2.

Второй чеклист мохообразных Украины составлен в соответствии с современной таксономической системой бриофитов (первый чеклист опубликован в 2008 году). Мохообразные (надотдел Bryobionta) относятся к 3 отделам: Anthocerotophyta (4 вида), Marchantiophyta (192 вид), мхи (653 вида). Виды в отделах расположены в алфавитном порядке. Для каждого вида указаны современные латинские названия, наиболее известные синонимы, распространение в физико-географических равнинных зонах: (зоне смешанных хвойно-широколиственных лесов (Украинское Полесье), зоне широколиственных лесов (неморальная зона), лесостепной и степной зоне и в горных ландшафтных странах (Карпатская горная страна (Украинские Карпаты), Крымская горная страна и распространение видов в административных областях Украины.

Приводятся указания относительно видов, которые не указывались в первом Чеклисте мохообразных Украины (2008), а также сомнительные и исключенные из бриофлоры Украины виды.

*Ключевые слова:* Bryobionta, Anthocerotophyta, Marchantiophyta, Bryophyta, чеклист, Украина

### Introduction

Recently bryologists from all over the world have been intensively developing the issue of taxonomy and phylogeny of bryobionts (mosses). Materials on these issues are presented in many works [YATSENTYUK et al., 2004; BAKALIN, 2005; HE-NYNGREN et al., 2006; HENTSCHEL et al., 2007; ROO DE et al., 2007; CRANDALL-STOTLER et al., 2008, 2009; GOFFINET, BUCK, SHAW, 2008; HILL et al., 2006, 2008; KONSTANTINOVA et al., 2009; KONSTANTINOVA NA & VILNET AA, 2009; SÖDERSTRÖM, DE ROO, HEDD., 2010; RUBASINGHE et al., 2011 a, b; VILNET et al. 2011; VILNET et al., 2012; VÁÑA et al., 2012; FELDBERG et al., 2013; VÁÑA et al., 2013 a, b; CHECKLIST..., 2014, etc.].

The use of phylogenomics and new views on paleobryological materials made it possible to reflect the phylogeny of bryophytes and view their phylogenetic system more accurately [BUCK, GOFFINET & SHAW, 2000; GOFFINET, BUCK, 2004; TSUBOTA et al., 2002; COX & HEDDERSON, 2003; GRUNDMANN et al., 2006; HEDENÄS, 2006; HENTSCHEL et al., 2007; RENZAGLIA et al., 2008; OLSSON et al., 2011]. And review applies to the system as a whole and individual departments, classes, families, genera, species aggregates as well with justification of the places of each taxon in the system [LEWINSKY, 1993; ZANDER, 1993; GREVEN, 1995; BLOM, 1996; MUNOZ, PANDO, 2000; HEDENÄS, 2001; IGNATOV, HUTTUNEN, 2002; POTEKIN, 2002; VANDERPOORTEN et al., 2002; WERNER et al., 2002, 2004, 2005, 2007, 2013; HUTTUNEN, 2004; HUTTUNEN, IGNATOV, 2004, 2010; SCHUMACKER, VÁÑA, 2005; HOLYOAK, PEDERSEN, 2007; SENECA, SÖDERSTRÖM, 2009; VANDERPOORTEN, HEDENÄS, 2009; HOLYOAK, 2010; ROS, HERRNSTADT, 2010; VILNET et al., 2010; PLAŠEK, et al., 2011; BAKALIN, VILNET, 2012 etc.]. This takes into account many changes in the names of taxa that occurred in monographic descriptions of many genera, families and other taxa and which are used in various lists of bryoflora and bryophyte checklists [IGNATOV, AFONINA, 1992, GAPON, 1998, 2011; CROSBY et al., 1999; VIRCHENKO, VÁÑA, 2000; SÖDERSTRÖM, URMI, and VÁÑA, 2002; Kučera, VÁÑA, 2003; OCHYRA, ZARNOWIEC, BEDNAREK-OCHYRA, 2003; GOFFINET et al., 2004; BOIKO, 2008, 2011 a, b; HEDENAS, ROSBORG, 2008; BELL, HYVONEN, 2010; KOPONEN, ISOVIITA, 2010; FELDBERG et al., 2010; CROSBY, BUCK, 2011; ROS et al., 2008, 2013; CHECKLIST..., 2014, etc.]. Thereby, it should be noted that the expression of bryophytes system is changing very quickly.

The second edition of the checklist included materials on bryophytes, which appeared after the publication of the first "Checklist of bryophytes of Ukraine" [BOIKO, 2008].

These recent data about the new species from different regions of Ukraine, new to science species and types were missed for different reasons during preparation of the first checklist. Also changes in species composition that occurred as a result of new views of the author and other bryologists on taxonomy and the herbarium specimens study using modern techniques were taken into account [VIRCHENKO, ORLOV, 2011; GAPON, 2011; NYPORKO, PARTYKA, 2011; BOIKO, 2009 a,b,c, 2012; ROS et al., 2013; BARSUKOV, 2014, 2015; BOROVICHOV, NYPORKO, 2014 etc.].

Till 15.12.2014 Bryophyte flora of Ukraine consists of 849 species, 256 genera, 83 families, 29 orders, 8 classes, including: Anthocerotophyta – 4 species, 2 genera, 1 family, 1 order, class 1; Marchantiophyta – 192 species, 76 genera, 41 family, 10 orders, 2 classes; Bryophyta – 653 species, 196 genera, 49 families, 19 orders, 5 classes.

The system of bryophytes taxa of Ukraine given in the checklist corresponds to the author's view about their phylogeny and taxonomy, which are based on the materials of the

authors mentioned above [HILL et al., 2006, 2008 et al.; BOIKO, 2008; BRYOPHYTE BIOLOGY, 2008; CRANDALL-STOTLER et al., 2008, 2009; GOFFINET, BUCK, SHAW, 2008; RENZAGLIA et al., 2008; KONSTANTINOVA et al., 2009] and on the results of the world modern bryological achievements.

**THE SYSTEM OF TAXA OF SUPERDIVISIO BRYOBIONTA UKRAINE**  
(superdivisio, divisio, classis, ordo, familia, genus)

**SUPERDIVISIO: BRYOBIONTA**

**Divisio: ANTHOCEROTÓPHYTA Rothm.**

**Class: ANTHOCEROTÓPSIDA** de Bari ex Jancz.

Order: Anthocerotales Limpr.

Anthocerotaceae Trevis.

*Anthóceros*, L., *Phaeóceros* Prosk.

**Divisio: MARCHANTIÓPHYTA Stotler & Crand.-Stotl.**

**Class: HAPLOMITRIÓPSIDA** Stotler & Crand.-Stotl.

Order: Calobryales Hamlin

Haplomitriaceae Дкдкєйк

*Haplomítrium* Nees

**Class: MARCHANTIÓPSIDA** Cronquist, Takht. & W. Zimm.

Order: Blasiàles Stotler & Crand.-Stotl.

Blasiaceae H. Klinggr.

*Blàsia* L.

Order: Lunulariàles D.G.Long.

Lunulariaceae H.Klinggr.

*Lunulària* Adans.

Order: Marchantiàles Limpr.

Marchantiaceae Lindl.

*Marchàntia* L., *Préissia* Corda

Aytoniaceae Cavers

*Asterélla* P.Beauv., *Mánnia* Opiz, *Rebóulia* Raddi

Cleveaceae Cavers

*Clevéa* Lindb., *Sautéria* Nees

Conocephalaceae Müll.Frib. ex Grolle

*Conocéphalum* Hill

Oxymitraceae Mull. Frib. Ex Grolle

*Oxymíttra* Bisch. ex Lindenb.

Ricciaceae Rchb.

*Ríccia* L., *Ricciocórpos* Corda

Targioniaceae Dumort.

*Targiónia* L.

**Class: JUNGERMANNIÓPSIDA** Stotler & Crand.-Stotl.

Order: Pelliàles Xiao L.He, Juslén, Ahonen, Glenney & Piippo

Pelliaceae H.Klinggr.

*Péllia* Raddi

- Order: Fossombroniàles Schljakov  
Fossombroniàceae Hazsl.  
*Fossombrònia* Raddi
- Order: Pallaviciniàles W.Frey & M.Stech  
Moerckiàceae Stotler & Crand.-Stotl.  
*Moérckia* Gottsche  
Pallaviciniàceae Mig.  
*Pallavicinia* Gray
- Order: Metzgeriàles Chalaud  
Metzgeriàceae H.Klinggr.  
*Metzgéria* Raddi  
Aneuràceae H.Klinggr.  
*Anéura* Dumort., *Riccàrdia* Gray
- Order: Porellàles Schljakov  
Porellàceae Cavers  
*Porélla* L.  
Radulàceae Müll.Frib.  
*Ràdula* Dumort.  
Frullaniàceae Lorch  
*Frullània* Raddi  
Lejeuneàceae Cavers  
*Cololejéunea* (Spruce) Schiffn., *Lejéunea* Lib.
- Order: Ptilidiàles Schljakov  
Ptilidiàceae H.Klinggr.  
*Ptilídium* Nees
- Order: Jungermanniàles H.Klinggr.  
Pseudolepicoleàceae Fulford & J.Taylor  
*Blepharostóma* (Dumort.) Dumort.  
Trichocoleàceae Nakai  
*Trichocólea* Dumort.  
Lepidoziàceae R.M.Schust.  
*Bazzània* Gray, *Kúrzia* G.Martens, *Lepidózia* (Dumort.) Dumort.  
Lophocoleàceae Vanden Berghen  
*Chilóscyphus* Corda  
*Lophocólea* (Dumort.) Dumort.  
Plagiochilàceae Müll.Frib. & Herzog  
*Plagióchila* (Dumort.) Dumort.
- Jamesoniellàceae Xiao L.He, Juslén, Ahonen, Glenney & Piippo  
*Pedinophýllum* (Lindb.) Lindb., *Syzigiélla* Spruce  
Cephaloziàceae Mig.  
*Cephalózia* (Dumort.) Dumort., *Nowéllia* Mitt., *Pleurocládula* (Hook.) Grolle  
Odontoschismatàceae (Grolle) Schljakov  
*Cladopodiélla* H.Buch., *Odontoschísma* (Dumort.) Dumort.
- Cephaloziellàceae Douin  
*Cephaloziélla* (Spruce) Schiffn.
- Scapaniàceae Mig.  
*Diplophýllum* (Dumort.) Dumort., *Lophózia* (Dumort.) Dumort., *Lophoziópsis* Konstant.  
& Vilnet, *Scapània* (Dumort.) Dumort., *Tritomària* Schiffn. ex Loeske

Lophoziaceae Schleich.

*Trilophózia* (R.M. Schust.) Bakalin

Anastrophyllaceae L. Söderstr., De Roo & Hedd.

*Anastrépta* (Lindb.) Schiffn., *Anastrophýllum* (Spruce) Steph., *Barbilophózia* Loeske, *Crossocàlyx* Meyl., *Gymnocólea* (Dumort.) Dumort., *Isopàches* H.Buch, *Neoorthocàulis* L.Söderstr., De Roo & Hedd., *Schljakovianthus* Konstant. & Vilnet, *Sphenolóbus* (Lindb.) Berggr.

Myliaceae Schljakov

*Leiomyλία* J.J. Engel & Braggins, *Mýlia* Gray

Calypogeiaceae Arnell

*Calypogéia* Raddi

Jungermanniaceae Reichenbach

*Jungermànnia* L., *Lióchlaena* Nees, *Mesoptýchia* (Lindb.) A.Evans, *Schistochilópsis* (N. Kitag.) Konstant.

Endogemmataceae Konstant., Vilnet & Troitsky

*Endogémma* Konstant., Vilnet & Troitsky

Solenostomataceae Stotler & Crand.-Stotl.

*Nàrdia* Gray, *Solenostóma* Mitt.

Geocalycaceae H.Klinggr.

*Geocàlyx* Nees, *Harpànthus* Nees

Antheliaceae R.M.Schust.

*Anthélia* (Dumort.) Dumort.

Gymnomitriaceae H.Klinggr.

*Gymnomítrion* Corda, *Marsupélla* Dumort.

**Divisio: BRYÓPHYTA**

**Class: SPHAGNÓPSIDA** Ochyra

Order: Sphagnáles Limpr.

Sphagnaceae Dumort.

*Sphágnum* L.

**Class: ANDREAEÓPSIDA** Rothm.

Order: Andreaeáles Limpr.

Andreaeaceae Dumort.

*Andreaéa* Hedw.

**Class: POLYTRICHÓPSIDA** Doweld

Order: Polytricháles M. Fleisch.

Polytrichaceae Schwägr.

*Átrichum* P. Beauv., *Oligótrichum* Lam. & DC., *Pogonátum* P.Beauv., *Polytrichástrum* G. L.Sm., *Polýtrichum* Hedw.

**Class: TETRAPHIDÓPSIDA** Goffinet & W.R.Buck

Order: Tetraphidáles M. Fleisch.

Tetraphidaceae Schimp.

*Tetráphis* Hedw., *Tetrodóntium* Schwägr.

**Class: BRYÓPSIDA** Rothm.

Order: Buxbaumiáles M. Fleisch.

Buxbaumiáceae Schimp.

*Buxbáumia* Hedw.

Order: Diphysciáles M. Fleisch.

Diphysciáceae M. Fleisch.

*Diphýscium* Mohr

Order: Timmiáles Ochyra

Timmiáceae Schimp.

*Tímmia* Hedw.

Order: Encalyptáles Dixon

Encalyptaceae Schimp.

*Encalýpta* Hedw.

Order: Funariáles M.Fleisch.

Funariáceae Schwägr.

*Entósthodon* Schwägr., *Funária* Hedw., *Physcomitrélla* Bruch & Schimp.,  
*Physcomítrium* (Brid.) Brid., *Pyramídula* Brid.

Order: Grimmiáles M. Fleisch.

Grimmiáceae Arn.

*Coscínodon* Spreng., *Gímmia* Hedw., *Racomítrium* Brid., *Schistídium* Bruch & Schimp.

Ptychomitriáceae Schimp.

*Campylostélium* Bruch & Schimp.

Seligeriáceae Schimp.

*Blíndia* Bruch & Schimp., *Brachydóntium* Fűrnr., *Seligéria* Bruch & Schimp.

Order: Dicranáles H. Philib. ex M. Fleisch.

Fissidentáceae Schimp.

*Físsidens* Hedw.

Ditricháceae Limpr.

*Cerátodon* Brid, *Cleistocarpídium* Ochyra & Bednarek-Ochyra, *Distíchium* Bruch & Schimp., *Dítrichum* Hampe, *Pleurídium* Rabenh., *Saelània* Lindb., *Tríchodon* Schimp.

Bruchiaceae Schimp.

*Tremátodon* Michx.

Schistostegáceae Schimp.

*Schistostéga* Mohr

Rhabdoweisiáceae Limpr.

*Amphídium* Schimp., *Arctóa* Bruch & Schimp., *Cynodóntium* Bruch & Schimp., *Dichodóntium* Schimp., *Dicranowéisia* Milde, *Kiaéria* Hag., *Oncóphorus* (Brid.) Brid., *Rhabdowéisia* Bruch & Schimp.

Dicranáceae Schimp.

*Cnéstrum* Hag., *Dicranélla* (Müll.Hal.) Schimp., *Dicranum* Hedw., *Paraleucóbryum* (Limpr.) Loeske, *Pseudephémerum* (Lindb.) I. Hag.

Leucobryáceae Schimp.

*Campylópus* Brid., *Dicranodóntium* Bruch & Schimp., *Leucóbryum* Hampe

Order: Pottiáles Fleisch.

Pottiáceae Schimp.

*Acáulon* Müll. Hal., *Aloína* Kindb., *Anoectángium* Schwaegr., *Bárbula* Hedw., *Bryoerythrophyllum* P.C.Chen, *Cinclídótus* P. Beauv., *Crossídium* Jur., *Didýmodon* Hedw., *Ephémerum* Hampe, *Eucládium* Bruch & Schimp., *Gymnóstomum* Nees & Hornsch., *Gyrowéisia* Schimp., *Henediélla* Paris, *Hymenostýlium* Brid., *Lazarénkia* Boiko, *Micróbryum* Schimp., *Molendóa* Lindb., *Oxýstegus* (Broth.) Hilp., *Pháscum* Hedw., *Pseudocrossídium* R.S. Williams, *Pterygonéurum* Jur., *Syntríchia* Brid., *Tortélla* (Lindb.) Limpr., *Tórtula* Hedw., *Trichostomum* Bruch, *Weíssia* Hedw.

Order: Splachnáles Ochyra

Splachnáceae Grev. & Arn.

*Spláchnum* Hedw. *Taylória* Hook., *Tetráplodon* (Bruch & Schimp.) Wilson

Meesiáceae Schimp.

*Amblyodon* P. Beauv., *Leptóbryum* (Bruch & Schimp.) Wilson, *Meésia* Hedw., *Paludélla* Brid.

Order: Bryales Limpr.

Bryáceae Schwaegr.

*Anomóbryum* Schimp., *Bryum* Hedw., *Imbribryum* N. Pedersen, *Ptychostomum* Hornsch., *Rhodóbryum* (Schimp.) Limpr.

Mniáceae Schwägr.

*Cinclídium* Sw., *Mnium* Hedw., *Plagiómniium* T. Kop., *Póhlia* Hedw., *Pseudóbryum* (Kindb.) T. Kop., *Rhizómniium* (Broth.) T. Kop.

Bartramiáceae Schwägr.

*Bartrámia* Hedw., *Philónotis* Brid., *Plagiópus* Brid.

Order: Orthotricháles Dixon

Orthotricháceae Arn.

*Nyholmiella* Holmen & E. Warncke *Orthotrichum* Hedw. *Ulóta* D. Mohr *Zýgodon* Hook. & Taylor

Order: Hedwigiáles Ochyra

Hedwigiáceae Schimp.

*Hedwígia* P.Beauv.

Order: Rhizogoniales Goffinet & W.R. Buck

Aulacomniaceae Schimp.

*Aulacomnium* Schwaegr.

Order: Hookeriáles M. Fleisch.

Hookeriaceae Schimp.

*Hookeria* Sm.

Order: Hypnáles (Fleisch.) W. R. Buck & Vitt

Fontinalaceae Schimp.

*Dichelyma* Myrin, *Fontinalis* Hedw.

Climaciaceae Kindb.

*Climácium* F.Weber & D.Mohr

Amblystegiaceae Kindb.

*Amblystégium* Schimp., *Anacámptodon* Brid., *Campyliadélphus* (Kindb.) R. S. Chopra, *Campylidium* (Kindb.) Ochyra, *Campýlium* (Sull.) Mitt., *Conárdia* H. Robins., *Cratonéuron* (Sull.) Spruce, *Drepanócladus* (Müll.Hall.) G. Roth, *Hygroamblystégium* Loeske, *Hygróhypnum* Lindb., *Leptodíctyum* (Schimp.) Warnst., *Myrinia* Schimp., *Palustriélla* Ochyra, *Saniónia* Loeske, *Scorpidium* (Schimp.) Limpr.

Calliergonaceae (Kanda) Vanderp., Hedenäs, C. J. Cox & A. J. Shaw

*Calliérگون* (Sull.) Kindb., *Hamatocáulis* Hedenäs, *Straminérgon* Hedenäs, *Warnstórfia* Loeske

Helodiaceae Ochyra

*Helódium* Warnst.

Leskeaceae Schimp.

*Haplocládium* (Müll. Hall) Müll.Hall., *Lescúraea* Bruch & Schimp., *Léskea* Hedw., *Pseudoleskeélla* Kindb.

Thuidiaceae Schimp

*Abietinélla* Müll. Hall., *Pelékiüm* Mitt., *Thuidium* Bruch. & Schimp.

Brachytheciaceae Schimp.

*Brachytheciástrum* Ignatov & Huttunen, *Brachythécium* Schimp., *Breidléria* Loeske, *Calliocládium* H.A.Crum, *Campylophýllum* (Schimp.) M. Fleisch., *Cirriphýllum* Grout, *Eurhynchiástrum* Ignatov & Huttunen, *Eurhýnchium* Bruch. & Schimp., *Homalothécium* Schimp., *Kindbérgia* Ochyra, *Oxyrrhýnchium* (Schimp.) Warnst., *Palamocládium* Müll. Hall., *Plasteurhýnchium* Broth., *Pseudoscleropódium* (Limpr.) M. Fleisch., *Rhynchostegiélla* (Schimp.) Limpr., *Rhynchostégium* Bruch. & Schimp., *Scorpiúrium* Schimp., *Sciuro-hýpnum* (Hampe) Hampe, *Tomenthýpnum* Loeske

Hypnaceae Schimp.

*Calliergonélla* Loeske, *Herzogiélla* Broth., *Homomállium* (Schimp.) Loeske, *Hýpnum* Hedw., *Isopterygiópsis* Z. Iwats., *Orthothécium* Schimp., *Platydíctya* Berk., *Pseudotaxiphýllum* Z. Iwats., *Ptílium* De Not., *Pyláisia* Schimp., *Taxiphýllum* M. Fleisch.

Pterigynandraceae Schimp.

*Heterocládium* Bruch & Schimp., *Myurélla* Schimp., *Pterigynándrum* Hedw.



Hylocomiáceae M. Fleisch.

*Ctenídium* (Schimp.) Mitt., *Hylocomiástrum* Broth., *Hylocómium* Bruch & Schimp.,  
*Loeskeóbryum* Broth., *Pleurózium* Mitt., *Rhytidiadélphus* (Limpr.) Warnst.

Rhytidiáceae Broth.

*Rhytídium* (Sull.) Kindb.

Plagiotheciaceae (Broth.) Fleisch.

*Plagiothécium* Schimp.

Entodontáceae Kindb., nom. cons

*Éntodon* Müll.Hal.

Pylaisiadelpháceae Goffinet & W. R. Buck

*Heterophýllium* (Schimp.) Kindb., *Platygyrium* Schimp.

Leucodontáceae Schimp

*Antitrichia* Brid., *Leucódon* Schwägr.

Neckeráceae Schimp

*Alleniélla* S.Olsson, *Enroth* & *D.Quandt*, *Homália* (Brid.) Bruch & Schimp., *Néckera*  
Hedw.,

*Thamnóbryum* Nieuwl.

Leptodontáceae Schimp

*Leptódon* D. Mohr

Lembophylláceae Broth.

*Isothécium* Brid.

Anomodontáceae Kindb

*Anómodon* Hook. & Taylor

**CONVENTIONAL SIGNS**

Administrative oblasts of Ukraine

Ch – Chernihiv oblast’  
Ck – Cherkassy oblast’  
Cv – Chernivtsi oblast’  
Dn – Dnipropetrovs’k oblast’  
Do – Donets’k oblast’  
If – Ivano-Frankivs’k oblast’  
Ka – Kharkiv oblast’  
Ke – Kherson oblast’  
Ki – Kirovohrad oblast’  
Km – Khmelnitsky oblast’  
Kr – AR Crimea  
Ky – Kyiv oblast’  
Lu – Lugans’k oblast’  
Lv – Lviv oblast’  
My – Mykolaiv oblast’  
Od – Odessa oblast’  
Po – Poltava oblast’  
Ri – Rivne oblast’

Sk – Sakarpattya oblast’  
Sp – Saporizhzhya oblast’  
Su – Sumy oblast’  
Te – Ternopil’ oblast’  
Vl – Volyn’ oblast’  
Vn – Vinnitsya oblast’  
Zh – Zhytomyr oblast’

Physiogeographic plains zones and  
mountainous landscapes countries of Ukraine

MF – Zone of mixed coniferous-deciduous  
forests  
DF – Zone of deciduous forests (nemoral  
zone)  
FSZ – The Forest-steppe zone  
SZ – The Steppe zone (with steppe  
Crimea) (Sz)  
CAM – Carpathian mountain region  
CRM – Crimean mountain regio

**LIST OF TAXA****ANTHOCEROTOPHYTA**

- Anthóceros agréstitis** Paton (*A. punctatus* L. var. *cavernosus* (Nees) Gott., Lindenb. et Nees) [MF, DF, FSZ], Ch, Ck, Ky, Lv, Su.  
**Anthóceros punctátus** L. s. str. – [CAM, MF, DF, FSZ], Ch, Ck, If, Lu, Su.  
**Phaeóceros caroliniánus** (Michx.) Prosk. (*P. laevis* subsp. *carolinianus* (Michx.) Prosk.) – [MF], Ky.  
**Phaeóceros laevis** (L.) Prosk. (*Anthoceros laevis* L.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, If, Ky, Lu, Su, Te.

**MARCHANTIOPHYTA**

- Anastrépta orcadénsis** (Hook.) Schiffn. – [CAM], If, Sk.  
**Anastrophýllum micháuxii** (F. Weber) H. Buch. – [CAM], Cv, If, Lv, Sk.  
**Anéura pínguis** (L.) Dum. (*Riccardia pínguis* (L.) S.Gray) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, If, Ka, Ki, Ky, Lv, Su, Vn, Zh.  
**Anthélia juratzkána** (Limpr.) Trevis. (*Jungermannia juratzkana* Limpr.) – [CAM], If, Sk.  
**Asterélla lindenbergiána** (Corda ex Nees) Lindb. ex Arnell. – [CAM], Sk.  
**Barbilophózia barbáta** (Schmid. ex Schreb.) Loeske – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Kr, Lv, My, Ri, Vn, Zh.  
**Barbilophozia hátcheri** (A. Evans) Loeske – [CAM], If, Sk.  
**Barbilophozia lycopodióides** (Wallr.) Loeske – [CAM], If, Sk.  
**Barbilophozia sudetica** (Nees ex Huebener) L. Soderstr., De Roo et Hedd. (*Lophozia sudetica* (Nees ex Huebener) Grolle, *L. alpestris* (Schleich.) Evans.) – [CAM], If, Lv, Sk.  
**Bazzánia tricrenáta** (Wahlenb.) Lindb. – [CAM], If, Sk.  
**Bazzania trilobáta** (L.) Gray – [CAM, DF], Cv, If, Lv, Sk.  
**Blásia pusílla** L. – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Kr, Ky, Lv, Sk, Zh.  
**Blepharostóma trichophýllum** (L.) Dumort. – [CAM, MF, DF], Cv, Ch, If, Lv, Te, Sk, Zh.  
**Calypogéia azúrea** Stotler & Crotz (*C. trichomanis* (L.) Corda) – [CAM, MF, DF], Cv, If, Ky, Lv, Sk, Zh.  
**Calypogeia físsa** (L.) Raddi – [MF], Ky.  
**Calypogeia integrístípula** Steph. (*C. meylanii* Steph., *C. neesiana* var. *meylanii* (Buch) Schust.) – [CAM], Cv, If.  
**Calypogeia muehlleriána** (Schiffn.) Müll. Frib. – [CAM, MF], If, Ky, Sk.  
**Calypogeia neesiána** (C. Massal. & Carestia) Müll. Frib. – [CAM, MF], Cv, If, Ky, Lv, Sk, Su, Vl, Zh.  
**Calypogeia sphagnícola** (Arnell & J.Perss.) Warnst. & Loeske – [CAM], If, Sk.  
**Calypogeia suécica** (Arnell & J.Perss.) Müll. Frib. – [CAM], Cv, If, Lv, Sk.  
**Cephalózia ambígua** C. Massal. – [CAM], If, Sk.  
**Cephalozia bicuspidáta** (L.) Dumort. – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Ky, Lv, Sk, Te, Zh.  
**Cephalozia catenuláta** (Huebener) Lindb. (*C. reclusa* (Tayl.) Dum.) – [CAM, MF, DF], If, Lv, Sk, Zh.  
**Cephalozia connívens** (Dicks.) Lindb. – [CAM, MF, DF, FSZ], If, Lv, Sk, Zh.  
**Cephalozia lammersiána** (Huebener) Spruce (*Cephalozia bicuspidata* (L.) Dumort. subsp. *lammersiana* (Huebener) R.M.Schust.) – [CAM, MF], If, Lv, Sk, Zh.  
**Cephalozia leucánta** Spruce – [CAM, MF, DF], Lv, Zh.  
**Cephalozia loitlesbérgeri** Schiffn. – [CAM], If.

- Cephalozia lunulifolia** (Dumort.) Dumort. (*C. media* Lindb.) [CAM, MF], Ch, Ck, If, Ky, Lv, Sk, Zh.
- Cephalozia pléniceps** (Austin) Lindb. – [CAM, MF, DF], If, Lv, Vl, Sk, Zh.
- Cephalozíella divaricáta** (Sm.) Schiffn. (*C. starkei* (Funck) Schiffn.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Do, Ke, Kr, Lv, Lu, Sk, Su.
- Cephaloziella elachísta** (J. B. Jack ex Gottsche & Rabenh.) Lacout. – [CAM], If.
- Cephaloziella élegans** (Heeg) Schiffn. – [DF], Lv.
- Cephaloziella grimsulána** (J. B. Jack ex Gottsche & Rabenh.) Lacout.) – [CRM], Kr.
- Cephaloziella hampeána** (Nees) Schiffn. – [MF, DF, FSZ, CRM], Ch, Ka, Kr, Ky, Lv, Su.
- Cephaloziella rubélla** (Nees) Warnst. – [CAM, MF, DF, FSZ, CRM], If, Ka, Kr, Lv, Su, Zh.
- Cephaloziella spinígera** (Lindb.) Jorg. (*Cephaloziella subdentata* Warnst.) – [CAM, MF], Ch, If, Lv, Zh.
- Chilóscyphus frágilis** (Roth.) Schiffn. (*C. pallescens* var. *fragilis* (A. Roth) K. Müll.) – [CAM, MF, FSZ], If, Ky, Po, Sk, Zh.
- Chiloscyphus palléscens** (Ehrh. ex Hoffm.) Dumort. (*C. polyanthus* var. *pallescens* Hartm.) – [CAM, MF, DF, FSZ, CRM], Ck, Cv, If, Ki, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Zh.
- Chiloscyphus polyánthos** (L.) Corda – [CAM, MF, DF], Ch, Cv, If, Ky, Lv, Sk, Te, Vl, Zh.
- Chiloscyphus rivularis** (Schrad.) Hazsl. (*C. polyanthus* var. *rivularis* Schrad.) Lindb. et Arnell.) – [CAM, CRM], If, Kr, Lv, Sk.
- Cladopodiélla flúitans** (Nees) H. Buch (*Cephalozia fluitans* (Nees) Spruce) – [CAM, MF, DF], If, Lv, Sk, Zh.
- Clévea hyalina** (Sommerf.) Lindb. (*Athalamia hyalina* (Sommerf.) S. Hatt.) – [CAM, CRM], If, Kr.
- Clevea spathysii** (Lindenb.) K.Müll. (*Athalamia spathysii* (Lindenb.) S. Hatt.) – [CAM], If.
- Cololejéunea calcárea** (Lib.) Schiffn. – [CAM, CRM], If, Kr, Sk.
- Cololejeunea rossetiána** (C. Massal) Schiffn. – [CAM, DF, CRM], Km, Kr, Sk.
- Conocéphalum cónicum** (L.) Underw. – [CAM, MF, DF, FSZ], Ck, Cv, If, Km, Ky, Lv, Ri, Sk, Te, Vn, Zh.
- Conocephalum salebrosum** Szweyk., Buczk. et Odrzyk. – [DF], Lv.
- Crossocàlyx helleriánum** (Nees) Meyl. (*Anastrophyllum hellerianum* (Nees ex Lindenb.) R. M. Schust.) – [CAM, MF], Cv, If, Lv, Zt.
- Diplophýllum álbiancans** (L.) Dumort. – [CAM, MF], Cv, If, Lv, Sk.
- Diplophyllum obtusifólium** (Hook.) Dumort. – [CAM, MF, DF], If, Lv, Sk, Te.
- Diplophyllum taxifólium** (Wahlenb.) Dumort. – [CAM], If, Sk.
- Endogémma caespitícia** (Lindenb.) Konstant., A.Vilnet et A.V.Troitsky (*Solenostoma caespiticium* (Lindenb.) Steph, *Jungermannia caespiticia* Lindenb.) – [CAM, MF, DF], Cv, Ky, Lv.
- Fossombrónia foveoláta** Lindb. – [MF, SZ], Dn, Ka, Ky, Vl, Zh.
- Fossombronia pusilla** (L.) Nees – [CAM, MF], Cv, Zh.
- Fossombronia wondraczékii** (Corda) Lindb. – [CAM, MF, DF, FSZ], Ch, Ck, If, Ka, Ky, Lv, Su, Zh.
- Frullánia dilatáta** (L.) Dumort. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ke, Ky, Ki, Km, Kr, Lv, Lu, My, Od, Po, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Frullania fragilifólia** (Taylor) Gottsche, Lindenb. & Nees – [CAM, MF], Cv, Sk, Zh.
- Frullania jáckii** Gottsche – [CAM], Sk.
- Frullania tamarisci** (L.) Dumort. (*F. nervosa* Mont.) – [CAM, MF, CRM], Cv, If, Kr, Lv, Sk, Zh.

- Geocályx graveólens** (Schrad.) Nees – [CAM, MF, FSZ], If, Sk, Te, Vl, Zh.
- Gymnocólea infláta** (Huds.) Dumort. – [CAM], Cv, If, Lv.
- Gymnomítrion adústum** Nees (*Marsupella adusta* (Nees emend.Limpr.) Spruce) – [CAM], Sk.
- Gymnomittrion concinnátum** (Lightf.) Corda – [CAM], If, Sk.
- Gymnomittrion corallioídes** Nees – [CAM], Sk.
- Haplómítrium hoókeri** (Sm.) Nees – [CAM], If.
- Harpánthus flotoviánus** (Nees) Nees – [CAM], If, Sk.
- Harpanthus scutátus** (F.Weber & Mohr) Spruce – [CAM], Cv, If, Lv, Sk.
- Isopàches bicrenátus** (Schmidel ex Hohhm.) H. Buch (*Lophozia bicrenata* (Schmid. ex Hoffm.) Dumort.) – [CAM, MF, DF, FSZ], Lv, Sk, Su, Vn, Zh.
- Jungermánia atrovirens** Dumort. (*Haplozia atrovirens* (Schleich.) Dum.) – [CAM, CRM], Cv, If, Kr, Lv, Sk.
- Jungermannia púmila** With. (*Haplozia pumila* (With.) Dum., *Solenostoma pumila* (With.) K. Müll.) – [CAM], Cv, If, Sk.
- Kúrzia pauciflóra** (Dicks.) Grolle (*Telaranea setacea* (Weber) K. Müll.) – [CAM, MF], If, Sk, Zh.
- Leiomýlia anómala** (Hook.) J.J. Engel et Braggins (*Myliia anomala* (Hook.) Gray Gray) – [CAM, MF], If, Ri, Sk, Zh.
- Lejúnea cavifólia** (Ehrh.) Lindb. – [CAM, MF, DF, FSZ, CRM], Cv, If, Kr, Lv, Sk, Zh.
- Lepidózia réptans** (L.) Dumort. – [CAM, MF, DF, FSZ], Cv, Ch, If, Ky, Lv, Sk, Te, Vn, Vl, Zh.
- Liochlaéna lanceoláta** Nees (*Jungermannia leiantha* Grolle, *J. lanceolata* L., *Solenostoma lanceolata* Steph.) – [CAM, MF, DF, FSZ], Cv, If, Ky, Lv, Ri, Sk, Te, Zh.
- Liochlaena subuláta** (A.Evans) Schljakov (*Jungermannia subulata* A. Evans) – [MF], Zh.
- Lophocólea bidentáta** (L.) Dumort (*Lophocolea coadunata* (Sw.) Mont., *Chiloscyphus coadunatus* (Sw.) Engel & Schust.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Kr, Ky, Lv, Lu, Po, Sk, Sp, Su, Te, Zh.
- Lophocolea heterophýlla** (Schrad.) Dumort. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Km, Kr, Ky, Lu, Lv, Od, Po, Sk, Su, Te, Vl, Vn, Zh.
- Lophocolea mínor** Nees – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Km, Kr, Ky, Lu, Lv, My, Po, Sk, Su, Te, Vn, Zh.
- Lophózia ascéndens** (Warnst.) Schust. – [CAM], Sk.
- Lophozia guttuláta** (Lindb & Arnell) A. Evans (*Lophozia longiflora* (Nees) Schiffn., *L. porphyroleuca* (Nees) Schiffn.) – [CAM, MF], If, Lv, Sk, Zh.
- Lophozia ventricósa** (Dicks.) Dumort. – [CAM, MF, DF], Cv, If, Lv, Sk, Zh.
- Lophozia wenzéliei** (Nees) Steph. (*L. confertifolia* Schiffn., *L. ventricosa* var. *confertifolia* (Schiffn. K.) Müll. – If, Sk.
- Lophozíopsis excísa** (Dicks.) Konstant. et Vilnet (*Lophozia excisa* (Dicks.) Dumort.) – [CAM, MF, DF, FSZ, SZ, CRM], Ck, If, Ka, Ke, Kr, Ky, Lv, Su, Te, Vn, Zh.
- Lophozíopsis longídens** (Lindb.) Konstant. et Vilnet (*Lophozia longidens* (Lindb.) Macoun.). – [CAM, MF, DF], If, Ky, Lv, Sk, Zh.
- Lunularia cruciáta** (L.) Lindb. – [MF], Ky.
- Mánnia androgýna** (L.) A. Evans. [FSZ], Ck.
- Mannia frágrans** (Balbis) Frye & Clark – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Dn, Do, If, Ki, Kr, Ky, My, Sk, Sp, Ri, Vn, Zh.
- Mannia pilósa** (Homem.) Frye & Clark – [CAM], Sk.
- Mannia triándra** (Scop.) Grolle (*M. rupestris* (Nees) Frye et Clark.) – [CAM], Sk.
- Marchantia alpéstris** (Nees) Burgeff. (*M. polymorpha* subsp. *montivagans* Bischler. & Boissl.) – [CAM], Cv, Lv, Zk.

- Marchantia polymórpha** L. – (subsp. **polymorpha** and subsp. **ruđerális** Bischler & Boisselier.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Marsupélla apiculáta** Schiffn. (*Gymnomitrium apiculatum* (Schiffn.) K. Müll.) – [CAM], Sk.
- Marsupella aquática** (Schrad.) Schiffn. – [CAM], If.
- Marsupella emargináta** (Ehrh.) Dumort. – [CAM], If, Sk.
- Marsupella fúnckii** (F. Weber & Mohr) Dumort. (*Marsupella badensis* Schiffn.) – [CAM, DF], Cv, If, Lv, Sk.
- Marsupella sphaceláta** (Gieseke ex Lindenb.) Dumort. – [CAM], If, Sk.
- Marsupella sprúcei** (Limpr.) H. Bernet. – [CAM], Sk.
- Mesoptýchia badénsis** (Gottsche ex Rabenhorst.) L. Soderstr. et Váňa (*Lophozia badensis* (Gottsche) Schiffn., *Leiocolea badensis* (Gott.) Joerg.) – [CAM, MF, SZ], If, Ky, Lv, Sk.
- Mesoptýchia bantriénsis** (Hook.) L. Soderstr. et Váňa (*Lophozia bantriensis* (Hook.) Steph., *L. hornschuchiana* (Nees) Mac, *Leiocolea bantriensis* (Hook.) Joerg., *L. mulleri* (Nees) Joerg.) – [CAM, CRM], Cv, If, Kr, Lv, Sk.
- Mesoptýchia colláris** (Nees.) L. Soderstr. et Váňa (*Lophozia collaris* (Nees) Dumort., *Jungermannia collaris* Nees). – [CAM, DF, CRM], Cv, If, Lv, Sk.
- Mesoptýchia heterocólpos** (Thed. ex C. Hartm.) L. Soderstr. (*Lophozia heterocolpos* (Thed. ex C. Hartm.) M. Howe, *Leiocolea heterocolpos* (Thed.) Buch) – [CAM, MF], Ch, Cv, Sk.
- Metzgéria conjugáta** Lindb. – [CAM], If, Lv, Sk.
- Metzgeria furcáta** (L.) Dumort. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ke, Ki, Kr, Ky, Lv, Od, Po, Sk, Sp, Te, Vn, Zh.
- Metzgeria leptonéura** Spruce (*Metzgeria hamata* Lindb.) – [CAM], Sk.
- Metzgeria pubéscens** (Schrank) Raddi (*Apometzgeria pubescens* (Schrank) Kuwah.) – [CAM, DF], Cv, If, Lv, Sk.
- Metzgeria violácea** (Ach. ex F. Weber et D. Mohr) Dumort. (*Metzgeria fruticulosa* (Dicks.) A. Evans, *M. furcata* var. *fruticulosa* Lindb.) – [CAM], Cv, Lv, Sk.
- Moérckia blýttii** (Morch) Brockm. – [CAM], If, Sk.
- Mýlia táylori** (Hook.) Gray – [CAM, MF], Cv, If, Lv, Sk.
- Nárdia geóscyphus** (De Not.) Lindb. – [CAM, MF], If, Sk, Zh.
- Nardia scaláris** Gray – [CAM], If, Sk.
- Neoorthocáulis attenuátus** (Mart.) L. Soderstr., De Roo et Hedd (*Barbilophozia attenuata* (Mart.) Loeske, *B. gracilis* (Schleich.) K. Müll.) – [CAM], If, Lv, Sk.
- Neoorthocaulis floérkei** (F. Weber & Mohr) L. Soderstr., De Roo et Hedd (*Barbilophozia floerkei* (F. Weber & Mohr) Loeske) – [CAM], If, Sk.
- Nowéllia curvifólia** (Dicks.) Mitt. – [CAM, MF, DF], Cv, If, Ky, Lv, Sk, Zh.
- Odontoschísma denudátum** (Mart.) Dumort. – [CAM, MF], If, Zh.
- Oxymíttra incrassáta** (Brot.) Sergio et Sim-Sim (*Oxymittra paleacea* Bisch. ex Lindenb.) – [FSZ, SZ], Ck, Dn, Do, Ki, My, Od.
- Pallavicínia lyéllii** (Hook.) Carruth. – [CAM], Sk.
- Pedinophýllum interrúptum** (Nees) Kaal. – [CAM], Sk.
- Péllia endiviifólia** (Dicks.) Dumort. (*P. fabroniana* Raddi) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, If, Ka, Km, Kr, Ky, Lv, Po, Sk, Vn, Zh.
- Pellia epiphýlla** (L.) Corda – [CAM, MF, DF, FSZ, CRM], Ch, If, Ki, Ky, Lv, Po, Sk, Vl, Zh.
- Pellia neesiána** (Gottsche) Limpr. – [CAM, DF], If, Lv, Sk.
- Plagióchila asplenióides** (L. emend. Taylor) Dumort. (*P. major* (Nees) S. Arn.) – [CAM, MF], Ch, If, Sk.

- Plagiochila porellóides** (Torr. ex Nees) Lindenb. (*P. asplenioides* (L.) Dum. subsp. *porelloides* (Nees) Schust.) – [CAM, MF, DF, FSZ, CRM], Ck, Cv, If, Km, Kr, Ky, Lv, Sk, Te, Vn, Zh.
- Pleurocládula albescens** (Hook.) Grolle (*Fuscocephaloziopsis albescens* (Hook.) Vána & L. Söderstr.) – [CAM], Sk.
- Porélla arboris-vítæ** (With) Grolle (*P. laevigata* (Schrad.) Pfeiff.) – [CAM, CRM], Cv, If, Kr, Lv, Sk.
- Porella báueri** (Schiffn.) C. Jensen – [CAM], Sk.
- Porella cordeána** (Huebener) Moore – [CAM, CRM], Kr, Sk.
- Porella platyphýlla** (L.) Pfeiff. – [CAM, MF, DF, FSZ, SZ, CRM], Cv, Ch, Ck, Dn, Do, If, Ke, Ki, Km, Kr, Ky, Lv, Od, Po, Sk, Sp, Te, Vn, Zh.
- Préissia quadráta** (Scop.) Nees – [CAM, MF, DF, CRM], Cv, If, Ky, Lv, Sk, Zh.
- Ptilídium ciliáre** (L.) Hampe – [CAM, MF, DF, FSZ, SZ], Ch, If, Ky, Po, Sk, Su, Zh.
- Ptilidium pulcherrimum** (Weber) Vainio – [CAM, MF, FSZ, SZ, CRM], Cv, Ch, Ck, Dn, If, Ka, Km, Kr, Ky, Lv, Po, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Rádula complanáta** (L.) Dumort. – [CAM, MF, DF, FSZ, SZ, CRM], Cv, Ch, Ck, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lv, Lu, My, Od, Po, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Radula lindbergiana** Gottsche ex C. Hartm. – [CAM, MF] Cv, If, Sk, Zh.
- Rebóulia hemisphaérica** (L.) Raddi – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Dn, Do, Ki, Kr, Ky, Lv, Sk, Sp, Vn, Zh.
- Riccárdia chamaédryfolia** (With.) Grolle (*R. sinuata* (Dicks.) Trev., *Aneura major* K. Müll.) – [CAM, CRM], If, Kr, Lv, Sk.
- Riccardia incurváta** Lindb. (*Aneura incurvata* Steph.) – [MF, DF], Ky, Lv, Ri.
- Riccardia latifrons** (Lindb.) Lindb. (*Aneura latifrons* Lindb.) – [CAM, MF, DF], Ch, If, Ky, Lv, Ri, Sk, Zh.
- Riccardia multífida** (L.) S.Gray (*Aneura multifida* Dum.) – [CAM, MF, DF], Cv, If, Ky, Lv, Sk, Zh.
- Riccardia palmáta** (Hedw.) Carruth. (*Aneura palmata* Dum.) – [CAM, MF, DF], Ch, Cv, If, Lv, Sk, Zh.
- Ríccia beyrichiána** Hampe ex Lehm. – [MF, SZ], Dn, Ky.
- Riccia bifúrca** Hoffm. – [MF, FSZ], Ch, Ky, Lv.
- Riccia canaliculáta** Hoffm. – Ch, Ck, Dn, Ky.
- Riccia cavernósa** Hoffm. – [MF, DF, FSZ, SZ], Ch, Ck, Dn, Ky, Sp, Po.
- Riccia ciliáta** Hoffm. – [CAM, MF, DF, FSZ, SZ, CRM], Dn, Do, Ke, Ki, Kr, Ky, Lu, My, Sk, Zh.
- Riccia ciliífera** Link ex Lindenb. – [MF, FSZ, SZ], Ck, Dn, Do, Ke, Ky, Mk, Sp.
- Riccia criníta** Hoffm. (*R. trichocarpa* M.Howe, *R. canescens* Steph.) – [CAM, MF, SZ], Ke, Ky, Sk, Zh.
- Riccia crystallína** L. emend. Raddi – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, If, Ki, Ky, Po, Sp.
- Riccia erinácea** Schiffn. (*Riccia gougetiana* var. *armatissima* Levier ex Müll. Frib, *R. gougetiana* var. *erinacea* Schiffn.) – [SZ], My.
- Riccia flúitans** L. emend. Lorbeer – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, Ka, Km, Ky, Lv, Sk, Su, Te, Vl.
- Riccia fróstii** Austin – [MF, FSZ, SZ], Ck, Ky, Po, Su.
- Riccia gláuca** L. – [CAM, MF, DF, FSZ, SZ] Ch, Ck, Dn, If, Ka, Ki, Ky, Lv, My, Po, Sk, Sp, Vn, Zh.
- Riccia gougetiána** Durieu & Mont. – [SZ], Dn, Sp.
- Riccia huebeneriána** Lindenb. – [MF], Ch, Ky, Zh.
- Riccia lamellósa** Raddi – [SZ], Dn, Ka, Ke.

- Riccia papillósa** Moris (*R. pseudopapillosa* Levier ex Steph.) – [FSZ,SZ], Ck, Dn, Do, Ke, Ki, Lu, My.
- Riccia rhenána** Lorbeer – [MF, FSZ,SZ], Ck, Dn, Ky.
- Riccia rhenána** Lorbeer var. **violácea** M.F.Boiko [SZ], Dn.
- Riccia sorocárpa** Bisch. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, If, Ka, Ki, Km, Kr, Ky, Zh.
- Ricciocárpos nátans** (L.) Corda – [CAM, MF, DF, FSZ, SZ], Ch, Dn, Ka, Ky, Sk, Lv, Te, Vl, Zh.
- Sautéria alpína** (Nees) Nees – [CAM], Sk.
- Scapánia aequilóba** (Schwaegr.) Dumort. – [CAM], If, Lv, Sk.
- Scapania apiculáta** Spruce – [CAM], Lv, Sk.
- Scapania áspera** M. Bernet. & H. Bernet. – [CRM], Kr.
- Scapania calcícola** (H. Arn. & J. Perss.) Ingham. – [CRM], Kr.
- Scapania compácta** (Roth) Dumort. – [CRM], Kr.
- Scapania cúrta** (Mart.) Dumort. – [CAM, MF, DF, FSZ], Ch, Ck, If, Lv, Sk, Te, Zt.
- Scapania cuspidulígera** (Nees) Müll. Frib. [CAM], If, Sk,
- Scapania helvética** Gottsche – [CAM], If, Sk.
- Scapania irrígua** (Nees) Nees – [CAM, MF], Cv, If, Ky, Lv, Sk, Te, Zt.
- Scapania mucronáta** H. Buch – [CAM], Sk.
- Scapania nemórea** (L.) Grolle (*S. nemorosa* (L.) Dum.) – [CAM, MF, DF, FSZ], Cv, If, Ka, Lv, Sk, Zt.
- Scapania paludícola** Loeske & Müll. Frib. – [MF], Zt.
- Scapania parvifólia** Warnst. – [CAM], If, Sk.
- Scapania subalpína** (Nees ex Lindenb.) Dumort. – [CAM], If.
- Scapania uliginósa** (Sw. ex Lindenb.) Dumort. – [CAM], If, Sk.
- Scapania umbrósa** (Schrad.) Dumort. – [CAM], [CAM], If, Lv, Sk.
- Scapania unduláta** (L.) Dumort. – [CAM, MF], If, Lv, Sk, Zt.
- Scapania verrucósa** Heeg – [CAM], Cv, If, Lv, Sk.
- Schistochilópsis incisa** (Schrad.) Konstant. 1994 (*Lophozia incisa* (Schrad.) Dumort.) – [CAM, MF, DF], If, Lv, Sk, Zt.
- Schljacoviánthus quadrílobus** (Lindb.) 2010 (*Barbilophozia quadriloba* (Lindb.) Loeske) – [CAM], If.
- Solenostóma confertíssimum** (Nees) Schljakov) 1980 (*Jungermannia confertissima* Nees, *Solenostoma levieri* (Steph.) – [CAM], If, Sk.
- Solenostoma gracíllimum** (Sm.) R.M. Schust. (*Plectocolea crenulata* Evans, *Jungermannia gracillima* Sm., *Solenostoma crenulatum* (Sm.) Mitt.) – [CAM, DF], Cv, If, Lv, Sk.
- Solenostoma hyálinum** (Lyell ex Hook.) Mitt. (*Plectocolea hyalina* (Lyell) Mitt. (*Jungermannia hyalina* Lyell) – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Km, Lv, Sk, Te, Zh.
- Solenostoma obovátum** (Nees) C. Massal. 1903 (*Plectocolea obovata* (Nees) Mitt., *Jungermannia obovata* Nees) – [CAM], If, Sk.
- Solenostoma sphaerocárpum** (Hook.) Steph. (*Jungermannia sphaerocarpa* Hook.) – [CAM], Cv, If, Lv, Sk.
- Sphenolobus minútus** (Schreb.) Berggr. (*Anastrophyllum minutum* (Schreb.) R.M. Schust.) – [CAM], If, Sk.
- Syzygiélla autumnális** (DC.) K. Feldberg, Váña, Hentschel et Heinrichs 2010 (*Jamesoniella autumnalis* (DC.) Steph.) – [CAM, MF], If, Ky, Lv, Sk, Zh.
- Targiónia hypophýlla** L. – [CRM], Kr.
- Trichocólea tomentélla** (Ehrh.) Dumort. – [CAM, MF, DF, FSZ], Ch, Cv, If, Ka, Lv, Sk, Te, Zh.

- Trilophózia quinquedentáta** (Huds.) Bakalin (*Tritomaria quinquedentata* (Huds.) H. Buch, *Barbilophozia quinquedentata* Loeske) – [CAM], Cv, If, Sk.  
**Tritomária exséccta** (Schrad.) Loeske – [CAM], Cv, If, Lv, Sk.  
**Tritomaria exsectifórmis** (Breidl.) Loeske – [CAM], If, Sk, Zh.  
**Tritomaria scítula** (Taylor) Jörg. – [CAM], Sk.

## BRYOPHYTA

- Abietinélla abietína** (Hedw.) Fleisch. (*Thuidium abietinum* (Hedw.) Schimp.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.  
**Acáulon múticum** (Hedw.) H. Müll. (*A. rubrum* (Röhl) Grout) – [MF, DF, FSZ, SZ], Dn, Ky, Lv, Po, Vn, Zh.  
**Acaulon triquétrum** (Spruce) H. Müll. – [MF, FSZ, CRM], Ck, Kr, Ky, Vn.  
**Alleniélla besserii** (Lob.) S.Olsson, Enroth & D.Quandt (*Neckera besserii* (Lob.) Jur., *Homalia besserii* Lobarz.) – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Cv, Dn, Do, If, Ke, Km, Kr, Ky, Lu, Lv, My, Ri, Sk, Te, Vn, Zh.  
**Alleniella complanáta** S.Olsson, Enroth & D.Quandt (*Neckera complanata* (Hedw.) Huebener, *Homalia complanata* (Hedw.) De Not.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Kr, Ky, Lv, My, Ri, Sk, Su, Te, Vl, Vn, Zh.  
**Aloína aloídes** (W. Koch ex Schultz) Kindb. – [DF, FSZ], Ky, Te.  
**Aloina ambígua** (Bruch & Schimp.) Limpr. – [CAM, DF, FSZ, SZ], Ck, If, Lv, My, Po, Ri, Te.  
**Aloina breviróstris** (Hook. & Grev.) Kindb. – [MF, DF], Su, Te.  
**Aloina rígida** (Hedw.) Limpr. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Do, Ka, If, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.  
**Amblyodon dealbátus** (Hedw.) P.Beauv. – [DF], Lv.  
**Amblystégium juratzkánium** Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Dn, If, Ka, Ke, Kr, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Vn, Vl.  
**Amblystegium sérpens** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.  
**Amphídium lappónicum** (Hedw.) Schimp. – [CAM], If, Sk.  
**Amphidium mougeóttii** (Schimp.) Schimp. – [CAM, CRM], If, Kr, Sk.  
**Anacámptodon splachnóides** (Froel. ex Brid.) Brid. – [CAM], Cv, If, Sk.  
**Andreaea alpéstris** (Thed.) Schimp. – [CAM], If, Sk.  
**Andreaea rupéstris** Hedw. – [CAM], If, Lv, Sk.  
**Anoectángium aestívum** (Hedw.) Mitt. – [CAM], Sk.  
**Anoectangium handéllii** Schiffn. – [CAM], Kr.  
**Anomóbryum juláceum** (Schrad. ex P.Gaertn. et al.) Schimp. (*Bryum julaceum* Schrad. ex P.Gaertn. et al.) – [CAM], If.  
**Anómodon attenuátus** (Hedw.) Huebener – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Od, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.  
**Anomodon longifólius** (Schleich. ex Brid.) C. Hartm. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Od, Po, Ri, Sk, Su, Te, Vn, Zh.  
**Anomodon rostrátus** (Hedw.) Schimp. – [CAM, DF], Lv, Sk.  
**Anomodon rúgelii** (H. Müll.) Keissl. (*A. apiculatus* Sull.) – [CAM, DF], Cv, If, Km, Sk.  
**Anomodon viticulósus** (Hedw.) Hook. & Taylor) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.  
**Antitrichia curtipéndula** (Hedw.) Brid. – [CAM, DF, FSZ, CRM], If, Kr, Lv, Sk, Zh.  
**Arctóia fulvélla** (Dicks.) Bruch & Schimp. (*Dicranum fulvellum* Smith.) – [CAM], Sk.



- Átrichum angustátum** (Brid.) Bruch & Schimp. – [CAM, SZ], If, Lu, Lv, Sk.
- Atrichum crispulum** Schimp. ex Besch. (*Atrichum undulatum* var. *minor* (Hedw.) Web. et Mohr) – [CAM, DF, CRM], If, Kr, Lv.
- Atrichum flavisérum** Mitt. (*A. undulatum* var. *haussknechtii* Frye) – [CAM, DF, CRM], If, Kr, Lv, Sk.
- Atrichum tenellum** (Röhl.) Bruch & Schimp. – [CAM, MF, DF, FSZ, SZ], Ch, Cv, If, Km, Ky, Lu, Lv, Po, Ri, Sk, Su, Zh.
- Atrichum undulátum** (Hedw.) P. Beauv. (*Polytrichum undulatum* Hedw.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Aulacomnium andrógynum** (Hedw.) Schwaegr. – [CAM, MF, DF, SZ, CRM], Ch, If, Ke, Kr, Lv, Lu, Sk, Zh.
- Aulacomnium arenopaludósum** Boiko – [SZ], Ke, My.
- Aulacomnium palústre** (Hedw.) Schwaegr. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Bárbula convolúta** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Dn, If, Ka, Km, Kr, Ky, Lv, Od, Po, Ri, Sk, Su, Te, Vl, Vn.
- Barbula crócea** (Brid.) F. Weber & Mohr – [CAM], Sk.
- Barbula enderésii** Garov. – [DF], Te
- Barbula unguiculáta** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Bartrámia halleriána** Hedw. – [CAM, CRM], Cv, If, Kr, Sk.
- Bartramia ithyphýlla** Brid. – [CAM, MF, DF, SZ], If, Ri, Sk, Sp, Te, Zh.
- Bartramia pomifórmis** Hedw. – [CAM, MF, DF, FSZ, CRM], Cv, If, Kr, Lv, Ri, Sk, Te, Vn, Zh.
- Blíndia acúta** (Hedw.) Bruch & Schimp. – [CAM], Cv, If, Lv, Sk.
- Brachydóntium trichódes** (F. Weber) Milde (*Gymnostomum trichodes* F. Weber) – [CAM], Cv, If, Lv, Sk.
- Brachytheciástrum trachypódium** (Brid.) Ignatov & Huttunen (*Brachythecium trachypodium* (Brid.) Schimp.) – [CAM], Lv.
- Brachytheciastrum velútinum** (Hedw.) Ignatov & Huttunen (*Brachythecium velutinum* (Hedw.) Schimp.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Brachythécium álbiancans** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Brachythecium campéstre** (H. Müll.) Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Te, Vn, Zh.
- Brachythecium cirrósum** (Schwaegr.) Schimp. (*Cirriphyllum cirrosum* (Schwägr.) Grout) – [CAM], If, Sk.
- Brachythecium geheebii** Milde (*Homalothecium geheebii* (Milde) Wigh) – [CAM, MF, DF, FSZ, SZ, CRM], If, Lv, Sk.
- Brachythecium glareósum** (Bruch ex Spruce) Schimp.) – [CAM, MF, DF, FSZ, SZ, CRM], – Ch, Ck, Cv, Dn, Do, If, Km, Kr, Lu, Lv, My, Po, Ri, Sk, Sp, Te, Vn, Zh.
- Brachythecium laétum** (Brid.) Schimp. – [CAM], If, Sk.
- Brachythecium mildeánum** (Schimp.) Schimp.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Brachythecium rivuláre** Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ke, Ki, Km, Kr, Ky, Lv, My, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.

- Brachythecium rutábulum** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vn, Zh.
- Brachythecium salebrósum** (Hoffm. ex F. Weber & Mohr) Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vn, Vn, Zh.
- Brachythecium tommasínii** (Sendt. ex Boulay) Ignatov & Huttunen (*Cirriphyllum tommasinii* (Sendtn. ex Boulay) Grout, *C. vaucheri* (Schimp.) Loeske & Fleisch) – [CAM, DF, CRM], Km, Kr, Lv, Sk, Te.
- Breidléria praténsis** (W. Koch ex Spruce) Loeske (*Hypnum pratense* W.D.J. Koch ex Spruce) – [CAM, MF], If, Ky Sk.
- Bryoerythrophýllum alpigénium** (Vent.) Chen (*B. recurvirostrum* var. *dentatum* (Schimp.) H.A.Crum, Steere & L.E.Anderson, *Didymodon alpigenum* Vent.) – [CAM], Sk.
- Bryoerythrophyllum recurviróstrum** (Hedw.) Chen (*Erythrophyllum recurvirostrum* (Hedw.) Lazar.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lv, My, Po, Sk, Su, Te, Vn, Zh.
- Brýum argénteum** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vn, Zh.
- Bryum bádiu** (Brid.) Schimp. – [CAM, MF, DF, SZ, CRM], Cv, If, Ka, Ke, Ki, Kr, Lu, Lv, My, Od, Ri, Sk, Te.
- Bryum caespitícium** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vn, Zh.
- Bryum dichotómum** Hedw. – [CAM, MF, SZ, CRM], Cv, If, Ka, Ke, Kr, Lv, Sk.
- Bryum élegans** Nees (*B. capillare* var. *elegans* (Nees) Husn) – [CAM, MF, SZ, CRM], Cv, If, Kr, Lv, Mk, Sk, Su.
- Bryum fúnckii** Schwaegr. – [CAM, DF, FSZ, SZ, CRM], Cv, If, Ka, Ke, Kr, Lv, Mk, Sk, Su.
- Bryum gemmipárum** De Not. (*B. alpinum* subsp. *gemmaiparum* (De Not.) Kindb.) – [CAM, CRM], Kr, Sk.
- Bryum intermédiu** (Brid.) Blandow – [CAM, MF, DF, SZ], Do, Ky, Lv, Sk, Te.
- Bryum klínggraéffii** Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, Ka, Ki, Km, Ky, Lv, Ri, Su, Vn.
- Bryum knówltonii** Barnes (*B. lacustre* (F.Weber & D.Mohr) Blandow non Brid.) – [CAM], Sk.
- Bryum kúnzei** Hornsch. – [CAM, DF, FSZ, SZ], If, Ka, Kr, Ri, Sk, Vn.
- Bryum palléscens** Schleich. ex Schwaegr. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Po, Ri, Sk, Sp, Su, Te, Vn.
- Bryum ruderále** Crundw. & Nyholm – [MF, FSZ, SZ], Do, Ky, Kr, Sp.
- Bryum schléicheri** DC. – [CAM], If, Sk.
- Bryum subapiculátum** Hampe – [MF, FSZ, SZ], Ka, Ke, Kr, Ky, Lv, Vn.
- Bryum tenuisétu** Limpr. – [MF], Ka, Ky.
- Bryum turbinátum** (Hedw.) Turn. – [CAM, DF, SZ, CRM], Cv, Do, Kr, Lv, My, Sk, Te.
- Bryum veronénse** De Not. (*Bryum argenteum* subsp. *veronense* (De Not.) J.J. Amann) – [CAM], Sk.
- Bryum violáceu** Crundw. & Nyh. – [MF, DF, FSZ, SZ], Ch, Cv, Do, Ka, Ki, Ky, Lu, Lv, Sp.
- Bryum wéigélii** Spreng. – [CAM, MF, SZ], Ch, Do, Km, Sk.
- Buxbáumia aphýlla** Hedw. – [CAM, MF, DF, FSZ], Ch, Cv, If, Ka, Ky, Lv, Po, Ri, Sk, Su, Te, Vn, Zh.

- Buxbaumia viridis** (Moug. ex Lam. & DC.) Brid. ex Moug. & Nestl. – [CAM, DF, CRM], Cv, If, Kr, Lv, Sk.
- Callicládium haldaniánium** (Grev.) Crum (*Heterophyllum haldanianum* (Grev.) Fleish.). – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, Do, If, Ka, Ki, Km, Ky, Lu, Lv, Od, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Calliérگون cordifólium** (Hedw.) Kindb. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Calliérگون gigánteum** (Schimp.) Kindb. – [CAM, MF, DF, FSZ], Ch, Ck, If, Ka, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Calliérگون richardsonii** (Mitt.) Kindb. – [CAM], If.
- Calliérگونélla cuspidáta** (Hedw.) Loeske – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Calliérگونella lindbergii** (Mitt.) Hedenäs (*Hypnum lindbergii* Mitt., *Breidleria arcuata* (Lindb.) Loeske) – [CAM, MF, DF, FSZ], Cv, If, Ky, Lv, Ri, Sk, Su, Te, Vl, Zh.
- Campyliadélphus chrysophýllus** (Brid.) R.S.Chopra (*Campylium chrysophyllum* (Brid.) Lange) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Cv, Do, If, Ki, Kr, Lv, Ri, Sk, Te, Km.
- Campyliadelphus elódes** (Lindb.) Kanda (*Campylium elodes* (Lindb.) Kindb., *Chrysohypnum helodes* (Spruce) Loeske) – [CAM, MF], If, Vl.
- Campylídium calcáreum** (Crundw. & Nyholm) Ochyra (*Campylophyllum calcareum* (Crundw. & Nyholm) Hedenäs, *Campylium calcareum* Crundw. & Nyholm) – [DF, SZ, CRM], Do, Ka, Km, Kr, My, Sp.
- Campýlium proténsum** (Brid.) Kindb. – [CAM, MF, CRM], Km, Kr, Ri, Sk, Vl.
- Campylium sommerfélii** (Myrin) Lange, (*Campylophyllum sommerfeltii* (Myrin) Hedenäs, *Chrysohypnum sommerfeltii* (Myrin) Roth) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, My, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Campylium stellátum** (Hedw.) Lange & C. Jensen (*Campyliadelphus stellatus* (Hedw.) Kanda) – [CAM, MF, DF, FSZ, SZ, CRM], Cv, If, Km, Kr, Ky, Lv, Ri, Sk, Te, Vl, Zh.
- Campylophýllum halléri** (Hedw.) Fleisch. (*Campylium halleri* (Hedw.) Lindb.) – [CAM], If, Sk.
- Campylópus frágilis** (Brid.) Bruch & Schimp. – [CAM, MF], If, Lv, Ky, Sk.
- Campylopus grácilis** (Mitt.) Jaeg. (*C. schwarzii* Schimp.) – [CAM], Cv, Sk.
- Campylopus introfléxus** (Hedw.) Brid. – [DF], Lv.
- Campilopus pyriformis** (Schultz) Brid. (*C. fragilis* var. *pyriformis* (Schultz) Agst.) – [CAM], Sk.
- Campylostélium saxícola** (F.Weber & Mohr) Bruch & Schimp. (*Campylopus saxicola* (F.Weber & D.Mohr) Bruch & Schimp.) – [CAM], Cv, If, Lv.
- Campylostelium strictum** Solms – [CAM], Cv.
- Ceratodon purpúreus** (Hedw.) Brid. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Cinclidídium stýgium** Sw. – [CAM], Cv, Sk.
- Cinclidótus aquáticus** (Hedw.) Bruch & Schimp. – [CRM], Kr.
- Cinclidotus fontinalóides** (Hedw.) P. Beauv. – [CAM, MF, CRM], Kr, My, Ri, Sk, Zh.
- Cinclidotus ripárius** (Host ex Brid.) Arnott (*C. nigricans* (Brid.) Wijk & Marg.) – [CRM], Kr.
- Cirriphýllum crassinérvium** (Taylor) Loeske & Fleisch. (*Eurhynchium crassinervium* (Taylor) Schimp.) – [CAM, MF, DF, SZ, CRM], Do, If, Km, Kr, Lv, Mk, Ri, Sk, Te.
- Cirriphyllum pilíferum** (Hedw.) Grout – [CAM, MF, DF, FSZ], Ch, Cv, If, Km, Ky, Lv, Po, Ri, Sk, Te, Vn, Zh.
- Cleistocarpídium palústre** (Bruch & Schimp.) Ochyra & Bednarek – Ochyra (*Pleuridium palustre* (Bruch & Schimp.) Bruch & Schimp.) – [CAM, FSZ], Ck, If.

- Climácium dendróides** (Hedw.) F. Weber & Mohr) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Cnéstrum schísti** (F. Weber & Mohr) Hag. (*Cynodontium schistii* Lindb.) – [CAM], Sk.
- Conárdia compácta** (Drumm. ex Müll. Hal.) H. Robins. (*Amblystegium compactum* (Drumm. ex Müll. Hal.) Austin) – [DF, FSZ], Ck, Cv.
- Coscínodon cribrósus** (Hedw.) Spruce – [CAM, CRM], Cv, If, Kr.
- Cratonéuron curvicáule** (Jur.) Roth (*Cratoneuron filicinum* var. *curvicaule* (Jur.) Mönk.) – [CAM], If, Sk.
- Cratoneuron filicínium** (Hedw.) Spruce) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Km, Kr, Ky, Lv, My, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Crossídium squamíferum** (Viv.) Jur. – [SZ, CRM], Kr.
- Ctenídium mollúscum** (Hedw.) Mitt. – [CAM, SZ, CRM], Cv, If, Kr, Lv, Sk.
- Cynodóntium brúntonii** (Sm.) Bruch & Schimp. – [CAM, CRM], Kr, Sk.
- Cynodontium gracilésceus** (F. Weber & Mohr) Schimp. (*Oncophorus gracilescens* Lindb.) – [CAM], Cv, If.
- Cynodontium polycárpon** (Hedw.) Schimp. (*Oncophorus polycarpus* Brid.) – [CAM, MF, DF, FSZ], Cv, If, Ky, Sk, Te, Vn.
- Cynodontium strumíferum** (Hedw.) Lindb. (*Oncophorus strumifer* Brid.) – [CAM, MF], Cv, If, Lv, Sk.
- Cynodontium tenéllum** (Schimp.) Limpr. – [CAM], Sk.
- Dichelýma capillaceum** (Dicks.) Myrin – [MF], Zh.
- Dichelyma falcátum** (Hedw.) Myrin – [CAM], Sk.
- Dichodóntium flavésceus** (Dicks.) Lindb. – [CAM], Sk.
- Dichodontium palústre** (Dicks.) M. Stech (*Dicranella palustris* (Dicks.) Crundw.) – [CAM], If, Sk.
- Dichodontium pellúcidum** (Hedw.) Schimp. – [CAM, FSZ], Cv, If, Lv, Sk, Vn, Zh.
- Dicranélla cerviculáta** (Hedw.) Schimp. – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Ka, Ky, Lv, Po, Ri, Sk, Su, Vn, Vl, Zh.
- Dicranella crísipa** (Hedw.) Schimp. – [CAM, MF, DF], Ch, If, Lv, Zt.
- Dicranella heteromálla** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Do, If, Ki, Ka, Ke, Km, Ky, Lv, My, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Dicranella rufésceus** (Dicks.) Schimp. – [CAM, DF, FSZ, CRM], If, Kr, Lv, Sk, Su, Vn, Zh.
- Dicranella schreberiána** (Hedw.) Dix. – [CAM, MF, DF, FSZ], Ck, Cv, If, Ky, Lv, Sk, Te, Vn, Zh.
- Dicranella subuláta** (Hedw.) Schimp. (*D. curvata* (Hedw.) Schimp.) – [CAM, DF], Cv, If, Lv, Sk, Te.
- Dicranella vária** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Km, Kr, Ky, Lv, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl.
- Dicranodóntium aspérulum** (Mitt.) Broth. – [CAM], If.
- Dicranodontium denudátum** (Brid.) Britton (*D. longirostre* Bruch & Schimp.) – [CAM, MF, DF, FSZ, CRM], Cv, If, Ky, Lv, Ri, Sk, Su, Vl, Vn, Zh.
- Dicranowéisia cirráta** (Hedw.) Lindb. – [CAM, DF, FSZ, SZ, CRM], If, Ke, Kr, Su.
- Dicránium bonjeánii** De Not. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, If, Ka, Km, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Dicranum elongátum** Schleich. ex Schwaegr. (*D. sendtneri* Limpr.) – [CAM], If, Sk.
- Dicranum flagelláre** Hedw. (*Orthodicranum flagellare* (Hedw.) Loeske) – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Ka, Ky, Lv, Po, Ri, Sk, Su, Vn, Vl, Zh.
- Dicranum flexicáule** Brid. (*D. fuscescens* var. *flexicaule* (Brid.) Wilson) – [CAM, FSZ], If, Sk, Vn.

- Dicranum fúlvum** Hook. (*Orthodicranum fulvum* (Hook.) G.Roth ex Casares-Gil) – [CAM, MF, DF], If, Ky, Lv, Sk, Vn.
- Dicranum fuscéscens** Sm. – [CAM, MF, SZ], Cv, Dn, If, Sk, Zh.
- Dicranum groenlándicum** Brid. (*D. elongatum* subsp. *groenlandicum* (Brid.) Mönk.) – [CAM], Sk.
- Dicranum május** Sm. – [CAM, CRM], Kr, Lv, Sk.
- Dicranum montánum** Hedw. (*Orthodicranum montanum* (Hedw.) Loeske) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, Do, If, Ka, Km, Ky, Kr, Lu, Lv, Od, Po, Ri, Sk, Su, Vn, Vl, Zh.
- Dicranum muehlenbéckii** Bruch & Schimp. – [CAM, CRM], If, Kr, Sk.
- Dicranum polysétum** Sw. (*D. rugosum* Brid.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, Do, If, Ka, Km, Ky, Lu, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Dicranum scopárium** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Km, Ki, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Dicranum spadíceum** Zett. (*D. muehlenbeckii* var. *spadiceum* (J.E.Zetterst.) Podp.) – [CAM], If, Sk.
- Dicranum spúrium** Hedw. – [CAM, MF, DF], If, Lv, Ri, Sk, Zh.
- Dicranum táuricum** Sap. (*Orthodicranum tauricum* (Sapjegin) Smirnova) – [CAM, MF, FSZ, SZ, CRM], Ch, Ck, Do, If, Kr, Ky, Lu, Lv, Vn.
- Dicranum undulátum** Schrad. ex Brid. (*D. bergeri* Blandow, *D. affine* Funck) – [CAM], If, Sk.
- Dicranum víride** (Sull. & Lesq.) Lindb. (*D. fulvum* var. *viride* Grout) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Didýmodon acútus** (Brid.) Saito (*Barbula acuta* (Brid.) Brid.) – [CAM, MF, DF, FSZ, SZ, CRM], Cv, Dn, Do, If, Ka, Ke, Km, Kr, Lu, My, Po, Ri, Sk.
- Didimodon cordátus** Jur. (*Barbula cordata* (Jur.) Loeske) – [CRM], Kr.
- Didymodon fállax** (Hedw.) Zander (*Barbula fallax* Hedw.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, If, Ka, Ki, Ke, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vn, Zh.
- Didymodon ferrugíneus** (Schimp. ex Besch.) M. Hill (*Barbula reflexa* (Brid.) Brid.) – [CAM, MF, DF, FSZ], Cv, If, Lv, Ri, Te.
- Didymodon insulánuš** (De Not.) M. Hill (*Barbula cylindrica* (Taylor) Schimp.) – [CAM, DF, SZ, CRM], If, Ke, Kr, Sk, Te.
- Didymodon lúridus** Hornsch. (*Barbula lurida* Hornsch.) – [CAM, DF, CRM], If, Kr, Sk, Te.
- Didymodon rigídulus** Hedw. (*Barbula rigidula* (Hedw.) Milde) – [CAM, DF, FSZ, SZ, CRM], Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Lu, Lv, My, Od, Sk, Te, Vn.
- Didymodon sinuóšus** (Mitt.) Delogne (*Barbula sinuosa* (Mitt.) Grav.) – [SZ, CRM], Ke, Kr.
- Didymodon spadíceus** (Mitt.) Limpr. (*Barbula spadicea* (Mitt.) Braithw.) – [CAM, DF, SZ, CRM], Cv, If, Ki, Kr, Lv, Sk, Te.
- Didymodon topháceus** (Brid.) Lisa (*Barbula tophacea* (Brid.) Mitt.) – [CAM, DF, FSZ, SZ, CRM], Ck, Cv, Do, If, Ka, Ki, Km, Kr, Lv, Od, Sk, Te.
- Didymodon vineáliš** (Brid.) Zander (*Barbula vinealis* Brid.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, If, Ka, Ke, Kr, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Te.
- Diphyscium folióšum** (Hedw.) Mohr – [CAM, DF, CRM], If, Kr, Lv, Sk.
- Distíchium capilláceum** (Hedw.) Bruch & Schimp. – [CAM, MF, DF, CRM], Cv, If, Km, Kr, Ky, Lv, Sk, Te.
- Distichium inclinátum** (Hedw.) Bruch & Schimp. (*Cynodontium inclinatum* (Hedw.) Bruch & Schimp.) – [CAM], If.
- Dítrichium flexicáule** (Schwaegr.) Hampe (*Cynodontium flexicaule* (Schwaegr.) Hampe, *Didymodon flexicaule* Schleirch.) – [CAM, DF, FSZ, CRM], Cv, If, Km, Kr, Lv, Sk, Vn.

- Ditrichum heteromállum** (Hedw.) Britton – [CAM, DF, SZ], Cv, Dn, If, Lv, Sk, Te.
- Ditrichum pállidum** (Hedw.) Hampe – [CAM, DF], Cv, Lv, Sk, Te.
- Ditrichum pusillum** (Hedw.) Hampe (*D. tortile* (Schrad.) Brockm.) – [CAM, MF, FSZ, SZ], Cv, Dn, If, Ka, Lv, Pi, Sk, Zh.
- Ditrichum subulátum** (Bruch) Hampe (*Trichostomum subulatum* Bruch) – [CAM], Cv.
- Ditrichum zonátum** (Brid.) Kindb. (*D. heteromallum* var. *zonatum* (Brid.) Podp.) – [CAM], Sk.
- Drepanocládus adúncus** (Hedw.) Warnst. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Drepanocladus lycopodióides** (Brid.) Warnst. (*Pseudocalliergon lycopodioides* (Brid.) Hedenäs) – [CAM, MF, DF], If, Ky, Lv, Ri, Vl, Zh.
- Drepanocladus polycárpos** (Blandow ex Voit) Warnst. (*D. aduncus* var. *polycarpus* (Bland.) Moenk.) – [MF], Ch, Ka, Ky.
- Drepanocladus polýgamus** (Schimp.) Hedenäs (*Campylium polygamum* (Schimp.) Lange & C.E.O.Jensen) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Do, If, Ka, Ki, Ky, Po, Ri, Te, Vn, Vl.
- Drepanocladus séndtneri** (Schimp. ex H. Müll.) Warnst. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Dn, If, Ka, Ke, Kr, Ky, Lv, My, Od, Po, Sk, Su, Te, Vl, Zh.
- Drepanocladus trifárius** (F. Weber & D. Mohr) Brotherus ex Paris (*Pseudocalliergon trifarium* (F. Weber & Mohr) Loeske, *Calliergon trifarium* (F. Weber & D. Mohr) Kindb.) – [MF, DF], Ch, Ky, Lv, Vl.
- Encalýpta ciliáta** Hedw. – [CAM, MF, DF, FSZ], Cv, If, Ky, Lv, Ri, Sk, Vn, Zh.
- Encalypta longícolla** Bruch – [CAM], Sk.
- Encalypta mútica** Hag. (*E. vulgaris* var. *mutica* Brid.) – [SZ], Do, My.
- Encalypta rhapsocárpa** Schwaegr. – [CRM], If, Kr, Sk.
- Encalypta spathuláta** H. Müll. (*E. rhapsocarpa* var. *spathulata* (Müll.Hal.) Husn.) – [SZ, CRM], Do, Kr, Lu.
- Encalypta streptocárpa** Hedw. (*E. contorta* Hopp. ex Lindb.) – [CAM, DF, FSZ, SZ, CRM], Cv, Do, If, Km, Kr, Lu, Lv, Ri, Sk, Te, Vl, Vn.
- Encalypta vulgáris** Hedw. – [CAM, DF, FSZ, SZ, CRM], Ck, Cv, Dn, Do, If, Ka, Ke, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Zh.
- Éntodon concínus** (De Not.) Par. – [CAM, FSZ, CRM], Cv, If, Kr, Sk, Vn.
- Entósthodon fasciculáris** (Hedw.) H. Müll. (*Funaria fascicularis* (Hedw.) Lindb.) – [CAM, MF, DF, FSZ, SZ], Ky, Lv, My, Pi, Sk, Vn.
- Entosthodon hungáricus** (Boros) Loeske (*Funaria hungarica* Boros) – [SZ, CRM], Ck, Cv, Dn, Do, Ke, Km, Kr, My, Sp.
- Entosthodon muhlenbérghii** (Turn.) Fife (*Funaria dentata* Crome, *Funaria muhlenbergii* Turner) – [FSZ, SZ, CRM], Dn, Kr, Ky, Te.
- Ephemerum crassinérvium** (Schwagr.) Hampe subsp. **séssile** (Bruch) Holyoak (*Ephemerum sessile* (Bruch) H. Müll.) – [FSZ], Vn.
- Ephémérum minutíssimum** Lindb. – [FSZ], Vn.
- Ephemerum recurvifólium** (Dicks.) Boulay – [FSZ], Vn.
- Ephemerum serrátum** (Hedw.) Hampe – [CAM, MF, DF, FSZ], Ch, Lv, Sk, Te, Vn.
- Eucládium verticillátum** (With.) Bruch & Schimp. – [CAM, DF, FSZ, SZ, CRM], Cv, Do, If, Km, Kr, Od.
- Eurhynchiástrum pulchéllum** (Hedw.) Ignatov & Huttunen (*Eurhynchium pulchellum* (Hedw.) Jenn.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Kr, Ky, Lv, My, Po, Ri, Sk, Sp, Su, Vl, Vn, Zh.
- Eurhynchiástrum pulchéllum** (Hedw.) Ignatov & Huttunen var. **práecox** (Hedw.) Ochya & Żarnowiec – [CAM, MF], Ch, Cv.

- Eurhynchium angustiréte** (Broth.) T. Kop. (*E. zetterstedtii* Stormer) – Ch, Cv, If, Kr, Ky, Lv, Po, Sk, Su, Te, Vl, Zh. – [CAM, MF, DF, FSZ, CRM].
- Eurhynchium striátum** (Hedw.) Schimp.) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Km, Kr, Ky, Lv, Po, Ri, Sk, Te, Vl, Vn, Zh.
- Exsertothéca crísipa** (Hedw.) S.Olsson, Enroth & D.Quandt (*Neckera crispa* Hedw.) – [CAM, DF, CRM], Cv, If, Km, Kr, Lv, Sk.
- Físsidens adianthóides** Hedw. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cr, If, Km, Kr, Lv, Sk, Su, Te, Vn, Vl, Zh.
- Físsidens arnóldii** Ruthe (*F. obtusifolius* Wils.) – [CAM, MF, DF], Cv, Te, Zt.
- Físsidens bryóides** Hedw. (*Físsidens exiguus* Sull., *Físsidens incurvus* Starke ex Röhl.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Km, Kr, Ky, Lv, Lu, Po, Ri, Sk, Su, Te, Vn, Zh.
- Físsidens crássipes** Wils. ex Bruch & Schimp. (*F. mildeanus* Schimp.) – [MF, FSZ, SZ, CRM], Ck, Kr, Mk, Od, Vn, Zh.
- Físsidens críspus** Mont. (*Físsidens minutulus* Sull.) – [CAM, DF, FSZ, SZ, CRM], Cv, Km, Kr, Lu, Te, Vn.
- Físsidens dúbius** P. Beauv. (*F. cristatus* Wilson ex Mitt., *F. decipiens* De Not.) – [CAM, DF, FSZ, SZ, CRM], Cv, If, Kr, Lv, Ri, Sk, Te, Vn.
- Físsidens éxilís** Hedw. – [CAM, DF, FSZ], Cv, Lv, Sk, Te, Vn.
- Físsidens fontánus** (Bach. Pyl.) Steud. (*Octodiceras fontanum* (Bach.Pyl.) Lindb.) – [MF], Zh.
- Físsidens gymnándrus** Büse (*F. bryoides* var. *gymnandrus* (Büse) Ruthe) – [CAM, MF], Cv, If, Sk, Vl.
- Físsidens marginátulus** Meln. – [CAM, MF, FSZ, CRM], Ck, Cv, If, Ki, Km, Kr, Ky, Lv, Ri, Sk, Te, Vn.
- Físsidens osmundóides** Hedw. – [CAM, DF], Lv.
- Físsidens pusíllus** (Wilson) Milde (*Físsidens viridulus* var. *pusillus* Wilson) – [CAM, MF, DF], Cv, If, Km, Lw, Sk, Te, Zt.
- Físsidens rivuláris** (Spruce) Schimp. – [CRM], Kr.
- Físsidens rúfulus** Bruch & Schimp. – [CAM], Cv.
- Físsidens taxifólius** Hedw. [CAM, MF, DF, FSZ, SZ, CRM], Ck, Cv, Dn, If, Ka, Km, Kr, Ky, Lv, Od, Po, Ri, Su, Te, Vn, Vl, Zh.
- Físsidens virídulus** (Sw.) Wahlenb. – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Cv, If, Ka, Lu, Lv, Po, Su, Te, Vn.
- Fontínális antipyréтика** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Ki, Kr, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Fontinalis hypnóides** C. Hartm. – [CAM, MF, SZ], Dn, If, Ke, Sk, Su, Zh.
- Funária hygrométrica** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Funaria micróstoma** Bruch ex Schimp. – [DF], Lv.
- Grímmia alpéstris** (F.Weber & Mohr) Schleich. – [CAM], If, Sk.
- Grimmia anódon** Bruch & Schimp. (*Schistidium anodon* (Bruch & Schip.) Loeske) – [MF, DF, FSZ, SZ, CRM], Ch, Dn, Km, Kr, Lu, Lv, My, Vn, Zh.
- Grimmia anómala** Hampe ex Schimp. – [CAM], If, Sk.
- Grimmia criníta** Brid. – [SZ], Kr.
- Grimmia decípiens** (Schultz) Lindb. – [CAM, CRM], Kr, Sk.
- Grimmia donniána** Sm. – [CAM], If, Sk.
- Grimmia elátior** Bruch ex Bals. – Criv. & De Not. (*Dryptodon incurvus* (Hornsch.) Brid.) – [CAM], If, Sk.
- Grimmia elongáta** Kaulf. – [CAM, CRM], Sk, If, Kr.
- Grimmia funális** (Schwaegr.) Bruch & Schimp. – [CAM], Sk, If.

- Grimmia fuscolútea** Hook. – [CAM], Cv.  
**Grimmia hártmanii** Schimp. – [CAM, FSZ, CRM], If, Kr, Lv, Sk, Vn.  
**Grimmia incúrva** Schwaegr. – [CAM], If, Sk.  
**Grimmia laevigáta** (Brid.) Brid. (*G. campestris* Burchel ex Hook.) – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, My, Sk, Sp, Te, Vn, Zh.  
**Grimmia longiróstris** Hook. (*Grimmia ovalis* (Hedw.) Lindb., *G. commutata* Hüben., *G. ovata* Schwägr.) – [CAM, MF, FSZ, SZ, CRM], Ck, Dn, Do, If, Ki, Kr, Ky, Lu, My, Ri, Sk, Sp, Vn, Zh.  
**Grimmia montána** Bruch & Schimp. – [CAM], If.  
**Grimmia muehlenbéckii** Schimp. – [CAM, MF, FSZ, SZ, CRM], Kr, Sk, Sp, Zh.  
**Grimmia orbiculáris** Bruch ex Wils. – [DF, CRM], Kr, Te.  
**Grimmia plagiopódia** Hedw. – [DF, FSZ, SZ], Dn, Km, Lu, Sp, Vn.  
**Grimmia poecilóstoma** Cardot & Sebillé – [CRM], Kr.  
**Grimmia pulvináta** (Hedw.) Sm. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.  
**Grimmia ramóndii** (Lam. & DC.) Marg. (*Grimmia patens* (Hedw.) B.S.G. – [CAM], Sk.  
**Grimmia tergéstina** Tomm. ex Bruch & Schimp. (*G. tergestinoides* Culm.) – [DF, CRM], Km, Kr.  
**Grimmia trichophýlla** Grev. (*G. meridionalis* (Müll. Hal.) E. Maier) – [CAM, MF, SZ, CRM], Do, Kr, Ri, Sk, Zh.  
**Gymnostomum aeruginósum** Sm. (*Weisia rupestris* C. Müll.) – [CAM, DF, CRM], Cv, If, Kr, Sk, Te.  
**Gymnóstomum calcáreum** Nees & Hornsch. – [DF, CRM], Kr, Te.  
**Gyrowéisia ténuis** (Hedw.) Schimp. – [CAM, DF, CRM], Cv, If, Kr, Lv, Sk, Te.  
**Hamatocáulis vernicósus** (Mitt.) Hedenäs (*Drepanocladus vernicosus* (Mitt.) Warnst.) – [CAM, MF, DF, FSZ], Ch, Ck, If, Ky, Lv, Ri, Sk, Su, Te, Vn, Vl, Zh.  
**Haplocládium microphýllum** (Hedw.) Broth. – [FSZ], Od.  
**Hedwígia ciliáta** (Hedw.) P. Beauv. – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Cv, Dn, Do, If, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Ri, Sk, Sp, Vn, Zh.  
**Helóidium blandówii** (F. Weber & Mohr) Warnst. – [MF, DF, FSZ], Ch, Ki, Ky, Lv, Ri, Vl.  
**Henediélia héimii** (Hedw.) Zander (*Desmatodon heimii* (Hedw.) Mitt.) – [DF, FSZ], Ck, Lv.  
**Herzogiélla seligéri** (Brid.) Iwats. (*Dolichotheca seligerii* (Brid.) Loeske) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Sk, Te, Vl, Vn, Zh.  
**Herzogiella striatélla** (Brid.) Iwats. (*Dolichotheca striatella* (Brid.) Iwats.) – [CAM], If, Sk.  
**Heterocládium dimórphum** (Brid.) Schimp. – [CAM], If, Sk.  
**Heterocladium heterópterum** (Brid.) Schimp. – [CAM], If, Sk.  
**Heterophýllium affíne** (Hook.) Fleisch. (*H. nemorosum* (Brid.) Kindb.) – [CAM, DF], If, Lv, Sk.  
**Homália trichomanóides** (Hedw.) Brid. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.  
**Homalothécium aúreum** (Spruce) Robins. (*Camptothecium aureum* (Spruce) Bruch & Schimp.) – [CRM], Kr.  
**Homalothecium lutéscens** (Hedw.) Robins. (*Camptothecium lutescens* (Hedw.) Schimp.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Sk, Sp, Su, Te, Zh.  
**Homalothecium philippeánum** (Spruce) Schimp. – Cv, If, Km, Kr, Lv, Ri, Sk, Te.



- Homalothecium seríceum** (Hedw.) Schimp. – [CAM, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Te, Vn, Zh.
- Homomállium incurvátum** (Schröd. ex Brid.) Loeske – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Cv, Do, If, Km, Kr, Lu, Lv, Ri, Sk, Te.
- Hookéria lúdens** (Hedw.) – [CAM], If, Lv, Sk.
- Hygroamblystégium fluviátile** (Hedw.) Loeske – [CAM, MF, DF], Km, Sk, Zh.
- Hygroamblystégium húmile** (P. Beauv.) Vanderp., Goffinet & Hedenäs (*Amblystegium humile* (P. Beauv.) Crundw., *A. kochii* Bruch & Schimp., *Leptodictyum humile* (P. Beauv.) Ochyra, *Leptodictyum kochii* (Schimp.) Warnst.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, Do, Ka, Ke, Ky, Lu, Lv, Po, Sk, Su, Te, Zh.
- Hygroamblystégium ténax** (Hedw.) Jenn. (*Amblystegium tenax* (Hedw.) C.E.O.Jensen) – [CAM, MF, DF, SZ, CRM], Ck, Cv, Do, Ki, Ky, Lv, Mk, Sk, Te.
- Hygroamblystégium várium** (Hedw.) Mönk. (*Amblystegium varium* (Hedw.) Lindb.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Hygrohypnum duriúsculum** (De Not.) D.W. Jamieson – [CAM], If, Sk.
- Hygrohypnum lúridum** (Hedw.) Jenn. – [CAM, DF, FSZ, CRM], Cv, If, Km, Kr, Ky, Sk, Te, Vn.
- Hygrohypnum mólle** (Hedw.) Loeske – [CAM], If, Sk.
- Hygrohypnum ochráceum** (Turn. ex Wils.) Loeske – [CAM], If, Sk.
- Hylocomiástrum pyrenáicum** (Spruce) Fleisch. – [CAM], If, Sk.
- Hylocomiastrum umbrátum** (Hedw.) Fleisch. – [CAM], If, Sk.
- Hylocómium spléndens** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, CRM], Ch, Cv, If, Ka, Km, Kr, Ky, Lv, Po, Sk, Su, Te, Vl, Vn, Zh.
- Hymenolóma compactum** (Schwagr.) Ochyra (*Dicranoweisia compacta* (Schleich. ex Schwaegr.) Schimp., *D. crispula* var. *compacta* (Schwagr.) Lindb.) – [CAM], Sk.
- Hymenoloma crispulum** (Hedw.) Ochyra (*Dicranoweisia crispula* (Hedw.) Milde) – [CAM, MF], If, Km, Sk.
- Hymenostýlium recurviróstrum** (Hedw.) Dix. (*Gymnostomum recurvirostrum* Hedw.) – [CAM], Sk.
- Hýpnum ándoi** Sm. (*H. cupressiforme* var. *mammillatum* Brid.) – [CAM, MF], Cv, Ri.
- Hypnum báambergeri** Schimp. – [CAM], Cv, Sk.
- Hypnum callíchrom** Brid. – [CAM, DF], If, Lv, Sk.
- Hypnum cupressifórme** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Hypnum cupressifórme** Hedw. var. **filifórme** Brid. – [CAM, SZ], Cv, If, Ka, My, Sk.
- Hypnum cupressifórme** Hedw. var. **lacunósum** Brid. – [CAM, MF, DF, SZ, CRM], Cv, Kr, Ri, Te, Vl.
- Hypnum cupressifórme** Hedw. var. **subjuláceum** Molendo – [CAM, SZ, CRM], Cv, Do, If, Kr, Lu, My, Sk.
- Hypnum fértile** Sendt. – [CAM, MF, DF], Cv, If, Lv, Ri, Sk, Te, Zh.
- Hypnum hamulósum** Schimp. – [CAM], Cv, If, Sk.
- Hypnum impónens** Hedw. – [CAM, MF, DF, FSZ, CRM], Cv, If, Km, Kr, Lv, Sk, Zh.
- Hypnum jutlándicum** Holmen & Warncke (*H. cupressiforme* var. *ericetorum* Schimp.) – [MF], Vl.
- Hypnum palléscens** (Hedw.) P. Beauv. (*Hypnum reptile* Rich.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Od, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Hypnum recurvátum** (Lindb. & Arnell) Kindb. (*H. fastigiatum* Brid.) – [CAM, DF], Cv, If, Lv, Sk, Te.
- Hypnum revolútum** (Mitt.) Lindb. – [CAM, CRM], Cv, If, Kr, Sk.

- Hypnum vauchéri** Lesq. (*H. cupressiforme* var. *vaucheri* C.Jens.) – [CAM, DF, FSZ, SZ, CRM], Cv, If, Ka, Ke, Kr, Lu, Lv, My, Od, Te.
- Imbribrýum alpinum** (Huds. ex With.) N. Pedersen (*Bryum alpinum* Huds. ex With.) – [CAM, MF, FSZ, SZ, CRM], Ch, Ck, Do, Kr, Ky, Mk, Sk, Sp.
- Imbribryum mildeánum** (Jur.) J.R. Spence (*Bryum mildeanum* Jur., *B. alpinum* var. *mildeanum* (Jur.) Podp.) – [CAM], If, Sk.
- Isopterygiópsis muelleriána** (Schimp.) Iwats. (*Isopterygium muellerianum* (Schimp.) Lindb.) – [CAM], Cv, If, Sk.
- Isopterygiopsis pulchélla** (Hedw.) Iwats. (*Isopterygium pulchellum* (Hedw.) A.Jaeger.) – [CAM, DF], Cv, If, Lv, Po, Sk, Te.
- Isothécium alopecuróides** (Lam. ex Dubois) Isov. (*I. myurum* Brid., *I. viviparum* Lindb.) – [CAM, MF, DF, FSZ, SZ, CRM], Cv, Dn, If, Ka, Ki, Km, Kr, Ky, Lv, Po, Ri, Sk, Te, Vl, Vn, Zh.
- Isothecium hóltii** Kindb. (*Isothecium myosuroides* var. *rivulare* Limpr.) – [CAM], Cv.
- Isothecium myosuróides** Brid. – [CAM, MF], Cv, If, Sk.
- Kiaéria blýttii** (Bruch & Schimp.) Broth. – [CAM], If, Sk.
- Kiaeria falcáta** (Hedw.) Hag. – [CAM], If, Sk.
- Kiaeria stárkei** (F.Weber & Mohr) Hag. – [CAM], If, Sk.
- Kindbergia praelóna** (Hedw.) Ochyra (*Eurhynchium praelongum* (Hedw.) Schimp.) – [CAM, MF, DF, FSZ, SZ], Ck, Cv, Do, If, Ke, Kr, Lv, Po, Sk, Sp, Su, Te, Vn.
- Lazarénkia kozlówii** (Lazar.) Boiko (*Pterygoneurum kozlovii* Lazar.) – [SZ], Kr, Od, Sp.
- Leptóbryum pyrifórme** (Hedw.) Wils. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Zh.
- Leptodíctyum ripárium** (Hedw.) Warnst. (*Amblystegium riparium* (Hedw.) Schimp.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Leptódon smíthii** (Hedw.) F.Weber & Mohr – [SZ, CRM], Kr.
- Lescúraea incurvata** (Hedw.) E. Lawto (*L. atrovirens* (Bruch & Schimp.) E.Lawto, *Pseudoleskea incurvata* (Hedw.) Loeske) – [CAM, SZ, CRM], Dn, If, Ke, Ki, Kr, Lv, Sk.
- Lescuraea mutábilis** (Brid.) Lindb. ex Hag. (*Leskea mutabilis* (Brid.) Boul.) – [CAM], If, Sk.
- Lescuraea pástens** Lindb. (*Pseudoleskea patens* (Lindb.) Kindb.) – [CAM], Sk.
- Lescuraea plicáta** (Schleich. ex F.Weber & D.Mohr) Broth (*Ptychodium plicatum* (Schleich. ex F.Weber & Mohr) Schimp.) – [CAM], If, Sk.
- Lescuraea radicósa** (Mitt.) Mönk. (*Pseudoleskea radicata* (Mitt.) Macoun & Kindb.) – [CAM], Cv, If, Sk.
- Lescuraea saviána** (De Not.) E. Lawton (*Pseudoleskea saviana* (De Not.) Latzel, *Ptychodium tauricum* Sap.) – [CAM, CRM], Kr, Sk.
- Lescuraea saxícola** (Schimp.) Mol. (*Lescuraea mutabilis* var. *saxicola* (Bruch & Schimp.) Hag.) – [CAM], If, Sk.
- Leskea polycárpa** Hedw. ) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Leucóbryum gláucum** (Hedw.) Ångstr. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Km, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Leucobryum juniperoídeum** (Brid.) H. Müll. (*L. minus* Hampe) – [CAM], Cv, If, Lv, Sk.
- Leucodon sciuróides** (Hedw.) Schwaegr. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Loeskeóbryum breviróstre** (Brid.) Fleisch. (*Hylocomium brevirostre* (Brid.) Schimp.) – [CAM, CRM], If, Kr, Sk.
- Meésia longiséta** Hedw. – [MF, FSZ], Ky, Vn.

- Meesia triquétra** (L. ex Jolycl.) Ångstr. – [CAM, MF, DF, FSZ], If, Ky, Lv, Pi, Vl, Vn, Zh.
- Meesia uliginósa** Hedw. – [CAM, FSZ], If, Sk, Vn.
- Micróbryum curvícollum** (Hedw.) Zander (*Phascum curvicollum* Hedw.) – [DF, SZ], Ke, Lv.
- Microbryum davalliánum** (Sm.) Zander (*Pottia davalliana* (Sm.) C.E.O.Jensen) – [CAM, MF, DF, FSZ, SZ], Ch, Cv, Dn, Do, Ky, Lv, Su, Te, Vn.
- Microbryum starckeánum** (Hedw.) Zander (*Pottia starckeana* (Hedw.) Müll.Hal.).
- Mnium hórnium** Hedw. – [CAM, MF, DF, CRM], Km.Kr, Lv, Sk.
- Mnium lycopodióides** Schwaegr. – [CAM, MF, DF], Cv, If, Km, Ky, Lv, Sk, Te, Vn, Zh.
- Mnium marginátum** (Dicks.) P. Beauv. – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ki, Km, Kr, Ky, Lv, Po, Sk, Su, Te, Vn, Zh.
- Mnium spinósum** (Voit) Schwaegr. – [CAM, CRM], Cv, If, Kr, Sk.
- Mnium spinulósum** Bruch & Schimp. – [CAM], If, Sk.
- Mnium stelláre** Hedw. – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ki, Km, Kr, Ky, Lv, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Mnium thómsonii** Schimp. – [CAM, DF, CRM], Cv, If, Kr, Sk.
- Molendóa hornschuchiána** (Hook.) Lindb. ex Limpr. (*Anoetangium hornschuchianum* (Hook.) Funck ex Hornsch.) – [CAM], Cv.
- Molendóa sendtneriána** (Bruch & Schimp.) Limpr. (*Anoetangium sendtnerianum* Bruch & Schimp.) – [CAM], Sk.
- Myrínia pulvinata** (Wahlenb.) Schimp. – [FSZ], Ka.
- Myurélla julácea** (Schwaegr.) Schimp. – [CAM, CRM], If, Kr, Sk.
- Myurella tenerríma** (Brid.) Lindb. – [CAM], Sk.
- Neckéra menziésii** Drumm. (*Metaneckera menziesii* (Drumm.) Steere, *Neckeradelphus menziesii* (Hook.) Steere) – [CRM], Kr.
- Neckera pennáta** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Cv, Dn, If, Ki, Km, Kr, Lv, Od, Ri, Sk, Su, Vl, Vn, Zh.
- Neckera púmila** Hedw. (*N. fontinaloides* Lindb.) – [CAM], If, Sk.
- Nogoptérium grácile** (Hedw.) Crosby & W.R. Buck (*Pterogonium gracile* (Hedw.) Sm.) – [CRM], Kr.
- Nyholmiélla gymnóstoma** (Bruch ex Brid.) Holmen & E. Warncke (*Orthotrichum gymnostomum* Bruch ex Brid.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Do, If, Ka, Ky, Kr, Ri, Sk, Sp, Vn, Zh.
- Nyholmiella obtusifólia** (Schr. ex Brid.) Holmen & E. Warncke (*Orthotrichum obtusifolium* Brid.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, If, Ka, Ke, Km, Kr, Ky, Lv, Od, Po, Ri, Sk, Su, Te, Vl.
- Oligótrichum hercýnicum** (Hedw.) Lam. & DC. (*Polytrichum hercynicum* Hedw.) – [CAM], Cv, If, Sk.
- Oncóphorus vírens** (Hedw.) Brid. (*Cynodontium virens* Schimp.) – [CAM], If, Sk.
- Oncophorus wahlenbérghii** Brid. (*Cynodontium wahlenbergii* C.Hartm.) – [CAM], Sk.
- Orthothécium intricátum** (Hartm.) Schimp. (*Holmgrenia intricata* Lindb., *Leskea intricata* Hartm.) – [CAM, DF, CRM], Cv, If, Kr, Lv, Sk.
- Orthothecium ruféscens** (Dicks. ex Brid.) Schimp. – [CAM], If.
- Orthótrichum affine** Schrad. ex Brid. (*O. fastigiatum* Bruch ex Brid.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Orthotrichum affine** var. **bohémicum** Plašek & Sawicki [CRM], Kr.
- Orthotrichum alpéstre** Bruch & Schimp. – [CAM], Sk.
- Orthotrichum anómalum** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Cv, Dn, Do, If, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Ri, Sk, Sp, Te, Vn, Zh.

- Orthotrichum cupulátum** Hoffm. ex Brid. (*O. limprichtii* I.Hagen, *O. nudum* Dicks) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Cv, Do, If, Ke, Km, Kr, Lv, My, Te, Vn.
- Orthotrichum cupulátum** Hoffm. ex Brid. var. **ripárium** Huebener – [CRM], Kr.
- Orthotrichum diaphánum** Schrad. ex Brid. – Ck, If, Ka, Ke, Kr, Ky, Lv, My, Od, Ri, Sk, Sp, Su, Vn.
- Orthotrichum lyéllii** Hook. & Taylor – [CAM, MF, DF, FSZ, SZ, CRM], If, Kr, Lv, Od, Sk, Vl, Vn, Zh.
- Orthotrichum pállens** Bruch ex Brid. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ki, Km, Kr, Ky, Od, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Orthotrichum pápens** Bruch ex Brid. (*O. stramineum* var. *patens* Vent.) – [CAM, MF, DF, FSZ, SZ], Ck, Cv, If, Ke, Ky, Ri, Sk, Te, Vl, Vn, Zh.
- Orthotrichum púmílum** Sw. (*O. fallax* Bruch) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vn, Vl.
- Orthotrichum rupéstre** Schleich. ex Schwaegr. – [CAM, FSZ, SZ, CRM], Ck, Dn, Do, If, Ki, Kr, Sk, Sp.
- Orthotrichum scánicum** Grönv. (*O. leucomitrium* Bruch & Schimp.) – [DF], Cv.
- Orthotrichum schímperi** Hammar (*O. pumilum* Dicks.) – [CAM, MF, DF, FSZ, SZ, CRM], Cv, Do, If, Ke, Kr, Ky, Lv, Po, Sk, Te, Vn.
- Orthotrichum speciósium** Nees – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Orthotrichum stramíneum** Hornsch. ex Brid. (*O. rogeri* var. *defluens* (Venturi) Venturi) – Cv, If, Km, Kr, Lv, Sk, Te.
- Orthotrichum striátum** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Ke, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vn.
- Orthotrichum tenéllum** Bruch ex Brid. – [CAM, FSZ, CRM], If, Kr, Po, Su.
- Oxyrrhynchium híans** (Hedw.) Loeske (*Eurhynchium híans* (Hedw.) Sande Lac) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Oxyrrhynchium schléicheri** (R. Hedw.) Röhl (*Eurhynchium schleicheri* (R. Hedw.) Milde) – [CAM, CRM], Kr, Sk.
- Oxyrrhynchium speciósium** (Brid.) Warnst. (*Eurhynchium speciosum* (Brid.) Jur.) – [CAM, MF, DF, SZ, CRM], Ck, Ke, Kr, Lv, Sk, Ri, Te.
- Oxýstegus tenuiróstris** (Hook. & Taylor) Sm. (*Trichostomum tenuirostre* (Hook. & Taylor) Lindb.) – [CAM, DF], Cv, If, Lv, Sk, Vn.
- Palamocládium euchlóron** (H. Müll.) Wijk & Marg. – [CRM], Kr.
- Paludélla squarrósa** (Hedw.) Brid. – [MF, DF, FSZ], Ky, Lv, Ri, Vl, Vn.
- Palustriélla commutáta** (Hedw.) Ochyra (*Cratoneuron commutatum* (Hedw.) G.Roth) – [CAM, MF, DF, CRM], Cv, If, Km, Kr, Lv, Sk.
- Palustriella decípiens** (De Not.) Ochyra (*Cratoneuron decipiens* (De Not.) Loeske) – [CAM], Cv, If, Sk.
- Palustriella falcáta** (Brid.) Hedenäs (*Cratoneuron falcatum* (Brid.) G.Roth) – [CAM], Cv, If, Sk.
- Paraleucóbryum enérve** (Thed.) Loeske (*Dicranum enerve* Thed.) – [CAM], If, Sk.
- Paraleucobryum longifólium** (Hedw.) Loeske (*Dicranum longifolium* Ehrh.) – [CAM, MF, DF, FSZ], Ck, Cv, If, Ka, Km, Ky, Lv, Ri, Sk, Su, Vn, Zh.
- Paraleucobryum sautéri** (Bruch & Schimp.) Loeske (*P. longifolium* var. *sauteri* (Bruch & Schimp.) C.E.O.Jensen) – [CAM], If, Sk.
- Pelékium minútulum** (Hedw.) Touw (*Thuidium minutulum* (Hedw.) Schimp.) – [MF, DF], Lv, Ri, Te, Zh.

- Pháscum piliferum** Hedw. (*P. cuspidatum* var. *piliferum* (Hedw.) Hook. & Taylor, *Tortula acaulon* var. *pilifera* (With.) R.H. Zander) – [MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, If, Ke, Ki, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sp, Te, Vn.
- Philonótis caespitósa** Jur. – [CAM, MF], Vl, Sk, If, Ky, Ri, Cv.
- Philonotis calcárea** (Bruch & Schimp.) Schimp. – [CAM, DF], Cv, If, Lv, Sk, Te.
- Philonotis capilláris** Lindb. (*Ph. arnellii* Husn., *Ph. fontana* subsp. *capillaris* (Lindb.) Herib.) – [CAM], Sk.
- Philonotis fontána** (Hedw.) Brid. – [CAM, MF, DF, FSZ, SZ], Ch, Cv, Do, If, Ka, Km, Ky, Lu, Lv, Sk, Sp, Te, Vl, Zh.
- Philonotis márchica** (Hedw.) Brid. – [CAM, MF, DF, FSZ], Cv, Sk, If, Km, Ky, Lv, Ri, Vn.
- Philonotis seriáta** Mitt. – [CAM], If, Sk.
- Philonotis tomentélla** Mol. (*P. fontana* var. *pumila* (Turner) Brid.) – [CAM], If, Sk.
- Physcomitrélla párens** (Hedw.) Bruch & Schimp – [CAM, MF, DF, FSZ, SZ], Ck, Dn, Ka, Ky, Lv, Te.
- Physcomítrium arenícola** Lazar. – [MF, FSZ, SZ], Ch, Dn, Do, Lu, My, Ke, Sp.
- Physcomitrium eurystómum** Sendt. (*P. sphaericum* var. *eurystomum* Husn. – [CAM, MF, DF, FSZ, SZ], Ch, Cv, Dn, Ky, Lu, Lv, Po, Sp.
- Physcomitrium eurystómum** Sendt. subsp. **acuminátum** (Bruch & Schimp.) Giacom. (*P. acuminatum* Bruch & Schimp.) – [CAM, DF], Cv, Km, Lv.
- Physcomitrium pyrifórme** (Hedw.) Bruch & Schimp. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Km, Ki, Kr, Ky, Lu, Lv, Po, Ri, Su, Te, Vl, Vn, Zh.
- Physcomitrium sphaéricum** (Ludw. ex Schkuhr) Brid. – [MF, DF], Ch, Km, Ky, Zh.
- Plagiómniium affíne** (Blandow ex Funck) T. Kop. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Ke, Ki, Km, Kr, Ky, Lv, Po, Ri, Sk, Sp, Su, Vl, Vn, Zh.
- Plagiomnium cuspidátum** (Hedw.) T. Kop. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Plagiomnium elátum** (Bruch & Schimp.) T. Kop. (*Mnium seligeri* Jur. ex Warnst., *M. affine* var. *elatum* Bruch & Schimp.) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ka, Km, Kr, Ky, Lv, Ri, Sk, Sp, Vl, Vn, Zh.
- Plagiomnium ellípticum** (Brid.) T. Kop. (*Mnium rugicum* Laurer. emend Tuomik) – [CAM, MF, DF, FSZ, CRM], – Ch, Ck, Cv, If, Ka, Ki, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Plagiomnium médium** (Bruch & Schimp.) T. Kop. (*Mnium medium* Bruch & Schimp.) – [CAM, MF, FSZ, CRM], Ch, Ck, Cv, If, Ki, Ka, Kr, Ky, Lv, Po, Sk, Su, Vn.
- Plagiomnium rostrátum** (Schrad.) T. Kop. (*Mnium rostratum* Schrad., *M. longirostre* Brid.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Plagiomnium undulátum** (Hedw.) T. Kop. (*Mnium undulatum* Hedw.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Plagiópus oederiánus** (Sw.) Crum & L.E. Anderson (*P. oederi* (Brid.) Limpr., *Bartramia oederi* Brid.) – [CAM, MF, DF, CRM], Cv, If, Kr, Lv, Sk, Zh.
- Plagiothécium cavifólium** (Brid.) Iwats. (*P. roeseanum* Schimp.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ki, Ky, Lv, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Plagiothecium curvifólium** Schlieph. ex Limpr. (*P. laetum* var. *curvifolium* (Schlieph. ex Limpr.) Mastracci & M. Sauer) – [CAM, MF, DF, FSZ, CRM], Cv, If, Kr, Ky, Lv, Ri, Sk, Su, Vl.
- Plagiothecium denticulátum** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ki, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Plagiothecium denticulatum** (Hedw.) Schimp. var. **undulátum** R.Ruthe ex Geh. (*Plagiothecium ruthei* Limpr.) – [CAM, MF], Cv, Ka, Ri, Su, Zh.

- Plagiothecium laétum** Schimp. – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Ka, Ky, Lv, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Plagiothecium latebrícola** Schimp. (*Plagiotheciella latebricola* (Wils.) Fleisch.) – [CAM, MF, DF, FSZ], Ch, Ck, If, Ka, Lv, Po, Sk, Su, Vl, Zh.
- Plagiothecium neckeroídeum** Schimp. (*P. noricum* Molendo ex Limpr.) – [CAM], If, Sk.
- Plagiothecium nemorále** (Mitt.) Jaeg. (*P. silvaticum* (Brid.) Bruch & Schimp., *P. neglectum* Mönk.) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ka, Ki, Kr, Ky, Lv, Po, Sk, Sp, Su, Te, Vl, Vn.
- Plagiothecium pilíferum** (Sw.) Schimp. (*Plagiotheciella pilifera* (Sw.) Fleisch.) – [CAM], Sk.
- Plagiothecium platyphýllum** Mönk. (*Plagiothecium ruthei* var. *rupicola* Limpr.) – [CAM, DF, FSZ, CRM], Ch, Cv, If, Ka, Kr, Lv, Po, Sk, Su.
- Plagiothecium succuléntum** (Wils.) Lindb. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ki, Km, Ky, Lv, My, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Plagiothecium undulátum** (Hedw.) Schimp. – [CAM, DF], Cv, If, Lv, Sk.
- Plasteurhýnchium meridionále** (Schimp.) Fleisch. (*Eurhynchium meridionale* (Schimp.) De Not., *E. striatulum* var. *meridionale* Schimp.) – [CAM, CRM], Cv, Kr.
- Plasteurhynchium striátulum** (Spruce) Fleisch. (*Eurhynchium striatulum* (Spruce) Schimp.) – [CAM, SZ, CRM], – Cv, If, Kr.
- Platydictya jungermannioides** (Brid.) Crum (*Amblystegium jungermannioides* (Brid.) A.J.E.Sm., *Amblystegiella sprucei* (Brid.) Loeske) – [CAM, DF], Cv, If, Lv, Sk.
- Platygyrium répens** (Brid.) Schimp. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, If, Ka, Ki, Km, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Pleuridium acuminátum** Lindb. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Do, If, Kr, Ky, Lu, Lv, Ri, Sk, Su, Vn, Vl.
- Pleuridium subulátum** (Hedw.) Rabenh.– [CAM, MF, DF, FSZ, SZ], Cv, Dn, If, Lu, Lv, Ri, Sk, Su, Te, Vl, Vn.
- Pleurózium schréberi** (Willd. ex Brid.) Mitt. – [CAM, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Pogonátum aloídes** (Hedw.) P. Beauv. – [CAM, MF, DF, FSZ, CRM], Ch, Cv, If, Kr, Lv, Sk, Vn, Zh.
- Pogonatum nánum** (Hedw.) P. Beauv. – [CAM, MF, CRM], If, Km, Kr, Sk,
- Pogonatum urnígerum** (Hedw.) P. Beauv. – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Kr, Ky, Lu, Lv, Po, Sk, Su, Te, Ka, Vn, Zh.
- Póhlia andalúsica** (Höhn.) Broth. – [MF, FSZ], Ch, Ck, Ky, Ri, Zh.
- Pohlia annótina** (Hedw.) Lindb. – [MF, FSZ, SZ], Ch, Ck, Ky, Mk, Ri, Su, Vn, Zh.
- Pohlia bulbífera** (Warnst.) Warnst. – [MF, FSZ], Ch, Ka, Ky, Ri, Su, Vl, Zh.
- Pohlia camptotrachéla** (Ren. & Cardot) Broth. [CAM, MF], If, Ri.
- Pohlia crúda** (Hedw.) Lindb. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ki, Kr, Ky, Lv, My, Po, Ri, Sk, Sp, Su, Te, Vn, Zh.
- Pohlia drúmmondii** (H. Müll.) A.L.Andrews – [CAM], If.
- Pohlia elongáta** Hedw. (*P. ambigua* (Limpr.) Broth., *P. acuminata* Hornsch.) – [CAM, MF, DF], Cv, Sk, If, Lv, Zh.
- Pohlia elongáta** var. **gréenii** (Brid.) Shaw (*Pohlia elongata* var. *minor* Hartm., *Pohlia minor* Schleich ex Schwaegr.) – [CAM], If, Sk.
- Pohlia filum** (Schimp.) Martensson (*P. schleicheri* H.A.Crum, *P. gracilis* (Schleich.) Lindb., *P. rothii* (Correns) Broth.) – [CAM], If.
- Pohlia lescuriána** (Sull.) Ochi (*Mniobryum pulchellum* (Hedw.) Loeske) – [CAM, FSZ], Sk, Te.
- Pohlia longicólla** (Hedw.) Lindb. (*P. longicollis* (Hedw.) Lindb.) – [CAM], Cv, If, Sk.

- Pohlia lúdwigii** (Spreng. ex Schwaegr.) Broth. (*Mniobryum ludwigii* (Schwaegr.) Loeske). – [CAM], If.
- Pohlia melanódon** (Brid.) J. Shaw (*P. delicatula* (Hedw.) Grout, *Mniobryum carneum* (Schimp.) Limpr.) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ka, Ke, Km, Kr, Ky, Lv, Sk, Su, Te.
- Pohlia nútans** (Hedw.) Lindb. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Pohlia obtusifólia** (Vill. ex Brid.) L. Koch [CAM], If, Sk.
- Pohlia prolígera** (Kindb.) Lindb. – [MF], Ch.
- Pohlia wahlenbérghii** (F. Weber & Mohr) A.L. Andr. (*Mniobryum wahlenbergii* (F. Weber & D. Mohr) Jenn., *M. albicans* Limpr.) – [CAM, DF, FSZ, SZ, CRM], Ch, Ck, Cv, If, Ka, Ki, Km, Kr, Ky, Lv, My, Po, Sk, Te, Vn.
- Polytrichástrum alpínium** (Hedw.) G. Sm. (*Pogonatum alpinum* (Hedw.) Rohl.) – [CAM], Cv, If, Sk.
- Polytrichastrum sexanguláre** (Brid.) G. Sm. (*Polytrichum sexangulare* Hedw.) – [CAM], If, Sk.
- Polýtrichum commúne** Hedw. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ke, Km, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Polytrichum formósum** Hedw. (*Polytrichastrum formosum* Hedw. G. Sm.) – [CAM, MF, DF, FSZ, SZ, CRM], Cv, Ch, Ck, Dn, If, Ka, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Polytrichum juniperínium** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Polytrichum longisérum** Sw. ex Brid. (*Polytrichastrum longisetum* (Sw. ex Brid.) G. Sm., *Polytrichum gracile* Menz), – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ki, Km, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Polytrichum pallidisérum** Funck (*Polytrichastrum pallidisetum* (Funck) G. Sm., *Polytrichum decipiens* Limpr.) – [CAM, MF], Cv, If, Ri, Sk.
- Polytrichum perigoniále** Michx. (*Polytrichum commune* var. *perigoniale* (Michx.) Bruch & Schimp.) – [CAM, MF, FSZ, SZ], Cv, If, Lv, My, Po, Ri, Sk, Su, Te, Vl.
- Polytrichum pilíferum** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Polytrichum stríctum** Menz. ex Brid. (*P. alpestre* Hoppe) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ky, Lu, Lv, Po, Ri, Sk, Su, Vn, Vl, Zh.
- Polytrichum swártzii** Hartm (*P. uliginosum* (Wallr.) Schriebl, *P. commune* var. *swartzii* (Hartm.) Nyholm) – [CAM], Cv, Sk.
- Pseudephémérum nítidum** (Hedw.) Loeske (*Pleuridium nitidum* (Hedw.) Rabenh.) – [CAM, SZ], Sk, Sp.
- Pseudoamblystégium súbtile** (Hedw.) Vanderp. & Hedenäs (*Amblystegium subtile* (Hedw.) Schimp., *Platydictya subtilis* (Hedw.) H.A. Crum, *Amblystegiella subtilis* (Hedw.) Loeske) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Pseudóbryum cinclidióides** (Huebener) T. Kop. (*Mnium cinclidioides* (Blitt) Hüb.) – [CAM, MF], Cv, If, Sk, Zh.
- Pseudocampýlium radicále** (P. Beauv Vanderp. & Hedenäs. (*Amblystegium radicale* (P. Beauv.) Schimp., *A. saxatile* Schimp., *Campylium radicale* (P. Beauv.) Grout) – [CAM, MF, DF, FSZ, CRM], Ch, Cv, Dn, Ke, Kr, Ky, Lv, My, Po, Ri, Su, Vn, Zh.
- Pseudocrossídium hornsouchiánium** (Schultz) Zander (*Barbula hornsouchiana* Schultz) – [CAM, DF, FSZ, SZ, CRM], Cv, Ki, Kr, Lv, Te, Vn.
- Pseudocrossidium revolútum** (Brid.) Zander (*Barbula revoluta* Brid.) – [DF, FSZ, SZ, CRM], Kr, Lv, My, Od, Te, Vn.

- Pseudoleskeella catenulata** (Brid. ex Schrad.) Kindb. (*Pseudoleskea catenulata* (Brid. ex Schrad.) B.S.G.) – [CAM, DF, FSZ, SZ, CRM], Do, If, Km, Kr, Lv, Sk, Te.
- Pseudoleskeella nervosa** (Brid.) Nyh. (*Leskeella nervosa* (Brid.) Loeske) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Km, Ki, Kr, Ky, Lu, Lv, Od, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Pseudoleskeella rupéstris** (Berggr.) Hedenäs & L.Söderstr. (*P. nervosa* var. *rupéstris* (Berggr.) Nyholm) – [CAM], Cv.
- Pseudoleskeella tectórum** (Funck ex Brid.) Kindb. ex Broth. – [CAM, DF, CRM], Cv, Kr, Sk, Te.
- Pseudoscleropódium púrum** (Hedw.) Fleisch. (*Scleropodium purum* (Hedw.) Limpr.) – [CAM, MF, DF, FSZ, SZ, CRM], Vl, Vn, Sk, If, Kr, Lv, Po, Ri, Su, Ch, Cv.
- Pseudotaxiphýllum élegans** (Brid.) Iwats. (*Isopterygium elegans* (Brid.) Lindb.) – [CAM, DF, SZ], If, My, Sk, Te.
- Pterygonéurum crossidióides** W. Frey, Herrnst. & Kürschner (*P. cavifolium* var. *crossidioides* Sapeg.) – [SZ, CRM], Kr.
- Pterygoneurum lamellátum** (Lindb.) Jur. – [FSZ], Ck.
- Pterygoneurum ovátum** (Hedw.) Dix. (*P. pusillum* Broth.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Dn, Do, If, Ka, Ke, Ki, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Su, Te, Vn, Zh.
- Pterygoneurum subséssile** (Brid.) Jur. – [MF, DF, FSZ, SZ, CRM], Ch, Ck, Dn, Do, Ka, Ke, Ki, Kr, Ky, Lu, Lv, My, Od, Po, Sp, Su, Te, Vn.
- Pterigynándrum filifórme** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Ke, Kr, Lu, Lv, My, Od, Po, Sk, Su, Te, Vn, Zh.
- Ptilium crista-castrénsis** (Hedw.) De Not. – [CAM, MF, DF, FSZ, SZ], Ch, Cv, If, Ka, Km, Ky, Lv, Po, Sk, Su, Te, Vn, Vl, Zh.
- Ptychostómum archangélicum** Bruch & Schimp. J.R. Spence (*Bryum archangelicum* Bruch & Schimp., *B. pendulum* subsp. *archangelicum* (Bruch & Schimp.) Lindb.) – [CAM, MF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, Kr, Lv, Sk.
- Ptychostomum boreále** (F.Weber & D.Mohr) Ochyra & Bednarek-Ochyra (*Bryum pallescens* Schleich. ex Schwaegr., *B. cirratum* Hoppe & Horhsch.) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ka, Ki, Km, Kr, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vn.
- Ptychostomum capilláre** (Hedw.) Holyoak & N.Pedersen (*Bryum capillare* Hedw.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lv, My, Od, Po, Sk, Sp, Su, Te, Vl, Vn.
- Ptychostomum cérnuum** (Hedw.)Hornsch. (*Bryum uliginosum* (Brid.) Bruch & Schimp. *B. cernuum* (Hedw.) Bruch & Schimp.) – [CAM, MF, DF, FSZ], Cv, If, Lv, Sk, Su, Te.
- Ptychostomum compáctum** Hornsch (*Bryum algovicum* Sendt. ex H. Müll., *B. compactum* (Hornsch.) Kindb., *B. pendulum* (Hornsch.) Kind.), *B. angustirete* Kindb.) – [CAM, DF, FSZ, SZ, CRM], Ck, Cv, Do, Km, Kr, Lu, Lv, Sk, Te.
- Ptychostomum crebérrimum** (Taylor) J.R.Spence & H.P.Ramsay (*Bryum creberrimum* Taylor) – [CAM, MF, DF, FSZ, SZ, CRM], Cv, Do, If, Ka, Ke, Kr, Lv, My, Po, Ri, Su, Vn.
- Ptychostomum imbricátulum** (Müll.Hal.) Holyoak & N.Pedersen (*B. amblyodon* Müll. Hal., *Bryum imbricatum* (Schwaegr.) Bruch & Schimp.) – [CAM, MF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, Kr, Lv, Sk.
- Ptychostomum morávicum** (Podp.) Ros & Mazimpaka (*Bryum moravicum* Podp., *B. capillare* var. *flaccidum* Bruch & Schimp. [CAM, FSZ, SZ, CRM], Cv, Do, Ka, Ke, Kr, Ky, My, Sk.
- Ptychostomum pállens** (Sw.) J.R.Spence (*Bryum pallens* Sw., *B. subelegans* Kindb., *B. intermedium* var. *pallens* (Sw.) Hartm., *B. flaccidum* Brid.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, If, Ke, Km, Kr, Lv, My, Od, Sk, Sp, Su, Vl.



- Ptychostomum pseudotriquétrum** (Hedw.) J.R.Spence & H.P.Ramsay (*Bryum pseudotriquetrum* (Hedw.) P. Gaertn. et al.) – Ch, Cv, Do, If, Ka, Km, Kr, Lv, Sk, Su, Te, Vl, Zh.
- Ptychostomum pseudotriquétrum** (Hedw.) J.R.Spence & H.P.Ramsay var. **bimum** (Schreb.) Holyoak & N.Pedersen (*Bryum bimum* (Brid.) Turn. – [CAM, MF, DF, FSZ, SZ, CRM] – Cv, Do, If, Ka, Kr, Ky, Lu, Lv, Ri, Sk, Vn.
- Ptychostomum rúbens** (Mitt.) Holyoak & N.Pedersen (*Bryum rubens* Mitt.) – [CAM, MF, DF, FSZ, SZ], Ch, Cv, Do, Ke, Kr, Ky, Lv, My, Po, Sk, Su, Vl, Vn.
- Ptychostomum torquéscens** (Bruch & Schimp.) Ros & Mazimpaka (*Bryum torquescens* Bruch & Schimp., *B. capillare* var. *torquescens* (Bruch & Schimp.) Husn.) – [SZ, CRM], Do, Kr.
- Ptychostomum zieri** (Hedw.) Holyoak & N.Pedersen (*Plagiobryum zieri* (Hedw.) Lindb.) – [CAM], If, Sk.
- Pyláisia polyántha** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Pyramídula tetragóna** (Brid.) Brid. – [FSZ], Vn.
- Racomitrium aciculáre** (Hedw.) Brid. (*Grimmia acicularis* C.Muel.) – [CAM, MF], If, Sk, Zh.
- Racomitrium affíne** (F.Weber & Mohr) Lindb. (*R. heterostichum* var. *affine* (F. Weber & D. Mohr) Lesq.) – [CAM], If, Sk.
- Racomitrium aquáticum** (Brid. ex Schrad.) Brid. (*R. protensum* A.Braun) – [CAM], If, Sk.
- Racomitrium canéscens** (Hedw.) Brid. – [CAM, MF, DF, FSZ, CRM], Ch, Cv, If, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Racomitrium elongátum** Ehrh. ex Frisvoll (*R. canescens* var. *intermedium* Venturi & Bott.) – [CAM, CRM], Kr, Sk.
- Racomitrium ericóides** (Brid.) Brid. (*R. canescens* var. *ericoides* (Brid.) Hampe) – [CAM], If, Sk.
- Racomitrium heteróstichum** (Hedw.) Brid. – [CAM, MF, DF, CRM], If, Kr, Lv, Sk, Zh.
- Racomitrium lanuginósum** (Hedw.) Brid. (*R. hypnoides* Lindb., *Trichostomum lanuginosum* Hedw.) – [CAM], If, Sk.
- Racomitrium macóunii** Kindb. – [CAM], If.
- Racomitrium microcárpon** (Hedw.) Brid. – [CAM], If, Lv, Sk.
- Racomitrium sudéticum** (Funck) Bruch & Schimp. (*R. heterostichum* var. *sudeticum* (Funck) E.Bauer) – [CAM, CRM], If, Lv, Sk.
- Rhadowéisia crispáta** (Dicks.) Lindb. (*R. denticulata* (Brid.) Bruch & Schimp.) – [CAM], Cv, If, Lv, Sk.
- Rhadoweisia fúgax** (Hedw.) Bruch & Schimp. (*R. striata* (Schrad.) Lindb.) – [CAM, MF, CRM], If, Kr, Sk, Zh.
- Rhizómniium magnifólium** (Horik.) T. Kop. (*Mnium punctatum* var. *elatum* Schimp.) – [CAM, DF], Cv, If, Lv, Sk,
- Rhizomniium pseudopunctátum** (Bruch & Schimp.) T. Kop. – [CAM, DF], Cv, If, Lv, Sk.
- Rhizomniium punctátum** (Hedw.) T. Kop. (*Mnium punctatum* Hedw.) – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Ki, Km, Kr, Ky, Lv, Po, Sk, Sp, Su, Te, Vl, Vn, Zh.
- Rhodóbryum ontariéense** (Kindb.) Kindb. – [CAM, DF, FSZ, CRM], If, Kr, Sk, Te, Vn.
- Rhodobryum róseum** (Hedw.) Limpr. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Dn, If, Ka, Ki, Km, Ky, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Rhynchostegiélla tenélla** (Dicks.) Limpr. – [DF, SZ, CRM], Do, Kr, Lv, Sp.
- Rhynchostegiella teneríffae** (Mont.) Dirkse & Bouman – [CRM], Kr.
- Rhynchostegium confértum** (Dicks.) Schimp. – [DF], Lv.

- Rhynchostegium megapolitánium** (Blandow ex F. Weber & Mohr) Schimp. – [CAM, SZ, CRM], Kr, Lv, Sk.
- Rhynchostegium murále** (Hedw.) Schimp. – [CAM, MF, DF, SZ, CRM], Cv, If, Ke, Km, Kr, Ky, Lv, Od, Sk, Te, Vn.
- Rhynchostegium riparióides** (Hedw.) Cardot (*Platyhypnidium riparioides* (Hedw.) Dix.) – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Cv, If, Ki, Km, Kr, Ky, Lu, Lv, My, Ri, Sk, Su, Vn, Zh.
- Rhynchostegium rotundifólium** (Scop. ex Brid.) Schimp. – [CAM], Sk.
- Rhytidiadelphus lóreus** (Hedw.) Warnst. – [CAM], If, Sk.
- Rhytidiadelphus squarrósus** (Hedw.) Warnst. – [CAM, MF, DF, FSZ], Ch, Cv, If, Km, Ky, Lv, Ri, Sk, Su, Vl, Vn, Zh.
- Rhytidiadelphus subpinnátus** (Lindb.) T. Kop. (*R. calvescens* (Wils.) Broth.) – [CAM], Cv, If, Sk.
- Rhytidiadelphus triquétrus** (Hedw.) Warnst. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ki, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Rhytidium rugósum** (Hedw.) Kindb. – [CAM, DF, CRM], Cv, If, Kr, Sk, Te.
- Saelánia glaucéscens** (Hedw.) Broth. – [CAM, CRM], If, Kr, Sk.
- Saniónia uncináta** (Hedw.) Loeske (*Drepanocladus uncinatus* (Hedw.) Warnst.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Cv, If, Ka, Ke, Kr, Lv, Po, Ri, Sk, Su, Te, Vl, Vn.
- Sarmentýpnum exannulátum** (Schimp.) Hedenäs (*Warnstorfia exannulata* (Schimp.) Loeske, *Drepanocladus exannulatus* (Schimp.) Warnst.) – [CAM, MF, DF], Ch, Cv, If, Lv, Sk, Vl, Zt.
- Sarmentýpnum sarmentósum** (Wahlenb.) Tuom. & T.J. Kop. (*Warnstorfia sarmentosa* (Wahlenb.) Hedenäs, *Calliergon sarmentosum* (Wahlenb.) Kindb.) – [CAM, DF], Cv, Lv.
- Schistídium agássizii** Sull. & Lesq. (*Grimmia agassizii* (Sull. Lesq.) A. Jaeger) – [CAM, CRM], Sk.
- Schistídium apocárpum** (Hedw.) Bruch & Schimp. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Schistídium brunnéscens** Limpr. – [DF, SZ], Cv, Do, Km, Lv, My.
- Schistídium crassípilum** Blom – [CAM, CRM], Kr, Lv.
- Schistídium duprétii** (Thér.) W.A. Weber (*S. apocarpum* var. *dupretii* (Thér.) Wijk & Margad.) – [CAM], If, Lv.
- Schistídium elengátulum** Blom – [CRM], Kr.
- Schistídium fláccidum** (De Not.) Ochyra (*Grimmia flaccida* (De Not.) Lindb.) – [DF, CRM], Kr, Te.
- Schistídium lancifólium** (Kindb.) H.H. Blom [CAM, DF], Km, Lv.
- Schistídium papillósum** Culm. (*S. apocarpum* subsp. *papillosum* (Culm.) Poelt) – [CAM, DF], Cv, If, Lv, Sk.
- Schistídium púlchrum** Blom – [CAM], If.
- Schistídium rivuláre** (Brid.) Podp. (*S. apocarpum* var. *rivulare* Bruch & Schimp.) – [CAM, MF, DF, CRM], If, Kr, Lv, Ri, Sk.
- Schistídium robústum** (Nees & Hornsch.) Blom – [CAM], If.
- Schistídium submúticum** (Zickendr.) Blom – [MF, FSZ,], Vn, Zh.
- Schistídium trichódon** (Brid.) Poelt var. **nútans** Blom – [CAM], If.
- Schistostéga pennáta** (Hedw.) F. Weber & Mohr – [CAM, MF, SZ], Cv, Dn, If, Sk, Zt.
- Sciuro-hýpnum cúrtum** (Lindb.) Ignatov (*Brachythecium curtum* (Lindb.) Limpr.) – [MF, DF], If, Ky, Lv, Ri, Te, Vn, Zh.
- Sciuro-hypnum flotowiánium** (Sendt.) Ignatov & Huttunen (*Cirriphyllum reichenbachianum* (Huebener) Wijk & Margad., *Eurhynchium flotowianum* (Sendtn.) Kartt.) – [CAM, CRM], If, Kr, Lv, Sk.

- Sciuro-hypnum plumósum** (Hedw.) Ignatov & Huttunen (*Brachythecium plumosum* (Hedw.) Schimp.) – [CAM, MF, DF], Cv, If, Ka, Lv, Sk, Te, Zh.
- Sciuro-hypnum popúleum** (Hedw.) Ignatov & Huttunen (*Brachythecium populeum* (Hedw.) Schimp.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, If, Ka, Km, Kr, Ky, Lu, Lv, Od, Po, Ri, Sk, Te, Vn, Zh.
- Sciuro-hypnum refléxum** (Starke) Ignatov & Huttunen (*Brachythecium reflexum* (Starke) Schimp.) – [CAM, MF, DF, FSZ], If, Km, Lv, Od, Po, Sk, Su, Te, Zh.
- Sciuro-hypnum stárkei** (Brid.) Ignatov & Huttunen (*Brachythecium starkei* (Brid.) Schimp.) – [CAM], If, Ke, Kr, Lv.
- Scorpidium cossónii** (Schimp.) Hedenäs (*Drepanocladus intermedius* (Lindb.) Warnst., *D. cossonii* (Schimp.) Loeske) – [MF], Ri, Vl.
- Scorpidium revólvens** (Sw.) Rubers (*Drepanocladus revolvens* (Sw.) Warnst.) – [CAM, MF, DF, FSZ], If, Km, Lv, Ri, Sk, Vl.
- Scorpidium scorpióides** (Hedw.) Limpr. – [MF, DF], Lv, Ri, Vl.
- Scorpiúrium circinátum** (Bruch) Fleisch. & Loeske (*Eurhynchium circinatum* (Brid.) Bruch & Schimp.) – [SZ, CRM], Kr.
- Seligéria brevifólia** (Lindb.) Lindb. (*S. pusilla* var. *brevifolia* Lindb.) – [CAM], If, Sk.
- Seligeria calcárea** (Hedw.) Bruch & Schimp. – [CAM, MF, DF, FSZ, SZ], Ch, Do, If, Ka, Lu, Lv, Sk.
- Seligeria campylopóda** Kindb. – [CAM, DF], If, Lv, Sk.
- Seligeria donniána** (Sm.) H. Müll. – [CAM, DF], If, Lv, Km, Te, Sk.
- Seligeria pusilla** (Hedw.) Bruch & Schimp. – [CAM, DF, CRM], Cv, If, Kr, Lv, Sk, Te.
- Seligeria recurváta** (Hedw.) Bruch & Schimp. – [CAM, DF, CRM], Cv, If, Km, Kr, Lv, Sk, Te.
- Serpoléskea confervóides** (Brid.) Loeske (*Amblystegium confervóides* (Brid.) Schimp., *Platydictya confervoides* (Brid.) H.A.Crum, *Amblystegiella confervoides* (Brid.) Loeske) – [CAM, DF, FSZ, SZ], Cv, If, Ki, Km, Lv, Po, Ri, Sk, Te.
- Sphágnum angustifólium** (C. Jensen ex Russow) C. Jensen – [CAM, MF], Ch, If, Ka, Ky, Ri, Sk, Vl, Zh.
- Sphágnum auriculátum** Schimp. (*S. denticulatum* Brid.) – [CAM, MF], Ch, Ka, Ri, Vl, Zh.
- Sphágnum bálticum** (Russow) C. Jensen (*S. recurvum* subsp. *balticum* Russ.) – [CAM], Sk.
- Sphágnum capillifólium** (Ehrh.) Hedw. (*S. nemoreum* Scop., *S. acutifolium* Ehrh.) – [CAM, MF, DF, FSZ, SZ], Ch, Cv, Dn, Do, If, Ka, Km, Ky, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Sphágnum centrále** C. Jensen – [CAM, MF, DF, FSZ, SZ], Ch, Cv, Dn, If, Ka, Km, Ky, Lu, Lv, Sk, Su, Po, Ri, Vl, Vn.
- Sphágnum compáctum** Lam. & DC. – [CAM, MF, FSZ], Ch, Ck, Ka, Ky, Lu, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Sphágnum contórtum** Schultz – [CAM, MF, DF, FSZ, SZ], Ch, Sk, If, Ka, Km, Ky, Po, Vl, Zh.
- Sphágnum cuspidátum** Ehrh. ex Hoffm. – [CAM, MF, DF, FSZ, SZ], Ch, If, Ka, Ky, Lv, Ri, Sk, Su, Vl, Zh.
- Sphágnum fállax** (Klinggr.) Klinggr. (*S. recurvum* var. *recurvum* P. Beauv., *S. recurvum* var. *mucronatum* (Russ.) Warnst.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, Do, If, Ka, Ke, Km, Ky, Lu, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Sphágnum fimbriátum** Wils. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, Do, Ka, Ke, Ky, Lu, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Sphágnum flexuósum** Dozy & Molk. (*S. recurvum* var. *amblyphyllum* (Russ.) Warnst.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, Do, Sk, Ka, Km, Ki, Ky, Lu, Lv, Po, Ri, Su, Vl, Vn, Zh.

- Sphagnum fúscum** (Schimp.) Klinggr. – [CAM, MF, DF, SZ], Ch, Do, If, Ky, Lv, Ri, Sk, Vl, Zh.
- Sphagnum girgensóhnii** Russow (*S. fimbriatum* var. *strictum* Lindb.) – [CAM, MF, FSZ], Ch, If, Ka, Ky, Lv, Ri, Sk, Su, Vl, Zh.
- Sphagnum inundátum** Russow (*S. subsecundum* var. *inundatum* (Russow) C. Jensen) – [CAM, MF], Ka, Ri, Sk.
- Sphagnum magellánicum** Brid. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, If, Ka, Km, Ky, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Sphagnum május** (Russow) C. Jensen (*S. dusenii* C.Jens.) – [CAM, MF, DF, FSZ], Ch, Ck, If, Ka, Ky, Ri, Sk, Vl, Zh.
- Sphagnum mólle** Sull. (*S. tabulare* Sull.) – [MF, DF], Lv, Zh.
- Sphagnum obtúsum** Warnst. (*S. recurvum* var. *obtusum* Warnst.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Dn, Do, If, Ka, Ky, Lv, Po, Ri, Sk, Vl, Vn, Zh.
- Sphagnum palústre** L. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, Do, If, Ka, Km, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Sphagnum papillósum** Lindb. – [CAM, MF, DF, FSZ, SZ], Ch, Do, Ka, Ky, Ri, Sk, Vl, Zh.
- Sphagnum platyphýllum** (Lindb. ex Brait.hw.) Warnst – [CAM, MF, DF, FSZ], Ch, Cv, If, Km, Ky, Ri, Sk, Su, Vl, Vn, Zh.
- Sphagnum quinquefárium** (Braithw.) Warnst. – [CAM, MF, DF], Cv, If, Lv, Sk.
- Sphagnum ripárium** Ångstr. – [CAM, DF], If, Ri, Sk, Vl.
- Sphagnum rubéllum** Wils. – [FZ], If, Ri, Sk, Vl, Zh.
- Sphagnum rússowii** Warnst. (*S. robustum* (Russ.) Röl.) – [CAM, MF, DF], Ch, If, Ky, Lv, Sk, Su, Vl, Zh.
- Sphagnum squarrósum** Crome – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ke, Ki, Ky, Lu, Lv, Po, Ri, Sk, Sp, Su, Vl, Vn, Zh.
- Sphagnum subnítens** Russow & Warnst. (*S. plumulosum* Röll) – [CAM, DF], Cv, Sk, Zh.
- Sphagnum subsecúndum** Nees – [CAM, MF, DF, FSZ, SZ], Ch, Ck, Cv, Dn, If, Ka, Ky, Lv, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Sphagnum tenéllum** (Brid.) Pers. ex Brid. – [CAM, DF], Sk, Zh.
- Sphagnum téres** (Schimp.) Ångstr. – [CAM, MF, DF, FSZ, SZ], Ch, Ck, If, Ka, Ki, Ky, Lv, Po, Ri, Sk, Su, Vl, Zh.
- Sphagnum warnstórfii** Russow – [CAM, MF, DF, SZ], Ch, Dn, If, Ky, Lv, Ri, Sk, Su, Vl, Zh.
- Sphagnum wulfíánum** Girg. – [DF], Ri, Zh.
- Spláchnum ampulláceum** Hedw. – [CAM, MF, DF], Ch, If, Ky, Lv, Sk, Vl, Zh.
- Splachnum sphaéricum** Hedw. – [CAM, MF], If, Sk, Vl.
- Straminérgon stramíneum** (Dicks. ex Brid.) Hedenäs (*Callierguson stramineum* (Dicks. ex Brid.) Kindb.) – [CAM, MF, DF, FSZ], Ch, If, Ky, Lv, Po, Ri, Sk, Su, Vl, Zh.
- Syntríchia calcícola** J.J. Amann (*Syntrichia ruralis* var. *calcicola* Malta, *Tortula calcicolens* W.A.Kramer) – [CAM, DF, FSZ, SZ, CRM], Ck, Cv, Do, If, Ki, Kr, Lu, Ri, Sk, Te, Vn.
- Syntrichia caninérvís** Mitt. (*S. desertorum* Broth., *Tortula caninervis* (Mitt.) Broth.) – [SZ, CRM], Dn, Do, Ke, Kr, Lu, Od.
- Syntrichia hándelii** (Schiffn.) S. Agnew & Vondr. (*Tortula handelii* Schiffn.) – [SZ], Do, Lu.
- Syntrichia laevipíla** Brid. – [CRM], Kr.
- Syntrichia latifólia** (Bruch ex Hartm.) Huebener (*Tortula latifolia* Bruch ex Hartm.) – [CAM, FSZ], Ka, Sk.
- Syntrichia montána** Nees (*Tortula montana* Lindb.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ke, Km, Kr, Lv, My, Ri, Sk, Su, Vn.

- Syntrichia norvégica** F. Weber (*Tortula norvegica* (F. Weber) Lindb.) – [CAM, FSZ, CRM], Kr, Sk, Vn.
- Syntrichia papillósa** (Wils.) Jur. (*Tortula papillosa* Wilson) – [CAM, MF, DF, FSZ, SZ], Ck, Cv If, Ke, Lv, Sk, Vl, Vn.
- Syntrichia ruralifórmis** (Besch.) Cardot (*S. ruralis* var. *arenicola* J.J. Amann, *Tortula ruralis* var. *ruraliformis* (Besch.) Delogne, *Tortula ruraliformis* (Besch.) Cardot) – [CAM, MF, DF, FSZ, SZ, CRM], Vl, Dn, Do, Sk, Sp, Ky, Kr, Lu, My, Od, Po, Ri, Su, Te, Ke, Km, Ch, Cv.
- Syntrichia rurális** (Hedw.) F. Weber & Mohr (*Tortula ruralis* (Hedw.) P. Gaertn., B. Mey. & Scherb.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Syntrichia rurális** (Hedw.) F. Weber & Mohr var. **polysporogónica** Boiko [SZ], Ke, My.
- Syntrichia sinénsis** (H. Müll.) Ochyra (*Tortula sinensis* (Müll. Hal.) Broth.) – [CAM, CRM], Kr, Sp.
- Syntrichia vírészens** (De Not.) Ochyra (*S. pulvinata* (Jur.) Jur, *Tortula virescens* (De Not.) De Not.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Do, If, Ke, Ki, Km, Kr, Lu, Lv, Od, Po, Ri, Sk, Vl, Vn, Zh.
- Taxiphýllum wissgrillii** (Garov.) Wijk & Marg. (*T. depressum* (Bruch) Reim) – [CAM, MF, DF, FSZ, SZ, CRM], Ck, Cv, Dn, If, Kr, Ri, Sk, Te, Vn, Zh.
- Taylória linguláta** (Dicks.) Lindb. – [CAM], If.
- Tayloria serráta** (Hedw.) Bruch & Schimp. – [CAM], If, Sk.
- Tayloria ténuis** (Dicks.) Schimp. (*T. serrata* var. *tenuis* (Dicks.) Bruch & Schimp.) – [CAM], If, Sk.
- Tetráphis pellúcida** Hedw. – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Ka, Km, Ky, Lv, Ri, Sk, Su, Te, Vn, Vl, Zh.
- Tetráplodon angustátus** (Hedw.) Bruch & Schimp. – [CAM], If, Sk.
- Tetráplodon mnióides** (Hedw.) Bruch & Schimp. – [CAM], If.
- Tetrodóntium browniánium** (Dicks.) Schwaegr. – [CAM], Cv, If, Sk.
- Tetrodontium ovátum** (Funck) Schwaegr. – [CAM], If.
- Thamnóbryum alopécurum** (Hedw.) Gangulee (*Thamnium alopecurum* (Hedw.) Bruch & Schimp.) – [CAM, MF, DF, FSZ, CRM], Cv, If, Kr, Lv, Sk, Vn.
- Thuídium assímile** (Mitt.) Jaeg. (*T. philibertii* Limpr.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Km, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Thuidium delicátulum** (Hedw.) Schimp. – [CAM, MF, DF, FSZ], Ch, Ck, Cv, If, Ka, Km, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn, Zh.
- Thuidium recógnitum** (Hedw.) Lindb. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Cv, Do, If, Ka, Km, Kr, Ky, Lv, Po, Ri, Sk, Te, Vl, Vn, Zh.
- Thuidium tamariscínium** (Hedw.) Schimp. – [CAM, MF, DF, FSZ, CRM], Ch, Cv, If, Km, Kr, Lv, Sk, Su, Vl, Zh.
- Tímmia austríaca** Hedw. – [CAM, FSZ], Sk, Te.
- Tímmia bavárica** Hessel. – [CAM, DF, FSZ, CRM], If, Kr, Lv, Sk, Te.
- Tímmia megapolitána** Hedw. – [CAM, MF, DF, FSZ], Ch, If, Lv, Vn.
- Tomenthýpnum nítens** (Hedw.) Loeske (*Camptothecium nitens* Schimp.) – [CAM, MF, DF, FSZ], Ch, Cv, If, Ky, Lv, Ri, Sk, Te, Vl, Vn, Zh.
- Tortélla frágilis** (Hook. & Wils.) Limpr. – [CRM], Kr.
- Tortella húmilis** (Hedw.) Jenn. (*T. caespitosa* Limpr.) – [CAM, SZ, CRM], Cv, Do, If, Kr, Sk.
- Tortella inclináta** (R. Hedw.) Limpr. – [CAM, DF, SZ, CRM], Cv, If, Ka, Ke, Kr, Lv, Sk.
- Tortella squarrósa** (Brid.) Limpr. (*Pleurochaete squarrosa* (Brid.) Lindb.) – [CRM], Kr.

- Tortella tortuósa** (Hedw.) Limpr. – [CAM, DF, FSZ, SZ, CRM], Ck, Cv, Dn, If, Ki, Kr, Lu, My, Ri, Sk, Te, Vn.
- Tórtula acáulon** With. R.H.Zander (*Phascum cuspidatum* Hedw., *Phascum acaulon* Lindb.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Te, Vn.
- Tortula aestíva** (Schultz) P. Beauv. (*T. muralis* var. *aestiva* Hedw.) – [CAM, MF, DF, FSZ, SZ], Ch, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Ky, Lu, Lv, My, Od, Sk, Te, Vn.
- Tortula canéscens** Mont. – [CAM, DF, SZ, CRM], Kr, Sk, Te.
- Tortula caucásica** Lindb. ex Broth. (*Tortula modica* Zander, *Pottia intermedia* (Turner) Fűrnr.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Kr, Ky, Lu, Lv, Po, Ri, Sk, Su, Te, Vn, Zh.
- Tortula cérnua** (Huebener) Lindb. (*Desmatodon cernuus* (Huebener) Bruch & Schimp.) – [FSZ], Ch, Ck, Ky.
- Tortula cuneifólia** (Dicks.) Turn. – [FSZ], Su.
- Tortula hoppeána** (Schultz) Ochyra (*Desmatodon latifolius* (Hedw.) Brid.) – [CAM, DF, SZ], Do, If, Lv, Sk, Te.
- Tortula inérmis** (Brid.) Mont. (*Syntrichia inermis* (Brid.) Bruch) – [CRM], Kr.
- Tortula leucostóma** (R.Br.) Hook. & Grev. (*Desmatodon leucostomus* (R. Br.) Berggr.) – [DF], Te.
- Tortula lindbérgii** Kindb. ex Broth. (*Pottia lanceolata* (Hedw.) Müll. Hal., *Tortula lanceola* R. H. Zander.) – [CAM, DF, FSZ, SZ, CRM], Cv, Dn, Do, If, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Sk, Sp, Te, Vn.
- Tortula linguláta** Lindb. – [DF], Lv.
- Tortula mucronifólia** Schwaegr. (*Syntrichia mucronifolia* (Schwägr.) Brid.) – [MF, FSZ, SZ, CRM], Do, Ka, Ki, Kr, Lv, Ri, Su, Te, Vn.
- Tortula murális** Hedw. – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn, Vl, Zh.
- Tortula protobryóides** R.H. Zander (*Protobryum bryoides* (Dicks.) J.Guerra & M.J.Cano, *Pottia bryoides* (Dicks.) Mitt., *Mildeella bryoides* Limpr.) – [CAM, DF, FSZ, SZ, CRM], Ck, Cv, Dn, Do, If, Ka, Ke, Ki, Kr, Ky, Lu, Lv, My, Od, Po, Sp, Su, Te, Vn.
- Tortula rándii** (Kenn.) Zander (*Desmatodon randii* (Kenn.) Laz., *Pottia randii* Kenn.) – [FSZ], Ch, Ck, Po.
- Tortula schímperi** M.J.Cano, O.Werner & J.Guerra (*T. subulata* var. *angustata* (Schimp.) Limpr.) – [CAM, CRM], Cv, If, Kr, Sk.
- Tortula subuláta** Hedw. (*Syntrichia subulata* (Hedw.) Web. & Mohr) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Dn, Do, If, Ka, Ke, Ki, Km, Kr, Ky, Lv, My, Po, Ri, Sk, Su, Te, Vn, Zh.
- Tortula truncáta** (Hedw.) Mitt. (*Pottia truncata* (Hedw.) Bruch & Schimp., *P. truncatula* Warnst.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Dn, If, Ka, Ke, Ki, Km, Kr, Ky, Lu, Lv, My, Po, Ri, Sk, Su, Te, Vn, Zh.
- Tortula ucraínica** (Lazar.) Zander (*Desmatodon ucraïnicus* Laz.) – [FSZ], Ck.
- Tremátodon ambíguus** (Hedw.) Hornsch. – [MF], Ky, Ri.
- Tríchodon cylíndricus** (Hedw.) Schimp. (*Ditrichum cylindricum* (Hedw.) Grout) – [CAM, MF, DF, FSZ, SZ], Ck, Dn, If, Ka, Ki, Ky, Lv, Sk, Su, Vn.
- Trichostómum brachydóntium** Bruch (*T. mutabile* Bruch) – [CAM, CRM], If, Kr, Sk.
- Trichostomum críspulum** Bruch (*Trichostomum brevifolium* Sendt., *Trichostomum viridulum* Bruch) – [CAM, DF, CRM], Cv, If, Ka, Kr, Lv, Sk, Te.
- Ulóta brúchii** Hornsch. ex Brid. (*U. crispa* var. *norvegica* (Gronvall) A.J.E.Sm. & M.O.Hill) – [CAM], Cv, If, Lv, Sk.
- Uloa coarctáta** (P. Beauv.) Hammar (*U. ludwigii* Brid.) – [CAM, MF], Cv, If, Lv, Sk, Zh.

- Ulota crispa** (Hedw.) Brid. – [CAM, MF, DF, FSZ, CRM], Ch, Ck, Cv, If, Ka, Ke, Km, Kr, Ky, Lv, Ri, Sk, Te, Vl, Vn, Zh.
- Ulota drúmmondii** (Hook. & Grev.) Brid. – [CAM], If.
- Ulota hútbhinsiae** (Sm.) Hammar (*U. americana* (P. Beauv.) Limpr.) – [CAM], Cv, If, Sk.
- Ulota rehmánnii** Jur. – [CAM], If.
- Warnstórfia flúitans** (Hedw.) Loeske (*Drepanocladus fluitans* (Hedw.) Warnst.) – [CAM, MF, DF, FSZ, SZ], Ch, Ck, If, Ka, Ky, Lv, Od, Po, Ri, Sk, Su, Vl, Vn, Zh.
- Warnstorfia pseudostramínea** (Müll. Hal.) Tuom. & T.J. Kop. (*Drepanocladus fluitans* (Hedw.) Warnst. f. *pseudostraminea* (C. Müll.) Mönk.) [CAM, MF].
- Weíssia brachycárpa** (Nees & Hornsch.) Jur. (*W. microstoma* (Hedw.) C. Müll.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Do, If, Ka, Kr, Ky, Lv, Po, Ri, Sk, Su, Te, Vl, Vn.
- Weíssia condénsa** (Voit) Lindb. (*W. tortilis* (Schwagr.) C. Müll.) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Dn, Do, If, Ka, Ki, Km, Kr, Lu, Lv, My, Sk.
- Weíssia controversa** Hedw. (*W. fallax* Sehm., *W. viridula* Hedw.) – [CAM, DF, FSZ, CRM], Ck, Cv, If, Kr, Lv, Po, Sk, Su, Te, Vn.
- Weíssia controversa** var. **crispáta** Nees & Hornsch.) Nyholm (*Hymenostomum crispatum* Nees et Hornsch., *W. fallax* Sehm.) – [DF, CRM], Lv, Kr.
- Weíssia levíeri** (Limpr.) Kindb. (*Astomum crispum* var. *levieri* Mönk., *A. crispum* var. *phylibertii* (Husn.) Wijk & Marg.) – [SZ, CRM], Do, Ka, Ke, Kr, Lu.
- Weíssia longifólia** Mitt. (*Astomum crispum* (Hedw.) Hampe) – [CAM, MF, DF, FSZ, SZ, CRM], Ch, Ck, Cv, Dn, Do, If, Ka, Ke, Km, Ki, Kr, Ky, Lu, My, Od, Po, Ri, Sk, Sp, Su, Te, Vn.
- Weíssia rostelláta** (Brid.) Lindb. – [CAM], Sk.
- Weíssia rútilans** (Hedw.) Lindb. – [CAM, DF], Sk, Te.
- Zýgodon dentátus** (Limpr.) Kart. – [CAM], If.
- Zýgodon rupéstris** Schimp. ex Lorentz (*Z. viridissimus* var. *rupestris* C. Hartm.) – [CAM, CRM], Kr, Sk.
- Zýgodon viridíssimus** (Dicks.) Brid. – [CRM], Kr.

#### New to Ukrainian bryoflora and nomenclature changed taxa compared to The Checklist of bryophytes of Ukraine (2008)

During the last period The List of Bryophytes in Ukraine was replenished with a large number of species and varieties. It takes into account a number of taxa, which for various reasons were not included in Checklist of 2008 [BOIKO, 2008]. There have been significant changes in the nomenclature of bryophyte taxa while processing the results of the latest research. Species of several families that have been presented in the Checklist of bryophytes 2008, due to taxonomic changes are considered as of other genera. These types of families are *Pleurochaete*, *Platyhypnidium*, *Protobryum*, *Pseudocalliergon*, *Pseudoleskea*, *Pterogonium*, *Ptychodium*. Instead, the new Checklist compared to Checklist of 2008, new families have appeared. This is due to new discoveries, new descriptions and nomenclature changes besides some taxa of the Checklist of 2008 were as synonyms. From Marchantiophyta division – *Asterella*, *Clevea*, *Endogemma*, *Isopaches*, *Leiomylia*, *Liochlaena*, *Lophozia*, *Mesoptychia*, *Neoorthocaulis*, *Schistochilopsis*, *Schljacovianthus*, *Sphenolobus*, *Syzygiella*, *Trilophozia*, Bryophyta division – *Campylidium*, *Exsertotheca*, *Hymenoloma*, *Imbribryum*, *Lazarenkia*, *Myrinia*, *Nogopterium*, *Nyholmia*, *Pseudoamblystegium*, *Pseudocampyllum*, *Ptychostomum*, *Sarmentypnum*, *Serpoleskea*. These materials are taken from briologists' works [ZANDER, 1993; BLOM, 1996; WERNER et al., 2002, 2004, 2005, 2013; OCHYRA et al., 2003; GOFFINET et al., 2004; SZWEYKOWSKI et al., 2005; VIRCHENKO, 2005; GRUNDMANN et

al., 2006; HEDENAS, 2006; DANILKIV et al., 2007; HOLYOAK, PEDERSEN, 2007; IGNATOV, MILYUTINA, 2007; IGNATOVA, SEREGIN, 2007; WERNER et al., 2007; HEDENAS, ROSBORG 2008; ROS et al., 2008, 2013; BOIKO, 2009, 2010, 2011, 2012; VANDERPOORTEN, HEDENAS 2009; KONSTANTINOVA et al., 2009; KONSTANTINOVA, VILNET, 2009; BELL, HYVONEN, 2010; HOLYOAK, 2010; HUTTUNEN, IGNATOV, 2010; KOPONEN, ISOVIITA, 2010; LOBACHEV'S'KA, SOKHANCHAK, 2010; ROS, HERRNSTADT, 2010; SÖDERSTRÖM, DE ROO, HEDD., 2010; VIRCHENKO, PARTYKA, 2010; CROSBY, BUCK, 2011; OLSSON et al., 2011; RUBASINGHE et al., 2011 a, b; VILNET et al. 2011, 2012; ANDRJEEVA, 2012; BARSUKOV, VIRCHENKO, 2012; ELLIS et al., 2012; KUSJARIN, 2012; RAGULINA, ISIKOV, 2012; VIRCHENKO, 2012; VÁÑA et al., 2012, 2013 a, b; FELDBERG et al., 2013; BOROVICHEV, NYPORKO, 2014; CHECKLIST..., 2014; ČÍHAL, 2014; PLAŠEK et al., 2014 etc].

### Marchantiophyta

**Asterella lindenberghiana** (Corda ex Nees) Lindb. ex Arnell.

**Barbilophozia sudetica** (Nees ex Huebener) L. Soderstr., De Roo et Hedd. (*Lophozia sudetica* (Nees ex Huebener) Grolle, *L. alpestris* (Schleich.) Evans.).

**Clevea hyalina** (Sommerf.) Lindb. (*Athalamia hyalina* (Sommerf.) S. Hatt.).

**Clevea spathysii** (Lindenb.) K.Müll. (*Athalamia spathysii* (Lindenb.) S. Hatt.).

**Conocephalum salebrosum** Szweyk., Buczk. et Odrzyk.

**Mannia androgyna** (L.) A. Evans.

**Endogemma caespiticia** (Lindenb.) Konstant., A.Vilnet et A.V.Troitsky (*Solenostoma caespiticium* (Lindenb.) Steph., *Jungermannia caespiticia* Lindenb.).

**Isopàches bicrenatus** (Schmidel ex Hohhm.) H. Buch (*Lophozia bicrenata* (Schmid. ex Hoffm.) Dumort.).

**Leomylia anomala** (Hook.) J.J. Engel et Braggins (*Mylia anomala* (Hook.) Gray Gray).

**Liochlaena lanceolata** Nees (*Jungermannia leiántha* Grolle, *J. lanceolata* L., *Solenostoma lanceolata* Steph.).

**Liochlaena subulata** (A.Evans) Schljakov (*Jungermannia subulata* A. Evans).

**Lophozia excisa** (Dicks.) Konstant. et Vilnet (*Lophozia excisa* (Dicks.) Dumort.).

**Lophozia longidens** (Lindb.) Konstant. et Vilnet (*Lophozia longidens* (Lindb.) Macoun.).

**Mesoptychia badensis** (Gottsche ex Rabenhorst.) L. Soderstr. et Vana (*Lophozia badensis* (Gottsche) Schiffn., *Leiocolea badensis* (Gott.) Joerg.).

**Mesoptychia bantriensis** (Hook.) L. Soderstr. et Vana (*Lophozia bantriensis* (Hook.) Steph., *L. hornschuchiana* (Nees) Mac, *Leiocolea bantriensis* (Hook.) Joerg., *L. mulleri* (Nees) Joerg.).

**Mesoptychia collaris** (Nees.) L. Soderstr. et Vana (*Lophozia collaris* (Nees) Dumort., *Jungermannia collaris* Nees).

**Mesoptychia heterocolpos** (Thed. ex C. Hartm.) L. Soderstr. (*Lophozia heterocolpos* (Thed. ex C. Hartm.) M. Howe, *Leiocolea heterocolpos* (Thed.) Buch).

**Metzgeria pubescens** (Schrank) Raddi (*Apometzgeria pubescens* (Schrank) Kuwah.).

**Metzgeria violacea** (Ach. ex F.Weber et D. Mohr) Dumort. (*Metzgeria fruticulosa* (Dicks.) A. Evans, *M. furcata* var. *fruticulosa* Lindb.).

**Neoorthocaulis attenuatus** (Mart.) L. Soderstr., De Roo et Hedd (*Barbilophozia attenuata* (Mart.) Loeske, *B. gracilis* (Schleich.) K. Müll.).

**Neoorthocaulis floerkei** (F. Weber & Mohr) L. Soderstr., De Roo et Hedd (*Barbilophozia floerkei* (F. Weber & Mohr) Loeske).

**Riccia beyrichiana** Hampe ex Lehm.

**Riccia crinita** Hoffm. (*R. trichocarpa* M. Howe, *R. canescens* Steph.). Hoffm.

**Riccia erinacea** Schiffn.

**Riccia rhenana** Lorbeer var. *violacea* Boiko.



- Schistochilopsis incisa** (Schrad.) Konstant. 1994 (*Lophozia incisa* (Schrad.) Dumort.).
- Schljacovianthus quadrilobus** (Lindb.) 2010 (*Barbilophozia quadriloba* (Lindb.) Loeske.)
- Solenostoma confertissimum** (Nees) Schljakov) 1980 (*Jungermannia confertissima* Nees, *Solenostoma levieri* (Steph.).)
- Solenostoma gracillimum** (Sm.) R.M. Schust. (*Plectocolea crenulata* Evans, *Jungermannia gracillima* Sm., *Solenostoma crenulatum* (Sm.) Mitt.).
- Solenostoma hyalinum** (Lyell ex Hook.) Mitt. (*Plectocolea hyalina* (Lyell) Mitt. (*Jungermannia hyalina* Lyell).)
- Solenostoma obovatum** (Nees) C. Massal. 1903 (*Plectocolea obovata* (Nees) Mitt., *Jungermannia obovata* Nees).
- Solenostoma sphaerocarpum** (Hook.) Steph. (*Jungermannia sphaerocarpa* Hook., *Solenostoma sphaerocarpum* (Hook.) Steph.).
- Sphenobolus minutus** (Schreb.) Berggr. (*Anastrophyllum minutum* (Schreb.) R. M. Schust.).
- Syzygiella autumnalis** (DC.) K. Feldberg, Vana, Hentschel et Heinrichs 2010 (*Jamesoniella autumnalis* (DC.) Steph.).
- Trilophozia quinquedentata** (Huds.) Bakalin (*Tritomaria quinquedentata* (Huds.) H. Buch, *Barbilophozia quinquedentata* Loeske).

### Bryophyta

- Alleniella besseri** (Lobarz.) S.Olsson, Enroth & D.Quandt (*Neckera besseri* (Lob.) Jur., *Homalia besseri* Lobarz.).
- Alleniella complanata** (Hedw.) S.Olsson, Enroth & D.Quandt (*Neckera besseri* (Lob.) Jur., *Homalia besseri* Lobarz.).
- Aulacomnium arenopaludosum** Boiko.
- Bryum badium** (Brid.) Schimp.
- Campylidium calcareum** (Crundw. & Nyholm) Ochyra (*Campylophyllum calcareum* (Crundw. & Nyholm) Hedenäs, *Campylium calcareum* Crundw. & Nyholm)
- Campylidium sommerfeltii** (Myrin) Ochyra *Campylophyllum sommerfeltii* (Myrin) Hedenäs, *Chrysohypnum sommerfeltii* (Myrin) Roth).
- Campylopus introflexus** (Hedw.) Brid.
- Dichelyma capillaceum** (L. ex Dicks.) Myrin.
- Dichodontium flavescens** (Dicks.) Lindb.
- Drepanocladus lycopodioides** (Brid.) Warnst. (*Pseudocalliergon lycopodioides* (Brid.) Hedenäs.
- Drepanocladus polycarpus** (Blandow ex Voit) Warnst. (*D. aduncus* var. *polycarpus* (Bland.) Moenk.).
- Drepanocladus trifarius** (F.Weber & D.Mohr) Broth. ex Paris (*Pseudocalliergon trifarium* (F.Weber & Mohr) Loeske, *Calliergon trifarium* (F.Weber & D.Mohr) Kindb.).
- Ephemerum crassinervium** subsp. **sessile** (Bruch) Holyoak (*Ephemerum sessile* (Bruch) H. Müll.).
- Exsertotheca crispa** (Hedw.) S.Olsson, Enroth & D.Quandt (*Neckera crispa* Hedw.).
- Grimmia fuscolutea** Hook.
- Hymenoloma compactum** (Schleich. ex Schwagr.) Ochyra (*Dicranoweisia compacta* (Schleich. ex Schwagr.) Schimp., *D. crispula* var. *compacta* (Schwäger.) Lindb.).
- Hymenoloma crispulum** (Hedw.) Ochyra (*Dicranoweisia crispula* (Hedw.) Milde).
- Imbribryum alpinum** (Huds. ex With.) N. Pedersen (*Bryum alpinum* Huds. ex With.)
- Imbribryum mildeanum** (Jur.) J.R. Spence (*Bryum mildeanum* Jur., *B. alpinum* var. *mildeanum* (Jur.) Podp.).
- Lazarenkia kozlovii** (Lazar.) Boiko (*Pterygoneurum kozlovii* Lazar.).

- Lescuraea incurvata** (Hedw.) E. Lawton (*L. atrovirens* (Bruch & Schimp.) E. Lawton, *Pseudoleskea incurvata* (Hedw.) Loeske).
- Lescuraea patens** Lindb. (*Pseudoleskea patens* (Lindb.) Kindb.).
- Lescuraea radicata** (Mitt.) Monk. (*Pseudoleskea radicata* (Mitt.) Macoun & Kindb.).
- Myrinia pulvinata** (Wahlendb.) Schimp.
- Nogopterium gracile** (Hedw.) Crosby & W.R.Buck. (*Pterogonium gracile* (Hedw.) Sm.).
- Nyholmiella gymnostoma** (Bruch ex Brid.) Holmen & Warncke (*Orthotrichum gymnostomum* Bruch ex Brid.).
- Nyholmiella obtusifolia** (Brid.) Holmen & Warncke (*Orthotrichum obtusifolium* Brid.).
- Orthotrichum affine** var. **bohemicum** Plašek & Sawicki.
- Philonotis capillaris** Lindb. (*Ph. arnellii* Husn., *Ph. fontana* subsp. *capillaris* (Lindb.) Herib.).
- Plagiothecium denticulatum** (Hedw.) Schimp. var. **undulatum** R.Ruthe ex Geh. (*Plagiothecium ruthei* Limpr.).
- Pohlia prolifera** (Kindb.) Lindb.
- Polytrichum formosum** Hedw. (*Polytrichastrum formosum* Hedw. G. Sm.).
- Polytrichum longisetum** Sw. ex Brid. (*Polytrichastrum longisetum* (Sw. ex Brid.) G. Sm.).
- Polytrichum pallidisetum** Funck (*Polytrichastrum pallidisetum* (Funck) G. Sm.).
- Polytrichum swartzii** Hartm. (*P. uliginosum* (Wallr.) Schriebl, *P. commune* var. *swartzii* (Hartm.) Nyholm).
- Pseudocampylidium radicale** (P. Beauv. Vanderp. & Hedenäs. (*Amblystegium radicale* (P. Beauv.) Schimp., *A. saxatile* Schimp., *Campylidium radicale* (P. Beauv.) Grout) –
- Pseudoamblystegium subtile** (Hedw.) Vanderp. & Hedenäs (*Amblystegium subtile* (Hedw.) Schimp.).
- Pseudocampylidium radicale** (P. Beauv.) Vanderp. & Hedenäs. (*Amblystegium radicale* (P. Beauv.) Schimp.).
- Ptychostomum archangelicum** (Bruch & Schimp.) J.R. Spence. (*Bryum archangelicum* Bruch & Schimp.).
- Ptychostomum boreale** (F. Weber & D. Mohr) Ochya & Bednarek-Ochya (*Bryum pallescens* Schleich. ex Schwaegr., *B. cirratum* Hoppe & Horhsch.).
- Ptychostomum capillare** (Hedw.) Holyoak & N. Pedersen (*Bryum capillare* Hedw.).
- Ptychostomum cernuum** (Hedw.) Hornsch. (*Bryum cernuum* (Hedw.) Bruch & Schimp.).
- Ptychostomum compactum** Hornsch. (*B. compactum* (Hornsch.) Kindb.).
- Ptychostomum creberrimum** (Taylor) J.R. Spence & H.P. Ramsay. (*Bryum creberrimum* Taylor).
- Ptychostomum imbricatum** (Mull. Hal.) Holyoak & N. Pedersen. (*Bryum imbricatum* (Schwaegr.) Bruch & Schimp.).
- Ptychostomum moravicum** (Podp.) Ros & Mazimpaka. (*Bryum moravicum* Podp.).
- Ptychostomum pallens** (Sw.) J.R. Spence (*Bryum pallens* Sw.).
- Ptychostomum pseudotriquetrum** (Hedw.) J.R. Spence & H.P. Ramsay (*Bryum pseudotriquetrum* (Hedw.) P. Gaertn. et al.).
- Ptychostomum pseudotriquetrum** (Hedw.) J.R. Spence & H.P. Ramsay var. **bimum** (Schreb.) Holyoak & N. Pedersen (*Bryum bimum* (Brid.) Turn.).
- Ptychostomum rubens** (Mitt.) Holyoak & N. Pedersen (*Bryum rubens* Mitt.).
- Ptychostomum torquescens** (Bruch & Schimp.) Ros & Mazimpaka. (*Bryum torquescens* Bruch & Schimp.).
- Ptychostomum zieri** (Hedw.) Holyoak & N. Pedersen (*Plagiobryum zieri* (Hedw.) Lindb.).
- Rhynchostegiella teneriffae** (Mont.) Dirkse & Bouman.

**Rhynchostegium riparioides** (Hedw.) Cardot (*Platyhypnidium riparioides* (Hedw.) Dix. *P. rusциforme* Fleisch., *Eurhynchium rusциforme* (Hedw.) Dix.).

**Sarmentypnum exannulatum** (Schimp.) Hedenas. (*Warnstorfia exannulata* (Schimp.) Loeske).

**Sarmentypnum sarmentosum** (Wahlenb.) Tuom. & T.J. Kop. (*Warnstorfia sarmentosa* (Wahlenb.) Hedenäs).

**Schistidium crassipilium** Blom.

**Schistidium elengatulum** Blom.

**Schistidium dupretii** (Ther.) W.A. Weber.

**Schistidium lancifolium** (Kind.) Blom.

**Schistidium pulchrum** Blom.

**Schistidium robustum** (Nees & Hornsch.) Blom.

**Schistidium trichodon** (Brid.) Poelt var. *nutans* Blom.

**Sciuro-hypnum curtum** (Lindb.) Ignatov (*Brachythecium curtum* (Lindb.)).

**Serpoleskea confervoides** (Brid.) Schimp. (*Platydictya confervoides* (Brid.) H.A. Crum).

**Syntrichia laevipila** Brid.

**Syntrichia ruralis** (Hedw.) F. Weber & Mohr var. **polysporogonica** Boiko.

**Tortella squarrosa** (Brid.) Limpr.

**Tortula acaulon** (With.) R.H. Zander (*Phascum cuspidatum* Hedw.).

**Tortula caucasica** Broth. (*Tortula modica* Zander).

**Tortula lindbergii** Broth. (*Tortula lanceola* R. H. Zander).

**Tortula protobryoides** R.H. Zander (*Pottia bryoides* (Dicks.) Mitt.).

#### **Doubtful taxa**

*Grimmia fuscolutea* Hook. species has many synonyms, the most famous of them are *G. apiculata* Hornsch., *G. fastigiata* Cardot, *G. flexicauli* C. Müll. and others. Species was presented for Ukrainian Carpathians valley of Dvorysh stream near Vyzhenka village Vyzhnytskyi district of Chernivtsi region where it grew up in silicate rocks [STEFURAC, 1936]. This habitat of the species has been shown in a number of papers [LAZARENKO, 1955; ZEROV, PARTYKA, 1975; BACHURYNA, MELNYCHUK, 1988]. However, V.M. Melnychuk [MELNYCHUK, 1970; BACHURYNA, MELNYCHUK, 1988] expressed some doubt about the findings. In our view the species should be included into checklist, but with awareness, because sufficient objections about inclusion are absent for now. Another indication of the growth of this species in Ukrainian Carpathians – Transcarpathian region, Mount Petros was wrong [BACHURYNA, MELNYCHUK, 1988].

*Lunularia cruciata* (L.) Dumort. Species was presented by D.K. Zerov [1964] for Kyiv. It grows on the ground near greenhouses of O.V. Fomin Botanical Garden with heat-loving plants that are planted in the summer ground. Naturally species grows in the Mediterranean region, in America and Australia it is considered wild, in Western and Central Europe it is found near the greenhouses and baths. You can consider it as an alien species, but its presence in Ukraine shouldn't be ignored [VÁŇA, VIRCHENKO, 1993]. Especially in the last decade a lot of plant material for cultivation in botanical gardens and private yard has come from Europe to Ukraine. Therefore, an indication of the species growth in Ukraine should be kept, but it is necessary to clarify the detailed studies of relevant habitats.

#### **Mosses taxa that were incorrectly or insufficiently substantiated for the territories of Ukraine in the European Checklist of bryophytes (Checklist ..., 2014)**

##### **Marchantiophyta**

*Asterella saccata* (Wahlenb.) A. Evans. There was only the possibility of finding the species in Ukraine indicated, as it was noted in neighboring Eastern European countries [ZEROV, 1964].

*Bazzania flaccida* (Dumort.) Grolle (= *Bazzania denudata* auct.) Species wasn't marked in Ukraine. D.K. Zerov [1964] only pointed out that the species was found in the neighborhood – the Tatra Mountains.

*Bucegia romanica* Radian. The lack of this species in Ukraine was proved earlier [VÁŇA, VIRCHENKO, 1993].

*Cephalozia lacinulata* (JBJack ex Gottsche & Rabenh.) Spruce. D.K. Zerov [1964] doubted the accuracy of sample determination of *C. lacinulata* of the Ukrainian Carpathians as in sterile condition it was difficult to determine. Later I. Váňa indicated the species as *Cephaloziella divaricata* [VÁŇA, VIRCHENKO, 1993].

*Cephalozia macrostachia* Kaal. The possibility of finding the species in Ukraine was noted [ZEROV, 1964].

*Cephaloziella divaricata* var. *scabra* (M. Howe) Haynes. Species is given in the works of D.K. Zerov [1964] and I. Váňa, V.M. Virchenko [1993] according to the literature data [KRUPA, 1885; REJMENT-GROCHOWSKA, 1958] without giving a specific locations for var. *scabra*.

*Jungermannia exsertifolia* Steph. [subsp. *cordifolia* (Dumort.) Váňa). The sample, as *Haplozia cordifolia* shown by D.K. Zerov [1964] according to the Boros' work [BOROS, 1951]. Sample was redefined as *Jungermannia pumila* f. *rivularis* [VÁŇA, VIRCHENKO, 1993].

*Lophocolea coadunata* Steph. (= *L. bidentata*).

*Lophozia silvicola* (= *L. ventricosa*, *Lophozia ventricosa* var. *silvicola* (H. Buch) E.W. Jones.

*Mesoptychia gilmanii* H. Buch (synonym *Lophozia gilmanii*). Species was indicated for Ukraine by mistake [DÜLL, 1983].

*Nardia compressa* (Hook.) Gray. After redefining sample was named as *Nardia scalaris* [VÁŇA, VIRCHENKO, 1993].

*Nardia insecta* Lindb. After redefining the sample was defined as *Nardia geoscyphus* [VÁŇA, VIRCHENKO, 1993].

*Obtusifolium obtusum* (Lindb.) S.Arnell – (= *Lophozia obtusa* (Lindb.) A. Evans, *Leiocolea obtusa* (Lindb.) Buch). Species was specified for Ukraine by mistake [DÜLL, 1983].

*Peltolepis quadrata* [BOROS, VAIDA, 1968]. After redefining the sample was defined as *Mannia pilosa* [VÁŇA, VIRCHENKO, 1993].

*Riccia glauca* L. var. *ciliaris* Warnst. Species is provided in the work of D.K. Zerov [1964] as *Riccia glauca* var. *subinermis* (Lindb.) Warnst. (*Riccia subinermis* Lindb.) Without giving a specific locations. It is necessary to study all available materials for certain judgments.

*Riccia perennis* Steph. Species was defined for Ukraine by mistake [DÜLL, 1983].

*Scapania paludosa* (Mül.Frib.) Mül.Frib. D.K. Zerov [1964] indicates the type of proximity to *S. undulata*, but does not specify the location, but suggests that the species occurs in the subalpine zone. *S. paludosa* indicated for the Ukrainian Carpathians was [SLOBODYAN, 1950] redefined as *S. undulata* [VÁŇA, VIRCHENKO, 1993].

*Scapania scandica* (Arnell & H.Buch) Macvicar. It was only indicated the closeness of this species to *S. curta*, but the possibility of finding the species in Ukraine was not mentioned [ZEROV, 1964].

*Schistochilopsis incisa* var. *inermis* (Müll. Frib.) Konstant. (= *Lophozia incisa* (Schr.) Dumort. var. *inermis* K.Müll. In Rabenh.). Species was indicated only in general terms, location was not listed in Ukraine [ZEROV, 1964, VÁŇA, VIRCHENKO, 1993].

*Schistochilopsis opacifolia* (Culm. ex Meyl.) Konstant. (*S. incisa* var. *opacifolia*). There is no information on finding this arch-alpine species in Ukraine.

*Schljakovia kunceana* (Huebener) Konstant. & Vilnet (= *Barbilophozia kunceana* (Huebener) Müll. Frib.). There is no information on finding this arch-alpine species in Ukraine.

*Solenostoma pusillum* (C.E.O. Jensen) Steph. Only the growth of this species in Transylvania (Romania) was mentioned and the possibility of finding the species in Ukraine was indicated [ZEROV, 1964].

*Southbya tophacea* (Spruce) Spruce (*Jungermannia tophacea*). Species was given to Ukraine by mistake [DÜLL, 1983].

*Sphenolobus saxicola* (Schrad.) Steph. (= *Anastrophyllum saxicola* (Schrad.) Schust.). Species was indicated for the Ukrainian Carpathians [BOROS, VAJDA, 1968]. The material was redefined as *Anastrophyllum michauxii* (F. Weber) H. Buch [VÁŇA, VIRCHENKO, 1993].

### **Bryophyta**

*Bryum gemmilucens* R. Wilczek & Demaret. There is no information on this species in Ukraine.

*Plagiothecium denticulatum* var. *obtusifolium* (Turner) Moore. There is no information on finding this species in Ukraine, it is known from Alaska, China, and Japan.

*Pohlia elongata* var. *greenii* (Brid.) Shaw (= *Pohlia elongata* var. *minor* Hartm., *Pohlia minor* Schleich ex Schwaegr). There is no information on finding this species in Ukraine.

*Ptychostomum compactum* var. *rutheanum* (Warnst.) Holyoak & N. Pedersen. There is no information on finding this species in Ukraine.

### **Excluded species from brioflora of Ukraine**

*Pohlia andrevsii* J. Shaw. Species was presented for Ukraine by M.S. Ihnatov and O.M. Afonina in Checklist of mosses of the former USSR in 1992. However in later works of these and other authors this species had not been indicated any more. Thus this indication could be considered as wrong. V.M. Virchenko [2010] offers to exclude the species from the bryophyte flora of Ukraine. We [BOIKO, 2012], supported this proposal, but noted that the probability of finding of this species in the country was very high.

*Schistidium confertum* (Funck) Bruch & Schimp. This type is specified for many lowland and mountain habitats of phyto-geographical regions of Ukraine [BACHURYNA, MELNYCHUK, 1988; BOIKO, 2008]. H. Blom [BLOM, 1996] describes the species as montaneous, with nearly circumpolar distribution. Distributed in the mountains of southern Europe. Noted in the mountainous regions from eastern Ardennes to Poland. There are localities in northern Europe – Wales, Scotland, Iceland. Also in the mountains of the Caucasus, Turkey, Armenia, in the Himalayas and Tibet, in the mountains of North America, Alaska. All materials are known in Ukraine should be redefined according to the current understanding of the species and decide on the presence or absence of this species in Ukraine.

*Schistidium strictum* (Turn.) Loeske – an oceanic species, found in Norway, the Faroe Islands, the western part of Iceland, the western part of the United Kingdom (Wales, England, Scotland), Spain – Pyrenees 2000 m above sea level, Madeira – 1800 m. In America – hyperoceanic species of the Pacific coast: Canada – Vancouver, USA – Alaska, Aleutian Islands [BLOM, 1996]. In Ukraine probably it was never found. All specimens of this species in the herbarium of Ukraine must be determined again.

*Sciuro-hypnum oedipodium* (Mitt.) Ignatov & Huttunen. In Ukraine Bryofloras, like in other countries bryofloras, *Brachytecium curtum* (Lindb.) J. Lange for a long time this species was not considered as an independent one and accepted as a form of *B. starkei* (Brid.) BSG, namely – *B. starkei* var. *explanatum* (Brid.) Mönk. [LAZARENKO, 1955; BACHURINA, MELNYCHUK, 2003]. O.I. Vysotska [1984] estimated that *B. curtum* and *B. starkei* are different chromosomal races, and there is a clear morphological differences between them. In addition, both species have a different distribution. V.M. Virchenko [2000] considers *B. starkei* (Brid.) BSG var. *explanatum* auct. and *B. curtum* (Lindb.) J. Lange et C. Jens. interchangeably to *Brachytecium oedipodium* (Mitt.) A. Jaeg. M.F. Boiko [2008, 2009] considered the species

*B. curtum* (Lindb.) Limpr. and *B. oedipodium* (Mitt.) Jager. and *B. starkei* var. *curtum* (Lindb.) Warnst. and *B. starkei* var. *explanatum* (Brid.) Mönk. interchangeably to *Sciuro-hypnum oedipodium* (Mitt.) Ignatov & Huttunen. M.S. Ignatov and I.A. Milutina [IGNATOV, MILUTINA, 2007] based on molecular sequence data of ITS confirmed that *Sciuro-hypnum oedipodium* and *Sciuro-hypnum curtum* are separate species. That is, *Sciuro-hypnum curtum*, *Sciuro-hypnum starkei* and *Sciuro-hypnum oedipodium* at this stage are recognized as independent species. Since the distribution of non-distinguished species in Ukraine is not cleared (need to work out all the herbarium materials), today *S. curtum* and *S. starkei* can be only indicated for Ukrainian bryoflora. *S. oedipodium* is apparently absent in Ukraine, it is common in western North America, absent in its east, found in the Caucasus and Chukotka [IGNATOV, MILUTINA, 2007]. In The new European checklist of bryophytes [CHECKLIST ..., 2014] *S. oedipodium* is not specified for Ukraine.

### Synonyms

#### Anthocerotophyta, Marchantiophyta

- Anastrophyllum hellerianum* = *Crossocalyx hellerianum*  
*Anastrophyllum minutum* = *Sphenolobus minutus*  
*Aneura major* = *Riccardia chamaedryfolia*  
*Aneura incurvata* = *Riccardia incurvata*  
*Aneura latifrons* = *Riccardia latifrons*  
*Aneura multifida* = *Riccardia multifida*  
*Aneura palmata* = *Riccardia palmata*  
*Athalamia hyalina* = *Clevea hyalina*  
*Athalamia spathysii* = *Clevea spathysii*  
*Anthoceros laevis* = *Phaeoceros laevis*  
*Anthoceros punctatus* var. *cavernosus* = *Anthoceros agrestis*  
*Apometzgeria pubescens* = *Metzgeria pubescens*  
*Barbilophozia attenuata* = *Neoorthocaulis attenuates*  
*Barbilophozia floerkei* = *Neoorthocaulis floerkei*  
*Barbilophozia gracilis* = *Neoorthocaulis attenuatus*  
*Barbilophozia quadriloba* = *Schljaevianthus quadrilobus*  
*Barbilophozia quinqueidentata* = *Trilophozia quinqueidentata*  
*Calypogeia meylanii* = *Calypogeia integristipula*  
*Calypogeia neesiana* var. *meylanii* = *Calypogeia integristipula*  
*Calypogeia trichomanis* = *Calypogeia azurea*  
*Cephalozia bicuspidata* subsp. *lammersiana* = *Cephalozia lammersiana*  
*Cephalozia fluitans* = *Cladopodiella fluitans*  
*Cephalozia media* = *Cephalozia lunulifolia*  
*Cephalozia reclusa* = *Cephalozia catenulata*  
*Cephaloziella starkei* = *Cephaloziella divaricata*  
*Cephaloziella subdentata* = *Cephaloziella spinigera*  
*Chiloscyphus coadunatus* = *Lophocolea bidentata*  
*Chiloscyphus pallescens* var. *fragilis* = *Chiloscyphus fragilis*  
*Chiloscyphus polyanthus* var. *pallescens* = *Chiloscyphus pallescens*  
*Chiloscyphus polyanthus* var. *rivularis* = *Chiloscyphus rivularis*  
*Frullania nervosa* = *Frullania tamarisci*  
*Fuscocephaloziopsis albescens* = *Pleurocladula albescens*  
*Gymnomitrium apiculatum* = *Marsupella apiculata*  
*Haplozia atrovirens* = *Jungermannia atrovirens*  
*Haplozia pumila* = *Jungermannia pumila*  
*Jamesoniella autumnalis* = *Syzygiella autumnalis*

*Jungermannia caespiticia* = *Endogemma caespiticia*  
*Jungermannia collaris* = *Mesoptychia collaris*  
*Jungermannia confertissima* = *Solenostoma confertissimum*  
*Jungermannia gracillima* = *Solenostoma gracillimum*  
*Jungermannia hyalina* = *Solenostoma hyalinum*  
*Jungermannia juratzkana* = *Anthelia juratzkana*  
*Jungermannia leiantha* = *Liochlena lanceolata*  
*Jungermannia lanceolata* = *Liochlaena lanceolata*  
*Jungermannia obovata* = *Solenostoma obovatum*  
*Jungermannia sphaerocarpa* = *Solenostoma sphaerocarpum*  
*Jungermannia subulata* = *Liochlena subulata*  
*Leiocollea badensis* = *Mesoptychia badensis*  
*Leiocollea bantriensis* = *Mesoptychia bantriensis*  
*Leiocollea heterocolpos* = *Mesoptychia heterocolpos*  
*Leiocollea mulleri* = *Mesoptychia bantriensis*  
*Mylia anomala* = *Leomylia anomala*  
*Lophocollea coadunata* = *Lophocollea bidentata*  
*Lophozia alpestris* = *Barbilophozia sudetica*  
*Lophozia badensis* = *Mesoptychia badensis*  
*Lophozia bantriensis* = *Mesoptychia bantriensis*  
*Lophozia bicrenata* = *Isopaches bicrenatus*  
*Lophozia collaris* = *Mesoptychia collaris*  
*Lophozia confertifolia* = *Lophozia wenzelii*  
*Lophozia excisa* = *Lophozia excisa*  
*Lophozia heterocolpos* = *Mesoptychia heterocolpos*  
*Lophozia hornschuchiana* = *Mesoptychia bantriensis*  
*Lophozia incisa* = *Schistochilopsis incisa*  
*Lophozia longidens* = *Lophozia longidens*  
*Lophozia longiflora* = *Lophozia guttulata*  
*Lophozia porphyroleuca* = *Lophozia guttulata*  
*Lophozia sudetica* = *Barbilophozia sudetica*  
*Lophozia ventricosa* var. *confertifolia* = *Lophozia wenzelii*  
*Mannia rupestris* = *Mannia triandra*  
*Marchantia polymorpha* subsp. *montivagans* = *Marchantia alpestris*  
*Marsupella adusta* = *Gymnomitrium adustum*  
*Marsupella badensis* = *Marsupella funckii*  
*Metzgeria fruticulosa* = *Metzgeria violacea*  
*Metzgeria furcata* var. *fruticulosa* = *Metzgeria violacea*  
*Metzgeria hamata* = *Metzgeria leptoneura*  
*Mylia anomala* = *Leomylia anomala*  
*Oxymitria paleacea* = *Oxymitria incrassata*  
*Pellia fabroniana* = *Pellia endiviifolia*  
*Phaeoceros laevis* subsp. *carolinianus* = *Phaeoceros carolinianus*  
*P. asplenioides* subsp. *porelloides* = *Plagiochila porelloides*  
*Plagiochila major* = *Plagiochila asplenioides*  
*Plectocolea crenulata* = *Solenostoma gracillimum*  
*Plectocolea hyalina* = *Solenostoma hyalinum*  
*Plectocolea obovata* = *Solenostoma obovatum*  
*Porella laevigata* = *Porella arboris-vitae*  
*Riccardia pinguis* = *Aneura pinguis*  
*Riccardia sinuata* = *Riccardia chamaedryfolia*

*Riccia canescens* = *Riccia crinita*  
*Riccia gougetiana* var. *armatissima* = *Riccia erinacea*  
*Riccia gougetiana* var. *erinacea* = *Riccia erinacea*  
*Riccia trichocarpa* = *Riccia crinita*  
*Riccia pseudopapillosa* = *Riccia papillosa*  
*Scapania nemorosa* = *Scapania nemorea*  
*Solenostoma caespiticium* = *Endogemma caespiticia*  
*Solenostoma crenulatum* = *Solenostoma gracillimum*  
*Plectocolea hyalina* = *Solenostoma hyalinum*  
*Solenostoma lanceolata* = *Liochlaena lanceolata*  
*Solenostoma levieri* = *Solenostoma confertissimum*  
*Solenostoma pumila* = *Jungermannia pumila*  
*Telaranea setacea* = *Kurzia pauciflora*  
*Tritomaria quinquedentata* = *Trilophozia quinquedentata*

### Bryophyta

*Acaulon rubrum* = *Acaulon muticum*  
*Amblystegiella confervoides* = *Serpoleskea confervoides*  
*Amblystegium confervoides* = *Serpoleskea confervoides*  
*Amblystegiella sprucei* = *Platydictya jungermannioides*  
*Amblystegiella subtilis* = *Pseudoamblystegium subtile*  
*Amblystegium compactum* = *Conardia compacta*  
*Amblystegium humile* = *Hygroamblystegium humile*  
*Amblystegium jungermannioides* = *Platydictya jungermannioides*  
*Amblystegium kochii* = *Hygroamblystegium humile*  
*Amblystegium radicale* = *Pseudocampylium radicale*  
*Amblystegium riparium* = *Leptodictyum riparium*  
*Amblystegium saxatile* = *Pseudocampylium radicale*  
*Amblystegium subtile* = *Pseudoamblystegium subtile*  
*Amblystegium tenax* = *Hygroamblystegium tenax*  
*Amblystegium varium* = *Hygroamblystegium varium*  
*Anoetangium hornschuchianum* = *Molendoa hornschuchiana*  
*Anoetangium sendtnerianum* = *Molendoa sendtneriana*  
*Anomodon apiculatus* = *Anomodon rugelii*  
*Astomum crispum* = *Weissia longifolia*  
*Astomum crispum* var. *levieri* = *Weissia levieri*  
*Astomum crispum* var. *phylibertii* = *Weissia levieri*  
*Atrichum undulatum* var. *haussknechtii* = *Atrichum flavisetum*  
*Atrichum undulatum* var. *minor* = *Atrichum crispum*  
*Barbula acuta* = *Didymodon acutus*  
*Barbula cordata* = *Didymodon cordatus*  
*Barbula cylindrica* = *Didymodon insulanus*  
*Barbula fallax* = *Didymodon fallax*  
*Barbula hornschuchiana* = *Pseudocrossidium hornschuchianum*  
*Barbula lurida* = *Didymodon luridus*  
*Barbula reflexa* = *Didymodon ferrugineus*  
*Barbula revoluta* = *Pseudocrossidium revolutum*  
*Barbula rigidula* = *Didymodon rigidulus*  
*Barbula sinuosa* = *Didymodon sinuosus*  
*Barbula spadicea* = *Didymodon spadiceus*  
*Barbula tophacea* = *Didymodon tophaceus*



*Barbula vinealis* = *Didymodon vinealis*  
*Bartramia oederi* = *Plagiopus oederianus*  
*Brachythecium curtum* = *Sciuro-hypnum curtum*  
*Brachythecium plumosum* = *Sciuro-hypnum plumosum*  
*Brachythecium populeum* = *Sciuro-hypnum populeum*  
*Brachythecium reflexum* = *Sciuro-hypnum reflexum*  
*Brachythecium trachypodium* = *Brachytheciastrum trachypodium*  
*Brachythecium starkei* = *Sciuro-hypnum starkei*  
*Brachythecium velutinum* = *Brachytheciastrum velutinum*  
*Breidleria arcuata* = *Calliergonella lindbergii*  
*Bryoerythrophyllum recurvirostrum* var. *dentatum* = *Bryoerythrophyllum alpigenum*  
*Bryum algovicum* = *Ptychostomum compactum*  
*Bryum alpinum* = *Imbribryum alpinum*  
*Bryum alpinum* subsp. *gemmiparum* = *Bryum gemmiparum*  
*Bryum alpinum* var. *mildeanum* = *Imbribryum mildeanum*  
*Bryum angustirete* = *Ptychostomum compactum*  
*Bryum amblyodon* = *Ptychostomum imbricatulum*  
*Bryum argenteum* subsp. *veronense* = *Bryum veronense*  
*Bryum archangélicum* = *Ptychostomum archangelicum*  
*Bryum bimum* = *Ptychostomum pseudotriquetrum* var. *bimum*  
*Bryum capillare* = *Ptychostomum capillare*  
*Bryum capillare* var. *elegans* = *Bryum elegans*  
*Bryum capillare* var. *flaccidum* = *Ptychostomum moravicum*  
*Bryum capillare* var. *torquescens* = *Ptychostomum torquescens*  
*Bryum cernuum* = *Ptychostomum cernuum*  
*Bryum cirratum* = *Ptychostomum boreale*  
*Bryum compactum* = *Ptychostomum compactum*  
*Bryum creberrimum* = *Ptychostomum creberrimum*  
*Bryum flaccidum* = *Ptychostomum pallens*  
*Bryum intermedium* var. *pallens* = *Ptychostomum pallens*  
*Bryum imbricatum* = *Ptychostomum imbricatulum*  
*Bryum julaceum* = *Anomobryum julaceum*  
*Bryum lacustre* = *Bryum knowltonii*  
*Bryum mildeanum* = *Imbribryum mildeanum*  
*Bryum moravicum* = *Ptychostomum moravicum*  
*Bryum pallescens* = *Ptychostomum boreale*  
*Bryum pallens* = *Ptychostomum pallens*  
*Bryum pendulum* = *Ptychostomum compactum*  
*Bryum pendulum* subsp. *archangelicum* = *Ptychostomum archangelicum*  
*Bryum pseudotriquetrum* = *Ptychostomum pseudotriquetrum*  
*Bryum rubens* = *Ptychostomum rubens*  
*Bryum subelegans* = *Ptychostomum pallens*  
*Bryum torquescens* = *Ptychostomum torquescens*  
*Bryum uliginósum* = *Ptychostomum cernuum*  
*Calliergon sarmentosum* = *Sarmentypnum sarmentosum*  
*Calliergon stramineum* = *Straminergon stramineum*  
*Calliergon trifarium* = *Drepanocladus trifarius*  
*Campilopus fragilis* var. *pyriformis* = *Campilopus pyriformis*  
*Camptothecium aureum* = *Homalothecium aureum*  
*Camptothecium lutescens* = *Homalothecium lutescens*  
*Camptothecium nitens* = *Tomentypnum nitens*

- Campyliadelphus stellatus* = *Campylium stellatum*  
*Campylium calcareum* = *Campylidium calcareum*  
*Campylophyllum calcareum* = *Campylidium calcareum*  
*Campylium chrysophyllum* = *Campyliadelphus chrysophyllus*  
*Campylium elodes* = *Campyliadelphus elodes*  
*Campylium halleri* = *Campylophyllum halleri*  
*Campylium polygamum* = *Drepanocladus polygamus*  
*Campylium radicale* = *Pseudocampylium radicale*  
*Campylophyllum calcareum* = *Campylidium calcareum*  
*Campylophyllum sommerfeltii* = *Campylium sommerfeltii*  
*Campylopus fragilis* var. *pyriformis* = *Campilopus pyriformis*  
*Campylopus saxicola* = *Campylostelium saxicola*  
*Campylopus schwarzii* = *Campilopus gracilis*  
*Chrysohypnum helodes* = *Campyliadelphus elodes*  
*Chrysohypnum sommerfeltii* = *Campylium sommerfeltii*  
*Cinclidotus nigricans* = *Cinclidotus riparius*  
*Cirriphyllum cirrosum* = *Brachythecium cirrosum*  
*Cirriphyllum reichenbachianum* = *Sciuro-hypnum flotowianum*  
*Cirriphyllum tommasinii* = *Brachythecium tommasinii*  
*Cirriphyllum vaucheri* = *Brachythecium tommasinii*  
*Cratoneuron commutatum* = *Palustriella commutata*  
*Cratoneuron decipiens* = *Palustriella decipiens*  
*Cratoneuron falcatum* = *Palustriella falcata*  
*Cratoneuron filicinum* var. *curvicaule* = *Cratoneuron curvicaule*  
*Cynodontium flexicaule* = *Ditrichum flexicaule*  
*Cynodontium inclinatum* = *Distichium inclinatum*  
*Cynodontium schistii* = *Cnestrum schistii*  
*Cynodontium virens* = *Oncophorus virens*  
*Cynodontium wahlenbergii* = *Oncophorus wahlenbergii*  
*Desmatodon cernuus* = *Tortula cernua*  
*Desmatodon heimii* = *Henediella heimii*  
*Desmatodon latifolius* = *Tortula hoppeana*  
*Desmatodon leucostomus* = *Tortula leucostoma*  
*Desmatodon randii* = *Tortula randii*  
*Desmatodon ucrainicus* = *Tortula ucrainica*  
*Dicranella curvata* = *Dicranella subulata*  
*Dicranella palustris* = *Dichodontium palustre*  
*Dicranodontium longirostre* = *Dicranodontium denudatum*  
*Dicranoweisia compacta* = *Hymenoloma compactum*  
*Dicranoweisia crispula* = *Hymenoloma crispulum*  
*Dicranoweisia crispula* var. *compacta* = *Hymenoloma compactum*  
*Dicranum affine* = *Dicranum undulatum*  
*Dicranum bergeri* = *Dicranum undulatum*  
*Dicranum elongatum* subsp. *groenlandicum* = *Dicranum groenlandicum*  
*Dicranum enerve* = *Paraleucobryum enerve*  
*Dicranum fulvellum* = *Arctoa fulvella*  
*Dicranum fulvum* var. *viride* = *Dicranum viride*  
*Dicranum fuscescens* var. *flexicaule* = *Dicranum flexicaule*  
*Dicranum longifolium* = *Paraleucobryum longifolium*  
*Dicranum muehlenbeckii* var. *spadiceum* = *Dicranum spadiceum*  
*Dicranum rugosum* = *Dicranum polysetum*

*Dicranum sendtneri* = *Dicranum elongatum*  
*Didymodon alpigenum* = *Bryoerythrophyllum alpigenum*  
*Didymodon flexicaule* = *Ditrichum flexicaule*  
*Ditrichum cylindricum* = *Trichodon cylindricus*  
*Ditrichum heteromallum* var. *zonatum* = *Ditrichum zonatum*  
*Ditrichum tortile* = *Ditrichum pusillum*  
*Dolichotheca seligerii* = *Herzogiella seligeri*  
*Dolichotheca striatella* = *Herzogiella striatella*  
*Drepanocladus aduncus* var. *polycarpus* = *Drepanocladus polycarpus*  
*Drepanocladus cossonii* = *Scorpidium cossonii*  
*Drepanocladus exannulatus* = *Sarmentypnum exannulatum*  
*Drepanocladus fluitans* = *Warnstorfia fluitans*  
*Drepanocladus fluitans* f. *pseudostraminea* = *Warnstorfia pseudostraminea*  
*Drepanocladus intermedius* = *Scorpidium cossonii*  
*Drepanocladus uncinatus* = *Sanionia uncinata*  
*Drepanocladus revolvens* = *Scorpidium revolvens*  
*Drepanocladus vernicosus* = *Hamatocaulis vernicosus*  
*Dryptodon incurvus* = *Grimmia elatior*  
*Encalypta contorta* = *Encalypta streptocarpa*  
*Encalypta rhaptocarpa* var. *spathulata* = *Encalypta spathulata*  
*Encalypta vulgaris* var. *mutica* = *Encalypta mutica*  
*Ephemerum sessile* = *Ephemerum crassinervium* subsp. *sessile*  
*Erythrophyllum recurviróstrum* = *Bryoerythrophyllum recurvirostrum*  
*Eurhynchium circinatum* = *Scorpiurium circinatum*  
*Eurhynchium crassinervium* = *Cirriphyllum crassinervium*  
*Eurhynchium flotowianum* = *Sciuro-hypnum flotowianum*  
*Eurhynchium hians* = *Oxyrrhynchium hians*  
*Eurhynchium meridionale* = *Plasteurhynchium meridionale*  
*Eurhynchium praelongum* = *Kindbergia praelonga*  
*Eurhynchium pulchellum* = *Eurhynchiastrum pulchellum*  
*Eurhynchium schleicheri* = *Oxirrhynchium schleicheri*  
*Eurhynchium speciosum* = *Oxyrrhynchium speciosum*  
*Eurhynchium striatulum* = *Plasteurhynchium striatulum*  
*Eurhynchium striatulum* var. *meridionale* = *Plasteurhynchium meridionale*  
*Eurhynchium zetterstedtii* = *Eurhynchium angustirete*  
*Fissidens bryoides* var. *gymnandrus* = *Fissidens gymnandrus*  
*Fissidens cristatus* = *Fissidens dubius*  
*Fissidens decipiens* = *Fissidens dubius*  
*Fissidens exiguus* = *Fissidens bryoides*  
*Fissidens incurvus* = *Fissidens bryoides*  
*Fissidens mildeanus* = *Fissidens crassipes*  
*Fissidens minutulus* = *Fissidens crispus*  
*Fissidens obtusifolius* = *Fissidens arnoldii*  
*Fissidens viridulus* var. *pusillus* = *Fissidens pusillus*  
*Funaria dentata* = *Entosthodon muhlenbergii*  
*Funaria fascicularis* = *Entosthodon fascicularis*  
*Funaria hungarica* = *Entosthodon hungaricus*  
*Funaria muhlenbergii* = *Entosthodon muhlenbergii*  
*Grimmia acicularis* = *Racomitrium aciculare*  
*Grimmia agassizii* = *Schistidium agassizii*  
*Grimmia campestris* = *Grimmia laevigata*

- Grimmia commutata* = *Grimmia longirostris*  
*Grimmia flaccida* = *Schistidium flaccidum*  
*Grimmia meridionalis* = *Grimmia trichophylla*  
*Grimmia ovalis* = *Grimmia longirostris*  
*Grimmia ovata* = *Grimmia longirostris*  
*Grimmia patens* = *Grimmia ramondii*  
*Grimmia tergestinoides* = *Grimmia tergestina*  
*Gymnostomum recurvirostrum* = *Hymenostylium recurvirostrum*  
*Gymnostomum trichodes* = *Brachydontium trichodes*  
*Heterophyllum haldanianum* = *Callicladium haldanianum*  
*Heterophyllum nemorosum* = *Heterophyllum affine*  
*Holmgrenia intricata* = *Orthothecium intricatum*  
*Homalia besseri* = *Alleniella besseri*  
*Homalia complanata* = *Alleniella complanata*  
*Homalothecium geheebii* = *Brachythecium geheebii*  
*Hylocomium brevirostre* = *Loeskeobryum brevirostre*  
*Hymenostomum crispatum* = *Weissia controversa* var. *crispata*  
*Hypnum cupressiforme* var. *ericetorum* = *Hypnum jutlandicum*  
*Hypnum cupressiforme* var. *mammillatum* = *Hypnum andoi*  
*Hypnum cupressiforme* var. *vaucheri* = *Hypnum vaucheri*  
*Hypnum fastigiatum* = *Hypnum recurvatum*  
*Hypnum lindbergii* = *Calliergonella lindbergii*  
*Hypnum pratense* = *Breidleria pratensis*  
*Hypnum reptile* = *Hypnum pallescens*  
*Isopterygium elegans* = *Pseudotaxiphyllum elegans*  
*Isopterygium muellerianum* = *Isopterygiopsis muelleriana*  
*Isopterygium pulchellum* = *Isopterygiopsis pulchella*  
*Isothecium myurum* = *Isothecium alopecuroides*  
*Isothecium myosuroides* var. *rivulare* = *Isothecium holtii*  
*Isothecium viviparum* = *Isothecium alopecuroides*  
*Leskea intricata* = *Orthothecium intricatum*  
*Leskea mutabilis* = *Lescuraea mutabilis*  
*Leskeella nervosa* = *Pseudoleskeella nervosa*  
*Leptodictyum humile* = *Hygroamblystegium humile*  
*Leptodictyum kochii* = *Hygroamblystegium humile*  
*Lescuraea atrovirens* = *Lescuraea incurvata*  
*Lescuraea mutabilis* var. *saxicola* = *Lescuraea saxicola*  
*Leucobryum minus* = *Leucobryum juniperodeum*  
*Metaneckera menziesii* = *Neckera menziesii*  
*Mildeella bryoides* = *Tortula protobryoides*  
*Mniobryum albicans* = *Pohlia wahlenbergii*  
*Mniobryum carneum* = *Pohlia melanodon*  
*Mniobryum ludwigii* = *Pohlia ludwigii*  
*Mniobryum pulchellum* = *Pohlia lescuriana*  
*Mniobryum wahlenbergii* = *Pohlia wahlenbergii*  
*Mnium affine* var. *elatum* = *Plagiomnium elatum*  
*Mnium cinclidioides* = *Pseudobryum cinclidioides*  
*Mnium longirostre* = *Plagiomnium rostratum*  
*Mnium medium* = *Plagiomnium medium*  
*Mnium punctatum* = *Rhizomnium punctatum*  
*Mnium punctatum* var. *elatum* = *Rhizomnium magnifolium*

*Mnium rostratum* = *Plagiomnium rostratum*  
*Mnium rugicum* = *Plagiomnium ellipticum*  
*Mnium seligeri* = *Plagiomnium elatum*  
*Mnium undulatum* = *Plagiomnium undulatum*  
*Neckera besseri* = *Alleniella besseri*  
*Neckera crispa* = *Exsertotheca crispa*  
*Neckera complanata* = *Alleniella complanata*  
*Neckera fontinaloides* = *Neckera pumila*  
*Neckeradelphus menziesii* = *Neckera menziesii*  
*Octodicerus fontanum* = *Fissidens fontanus*  
*Oncophorus gracilescens* = *Cynodontium gracilescens*  
*Oncophorus polycarpus* = *Cynodontium polycarpon*  
*Oncophorus strumifer* = *Cynodontium strumiferum*  
*Orthodicranum flagellare* = *Dicranum flagellare*  
*Orthodicranum fulvum* = *Dicranum fulvum*  
*Orthodicranum montanum* = *Dicranum montanum*  
*Orthodicranum tauricum* = *Dicranum tauricum*  
*Orthotrichum fallax* = *Orthotrichum pumilum*  
*Orthotrichum fastigiatum* = *Orthotrichum affine*  
*Orthotrichum gymnostomum* = *Nyholmiella gymnostoma*  
*Orthotrichum leucomitrium* = *Orthotrichum scanicum*  
*Orthotrichum limprichtii* = *Orthotrichum cupulatum*  
*Orthotrichum nudum* = *Orthotrichum cupulatum*  
*Orthotrichum obtusifolium* = *Nyholmiella obtusifolia*  
*Orthotrichum pumilum* Dicks. = *Orthotrichum schimperi*  
*Orthotrichum rogeri* var. *defluens* = *Orthotrichum stramineum*  
*Orthotrichum stramineum* var. *patens* = *Orthotrichum patens*  
*Paraleucobryum longifolium* var. *sauteri* = *Paraleucobryum sauteri*  
*Phascum acaulon* = *Tortula acaulon*  
*Phascum curvicollum* = *Microbryum curvicollum*  
*Phascum cuspidatum* = *Tortula acaulon*  
*Phascum cuspidatum* var. *piliferum* = *Phascum piliferum*  
*Philonotis arnellii* = *Philonotis capillaris*  
*Philonotis fontana* subsp. *capillaris* = *Philonotis capillaris*  
*Philonotis fontana* var. *pumila* = *Philonotis tomentella*  
*Physcomitrium acuminatum* = *Physcomitrium eurystomum* subsp. *acuminatum*  
*Physcomitrium sphaericum* var. *eurystomum* = *Physcomitrium eurystomum*  
*Plagiobryum zieri* = *Ptychostomum zieri*  
*Plagiopus oederi* = *Plagiopus oederianus*  
*Plagiotheciella latebricola* = *Plagiothecium latebricola*  
*Plagiotheciella pilifera* = *Plagiothecium piliferum*  
*Plagiothecium laetum* var. *curvifolium* = *Plagiothecium curvifolium*  
*Plagiothecium neglectum* = *Plagiothecium nemorale*  
*Plagiothecium noricum* = *Plagiothecium neckeroideum*  
*Plagiothecium roeseanum* = *Plagiothecium cavifolium*  
*Plagiothecium ruthei* = *Plagiothecium denticulatum* var. *undulatum*  
*Plagiothecium ruthei* var. *rupicola* = *Plagiothecium platyphllum*  
*Plagiothecium silvaticum* = *Plagiothecium nemorale*  
*Platydictya confervoides* = *Serpoleskea confervoides*  
*Platydictya subtilis* = *Pseudoamblystegium subtile*  
*Platyhypnidium riparioides* = *Rhynchostegium riparioides*

- Pleuridium nitidum* = Pseudephemerum nitidum  
*Pleuridium palustre* = Cleistocarpidium palustre  
*Pleurochaete squarrosa* = Tortella squarrosa  
*Pogonatum alpinum* = Polytrichastrum alpinum  
*Pohlia acuminata* = Pohlia elongata  
*Pohlia ambigua* = Pohlia elongata  
*Pohlia delicatula* = Pohlia melanodon  
*Pohlia elongata* var. *minor* = Pohlia elongata var. *greenii*  
*Pohlia gracilis* = Pohlia filum  
*Pohlia longicollis* = Pohlia longicolla  
*Pohlia minor* = Pohlia elongata  
*Pohlia rothii* = Pohlia filum  
*Pohlia schleicheri* = Pohlia filum  
*Polytrichastrum formosum* = Polytrichum formosum  
*Polytrichastrum longisetum* = Polytrichum longisetum  
*Polytrichastrum pallidisétum* = Polytrichum pallidisetum  
*Polytrichum alpestre* = Polytrichum strictum  
*Polytrichum commune* var. *perigoniale* = Polytrichum perigoniale  
*Polytrichum commune* var. *swartzii* = Polytrichum swartzii  
*Polytrichum decipiens* = Polytrichum pallidisetum  
*Polytrichum gracile* = Polytrichum longisetum  
*Polytrichum hercynicum* = Oligotrichum hercynicum  
*Polytrichum sexangulare* = Polytrichastrum sexangulare  
*Polytrichum uliginósum* = Polytrichum swartzii  
*Polytrichum undulatum* = Atrichum undulatum  
*Polytrichum undulatum* var. *minus* = Atrichum crispulum  
*Pottia bryoides* = Tortula protobryoides  
*Pottia davalliana* = Microbryum davallianum  
*Pottia intermedia* = Tortula caucasica  
*Pottia lanceolata* = Tortula lindbergii  
*Pottia randii* = Tortula randii  
*Pottia starckeana* = Microbryum starckeanum  
*Pottia truncata* = Tortula truncata  
*Pottia truncatula* = Tortula truncata  
*Protobryum bryoides* = Tortula protobryoides  
*Pseudocalliergon lycopodioides* = Drepanocladus lycopodioides  
*Pseudocalliergon trifarium* = Drepanocladus trifarius  
*Pseudoleskea incurvata* = Lescuraea incurvata  
*Pseudoleskea patens* = Lescuraea patens  
*Pseudoleskea catenulata* = Pseudoleskeella catenulata  
*Pseudoleskea patens* = Lescuraea patens  
*Pseudoleskea radicata* = Lescuraea radicata  
*Pseudoleskea saviana* = Lescuraea saviana  
*Pseudoleskeella nervosa* var. *rupestris* = Pseudoleskeella rupestris  
*Pterygoneurum cavifolium* var. *crossidioides* = Pterygoneurum crossidioides  
*Pterygoneurum kozlovii* = Lazarenkia kozlovii  
*Pterygoneurum pusillum* = Pterygoneurum ovatum  
*Pterogonium gracile* = Nogopterium gracile  
*Ptychodium plicatum* = Lescuraea plicata  
*Ptychodium tauricum* = Lescuraea saviana  
*Racomitrium canescens* var. *intermedium* = Racomitrium elongatum

*Racomitrium canescens* var. *ericoides* = *Racomitrium ericoides*  
*Racomitrium heterostichum* var. *affine* = *Racomitrium affine*  
*Racomitrium heterostichum* var. *sudeticum* = *Racomitrium sudeticum*  
*Racomitrium hypnoides* = *Racomitrium lanuginosum*  
*Racomitrium protensum* = *Racomitrium aquaticum*  
*Rhabdoweisia denticulata* = *Rhabdoweisia crispata*  
*Rhabdoweisia striata* = *Rhabdoweisia fugax*  
*Rhytidiadelphus calvescens* = *Rhytidiadelphus subpinnatus*  
*Schistidium anodon* = *Grimmia anodon*  
*Schistidium apocarpum* var. *dupretii* = *Schistidium dupretii*  
*Schistidium apocarpum* subsp. *papillosum* = *Schistidium papillosum*  
*Schistidium apocarpum* var. *rivulare* = *Schistidium rivulare*  
*Scleropodium purum* = *Pseudoscleropodium purum*  
*Seligeria pusilla* var. *brevifolia* = *Seligeria brevifolia*  
*Sphagnum acutifolium* = *Sphagnum capillifolium*  
*Sphagnum denticulatum* = *Sphagnum auriculatum*  
*Sphagnum dusenii* = *Sphagnum majus*  
*Sphagnum fimbriatum* var. *strictum* = *Sphagnum girgensohnii*  
*Sphagnum nemoreum* = *Sphagnum capillifolium*  
*Sphagnum plumulosum* = *Sphagnum subnitens*  
*Sphagnum recurvum* subsp. *balticum* = *Sphagnum balticum*  
*Sphagnum recurvum* var. *amblyphyllum* = *Sphagnum flexuosum*  
*Sphagnum recurvum* var. *mucronatum* = *Sphagnum fallax*  
*Sphagnum recurvum* var. *obtusum* = *Sphagnum obtusum*  
*Sphagnum recurvum* var. *recurvum* = *Sphagnum fallax*  
*Sphagnum robustum* = *Sphagnum russowii*  
*Sphagnum subsecundum* var. *inundatum* = *Sphagnum inundatum*  
*Sphagnum tabulare* = *Sphagnum molle*  
*Syntrichia desertorum* = *Syntrichia caninervis*  
*Syntrichia inermis* = *Tortula inermis*  
*Syntrichia mucronifolia* = *Tortula mucronifolia*  
*Syntrichia pulvinata* = *Syntrichia virescens*  
*Syntrichia ruralis* var. *arenicola* = *Syntrichia ruraliformis*  
*Syntrichia ruralis* var. *calcicola* = *Syntrichia calcicola*  
*Syntrichia subulata* = *Tortula subulata*  
*Tayloria serrata* var. *tenuis* = *Tayloria tenuis*  
*Taxiphyllum depressum* = *Taxiphyllum wissgrillii*  
*Thamnum alopecurum* = *Thamnobryum alopecurum*  
*Thuidium abietinum* = *Abietinella abietina*  
*Thuidium minutulum* = *Pelekium minutulum*  
*Thuidium philibertii* = *Thuidium assimile*  
*Tortella caespitosa* = *Tortella humilis*  
*Tortula acaulon* var. *pilifera* = *Phascum piliferum*  
*Tortula calcicolens* = *Syntrichia calcicola*  
*Tortula caninervis* = *Syntrichia caninervis*  
*Tortula handelii* = *Syntrichia handelii*  
*Tortula lanceola* = *Tortula lindbergii*  
*Tortula latifolia* = *Syntrichia latifolia*  
*Tortula modica* = *Tortula caucasica*  
*Tortula montana* = *Syntrichia montana*  
*Tortula muralis* var. *aestiva* = *Tortula aestiva*

*Tortula norvegica* = *Syntrichia norvegica*  
*Tortula papillosa* = *Syntrichia papillosa*  
*Tortula ruraliformis* = *Syntrichia ruraliformis*  
*Tortula ruralis* = *Syntrichia ruralis*  
*Tortula ruralis* var. *ruraliformis* = *Syntrichia ruraliformis*  
*Tortula sinensis* = *Syntrichia sinensis*  
*Tortula subulata* var. *angustata* = *Tortula schimperii*  
*Tortula virescens* = *Syntrichia virescens*  
*Syntrichia pulvinata* = *Syntrichia virescens*  
*Trichostomum brevifolium* = *Trichostomum crispulum*  
*Trichostomum lanuginosum* = *Racomitrium lanuginosum*  
*Trichostomum mutabile* = *Trichostomum brachydontium*  
*Trichostomum subulatum* = *Ditrichum subulatum*  
*Trichostomum tenuirostre* = *Oxystegus tenuirostris*  
*Trichostomum viridulum* = *Trichostomum crispulum*  
*Thuidium abietinum* = *Abietinella abietinum*  
*Thuidium minutulum* = *Pelekium minutulum*  
*Ulota americana* = *Ulota hutchinsiae*  
*Ulota ludwigii* = *Ulota coarctata*  
*Ulota crispa* var. *norvegica* = *Ulota bruchii*  
*Warnstorfia exannulata* = *Sarmentypnum exannulatum*  
*Warnstorfia sarmentosa* = *Sarmentypnum sarmentosum*  
*Weisia fallax* = *Weissia controversa* var. *crispata*  
*Weisia microstoma* = *Weissia brachycarpa*  
*Weisia rupestris* = *Gymnostomum aeruginosum*  
*Weisia tortilis* = *Weissia condensa*  
*Weisia viridula* = *Weissia controversa*  
*Zygodon viridissimus* var. *rupestris* = *Zygodon rupestris*

#### References

- ANDREEVA E.N. (2012). *Chornomorsk. bot. z.*, **8** (1): 49-55. [АНДРЕЕВА Е.Н. (2012). Новые виды и находки рода *Riccia* (Marchantiophyta) для бриофлоры Украины. *Чорноморськ. бот. ж.*, **8** (1): 49-55]  
 BACHURYNA H.F., MEL'NYCHUK V.M. (1988). Flora mokhiv Ukrayinskoj RSR. Vyp. 2. Kyiv: Nauk. dumka. 180 p. [БАЧУРИНА Г.Ф., МЕЛЬНИЧУК В.М. (1988). Флора мохів Української РСР. Вип. 2. Київ: Наук. думка. 180 с.]  
 BACHURYNA H.F., MEL'NYCHUK V.M. (2003). Flora mokhiv Ukrainy. Vyp. 4. Kyiv: Akademperiodyka. 255 p. [БАЧУРИНА Г.Ф., МЕЛЬНИЧУК В.М. (2003). Флора мохів України. Вип. 4. Київ: Академперіодика. 255 с.]  
 BAKALIN V.A., DUMORT.S. (2005). str. The monographic study of *Lophozia* (Dumort.) Dumort. s. str. Moscow: Nauka. 1-238.  
 BAKALIN V.A., VILNET A.A. (2012). New combinations and new species of *Solenostoma* and *Plectocolea* (Solenostomataceae) from the Russian Far East. *Bryologist*, **115** (4): 566-584.  
 BARSUKOV O.O. (2014). *Chornomorsk. bot. z.*, **10** (3): 305-321. [БАРСУКОВ О.О. (2014). Бриофлора урбанізованих територій Харківської області. *Чорноморськ. бот. ж.*, **10** (3): 305-321]  
 BARSUKOV O.O. (2014). Zb. tez dop. Mizhnar. nauk. konf. (Kherson, 19.05.2014 – 22.05.2014) / vidp. red. M.F. Boiko. Kherson: Ailant. 22-23. [БАРСУКОВ О.О. (2014). Мохоподібні заболочених місцезростань Харківщини. VI Ботанічні читання пам'яті Й.К.Пачоського. Зб. тез доп. Міжнар. наук. конф. (Херсон, 19.05.2014 – 22.05.2014) / відп. ред. М.Ф.Бойко. Херсон: Айлант. 22-23]  
 BARSUKOV O.O. (2015). *Chornomorsk. bot. z.* (in press). [БАРСУКОВ О.О. (2015). Локально рідкісні мохоподібні Харківщини, їх особливості та стан охорони. *Чорноморськ. бот. ж.* (в друці)]  
 BARSUKOV O.O., VIRCHENKO V.M. (2012). *Ukr. botan. zhurn.*, **69** (6): 880-885. [БАРСУКОВ О.О., ВІРЧЕНКО В.М. (2012). *Myrinia pulvinata* (Wahlenb.) Schimp. (Amblystegiaceae) – новий вид і рід для бриофлори України. *Укр. ботан. журн.*, **69** (6): 880-885]  
 BELL, N.E. & HUVONEN, J. (2010). A phylogenetic circumscription of *Polytrichastrum* (Polytrichaceae): reassessment of sporophyte morphology supports molecular phylogeny. *American Journal of Botany*, **97** (4): 566-578.



- BLOM H.H. (2005). A revision of the *Schistidium apocarpum* complex in Norway and Sweden. *Bryoph. Biblioth.*, 49: 1-333.
- ВОЙКО М.Ф. (2011А). *Chornomors'k. bot. z.*, 7 (2): 144-186. [Бойко М.Ф. (2011а). Анотований список мохоподібних Лівобережного Полісся (Україна). *Чорноморськ. бот. ж.*, 7 (2): 144-186]
- ВОЙКО М.Ф. (2004). *Chornomors'k. bot. z.*, 5 (4): 583-588. [Бойко М.Ф. (2004). Анотований список мохоподібних заповідника «Сланецький степ» та прилеглих територій (Миколаївська область, Україна). *Чорноморськ. бот. ж.*, 5 (4): 583-588]
- ВОЙКО М.Ф. (2008). Checklist mokhopodibnykh Ukrainy. Kherson: Aylant. 229 с. [Бойко М.Ф. (2008). Чекліст мохоподібних України. Херсон: Айлант. 229 с.]
- ВОЙКО М.Ф. (2009 в). *Chornomors'k. bot. z.*, 5 (1): 23-27. [Бойко М.Ф. (2009 б). Матеріали до бріофлори Нижньобузьких пісків (Миколаївська область, Україна). *Чорноморськ. бот. ж.*, 5 (1): 23-27]
- ВОЙКО М.Ф. (2009). Mokhopodibni stepovoi zony Ukrainy. Kherson: Aylant. 264 p. [Бойко М.Ф. (2009). Мохоподібні степової зони України. Херсон: Айлант. 264 с.]
- ВОЙКО М.Ф. (2010А). *Chornomors'k. bot. z.*, 6 (1): 95-101. [Бойко М.Ф. (2010А). *Aulacomnium arenopaludosum* Boiko sp.nov. (Bryopsida, Aulacomniaceae) – новий вид мохів зі степової зони України. *Чорноморськ. бот. ж.*, 6 (1): 95-101.
- ВОЙКО М.Ф. (2010В). Chervonyi spysok mokhopodibnykh Ukrainy. Kherson: Aylant. 94 p. [Бойко М.Ф. (2010b). Червоний список мохоподібних України. Херсон: Айлант. 94 с.]
- ВОЙКО М.Ф. (2011 b). *Syntrichia ruralis* var. *polysporogonica* and *Riccia rhenana* var. *violacea* – new infraspecific bryophytes taxa. *Chornomorsk. bot. z.*, 7 (1): 92-93.
- ВОЙКО М.Ф. (2011). *Lazarenkia* (Pottiaceae, Bryopsida) – new genus of mosses and *Lazarenkia kozlovii* – new combination at the species rank. *Chornomorsk. bot. z.*, 7 (4): 400-402.
- ВОЙКО М.Ф. (2012). *Chornomors'k. bot. z.*, 8 (2): 475-462. Бойко М.Ф. (2012). Доповнення до Чекліста мохоподібних України. *Чорноморськ. бот. ж.*, 8 (2): 475-462.
- VOLYUKH V.O. (1995). *Ukr. botan. zhurn.*, 52 (4): 536-541. [Болюх В.О. (1995). Рідкісні мохоподібні центральної частини Подільської височини. *Укр. ботан. журн.*, 52 (4): 536-541]
- BOROS A. (1951). Bryologische Beitrage zur Kenntnis der Flora von Ungarn und der Karpaten. *Acta Biol. Acad. Sci. Hung.*, 2 (3/4): 369-409.
- BOROS A., VAJDA L. (1969). Bryoflora Carpathorum Septentrionali-Orientaliorum.– *Revue Bryol. Et Lichen*, 36 (3-4): 397-450.
- BOROVICHEV E.A., NYPORKO S.A. (2014). *Ukr. botan. zhurn.*, 71 (1): 66-69. [Боровичев Е.А., Ныпорко С.А. (2014). Три таксона из семейства Aitoniaceae, новые для флоры печеночников Украины. *Укр. ботан. журн.*, 71 (1): 66-69]
- BRYOPHYTE biology.(2009). [edited by] Bernard Goffinet & A.Jonathan Shaw. – 2<sup>nd</sup> ed. Cambridge: Cambridge University Press. 565 p.
- BUCK, W. R., GOFFINET, B. and SHAW, A., J. (2000). Novel relationships in pleurocarpous mosses as revealed by cpDNA sequences. *Bryologist*, 103: 774-789.
- CHECKLIST and country status of European bryophytes -towards a new Red List for Europe / N. G. Hodgetts, 2014\_ version 1. pdf <http://ecbbryo.nhmu.hu/node/4>.
- SHERVONA knyha Ukrainy. Roslynnyi svit (1996). red. Yu.R. Shelyah-Sosonko. Kyiv: Ukr. entsyklopedia. 608 p. [ЧЕРВОНА книга України. Рослинний світ (1996). ред. Ю.Р.Шеляг-Сосонко. Київ: Укр. енциклопедія. 608 с.]
- SHERVONA knyha Ukrainy. Roslynnyi svit (2009). red. Ya.P. Didukh. K.: Hlobalkonsaltnyh. 912 p. [ЧЕРВОНА книга України. Рослинний світ (2009). ред. Я.П. Дідух. К.: Глобалконсалтинг. 912 с.]
- ČIHAL L. (2014). Contribution to the occurrence of mosses from *Orthotrichum* and *Nyholmiella* genera in Crimean Peninsula (Ukraine). *Acta Mus. Siles. Sci. Natur.*, 63: 55-59.
- COX C.J. & HEDDERSON T.A.J. (2003). Phylogenetic relationships within the moss family Bryaceae based on chloroplast DNA evidence. *J. Bryol.*, 25 (1): 31-40.
- CRANDALL-STOTLER, B., STOTLER R.E. & LONG D.G. (2009). Phylogeny and classification of the Marchantiophyta. *Edinburgh J. Bot.*, 66: 155-198.
- CRANDALL-STOTLER, B.J., STOTLER R.E. & LONG D.G. (2008). Morphology and classification of the Marchantiophyta – In: Goffinet, B. & A.J. Show (eds.) *Bryophyte Biology*, 2 ed. Cambridge. 1-54.
- CROSBY M.R., MAGIL R. E., ALLEN B., HE S. (1999). A checklist of the mosses. – St Louis: *Missouri Botanical Garden*. 319 p.
- CROSBY, M.R. & BUCK, W.R. (2011). *Nogopterium*, a new name for the genus *Pterogonium* (Musci, Leucodontaceae). *Novon*, 21: 424-425.
- DANILKIV I.S., IGNATOVA E.A., LOBACHEVSKA O.V. (2009). Chromosome numbers of schistidium (Grimmiaceae, Bryophyta). *Arctoa*, 18: 225-228.
- DANYLKIV I.S., DEMKIV O.T., LOBACHEVSKA O.V., MAMCHUR Z.I. (1997). Mokhopodibni – Bryophyta. Biofiznomanittia Karpatskoho biosferneho zapovidnyka. Kyiv: Interekotsentr. 190-198, 576-592. [ДАНИЛКІВ І.С., ДЕМКІВ О.Т., ЛОБАЧЕВСЬКА О.В., МАМЧУР З.І. (1997). Мохоподібні – Bryophyta.

- Біорізноманіття Карпатського біосферного заповідника. Київ: Інтерекоцентр. 190-198, 576-592]
- DANYLKYV I.S., LOBACHEVSKA O.V., MAMCHUR Z.I., SOROKA M.I. (2002). Mokhopodibni Ukrayinskoho Roztochchia. Lviv. 320 p. [ДАНИЛКІВ І.С., ЛОБАЧЕВСЬКА О.В., МАМЧУР З.І., СОРОКА М.І. (2002). Мохоподібні Українського Розточчя. Львів. 320 с.]
- DÜLL R. (1983). Distribution of the European and Macaronesian Liverworts (Hepaticopytina). *Bryologische Beitrage*, **2**: 1-115.
- ELLIS T., BEDNAREC-OCHYRA H., CYKOWSKA B., OCHYRA R. et al. (2012). New national and regional bryophytes records, 30. *Journal of Bryology*, **34** (1): 45-51.
- FELDBERG, K., HEINRICHS, J., SCHMIDT, A.R., VAÑA, J. & SCHNEIDER, H. (2013). Exploring the impact of fossil constraints on the divergence time estimates of derived liverworts. *Plant Systematics and Evolution*. 299: 585-601. [http:// dx.doi. org/10.1007/s00606-012-0745-y](http://dx.doi.org/10.1007/s00606-012-0745-y)
- FELDBERG, K., VAÑA, J., HENTSCHEL, J. & HEINRICHS, J. (2010). Currently accepted species and new combinations in Jam esonielloideae (Adelanthaceae, Jungermanniales). *Cryptogamie, Bryologie*, **31**: 141-146.
- GAPON S.V. (1998). Anotovanyi spysok mokhopodibnykh. Bezsudynni roslyny Livoberezhnoho Lisostepu Ukrainy. Poltava: Verstka. 98-130. [ГАПОН С.В. (1998). Анотований список мохоподібних. Безсудинні рослини Лівобережного Лісостепу України. Полтава: Верстка. 98-130]
- GAPON S.V. (2011). Mokhopodibni Lisostepu Ukrainy (roslynnist ta flora). Avtoref. dys. .. dokt. biol. nauk. – 03.00.05 – botanika. Kyiv. 36 p. [ГАПОН С.В. (2011). Мохоподібні Лісостепу України (рослинність та флора). Автореф. дис. .. докт. біол. наук. – 03.00.05 – ботаніка. Київ. 36 с.]
- GOFFINET B., BUCK W.R. (2004). Systematics of the bryophyte (mosses): from molecules to a revised classification. In: Goffinet B., Hollowel V.C., Magill R.E., eds. *Molecular systematics of bryophytes*. – St Louis: Missouri Botanical Garden Press. 205-223.
- GOFFINET, B., SHAW, A.J., COX, C.J., WICKETT, N.J. & BOLES, S. (2004). Phylogenetic inferences in the Orthotrichoideae (Orthotrichaceae: Bryophyta) based on variation in four loci from all genomes. *Monographs in Systematic Botany from the Missouri Botanical Garden*, **98**: 270-289.
- GOFINET B., BUCK W.R., SHAW A.J. (2008). Morphology, anatomy and classification of the Bryophyta. In: Goffinet, B. & A.J. Show (eds.) *Bryophyte Biology*, 2 ed. Cambridge. 55-138.
- GREVEN H.C. (1995). *Grimmia* Hedw. (Grimmiaceae, Musci) in Europe.– Leiden: Backhuys Publishers. 1995. 146 p.
- GRUNDMANN, M., SCHNEIDER, H., RUSSELL S.J. & VOGEL, J.C. (2006). Phylogenetic relationships of the moss genus *Pleurochaete* Lindb. (Bryales: Pottiaceae) based on chloroplast and nuclear genomic markers. *Organisms diversity and evolution*, **6**: 33-45.
- HEDENAS, L. & ROSBORG, C. (2008). *Pseudocalliergon* is nested within *Drepanocladus* (Bryophyta: Amblystegiaceae). *Lindbergia*, **33**: 67-74.
- HEDENÄS, L. (2006). Additional insights into the phylogeny of *Calliergon*, *Loeskygnum*, *Straminergon* and *Warnstorfia* (Bryophyta: Calliergonaceae). *J. Hatt. Bot. Lab.*, 100: 125-134.
- HEDENS, L. (2001). Environmental factors potentially affecting character states in pleurocarpous mosses. *Bryologist*, 104: 72-91.
- HENTSCHEL J., PATON J.A., H. SCHNEIDER & HEINRICHS J. (2007). Acceptance of *Liochlaena* Nees and *Solenostoma* Mitt., the systematic position of *Eremonotus* Pearson and notes on *Jungermannia* L. s.l. (Jungermanniidae) based on chloroplast DNA sequence data. *Pl. Syst. Evol.*, **268**: 147-157.
- HE-NYNGREN X., JUSLEN A., GLENNY D. & PIIPPO S. (2006). Illuminating the evolutionary history of liverworts (Marchantiophyta) – towards a natural classification. *Cladistics*, **22**: 1-31.
- HILL, M.O., BELL, N., BRUGGEMAN-NANNENGA et al. An annotated checklist of the mosses of Europe and Macaronesia. *Journal of Bryology*, **28**: 198-267.
- HILL, M.O., BLACKSTOCK T.H., LONG D.G. & ROTHERO G.P. (2008). A Checklist and Census Catalogue of British and Irish Bryophytes. BBS. 1-184.
- HOLYOAK, D.T. & PEDERSEN, N. (2007). Conflicting molecular and morphological evidence of evolution within the Bryaceae (Bryopsida) and its implications for generic taxonomy. *Journal of Bryology*, **29**: 111-124.
- HOLYOAK, D.T. (2010). Notes on taxonomy of some European species of *Ephemerum* (Bryopsida: Pottiaceae). *Journal of Bryology*, **32**: 122-132.
- HUTTUNEN S. (2004). Phylogeny and evolutionary relationships of Brachytheciaceae and Meteoriaceae. *Publications in Botany from the University of Helsinki*, **34**: 1-33.
- HUTTUNEN S. and IGNATOV M.S. (2004). Phylogenetic analyses of Brachytheciaceae (Bryophyta) based on morphology, and sequence level data. *Cladistics*, 4 (20): 151-183.
- HUTTUNEN, S. & IGNATOV, M.S. (2010). Evolution and taxonomy of aquatic species in the genus *Rhynchostegium* (Brachytheciaceae, Bryophyta). *Taxon*, **59**: 791-808.
- IGNATOV M. S., MILUTINA I.A. (2007). On *Sciuro-hypnum oedipodium* and *Sciuro-hypnum curtum* (Brachytheciaceae, Bryophyta). *Arctoa*, **16**: 47-61.

- IGNATOV M.S. and HUTTUNEN S. (2002). Brachytheciaceae (Bryophyta) – family of sibling genera. *Arctoa*, **11**: 229-244.
- IGNATOV M.S., AFONINA O.M. (1992). (eds.). Check-list of the mosses of the former USSR. *Arctoa*, **1**: 1-85.
- IGNATOVA E.A., SEREGIN A.P. (2007). New moss records from the Autonomous Republik of Crimea, Ukraine. *Arctoa*, **16**: 209-210.
- INTERNET resources. <http://www.catalogueoflife.org/annual-checklist/2012/details/species/id/7135747> Ukraine & Moldova Catalogue of Life: 2012 Annual Checklist.
- IUCN 2014. *Guidelines for using the IUCN Red List categories and criteria. Version 11 (February 2014)*. Gland, International Union for the Conservation of Nature.
- KONSTANTINOVA N.A. & VILNET A.A. (2009). New taxa and new combinations in *Jungermanniales (Hepaticae)*. *Arctoa*, **18**: 65-67.
- KONSTANTINOVA N.A., BAKALIN V.A., ANDREEVA E.N., BEZGODOV A.G., BOROVICHEV E.A., DULIN M.V., MAMONTOV YU.S. (2009). Checklist of liverworts (Marchantiophyta) of Russia. *Arctoa*, **18**: 1-63.
- KOPONEN, T. & ISOVIITA, P. (2010). *Philonotis capillaris* Lindb. and *P. arnellii* Husn.; one moss, two names. *Cryptogamie, Bryologie*, **31**: 75-94.
- KRUPA I. (1885). Zapyski bryologiczne z okoloc Lwowa, Krakowa i Wschodnich Karpat. *Spraw. komis. Fizjogr*, **19**: 133-167.
- KUČERA J., VAŇA J. (2009). Chek- and Red List of bryophytes of the Czech Republic. *Preslia*, **75**: 193-222.
- KUZYARIN O.T. (2012). *Ukr. botan. zhurn.*, **69** (3): 16-22. [КУЗЯРИН О.Т. (2012). Нові відомості про поширення адвентивного моху *Campylopus introflexus* (Hedw.) Brid. в Україні. *Укр. ботан. журн.*, **69** (3): 16-22]
- LAZARENKO A.S. (1955). Opredelytel listvennykh mkhov Ukrainy. Kiev: Yzd-vo AN USSR. 466 p. [ЛАЗАРЕНКО А.С. (1955). Определитель листовных мхов Украины. Киев: Изд-во АН УССР. 466 с.]
- LAZARENKO A.S., VYSOTSKAIA E.Y., LESNYAK E.N. (1971). Atlas khromosom listvennykh mkhov SSSR. Kiev: Nauk. dumka. 143 p. [ЛАЗАРЕНКО А.С., ВЫСОЦКАЯ Е.И., ЛЕСНЯК Е.Н. (1971). Атлас хромосом листовных мхов СССР. Киев: Наук. думка. 143 с.]
- LEWINSKY J. (1993). A synopsis of the genus *Orthotrichum* Hedw. (Orthotrichaceae, Musci). – *Bryobrothera*, **2**: 1-59.
- LOBACHEVSKA O.V., GARON S.V. (1988). *Ukr. botan. zhurn.*, **45** (3): 49-52. [ЛОБАЧЕВСЬКА О.В., ГАПОН С.В. (1988). Хромосомні числа листовних мохів України. *Укр. ботан. журн.*, **45** (3): 49-52]
- LOBACHEVSKA O.V., SOKHANCHAK R.R. (2010). *Ukr. botan. zhurn.*, **67** (3): 432-438. [ЛОБАЧЕВСЬКА О.В., СОХАНЬЧАК Р.Р. (2010). *Campylopus introflexus* (Hedw.) Brid. – адвентивний вид моху для флори України. *Укр. ботан. журн.*, **67** (3): 432-438]
- MELNYCHUK V.M. (1970). Opredelitel listvennykh mkhov srednei polosy i yuga Evropeyskoi chasti SSSR. Kiev: Nauk. dumka. 442 p. [МЕЛЬНИЧУК В.М. (1970). Определитель листовных мхов средней полосы и юга Европейской части СССР. Киев: Наук. думка. 442 с.]
- MUNOZ J. & PANDO F. (2000). A word synopsis of the genus *Grimmia* (Musci: Grimmiaceae). St. Luis: Missouri Bot. Gard. **85**: 133 p.
- NYPORKO S.O., PARTYKA L. JA. (2011). Annotated list bryophytes of granitic canyons // Annotated list lichen-forming, bryophytes and terrestrial algae of granitic canyons of Ukraine. Kyiv: Alterpres. 342-347.
- OCHYRA, R., ZARNOWIEC, J. & BEDNAREK-OCHYRA, H. (2003). *Census Catalogue of Polish mosses*. Krakow, Polish Academy of Sciences, W. Szafer Institute of Botany.
- OLSSON, S., ENROTH, J., BUCHBENDER, V., HEDENAS, L., HUTTUNEN, S. & QUANDT, D. (2011). *Neckera* and *Thamnobryum* (Neckeraceae, Bryopsida) – paraphyletic assemblages. *Taxon*, **60**: 36-50.
- PARTYKA L.YA. (2005). Brioflora Kryma. Kiev: Fitosotsiotsentr. 170 p. [ПАРТЫКА Л.Я. (2005). Бриофлора Крима. Киев: Фитосоциоцентр. 170 с.]
- PARTYKA L.YA., BOIKO M.F. (1980). *Ukr. botan. zhurn.*, **37** (4): 85-88. [ПАРТИКА Л.Я., БОЙКО М.Ф. (1980). Бриофлора урочища Лиса гора (м. Київ). *Укр. ботан. журн.*, **37** (4): 85-88]
- PARTYKA L.YA., SLOBODYAN M.P. (1989). *Ukr. botan. zhurn.*, **45** (3): 38-41. [ПАРТИКА Л.Я., СЛОБОДЯН М.П. (1989). Нові для бриофлори Криму види мохоподібних. *Укр. ботан. журн.*, **45** (3): 38-41]
- PLAŠEK, V., SAWICKI, J., MARKOVA, I. & WIERZCHOLSKA, S. (2011). *Orthotrichum affine* var. *bohemicum* (Orthotrichaceae), a new variety of epiphytic moss from the Czech Republic. *Acta Societatis Botanicorum Poloniae*, **80**: 335-340.
- POTEMKIN A.D. (2002). Phylogenetic system and classification of the family Scapaniaceae Mig. emend. Potemkin (Hepaticae). *Ann. Bot. Fennici.*, **39**: 309-334.
- RABYK I.V., DANYLKIV I.S. (2004). Mokhopodibni (Bryophyta) ta antotserotopodibni (Anthocerothophyta) Ukrayinskoho Roztochchia. Y.K. Pachoskyi ta suchasna botanika (Vidp. red. M.F. Boiko). Kherson: Aylant. 66-73. [РАБИК І.В., ДАНИЛКІВ І.С. (2004). Мохоподібні (Bryophyta) та антоцеротоподібні (Anthocerothophyta) Українського Розточчя. Й.К. Пачоський та сучасна ботаніка (Відп. ред. М.Ф. Бойко). Херсон: Айлант. 66-73]
- RABYK I.V., DANYLKIV I.S. (2008). Ridkisni dlia Ukrainy vydy mokhopodibnykh (Hepaticophyta, Bryophyta) bolota Nemyriv (Lvivska obl.). Znachennia ta perspektyvy statsionarnykh doslidzhen dlia

- zberezhennia bioriznomanittia: Mat-ly mizh nar. nauk. konf.- Lviv-Pozhyzhevska, 23-27 veresnya 2008. Lviv. 348-349. [РАБИК І.В., ДАНИЛКІВ І.С. (2008). Рідкісні для України види мохоподібних (Hepaticophyta, Bryophyta) болота Немирів (Львівська обл.). Значення та перспективи стаціонарних досліджень для збереження біорізноманіття: Мат-ли між нар. наук. конф.- Львів-Пожижевська, 23-27 вересня 2008 р. Львів. 348-349]
- RAHULINA M.YE., ISIKOV V.P. (2012). *Chornomors'k. bot. z.*, **8** (2): 240-243. [РАГУЛІНА М.Є., ІСІКОВ В.П. (2012). *Syntrichia laevipila* Brid. – новий вид моху для флори України. *Чорноморськ. бот. ж.*, **8** (2): 240-243]
- REJMENT-GROCHOWSKA J. (1958). WAtrobowce Bieszad i niektórych innych czesci Karpat Wschodnich w zbirach J. Lobazewskiego. *Acta Soc.Bot. Poloniae*, XXVII (2).
- RENZAGLIA K.S., VILLARREAL J.C., DUFF R.J. (2008). New insights into morphology, anatomy and systematic of hornworts. – In: Goffinet, B. & A.J. Shaw (eds.) *Bryophyte Biology*, 2 ed. Cambridge. 139-171.
- ROO DE, R.T., HEDDERSON, T.A. & SODERSTROM, L. (2007). Molecular insights into the phylogeny of the leafy liverwort family Lophoziaceae Cavers. *Taxon*, **56**: 301-314.
- ROS, R.M. & HERRNSTADT, I. (2010). New taxonomical data in the genus *Tortula* (Pottiaceae, Bryophyta). *Tropical bryology*, **31**:150-153.
- ROS, R.M., MAZIMPAKA, V., ABOU-SALAMA, U., ALEFFI, M., BLOCKEEL, T.L., BRUGUES, M., CROS, R.M., DIA, M.G., DIRKSE, G.M., DRAPER, I., EL-SAADAWI, W., ERDAĞ, A., GANEVA, A., GABRIEL, R., GONZÁLEZ-MANCEBO, J.M., GRANGER, C., HERRNSTADT, I., HUGONNOT, V., KHALIL, K., KURSCHNER, H., LOSADA-LIMA, A., LUÍS, L., MIFSUD, S., PRIVITERA, M., PUGLISI, M., SABOVljević, M., SERGIO, C., SHABBARA, H.M., SIM-SIM, M., SOTIAUX, A., TACCHI, R., VANDERPOORTEN, A. & WERNER, O. (2013). Mosses of the Mediterranean, an annotated checklist. *Cryptogamie, Bryologie*, **34**: 99-283.
- ROS, R.M., MUNOZ, J., WERNER, O. & RAMS, S. (2008). New typifications and synonyms in *Tortula* sect. *Pottia* (Ehrh. ex Rchb.) Kindb. (Pottiaceae, Musci). *Taxon*, **57**: 279-288.
- RUBASINGHE S.C.K., LONG D.G. & MILNE R. (2011A). A new combination and three new synonyms in the genus *Clevea* Lindb. (Marchantiopsida, Cleveaceae). *Journal of Bryology*, **33** (2): 168-169.
- RUBASINGHE, S.C.K., R. MILNE, L.L. FORREST & D.G. Long 2011b. Realignment of the Genera of Cleveaceae (Marchantiopsida, Marchantiida). *The Bryologist*, **114**: 116-127.
- SCHUMACKER R. & VAÑA J. (2005). Identification keys to the liverworts and hornworts of Europe and Macaronesia (distribution and status). Poznan, Sorus. 1-212.
- SENECA A., SÖDERSTRÖM L. (2009). Sphagnophyta of Europe and Macaronesia: a checklist with distribution data. *Journal of Bryology*, **31**: 243-254.
- SLOBODYAN M.P. (1950). *Botan. zhurn. AN URSSR*, **7** (2): 80-82. [СЛОБОДЯН М.П. (1950). Бріофлористичні новинки з Свидівця (Східні Карпати). *Ботан. журн. АН УРСР*, **7** (2): 80-82]
- SÖDERSTRÖM L., DE ROO R., HEDDERSON T. (2010). Taxonomic novelties resulting from recent reclassification of the Lophoziaceae/Scapaniaceae clade. *Phytotaxa*, **3**: 47-53.
- SÖDERSTRÖM L., HAGBORG A., CROSBY M. R. & KONRAT M. VON. EARLY (2012). Land Plants Today: Index of Liverworts & Hornworts 2009–2010. *Phytotaxa*, **63**: 21–68 (2012) www.mapress.com/phytotaxa.
- SÖDERSTRÖM L., URMI E AND VAÑA J. (2002). Distribution of Hepaticae and Anthocerotae in Europe and Macaronesia. *Lindbergia*, **27**: 3-47.
- STEFUREAK G. (1936). Consideration asupra vegetatici si florei muchilor (Bryophytes) din Vales Vijnicioarei (Bucovina). *Bull. Facult. de Stiinte in Cernauti*, **5** (3): 8-15.
- SZWEYKOWSKI J., BUCZKOWSKA, ODRZYKOSKI I.J. (2005). *Conocephalum salebrosum* (Marchantiopsida, Conocephalaceae) – a new holarctic liverwort species. *Plant Systematics and Evolution*, **253**:133-158.
- TSUBOTA H., ARIKAWA T., AKIYAMA H., LUNA E.DE, GONZALES D., HIGUCHI M., DEGUCHI H. (2002). Molecular phylogeny of hypnobryalean mosses as inferred from the large scale dataset of chloroplast rbcL, with special reference on the Hypnaceae and possibly related families. *Hikobia*, **13**. 645-665.
- VAÑA J., SÖDERSTRÖM L., HAGBORG A., KONRAT M. VON. (2013). Notes on Early Land Plants Today. 33. Notes on Anastrophyllaceae (Marchantiophyta). *Phytotaxa*, **81** (1): 26-32. www.mapress.com/phytotaxa/
- VAÑA J., SÖDERSTRÖM L., HAGBORG A., VON KONRAT M. (2012). Notes on Early Land Plants Today. 8. New combinations and some lectotypifications in *Mesoptychia*. *Phytotaxa*, **6**. 52-56.
- VAÑA J., SÖDERSTRÖM L., HAGBORG A., VON KONRAT M. (2013). Notes on Early Land Plants Today. 41. New combinations and synonyms in Cephaloziaceae (Marchantiophyta). *Phytotaxa*, **112** (1): 7-15.
- VAÑA J., VIRCHENKO V.M. (1993). *Ukr. botan. zhurn.*, **50** (4): 83-93. [ВАНЯ І., ВІРЧЕНКО В.М. (1993). Зведений список антоцеротів та печіночників України. *Укр. ботан. журн.*, **50** (4): 83-93]
- VANDERPOORTEN, A. & HEDENAS, L. (2009). New combinations in the Amblystegiaceae. *Journal of Bryology*, **31**: 129-132.
- VANDERPOORTEN, A., HEDENÄS, L., COX, C. J. AND SHAW, A. J. (2002). Circumscription, classification, and taxonomy of the Amblystegiaceae (Bryopsida) inferred from nuclear and chloroplast DNA sequence data and morphology. *Taxon*, **51**: 115-122.

- VILNET A.A., KONSTANTINOVA N.A., TROITSKY A.V. (2010). Molecular insight on phylogeny and systematics of the Lophoziaceae, Scapaniaceae, Gymnomitriaceae and Jungermanniaceae. *Arctoa*, **19**: 31-50.
- VILNET A.A., KONSTANTINOVA N.A., TROITSKY A.V. (2011). Taxonomical rearrangements of Solenostomataceae (Marchantiophyta) with description of a new family Endogemmataceae based on trnL-F cpDNA analysis. *Folia Cryptogamica Estonica*, **48**: 125-133.
- VILNET A.A., KONSTANTINOVA N.A., TROITSKY A.V. (2012). Molecular phylogeny and systematics of the suborder Cephaloziineae with special attention to the family Cephaloziaceae s.l. (Jungermanniales, Marchantiophyta). *Arctoa*, **21**: 113-132.
- VIRCHENKO V.M. (2000). Spysok bokoplidnykh mokhiv Ukrainy. Kyiv: Znannia. 32 p. [ВІРЧЕНКО В.М. (2000). Список бокоплідних мохів України. Київ: Знання. 32 с.]
- VIRCHENKO V.M. (2001b). Spysok verkhoplidnykh mokhiv Ukrainy. Kyiv: Znannia. 56 p. [ВІРЧЕНКО В.М. (2001b). Список верхоплідних мохів України. Київ: Знання. 56 с.]
- VIRCHENKO V.M. (2005). *Ukr. botan. zhurn.*, **62** (5): 715-718. [ВІРЧЕНКО В.М. (2005). Рід *Zygodon* Hook etr Taylor (Orthotrichaceae, Bryophyta) в Україні. *Укр. ботан. журн.*, **62** (5): 715-718]
- VIRCHENKO V.M. (2010). *Visnyk Uzhhorods'koho universytetu*, Seriya Biologhiia, **27**: 85-87. [ВІРЧЕНКО В.М. (2010). Нові відомості про рід *Pohlia* в Україні. *Наук. вісник Ужгородського університету, Серія Біологія*, **27**: 85-87]
- VIRCHENKO V.M. (2012). *Dichelyma capillaceum* (Dicks.) Myrin (Bryophyta) – kandydat do «Chervonoï knyhy Ukrainy». Rastytelnyi mir v Krasnoi knyhe Ukrainy: realizatsiia hlobalnoi stratehii sokhraneniia rastenii. Mat. II Mezhdunar. nauchn. konf., 9–12 oktiabria 2012, Uman, Cherkasskaia oblast. 196-197. [ВІРЧЕНКО В.М. (2012). *Dichelyma capillaceum* (Dicks.) Myrin (Bryophyta) – кандидат до «Червоної книги України». Растительный мир в Красной книге Украины: реализация глобальной стратегии сохранения растений. Мат. II Междунар. научн. конф., 9 – 12 октября 2012, Умань, Черкасская область. 196-197]
- VIRCHENKO V.M., MALA YU.I. (2014). Novi ta ridskisi mokhopodibni dlia Krymu. VI Botanichni chytannia pamiaty Y.K. Pachoskoho. Zb. tez dop. Mizhnar. nauk. konf. (Kherson, 19.05.2014 – 22.05.2014), vidp. red. M.F. Boiko. Kherson: Ailant. 25-26. [ВІРЧЕНКО В.М., МАЛА Ю.І. (2014). Нові та рідкісні мохоподібні для Криму. VI Ботанічні читання пам'яті Й.К.Пачоського. Зб. тез доп. Міжнар. наук. конф. (Херсон, 19.05.2014 – 22.05.2014), відп. ред. М.Ф.Бойко. Херсон: Айлант. 25-26]
- VIRCHENKO V.M., ORLOV O.O. (2011). *Visnyk Zhyt. nats. ahrarn. un-ta*, **1** (28): 314-322. [ВІРЧЕНКО В.М., ОРЛОВ О.О. (2011). Нові та рідкісні мохоподібні для Житомирської області. *Вісник Жит. нац. аграрн. ун-та*, **1** (28): 314-322]
- VIRCHENKO V.M., PARTYKA L.YA. (2010). Mat-ly do brioflory Mezynskoho NPP. Mat-ly mizhn. nauk.-prakt. konf. «Bioriznomanittia: teoriya, praktyka ta metodychni aspekty vuvchennia u zahalnoosvitnii ta vyshchii shkoli». Poltava. 56-61. [ВІРЧЕНКО В.М., ПАРТИКА Л.Я. (2010). Матеріали до бріофлори Мезинського НПП. Мат-ли міжн. наук.-практ. конф. «Біорізнманіття: теорія, практика та методичні аспекти вивчення у загальноосвітній та вищій школі». Полтава. 56-61]
- VIRCHENKO V.M., VAŇA J. (2000). Spysok pechinochnykv, antotserotiv ta sfahnovykh mokhiv Ukrainy. Kyiv: Znannia. 29 p. [ВІРЧЕНКО В.М., ВАНЯ І. (2000). Список печіночників, антоцеротів та сфагнових мохів України. Київ: Знання. 29 с.]
- VYSOTSKA O.I. (1984b). *Ukr. botan. zhurn.*, **41** (5): 29-33. [ВИСОЦЬКА О.І. (1984b). Порівняльна характеристика *Brachythecium starkei* (Brid.) B.S.G. i *B. curtum* (Lindb.) Limprg. західної частини СРСР. *Укр. ботан. журн.*, **41** (5): 29-33]
- WERNER, O., PATINO, J., GONZALES-MANCEBO, J.M. & ROS, R.M. (2007). The taxonomic status of *Platyhypnidium torrenticola* based on ITS sequence data. *Cryptogamie, Bryologie*, **28**: 187-195.
- WERNER, O., RAMS, S., KUČERA, J., LARRAÍN, J., AFONINA, O.M., PISA, S. & ROS, R.M. (2013). New data on the moss genus *Hymenoloma*, with special reference to *H. mulahaceni*. *Cryptogamie, Bryologie*, **34** (1): 13-30.
- WERNER, O., ROS, R.M. & GRUNDMANN, M. (2005). Molecular phylogeny of Trichostomoideae (Pottiaceae, Bryophyta) based on nrITS sequence data. *Taxon*, **54**: 361-368.
- WERNER, O., ROS, R.M., CANO, M.J. & GUERRA, J. (2002). *Tortula* and some related genera (Pottiaceae, Musci): phylogenetic relationships based on chloroplast rps4 sequences. *Plant systematics and evolution*, **235**: 197-207.
- WERNER, O., ROS, R.M., CANO, M.J. & GUERRA, J. (2004). Molecular phylogeny of Pottiaceae (Musci) based on chloroplast rps4 sequence data. *Plant systematics and evolution*, **243**: 147-164.
- YATSENYUK, S.P., KONSTANTINOVA N.A., IGNATOV M.S., HYVONEN J. & TROITSKY A.V. (2004). On phylogeny of Lophoziaceae and related families (Hepaticae, Jungermanniales) based on trnL-trnF intron-spacer sequences of chloroplast DNA. – In: (Goffinet B., V. Hollowell & R. Magill eds.) Molecular Systematics of Bryophytes. Monogr. Syst. Bot. St. Louis, Missouri Bot. Gard. Press. **98**. 150-167.
- ZANDER R.H. (1993). Genera of the Pottiaceae: mosses of harsh environments. *Bull. Buffalo Soc. Nat. Sci.*, **32** (1): 378 p.

- ZEROV D.K. (1964). Flora pečinochnykh i sfahnovykh mokhiv Ukrayiny. K.: Nauk. dumka. 355 p. [ЗЕРОВ Д.К. (1964). Флора печіночних і сфагнових мохів України. К.: Наук. думка. 355 с.]
- ZEROV D.K., PARTYKA L.YA. (1975). Mokhopodibni Ukrainskykh Karpat. K.: Nauk. dumka. 230 p. [ЗЕРОВ Д.К., ПАРТИКА Л.Я. (1975). Мохоподібні Українських Карпат. К.: Наук. думка. 230 с.]

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