

CHECK-LIST OF MOSSES OF EAST EUROPE AND NORTH ASIA  
СПИСОК МХОВ ВОСТОЧНОЙ ЕВРОПЫ И СЕВЕРНОЙ АЗИИ

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Abstract

Check-list of mosses of the East Europe and North Asia includes data on 1302 species, 8 subspecies and 42 varieties occurring in Lithuania, Latvia, Estonia, Belarus, Ukraine, Moldova, Russia, Georgia, Armenia, Azerbaijan, Kazakhstan, Turkmenistan, Uzbekistan, Kyrgyzstan, and Tadjikistan. Territories of Ukraine and Russia are subdivided into 3 and 19 regions respectively. Each record for a country and region has a reference to the relevant publication.

Резюме

Список мхов Восточной Европы и Северной Азии включает сведения о 1302 видах, 8 подвидах и 42 разновидностях мхов, встречающихся в Литве, Латвии, Эстонии, Беларуси, Украине, Молдове, России, Грузии, Армении, Азербайджане, Казахстане, Туркменистане, Узбекистане, Киргизии, Таджикистане. Территории Украины и России подразделены дополнительно на 3 и 19 регионов соответственно. Все указания на нахождение вида в странах или регионах сопровождаются ссылками на соответствующие источники информации.

Comb. nov.: *Claopodium rostratum* (Hedw.) Ignatov, *Dicranella curvipes* (Lindb.) Ignatov, *Hygrohypnella bestii* (Renauld & Bryhn) Ignatov & Ignatova, *Lindbergia grandiretis* (Lindb. ex Broth.) Ignatov & Ignatova, *Ochyraea duriuscula* (De Not.) Ignatov & Ignatova, *Sciuro-hypnum altaicum* (Ignatov) Ignatov, *Stereodon subimponens* var. *ulophyllum* (Müll. Hal.) Afonina.

<sup>1</sup> – Author addresses are given in the end of the paper. – Адреса авторов даны в конце статьи.

## INTRODUCTION

In 1992 the first check-list of mosses of the territory of East Europe and North Asia was published (Ignatov & Afonina, 1992). Check-lists of this kind become out of date within 10-15 years, as can be seen from the history of checklists of Europe (Corley & al., 1981; Corley & Crundwell, 1991; Hill & al., 2006), Japan (Iwatsuki & Noguchi, 1973; Iwatsuki, 1991; Iwatsuki, 2004), China (Redfeam & Wu, 1986; Redfeam & al., 1996), North America (Crum & al., 1979; Anderson & al., 1990), etc. Correspondingly, the first check-list of East Europe and North Asia also became out of date and therefore has to be revised. Mistakes in the first check-list were found to be rather numerous, urging us to correct them in a publication covering preferably the same territory.

Recent decades were quite fruitful for bryology in the states of the East Europe and North Asia. Descriptive floras and handbooks were published for Estonia (Ingerpuu & al., 1998), Lithuania (Jukoniene, 2003), Belarus (Rykovsky & Maslovsky, 2004), Karelia (Abramov & Volkova, 1998), Middle European Russia (Ignatov & Ignatova, 2003-2004); four-volumed "Moss flora of Ukraine" (Bachurina & Melnichuk, 1987-1989, 2003) has been completed; the first volume of "Moss flora of Tadjikistan" (Mamatkulov, 1990) was published. New check-lists, conspectes and annotated lists appeared for many large areas: Eurasian Arctic (Afonina & Czernyadjeva, 1995), Karelia (Volkova & Maksimov, 1993), Komi (Zheleznova, 1994), Urals (Dyachenko, 1997), Central Russian Upland (Popova, 2002), West Siberia (Lapshina & Muldiyarov, 1998), Siberia as a whole (Bardunov, 1992), Yakutia (Ivanova & al., 2005), Kamchatka (Czernyadjeva, 2005), Chukotka (Afonina, 2004a), Ukraine (Virchenko, 2000, 2001; Virchenko & Vaňa, 2000), Georgia (Chikovani & Svanidze, 2004), Armenia (Manakyan, 1995), Kabardino-Balkaria (Kharzinov & al., 2004), Crimea (Partyka, 2005), Middle Asia (Mamatkulov & al., 1998). Important contributions were published in species lists of provinces and nature reserves.

Species are annotated with their distribution up to the country level, except Ukraine (subdivided into 3 regions: Carpathians, main lowland territory and Crimea), and Russia (subdivided into 19 regions, cf. Fig. 1, Table 1).

## ВВЕДЕНИЕ

В 1992 году был издан первый чеклист мхов территории Восточной Европы и Северной Азии (Ignatov & Afonina, 1992). Как показывает история, такого рода работы устаревают за 10-15 лет. Это можно видеть на примерах чеклистов мхов Европы (Corley & al., 1981; Corley & Crundwell, 1991; Hill & al., 2006), Японии (Iwatsuki & Noguchi, 1973; Iwatsuki, 1991; Iwatsuki, 2004), Китая (Redfeam & Wu, 1986; Redfeam & al., 1996), Северной Америки (Crum & al., 1979; Anderson & al., 1990) и др. Естественно, что и первый чеклист Восточной Европы и Северной Азии уже сильно устарел и требует переиздания. Ошибки, допущенные в нем, оказались весьма многочисленными, и исправлять их, конечно, целесообразно в работе, охватывающей ту же самую территорию.

Последние десятилетия стали очень продуктивными в бриофлористике данной территории. Были изданы иллюстрированные флоры и определители Эстонии (Ingerpuu & al., 1998), Литвы (Jukoniene, 2003), Беларуси (Рыковский, Масловский, 2004), Карелии (Абрамов, Волкова, 1998), средней части Европейской России (Игнатов, Игнатова, 2003-2004), завершено издание четырехтомной «Флоры листяних мохів України» (Бачурина, Мельничук, 1987-1989, 2003), издан первый том флоры мхов Таджикистана (Маматкулов, 1990). Чеклисты, конспекты и аннотированные списки видов были опубликованы по многим крупным регионам: Арктике Евразии (Afonina & Czernyadjeva, 1995), Карелии (Волкова, Максимов, 1993), Коми (Железнова, 1994), Уралу (Дьяченко, 1997), Среднерусской возвышенности (Попова, 2002), Западной Сибири (Lapshina & Muldiyarov, 1998), Сибири в целом (Бардунов, 1992), Якутии (Иванова и др., 2005), Камчатке (Czernyadjeva, 2005), Чукотке (Афонина, 2004a), Украине (Вірченко, 2000, 2001; Вірченко, Ваня, 2000), Грузии (Chikovani & Svanidze, 2004), Армении (Манакян, 1995), Кабардино-Балкарии (Kharzinov & al., 2004), Крыму (Партыка, 2005), странам Средней Азии (Маматкулов и др., 1998). Большой вклад внесли каталоги мхов отдельных областей и республик, а также заповедников.

Для видов указано распространение с точностью до страны, кроме Украины, которая подразделяется на Карпаты, основную равнинную территорию и Крым, и России, в которой выделяется 19 регионов (Рис. 1, Табл. 1).

Unlike the first check-list, each record for a particular region has a reference to the relevant literature source. Doing this, we include only the most comprehensive publication(s): if a recent checklist for a region exists it was the only publication cited. Most of them are included in the Table 1.

There are a lot of records scattered in numerous publications, which we tried to get together in the present checklist. We faced also a problem with the numerous herbarium specimens, quite important, but still unpublished. By agreement with the regional contributors, most of these collections were presented in this volume of *Arctoa* in the section "New Records", which, we hope, will speed up the presenting of interesting and valuable findings.

The wide usage of DNA data in systematics in the last decade has brought a lot of changes in the understanding of moss phylogeny, resulting in alterations in moss taxonomy and nomenclature and especially in those of pleurocarps. This checklist uses mostly the system of Goffinet & Buck (2004), with the alterations for pleurocarps of Ignatov & Ignatova (2004). The latter changes are commented on by Ignatov & al. (2006), and they are mostly not repeated in the present paper.

Author citation follows mostly Brummit & Powell (1992). The use of 'in' to indicate description of a taxon by one author in a paper published by another author is not used here. This style was widely used in 1990s, including the first checklist (Ignatov & Afonina, 1992), but brought nothing but inconvenience of citations. We agree that the 'in' has to be restricted to the nomenclature citation, but not be included in the ordinary text.

The citation of authors of "Bryologia Europaea" is still problematic and incongruent between authors. We continue to attribute the authorship of the book to all three authors, citing them Bruch et al. (equivalent to B.S.G.), in view of no internal evidence to restrict the authorship to one or two of them.

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В отличие от первого чеклиста, все указания на нахождение вида в том или ином районе имеют ссылку на публикацию(и), обычно наиболее представительную(ые) для региона (при наличии недавней сводки мы ею одной и ограничивались). Список таких работ дан в таблице 1.

Масса сведений о находках видов рассеяна в многочисленных публикациях, которые мы постарались суммировать в чеклисте. Неопубликованные ранее гербарные сборы, среди которых много интересных коллекций, в значительной степени представлены в данном томе в рубрике "Новые находки", которая, мы надеемся, позволит и в дальнейшем ускорить публикацию интересных флористических новинок.

Масштабные исследования ДНК внесли в последнее десятилетие значительные изменения в представление об эволюции мхов. Это повлияло и на систематику, и на номенклатуру, в особенности бокоплодных мхов. В настоящем чеклисте мы следуем преимущественно системе Goffinet & Buck (2004), а для бокоплодных – с изменениями Игнатова и Игнатовой (2004). Обсуждение данного вопроса дано Ignatov & al. (2006) и здесь не комментируется.

Цитирование авторов дается по Brummit & Powell (1992). Факт описания таксона одним автором в работе другого, влекущий 'in' между авторами, опускается – этот необходимый элемент цитирования авторства нужен для номенклатурных цитат, но использование его при обычном цитировании авторов излишне (такая практика появилась в 1990-х годах и первый чеклист ей следовал, но ни к чему, кроме излишней громоздкости, она не привела).

Цитирование "Bryologia Europaea" продолжает оставаться неоднозначным и создавать дополнительные проблемы. В данной версии чеклиста мы используем Bruch et al. (как полный эквивалент B.S.G.), не считая обоснованным приписывать авторство тех или иных видов одному или двум авторам этой книги.

#### БЛАГОДАРНОСТИ

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Table 1. Abbreviation of regions in the present check-list (cf. Fig. 1) and main sources of the regional information. – Табл. 1. Сокращения районов чеклиста (см. Рис. 1) и основные источники информации по их флорам мхов.

Region abbreviation	Region	Main source(s) of information
LTV	Lithuania (Lietuva)	Jukoniene, 2003
LAT	Latvia	Abolina, 2001
EST	Estonia	Ingerpuu & al., 1998
BEL	Belarus	Rykovsky & Maslovsky, 2004
UKR (C)	Ukraine, Carpathians	Zerov & Partyka, 1975; Bachurina & Melnichuk, 1987-1989, 2003
UKR (M)	Ukraine, mainland	Zerov, 1964; Bachurina & Melnichuk, 1987-1989, 2003
UKR (K)	Ukraine, Crimea	Partyka, 2005
MLD	Moldova	Simonov, 1978
RUS-EUR (ARC)	Russian European Arctic including Polar Ural	Afonina & Czernyadjeva, 1995; Dyachenko, 1997
RUS-EUR (NW)	Russian European North-West [Murmansk, Karelia, Leningrad]	Schljakov & Konstantinova, 1982; Belkina & al., 1991; Volkova & Maksimov, 1993; Kurbatova & al., 1999
RUS-EUR (NE)	Russian European North-East [Arkhangelsk, lowland of Komi]	Zheleznova, 1994; Bezgodov & al., 2003
RUS-EUR (KLN)	Kaliningrad Province	Napreenko, 2006
RUS-EUR (C)	Russian European Central region	Popova, 2002; Ignatov & Ignatova, 2003-2004
RUS-EUR (N-UR)	Subpolar and North Urals <sup>1</sup>	Dyachenko, 1997; Ignatov & Ignatova 2003-2004
RUS-EUR (S-UR)	Middle and South Urals <sup>1</sup>	Dyachenko, 1997; Ignatov & Ignatova 2003-2004
RUS-EUR (SE)	Russian European South-East <sup>2</sup>	Suragina & al., 2002; Ignatov & Ignatova 2003-2004
RUS-EUR (CAUC)	Russian part of Caucasus	Brotherus, 1892; Akatova, 2002; Kharzinov & al. 2004; Ignatova & al., 2005; Ignatova & al., 2007
GEO	Georgia	Chikovani & Svanidze, 2004
ARM	Armenia	Manakyan, 1995
AZE	Azerbaijan	Lyubarskaya, 1986
KAZ	Kazakhstan	Mamatkulov & al., 1998
TUR	Turkmenistan	Mamatkulov & al., 1998
UZB	Uzbekistan	Mamatkulov & al., 1998
TAD	Tadjikistan	Mamatkulov, 1990; Mamatkulov & al., 1998
KYR	Kyrgyzstan	Mamatkulov & al., 1998
RUS-AS (ARC-WSIB)	Arctic West Siberia	Afonina & Czernyadjeva, 1995; Czernyadjeva, 2001
RUS-AS (ARC-ESIB)	Arctic East Siberia	Afonina & Czernyadjeva, 1995; Fedosov & Ignatova, 2005
RUS-AS (W-SIB)	West Siberia (cf. South Siberia)	Lapshina & Muldiyarov, 1998
RUS-AS (S-SIB)	South Siberia <sup>2</sup>	Bardunov, 1969, 1974; Ignatov, 1993; Pisarenko, 2001; Otnyukova 2003
RUS-AS (E-SIB)	East Siberia (cf. South Siberia)	Lindberg & Arnell, 1890; Bardunov, 1969, 2000; Kazanovsky, 1991; Tubanova, 2004; Fedosov 2006b,c.
RUS-AS (ARC-YAK)	Arctic Yakutia	Ivanova & al., 2005
RUS-AS (YAK)	Yakutia	Ivanova & al., 2005
RUS-AS (ARC-FE)	Arctic Far East	Afonina, 2004a
RUS-AS (N-FE)	North Far East	Bladodatskikh, 1984; Afonina, 2004a; Chernyadjeva, 2005
RUS-AS (S-FE)	South Far East	Cherdantseva, 1976, 2002; Bardunov & Cherdantseva, 1982, 1984; Ignatov & al., 2000; Bakalin & Cherdantseva, 2006

<sup>1</sup> – The present subdivision of Urals differs from that given in the first check-list (Ignatov & Afonina, 1992), where part of North Ural within Perm and Sverdlovsk Provinces was referred to “S-UR” region.

<sup>2</sup> – Unlike first check-list, Ulyanovsk Province is referred to the region “C”, not “SE”.

<sup>3</sup> – South Siberia is delimited here as the mountain area that includes: Altai Mts., Kuznetskiy Alatau, Salair Range, Tuva (Tyva), Sayans (northward up to Krasnoyarsk, including it); southern part of Baikal Lake, southern Buryatiya (up to Selenga – Upper Vitim), Chita Prov. (without Yankan and northern ranges).

## SYSTEMATIC ARRANGEMENT

Systematic arrangement follows Goffinet & Buck (2004), with some alterations according to Ignatov & Ignatova (2004), Ignatov, Gardiner & al. (2006), and Ochyra & al. (2004). Asterisk (\*) before some generic names means that their position in respective family is not very well proved.

**SPHAGNOPSIDA** Schimp.

SPHAGNALES C. Martius

**Sphagnaceae** Martynov*Sphagnum* L.**ANDREAEOPSIDA** Trevisan

ANDREAEALES Prantl

**Andreaeaceae** Dumort.*Andreaea* Hedw.**OEDIPODIOPSIDA** (Schimp.) Goffinet &

W.R.Buck

OEDIPODIALES (Schimp.) Goffinet &amp; W.R.Buck

**Oedipodiaceae** Schimp.*Oedipodium* Schwägr.**POLYTRICHOPSIDA** Ochyra, Żarnowiec &

Bednarek-Ochyra

POLYTRICHALES M.Fleisch.

**Polytrichaceae** Schwägr.*Atrichum* P.Beauv.*Bartramiopsis* Kindb.*Lyellia* R.Br.*Oligotrichum* DC.*Pogonatum* P.Beauv.*Polytrichastrum* G.L.Sm.*Polytrichum* Hedw.*Psilopilum* Brid.**TETRAPHIDOPSIDA** (M.Fleisch.) Goffinet &

W.R.Buck

TETRAPHIDALES M.Fleisch.

**Tetraphidaceae** Schimp.*Tetraphis* Hedw.*Tetradontium* Schwägr.**BRYOPSIDA** Horan.

BUXBAUMIALES M.Fleisch.

**Buxbaumiaceae** Schwägr.*Buxbaumia* Hedw.

DIPHYSCIALES M.Fleisch.

**Diphysciaceae** M.Fleisch.*Diphyscium* D.Mohr

TIMMIALES (M.Fleisch.) Ochyra

**Timmiaceae** Schimp.*Timmia* Hedw.**CATOSCOPIALES** Ignatov & Ignatova**Catoscopiaceae** Boulay ex Broth.*Catoscopium* Brid.

FUNARIALES M.Fleisch.

**Disceliaceae** Schimp.*Discelium* Brid.**Funariaceae** Schwägr.*Entosthodon* Schwägr.*Funaria* Hedw.*Physcomitrella* Bruch et al.*Physcomitrium* (Brid.) Brid.*Pyramidula* Brid.

ENCALYPTALES Dixon

**Encalyptaceae** Schimp.*Bryobrittonia* R.S.Williams*Encalypta* Hedw.

BRYOXIPHIALES H.A.Crum &amp; L.E.Anderson

**Bryoxiphaceae** Besch.*Bryoxiphium* Mitt.

SCOULERIALES (S.P.Churchill) Goffinet &amp;

W.R.Buck

**Drummondaceae** (Vitt) Goffinet*Drummondia* Hook.**Scouleriaceae** S.P.Churchill*Scouleria* Hook.

GRIMMIALES M.Fleisch.

**Grimmiaceae** Arn.*Bucklandiella* Roiv.*Codriophorus* P.Beauv.*Coscinodon* Spreng.*Grimmia* Hedw.*Indusiella* Broth. & Müll.Hal.*Jaffueliobryum* Thér.*Niphotrichum* (Bednarek-Ochyra)

Bednarek-Ochyra &amp; Ochyra

*Racomitrium* Brid.*Schistidium* Bruch et al.**Seligeriaceae** Schimp.*Brachydonitium* Fűrnr.*Blindia* Bruch et al.*Seligeria* Bruch et al.**Ptychomitriaceae** Schimp.*Campylostelium* Bruch et al.*Ptychomitrium* Fűrnr.\**Glyphomitrium* Brid.

**Archidiaceae** Schimp.*Archidium* Brid.

DICRANALES H.Philib. ex M.Fleisch.

**Leucobryaceae** Schimp.*Brothera* Müll.Hal.*Campylopus* Brid.*Dicranodontium* Bruch et al.*Leucobryum* Hampe**Bruchiaceae** Schimp.*Trematodon* Michx.**Dicranaceae** Schimp.\**Aongstroemia* Bruch et al.\**Dicranella* (Müll.Hal.) Schimp.*Dicranoloma* (Renauld) Renauld*Dicranum* Hedw.*Paraleucobryum* (Limpr.) Loeske**Rhabdoweisiaceae** Limpr.*Amphidium* Schimp.*Arctoa* Bruch et al.*Cnestrum* I.Hagen*Cynodontium* Bruch et al.*Dichodontium* Schimp.*Dicranoweisia* Milde*Hymenoloma* Ochyra*Kiaeria* I.Hagen*Oncophorus* (Brid.) Brid.*Oreas* Brid.*Rhabdoweisia* Bruch et al.**Ditrichaceae** Limpr.*Ceratodon* Brid.*Cleistocarpidium* Ochyra &  
Bednarek-Ochyra*Distichium* Bruch et al.*Ditrichum* Timm ex Hampe*Pleuridium* Rabenh.*Pseudephemerum* (Lindb.) I.Hagen*Saelania* Lindb.**Pottiaceae** Schimp.*Acaulon* Müll.Hal.*Aloina* Kindb.*Anoetangium* Schwägr.*Barbula* Hedw.*Bryoerythrophyllum* P.C.Chen*Cinclidotus* P.Beauv.*Crossidium* Jur.*Crumia* W.B.Schofield*Didymodon* Hedw.*Eucladium* Bruch et al.*Gymnostomum* Nees & Hornsch.*Gyroweisia* Schimp.*Hennediella* Paris*Hilpertia* R.H.Zander*Hydrogonium* (Müll.Hal.) A.Jaeger*Hymenostylium* Brid.*Hyophila* Brid.*Leptobarbula* Schimp.*Leptodontium* (Müll.Hal.) Lindb.*Microbryum* Schimp.*Molendoa* Lindb.*Oxystegus* (Lindb. ex Limpr.) Hilp.*Pleurochaete* Lindb.*Pseudocrossidium* R.S.Williams*Pterygoneurum* Jur.*Scopelophila* (Mitt.) Lindb.*Stegonia* Venturi*Syntrichia* Brid.*Timmiella* (De Not.) Schimp.*Tortella* (Müll.Hal.) Limpr.*Tortula* Hedw.*Trichostomum* Bruch*Weissia* Hedw.**Ephemeraceae** Schimp.*Ephemerum* Hampe**Fissidentaceae** Schimp.*Fissidens* Hedw.**Schistostegaceae** Schimp.*Schistostega* D.Mohr

SPLACHNALES (M.Fleisch.) Ochyra

**Meesiaceae** Schimp.*Amblyodon* P.Beauv.*Leptobryum* (Bruch et al.) Wilson*Meesia* Hedw.*Paludella* Brid.**Splachnaceae** Grev. & Arn.*Aplodon* R.Br.*Splachnum* Hedw.*Tayloria* Hook.*Tetraplodon* Bruch et al.*Voitia* Hornsch.

ORTHOTRICHALES Dixon

**Orthotrichaceae** Arn.*Macromitrium* Brid.*Orthotrichum* Hedw.*Ulota* D.Mohr*Zygodon* Hook. & Taylor

HEDWIGIALES Ochyra

**Hedwigiaceae** Schimp.*Hedwigia* P.Beauv.

## BRYALES Limpr.

**Bryaceae** Schwägr.

*Anomobryum* Schimp.  
*Brachymenium* Schwägr.  
*Bryum* Hedw.  
*Plagiobryum* Lindb.  
*Rhodobryum* (Schimp.) Limpr.

**Orthodontiaceae** (Broth.) Goffinet

*Orthodontium* Schwägr.  
*Orthodontopsis* Ignatov & B.C.Tan

**Mielichhoferiaceae** Schimp.

*Epipterygium* Lindb.  
*Mielichhoferia* Nees & Hornsch.  
*Pohlia* Hedw.

**Mniaceae** Schwägr.

*Cinclidium* Sw.  
*Cyrtomnium* Holmen  
*Mnium* Hedw.  
*Plagiomnium* T.J.Kop.  
*Pseudobryum* (Kindb.) T.J.Kop.  
*Rhizomnium* (Broth.) T.J.Kop.  
*Trachycystis* T.J.Kop.

**Bartramiaceae** Schwägr.

*Anacolia* Schimp.  
*Bartramia* Hedw.  
*Conostomum* Sw. ex F. Weber & D. Mohr  
*Philonotis* Brid.  
*Plagiopus* Brid.

**Aulacomniaceae** Schimp.

*Aulacomnium* Schwägr.

## HOOKERIALES M.Fleisch.

**Hookeriaceae** Schimp.

*Hookeria* Sm.

**Hypopterygiaceae** Mitt.

*Hypopterygium* Brid.

## HYPNALES Dumort.

**Fontinalaceae** Schimp.

*Dichelyma* Myrin  
*Fontinalis* Hedw.

**Fabroniaceae** Schimp.

*Fabronia* Raddi

**Habrodontaceae** Rabenh.

*Habrodon* Schimp.

**Plagiotheciaceae** (Broth.) M.Fleisch.

*Bardunovia* Ignatov & Ochyra  
*Herzogiella* Broth.  
*Isopterygiopsis* Z.Iwats.  
*Myurella* Bruch et al.  
*Orthothecium* Bruch et al.  
*Plagiothecium* Bruch et al.

*Platydictya* Berk.

\**Pseudotaxiphyllum* Z.Iwats.

*Struckia* Müll.Hal.

**Pterigynandraceae** Schimp.

*Pterigynandrum* Hedw.

**Leucodontaceae** Schimp.

*Dozya* Sande Lac.

*Leucodon* Schwägr.

**Cryphaeaceae** Schimp.

*Cryphaea* D.Mohr

**Hypnaceae** Martynov

*Eurohypnum* Ando

*Hypnum* Hedw.

\**Hondaella* Dixon & Sakurai

\**Leptopterigynandrum* Müll.Hal.

\**Schwetschkeopsis* Broth.

\**Taxiphyllum* M.Fleisch.

\**Vesicularia* (Müll.Hal.) Müll.Hal.

**Entodontaceae** Kindb.

*Entodon* Müll.Hal.

**Pylaisiadelphaceae** Goffinet & W.R.Buck

*Brotherella* Loeske ex M.Fleisch.

\**Fauriella* Besch.

*Heterophyllum* (Schimp.) Kindb.

*Platygyrium* Bruch et al.

*Pylaisiadelpha* Cardot

**Pseudoleskeaceae** Schimp.

*Lescurea* Bruch et al.

*Rigodiadelphus* Dixon

**Anomodontaceae** Kindb.

*Anomodon* Hook. & Taylor

*Haplohymenium* Dozy & Molk.

*Herpetineuron* (Müll.Hal.) Cardot

**Heterocladiaceae** Ignatov & Ignatova

*Heterocladium* Bruch et al.

**Neckeraceae** Schimp.

*Forsstroemia* Lindb.

*Homalia* Brid.

\**Homaliadelphus* Dixon & P.de la Varde

*Leptodon* D.Mohr

*Neckera* Hedw.

*Thamnobryum* Nieuwl.

**Climaciaceae** Kindb.

*Climacium* F.Weber & D.Mohr

*Pleuroziopsis* Kindb. ex E.Britton

**Antitrichiaceae** Ignatov & Ignatova

*Antitrichia* Brid.

**Hylocomiaceae** (Broth.) M.Fleisch.

\**Ctenidium* (Schimp.) Mitt.

*Hylocomiastrum* Broth.



*Hylocomiopsis* Cardot  
*Hylocomium* Bruch et al.  
*Pleurozium* Mitt.  
*Loeskeobryum* Broth.  
*Rhytidiadelphus* (Limpr.) Warnst.

**Pterogoniaceae** Rabenh.

*Pterogonium* Sw.

**Lembophyllaceae** Broth.

*Dolichomitriopsis* S.Okamura  
*Isothecium* Brid.

**Meteoriaceae** Kindb.

*Meteorium* (Brid.) Dozy & Molk.

**Brachytheciaceae** Schimp.

*Brachytheciastrum* Ignatov & Huttunen  
*Brachythecium* Bruch et al.  
*Bryhnia* Kaurin  
*Cirriphyllum* Grout  
*Eurhynchiadelphus* Ignatov & Huttunen  
*Eurhynchiastrum* Ignatov & Huttunen  
*Eurhynchium* Bruch et al.  
*Homalothecium* Bruch et al.  
*Kindbergia* Ochyra  
*Myuroclada* Besch.  
*Okamuraea* Broth.  
*Oxyrrhynchium* (Schimp.) Warnst.  
*Palamocladium* Müll.Hal.  
*Plasteurhynchium* M.Fleisch. ex Broth.  
*Pseudoscleropodium* (Limpr.) M.Fleisch.  
*Rhynchostegiella* (Schimp.) Limpr.  
*Rhynchostegium* Bruch et al.  
*Sciuro-hypnum* (Hampe) Hampe  
*Scorpiurium* Schimp.

**Calliergonaceae** (Kanda) Vanderp., Hedenäs,

C.J.Cox & A.J.Shaw  
*Calliergon* (Sull.) Kindb.  
*Conardia* H.Rob.  
*Loeskypnum* H.K.G.Paul  
*Straminergon* Hedenäs  
*Warnstorfia* Loeske

**Scorpidiaceae** Ignatov & Ignatova

*Hamatocaulis* Hedenäs  
*Hygrohypnella* Ignatov & Ignatova  
*Sanionia* Loeske  
*Scorpidium* (Schimp.) Limpr.

**Pylaisiaceae** Schimp.

*Breidleria* Loeske  
*Callicladium* H.A.Crum  
*Calliergonella* Loeske  
*Gollania* Broth.  
*Homomallium* (Schimp.) Loeske

*Pseudohygrohypnum* Kanda  
*Ptilium* De Not.  
*Pylaisia* Bruch et al.  
*Stereodon* (Brid.) Mitt.

**Rhytidiaceae** Broth.

*Rhytidium* (Sull.) Kindb.

**Pseudoleskeellaceae** Ignatov & Ignatova

*Pseudoleskeella* Kindb.

**Leskeaceae** Schimp.

\**Claopodium* (Lesq. & James) Renaud & Cardot  
\**Iwatsukiella* W.R.Buck & H.A.Crum  
*Leskea* Hedw.  
*Lindbergia* Kindb.  
*Mamillariella* Laz.  
\**Miyabea* Broth.  
*Pseudoleskeopsis* Broth.

**Thuidiaceae** Schimp.

*Abietinella* Müll.Hal.  
*Actinothuidium* (Besch.) Broth.  
*Boulaya* Cardot  
*Bryochenea* C.Gao & G.C.Zhang  
*Bryonoguchia* Z.Iwats. & Inoue  
*Echinophyllum* O'Brian  
*Haplocladium* (Müll.Hal.) Müll.Hal.  
*Helodium* Warnst.  
*Pelekium* Mitt.  
*Rauiella* Reimers  
*Thuidium* Bruch et al.

**Amblystegiaceae** G.Roth

*Amblystegium* Bruch et al.  
*Anacamptodon* Brid.  
*Campyliadelphus* (Kindb.) R.S.Chopra  
*Campylidium* (Kindb.) Ochyra  
*Campylium* (Sull.) Mitt.  
\**Campylophyllum* (Schimp.) M.Fleisch.  
*Cratoneuron* (Sull.) Spruce  
\**Drepanium* C.E.O.Jensen  
*Drepanocladus* (Müll.Hal.) G.Roth  
*Hygroamblystegium* Loeske  
*Hygrohypnum* Lindb.  
*Leptodictyum* (Schimp.) Warnst.  
\**Myrinia* Schimp.  
\**Ochyraea* Váňa  
*Palustriella* Ochyra  
\**Podperaea* Z.Iwats. & Glime  
*Pseudocalliergon* (Limpr.) Loeske  
*Sasaokaea* Broth.  
*Serpoleskea* (Limpr.) Loeske  
\**Tomentypnum* Loeske

LIST OF TAXA<sup>1</sup>*Abietinella* Müll.Hal. [Thuidiaceae]

— *abietina* (Hedw.) M.Fleisch. (*Thuidium abietinum* (Hedw.) Bruch et al., *Abietinella hystriosa* (Mitt.) Broth., *A. abietina* var. *hystriosa* (Mitt.) Sakurai) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [296], **KYR** [296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 114, 212]

*Acaulon* Müll.Hal. [Pottiaceae]

— *muticum* (Hedw.) Müll.Hal. – **LTV** [244], **LAT** [5], **BEL** [355], **UKR**: M [66], **RUS-EUR**: C [207, 345], **TUR** [295], **TAD** [295], **KYR** [349, 351], **RUS-AS**: ?W-SIB [341]  
 — *triquetrum* (Spruce) Müll.Hal. – **UKR**: M [66], **RUS-EUR**: S-UR [150, 341], SE [207, 212, 377], CAUC [421], **GEO** [117], **AZE** [277], **TUR** [296], **TAD** [295]

*Actinotuidium* (Besch.) Broth. [Thuidiaceae]

— *hookeri* (Mitt.) Broth. subsp. *boreale* Ignatov, Ignatova, Z.Iwats. & B.C.Tan – **RUS-AS**: S-FE [210, 212, 221]

*Aloina* Kindb. [Pottiaceae]

— *aloides* (Koch ex Schultz) Kindb. – **LTV** [244], **TAD** [295]  
 — *ambigua* (Bruch et al.) Limpr. (*A. ericaefolia* Kindb.) – **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **AZE** [277], **TUR** [267, 295, 296], **TAD** [294, 295], **KYR** [296, 349, 351] — {1}  
 — *brevirostris* (Hook. & Grev.) Kindb. – **LAT** [4], **UKR**: M [66], **RUS-EUR**: NW [207], NE [207, 212], C [207, 212, 345], S-UR [150, 207], CAUC [250], **TUR** [296], **TAD** [295], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [197, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94]  
 — *rigida* (Hedw.) Limpr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207], C [207, 345], S-UR [150, 207], CAUC [231, 248], **GEO** [117], **AZE** [277], **TUR** [267, 295], **TAD** [294, 295], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69], YAK [239]

*Amblyodon* P.Beauv. [Meesiaceae]

— *dealbatus* (Hedw.) P.Beauv. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66, 148], **RUS-EUR**: NW [207, 273, 364, 407], NE [207, 212], KLN [309], C [207], N-UR [150], CAUC [55, 102, 212, 248], **GEO** [102, 117], **ARM** [297], **KAZ** [156, 393], **TAD** [267, 294, 296], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 197], YAK [212, 239], ARC-FE [40]

*Amblystegiella* see *Serpoleskea*, *Platydictya*

*Amblystegium* Bruch et al. [Amblystegiaceae], see also *Hygroamblystegium humile*, *H. varium*, etc., *Serpoleskea subtilis*, etc., *Conardia compacta*

— *radicale* (P.Beauv.) Bruch et al. (*A. saxatile* Schimp., *Campylium radicale* (P.Beauv.) Grout) – **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [291], NE [414], C [135, 212, 344], S-UR [150], **RUS-AS**: W-SIB [265], S-SIB [70, 212, 275], E-SIB [275], S-FE [76]

Notes: 1) References to annotations on some species are given in figure brackets.

2) Asterisk (\*) at some family names means that the position of the genus in this family is not well proved.

3) Asterisk (\*) at some record means indirect record: for example, old records of *Eurhynchium striatum* from Siberia, before the description of *E. zetterstedtii* (*E. angustirete*), obviously mean the latter species.

4) Questionmark (?) before the reference number in brackets means that the author(s) of reference express(es) certain doubt of the occurrence of the taxon in region; “?” before the region name however indicate the doubts of authors of the checklist; “?” before species name means that we doubt that this is a good species, but retain it due to unknown identity.

5) Few species were reported from Middle Asia and Caucasus without exact locality, so even the country can not be detected. In these cases they are cited: + MID-AS and + CAUCASUS.

6) Only synonyms that were widely used in recent literature are included in the list; expanded list of synonyms is given in a separate section after Annotations.

- *serpens* (Hedw.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207, 212, 404], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [160, 296, 356], **TAD** [26, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *serpens* var. *juratzkanum* (Schimp.) Rau & Herv. – **LTV** [244], **LAT** [1], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [63, 407], NE [207], KLN [309], C [207, 212], N-UR [150], S-UR [150, 207, 212], CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **UZB** [267], **TAD** [294, 296], **KYR** [267, 296], **RUS-AS**: W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 247], ARC-YAK [239], YAK [212, 239], ARC-FE [40], S-FE [76, 77, 212]

*Amphidium* Schimp. [Rhabdoweisiaceae]

- *lapponicum* (Hedw.) Schimp. – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [212, 273, 364, 407], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [156, 159], **UZB** [267], **TAD** [294, 295], **KYR** [296, 349, 351], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 77, 114, 212]
- *mougeotii* (Bruch et al.) Schimp. – **UKR**: C [66], K [328], **RUS-EUR**: ARC [47, 127, 150], NW [212, 364, 407], N-UR [150, 207, 212, 415], S-UR [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [156, 159], **TAD** [294, 295], **KYR** [296], **RUS-AS**: ARC-ESIB [39, 164], S-SIB [197, 212], E-SIB [163], ARC-FE [40, 212], N-FE [40, 94], S-FE [221]

*Anacamptodon* Brid. [Amblystegiaceae]

- *kamchaticus* Czernyadjeva – **RUS-AS**: N-FE [139, 140], S-FE [139]
- *latidens* (Besch.) Broth. – **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69, 212], S-FE [76, 77, 109, 212]
- *splachnoides* (Froel. ex Brid.) Brid. – **UKR**: C [66], **GEO** [117], **RUS-AS**: ?S-SIB [22], ?S-FE [22] — {2}

*Anacolia* Schimp. [Bartramiaceae]

- *webbii* (Mont.) Schimp. – **TAD** [19, 296]

*Andreaea* Hedw. [Andreaeaceae]

- *alpestris* (Thed.) Bruch et al. (*A. fauriei* Besch.) – **UKR**: C [66], **RUS-EUR**: ARC [47], NW [364, 407], CAUC [55, 212], **RUS-AS**: S-SIB [197, 212], E-SIB [212, 247], ARC-YAK [47, 239], ARC-FE [40], N-FE [140], S-FE [77, 109]
- *blyttii* Bruch et al. – **RUS-EUR**: NW [83, 87, 273], **RUS-AS**: YAK [239], ARC-FE [40, 212]
- *crassinervia* Bruch – **RUS-EUR**: NW [262, 364, 407]
- *heinemannii* Hampe & Müll.Hal. (*A. planinervis* Lindb. ex G.Roth) – **RUS-EUR**: CAUC [248], **GEO** [102], **RUS-AS**: S-SIB [197, 212] — {3}
- *nivalis* Hook. – **RUS-EUR**: ARC [47], NW [84, 87], N-UR [150, 207, 212], CAUC [55, 212, 231], **RUS-AS**: N-FE [95, 140], S-FE [67]
- *obovata* Thed. – **RUS-EUR**: ARC [47, 150], NW [364, 407], N-UR [150], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 247], YAK [239], ARC-FE [40]
- *rothii* F.Weber & D.Mohr – **RUS-EUR**: ARC [127, 150], NW [262], N-UR [166], ?S-UR [150, 207], **GEO** [117] — {3}
- *rupestris* Hedw. – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [295], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212]
- *rupestris* var. *papillosa* (Lindb.) Podp. – **RUS-EUR**: ARC [47, 150], S-UR [150, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [197, 212], E-SIB [388], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [140]
- *rupestris* var. *sparsifolium* (J.E.Zetterst.) Sharp – **RUS-AS**: ARC-FE [40], N-FE [40]

*Anisothecium* see *Dicranella* spp., *Dichodontium paluste*

*Anoetangium* Schwägr. [Pottiaceae], see also *Molendoa*

- *aestivum* (Hedw.) Mitt. – **UKR**: C [66], **RUS-EUR**: NW [85, 212, 364], CAUC [55, 102, 212, 231],

- TUR** [11, 296], **RUS-AS**: E-SIB [162], ARC-YAK [239]  
 — *handellii* Schiffn. – **UKR**: K [66, 328], **RUS-AS**: S-SIB [71], **TUR** [8, 368], **TAD** [294, 295]  
 — *thomsonii* Mitt. (*A. amurense* Broth., *A. contortum* Broth.) – **RUS-AS**: E-SIB [74, 212], **YAK** [239], S-FE [76, 212, 221]
- Anomobryum** Schimp. [Bryaceae]  
 — *julaceum* (Schrad. ex P.Gaertn., B.Mey. & Scherb.) Schimp. – **UKR**: C [66], **RUS-EUR**: NW [364], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], **YAK** [239], ARC-FE [40], N-FE [40, 140], S-FE [77, 212]  
 — *julaceum* var. *concinatum* (Spruce) J.E.Zetterst. (*A. concinatum* (Spruce) Lindb.) – **KAZ** [296, 356], **TAD** [294, 296], **RUS-AS**: ARC-FE [40], S-FE [76] — {4}
- Anomodon** Hook. & Taylor [Anomodontaceae], see also *Claopodium rostratum*  
 — *abbreviatus* Mitt. – **RUS-AS**: S-FE [116]  
 — *attenuatus* (Hedw.) Huebener – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 407], **KLN** [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 247]  
 — *giraldii* Müll.Hal. – **RUS-AS**: S-FE [76, 77, 109, 212]  
 — *longifolius* (Brid.) Hartm. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212, 415], **KLN** [309], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [69, 70, 212], N-FE [140], S-FE [76, 77, 109, 212]  
 — *minor* (Hedw.) Fürnr. (*A. minor* subsp. *integerrimus* (Mitt.) Z.Iwats.) – **RUS-AS**: S-SIB [69, 70, 212], E-SIB [74, 212], **YAK** [212, 239], S-FE [76, 77, 109, 212] — {5}  
 — *rugelii* (Müll.Hal.) Keissl. – **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: NW [207], C [207], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [69, 197, 212], E-SIB [212, 247], S-FE [76, 77, 109, 212]  
 — *solovjovii* Laz. – **RUS-AS**: S-FE [76, 212]  
 — *thraustus* Müll.Hal. – **RUS-AS**: S-SIB [69, 70], E-SIB [69, 212], S-FE [76, 77, 109, 212]  
 — *viticulosus* (Hedw.) Hook. & Taylor – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: NW [207, 212, 364, 407], NE [53, 207, 212, 415], **KLN** [309], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296], **KYR** [296], **RUS-AS**: S-SIB [70, 212], N-FE [?140]
- Antitrichia** Brid. [Antitrichiaceae]  
 — *curtipendula* (Hedw.) Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [203, 207, 407], **KLN** [309], CAUC [55, 203, 208, 212, 231], **GEO** [117], **ARM** [297]
- Aongstroemia** Bruch et al. [Dicranaceae]  
 — *julacea* (Hook.) Mitt. – **RUS-AS**: S-SIB [70]  
 — *longipes* (Sommerf.) Bruch et al. – **RUS-EUR**: NW [207, 251], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], E-SIB [163], ARC-FE [40, 212], N-FE [40, 140]  
 — *orientalis* Mitt. – **RUS-AS**: S-SIB [69]
- Aplodon** R.Br. [Splachnaceae]  
 — *wormskioldii* (Hornem.) R.Br. – **EST** [237], **RUS-EUR**: ARC [47, 150], NW [212, 346, 364], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], E-SIB [126, 212, 275], ARC-YAK [47, 239], ARC-FE [40, 212], N-FE [40, 94]
- Archidium** Brid. [Archidiaceae]  
 — *alternifolium* (Hedw.) Mitt. – **LTV** [244], **RUS-EUR**: NW [207, 262], **RUS-AS**: S-FE [24, 76]
- Arctoa** Bruch et al. [Rhabdoweisiaceae]  
 — *anderssonii* Wich. – **RUS-AS**: ARC-ESIB [39, 47, 50], N-FE [141]  
 — *fulvella* (Dicks.) Bruch et al. – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [212, 273, 364, 407], N-UR [150], **RUS-AS**: ARC-ESIB [96, 212], S-SIB [69], E-SIB [69, 212], ARC-YAK [239], **YAK** [239], ARC-FE [40], N-FE [94, 140], S-FE [212, 221]

*Astomum* see *Weissia*

*Atractyllocarpus alpinus* (Schimp. ex Milde) Lindb. – excluded — {6}

*Atrichum* P.Beauv. [Polytrichaceae]

- **angustatum** (Brid.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [87, 207, 262], C [207, 212], S-UR [207], CAUC [55, 212, 248], **GEO** [117]
- **flavisetum** Mitt. (*A. haussknechtii* Jur. & Milde, *A. undulatum* var. *gracilisetum* Besch.) – **LAT** [1], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [207, 262, 407], NE [207, 212], C [207, 212, 345], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212, 219], E-SIB [212, 247], S-FE [76, 77, 109, 212]
- **rhystophyllum** (Müll.Hal.) Paris – **RUS-AS**: S-FE [76] — {7}
- **tenellum** (Röhl.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], **RUS-AS**: W-SIB [212, 265], S-SIB [69, 70, 212, 219], E-SIB [212, 247], ?ARC-YAK [47, 239], ?N-FE [140], ?S-FE [77, 212] — {8}
- **undulatum** (Hedw.) P.Beauv. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [150], NW [207, 212, 364, 407], NE [207], KLN [309], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **RUS-AS**: W-SIB [265], S-SIB [70, 212, 219], S-FE [76, 109, 212]

*Aulacomnium* Schwägr. [Aulacomniaceae]

- **acuminatum** (Lindb. & Arnell) Kindb. – **RUS-AS**: ARC-WSIB [136], ARC-ESIB [92, 212], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94]
- **androgynum** (Hedw.) Schwägr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207, 212, 262], KLN [309], SE [207], **GEO** [117] — {9}
- **heterostichum** (Hedw.) Bruch et al. – **RUS-AS**: S-FE [76, 77, 109, 212]
- **palustre** (Hedw.) Schwägr. (*A. palustre* var. *imbricatum* Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 156, 296, 356], **TAD** [26, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- **turgidum** (Wahlenb.) Schwägr. – **RUS-EUR**: ARC [47, 127, 150], NW [212, 291, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], **ARM** [297], **KAZ** [296, 356], **TAD** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [109, 212, 221]

*Barbula* Hedw. [Pottiaceae], see also *Didymodon*, *Bryoerythrophyllum*, *Pseudocrossidium*

- **amplexifolia** (Mitt.) A.Jaeger – **RUS-AS**: S-SIB [212, 222], YAK [239]
- **convoluta** Hedw. (*Streblotrichum convolutum* (Hedw.) P.Beauv.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207, 273, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207], SE [207], CAUC [55, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157, 296, 356], **TUR** [296], **TAD** [294, 295], **KYR** [267, 296], **RUS-AS**: ARC-ESIB [164], W-SIB [265], S-SIB [69, 70, 212], E-SIB [163, 275, 388], YAK [239], N-FE [40, 140], S-FE [76, 212]
- **crocea** (Brid.) F.Weber & D.Mohr – **UKR**: C [66, 413], **RUS-EUR**: CAUC [55, 212, 248]
- **enderesii** Garov. – **UKR**: M [66], **UZB** [267], **KYR** [296]
- **indica** (Hook.) Spreng. – **UZB** [384]
- **jacutica** Ignatova – **RUS-AS**: E-SIB [162], YAK [223, 239]
- **unguiculata** Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO**

- [117], **ARM** [297], **AZE** [277], **KAZ** [157], **TUR** [296], **UZB** [295, 296], **TAD** [294, 295], **KYR** [296], **RUS-AS**: ARC-ESIB [275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [163, 275], YAK [239], N-FE [140], S-FE [76, 221]
- Bardunovia** Ignatov & Ochyra [Plagiotheciaceae]  
 — *baicalensis* Ignatov & Ochyra (*Platydictya baicalensis* (Ignatov & Ochyra) Hedenäs) – **RUS-AS**: E-SIB [218], YAK [239] — {10}
- Bartramia** Hedw. [Bartramiaceae]  
 — *halleriana* Hedw. – **UKR**: C [66], K [328], **RUS-EUR**: NW [364, 407], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [296]  
 — *ithyphylla* Brid. (*B. deciduaefolia* Broth. & Yasuda) – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [53, 207, 415], KLN [309], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [160, 296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [147, 212], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]  
 — *pomiformis* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [53, 207, 212], KLN [309], C [207], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 212, 248], **GEO** [117], **AZE** [277], **KAZ** [296, 356], **TAD** [296], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [69, 70, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]  
 — *stricta* Brid. – **AZE** [22]  
 — *subulata* Bruch et al. – **RUS-EUR**: ARC [47, 127, 150], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69], YAK [239], ARC-FE [40]
- Bartramiopsis** Kindb. [Polytrichaceae]  
 — *lescurii* (James) Kindb. – **RUS-AS**: N-FE [94, 140], S-FE [76, 77, 109, 212]
- Blindia** Bruch et al. [Seligeriaceae]  
 — *acuta* (Hedw.) Bruch et al. (*B. seligerioides* Lindb. ex Broth.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 415], N-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [104], **RUS-AS**: ARC-ESIB [39, 47, 50], S-SIB [69, 70, 212], E-SIB [74, 212, 247], YAK [239], ARC-FE [40, 212], N-FE [40, 94], S-FE [212, 221]
- Boulaya** Cardot [Thuidiaceae]  
 — *mittenii* (Broth.) Cardot – **RUS-AS**: S-FE [76, 77, 109, 212]
- Brachydontium** Fühnr. [Seligeriaceae]  
 — *olympicum* (E.Britton) McIntosh & Spense (*Grimmia olympica* E.Britton) – **RUS-AS**: S-FE [299]  
 — *trichodes* (F.Weber) Milde – **UKR**: C [66], **RUS-EUR**: N-UR [150, 415] + CAUCASUS [341]
- Brachymerium** Schwägr. [Bryaceae]  
 — *exiloides* Bard. & Czerd. – **RUS-AS**: S-FE [76]  
 — *nepalense* Hook. – **RUS-AS**: S-FE [76, 212]
- Brachytheciastrum** Ignatov & Huttunen [Brachytheciaceae]  
 — *collinum* (Schleich. ex Müll.Hal.) Ignatov & Huttunen (*Brachythecium collinum* (Schleich. ex Müll.Hal.) Bruch et al., *B. fendleri* auct.) – **RUS-EUR**: S-UR [52], SE [207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356, 393], **TUR** [296], **UZB** [267], **TAD** [267, 294, 296], **KYR** [296, 351], **RUS-AS**: S-SIB [198, 212], ARC-YAK [47, 239], ARC-FE [40], N-FE [140] — {11}  
 — *falcatulum* (Broth.) Ignatov & Huttunen – **KAZ** [198], **KYR** [198], **RUS-AS**: S-SIB [198]  
 — *olympicum* (Jur.) Vanderp., Ignatov, Huttunen & Goffinet (*Brachythecium olympicum* Jur.) – **RUS-EUR**: SE [366], CAUC [232]  
 — *trachypodium* (Brid.) Ignatov & Huttunen (*Brachythecium trachypodium* (Brid.) Bruch et al.) – **RUS-EUR**: NW [364], S-UR [91], **GEO** [117], **KAZ** [348], **UZB** [267], **TAD** [294, 296], **KYR** [267, 296, 351], **RUS-AS**: ARC-ESIB [93], S-SIB [198], E-SIB [163], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94] — {12}  
 — *velutinum* (Hedw.) Ignatov & Huttunen (*Brachythecium velutinum* (Hedw.) Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66], **MLD** [367], **RUS-EUR**: ARC [47,

150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159], **TUR** [296], **TAD** [296], **KYR** [296, 349, 351], **RUS-AS**: ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 198, 212, 275], E-SIB [212, 247], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 109, 212] — {13}

**Brachythecium** Bruch et al. [Brachytheciaceae], see also *Brachytheciastrum collinum*, *B. velutinum*, etc., *Sciuro-hypnum oedipodium*, *S. plumosum*, *S. populeum*, *S. reflexum*, etc. — {14}

— **albicans** (Hedw.) Bruch et al. — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 386], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [140], S-FE [67]

— **auriculatum** A.Jaeger — **RUS-AS**: S-FE [77, 109, 212, 268] — {15}

— **buchananii** (Hook.) A.Jaeger (*B. abakanense* Kaal.) — **UZB** [206], **RUS-AS**: S-SIB [69, 70, 198, 212], YAK [239], N-FE [140], S-FE [114, 212, 221]

— **campestre** (Müll.Hal.) Bruch et al. — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 415], KLN [309], C [207, 212], N-UR [150, 207, 415], S-UR [150, 207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TUR** [296], **TAD** [293, 296], **KYR** [267, 296, 351], **RUS-AS**: W-SIB [265], S-SIB [70], E-SIB [163], YAK [212, 258], ARC-FE [40], N-FE [40, 140], S-FE [76, 109, 212] — {16}

— **capillaceum** (F.Weber & D.Mohr) Giacom. (*B. rotaezanum* De Not., *B. salebrosum* subsp. *rotaezanum* (De Not.) J.J.Amann, *B. salebrosum* var. *capillaceum* (F.Weber & D.Mohr) Lorentz) — ?**BEL** [355], **MLD** [367], **RUS-EUR**: NW [289], NE [207, 212], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [212, 231, 248], **GEO** [117], **AZE** [277], **RUS-AS**: W-SIB [265], S-SIB [198, 212, 265], YAK [239], N-FE [140], S-FE [114, 212, 221]

— ?**causicum** Thér. — **GEO** [382] — {17}

— **cirrosom** (Schwägr.) Schimp. (*Cirriphyllum cirrosom* (Schwägr.) Grout) — **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [207, 364, 407], NE [207, 415], N-UR [150, 207, 212], S-UR [150], CAUC [55, 212, 231, 248], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 198, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]

— **complanatum** Broth. — **RUS-AS**: S-SIB [198, 212], E-SIB [388], S-FE [212, 215, 221]

— **coruscum** I.Hagen — **RUS-EUR**: NW [364], **RUS-AS**: ARC-WSIB [128], ARC-ESIB [39], ARC-FE [40, 212], N-FE [40] — {18}

— **erythrorrhizon** Bruch et al. — **LAT** [3], **EST** [237], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 415], N-UR [150, 207], S-UR [150], CAUC [212, 231], **TAD** [296], **RUS-AS**: ARC-WSIB [136], S-SIB [70], ARC-YAK [47], ARC-FE [40], N-FE [140] — {19}

— **erythrorrhizon** subsp. **asiaticum** Ignatov — **RUS-EUR**: NE [207, 212], C [207, 212], S-UR [207, 212], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [198, 212, 265], E-SIB [74, 212, 247], YAK [212, 239], S-FE [212, 221] — {19}

— **frigidum** (Müll.Hal.) Besch. (*Brachythecium asperrimum* (Mitt. ex Müll. Hal.) Sull.) — **KAZ** [356] — {19a}

— **garovaglioides** Müll.Hal. (*B. wichurae* (Broth.) Paris — excluded — {20}

— **geheebii** Milde (*Homalothecium geheebii* (Milde) Wigh) — **UKR**: C [66], **RUS-EUR**: S-UR [150, 207, 212], CAUC [231, 248], **GEO** [117], **ARM** [297], **TUR** [9, 296]

— **glareosum** (Bruch ex Spruce) Bruch et al. — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [207, 212], S-UR [91, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296], **KYR** [267]

— **kuroishicum** Besch. — **RUS-AS**: S-FE [76, 77, 109, 212]

- *?laetum* (Brid.) Bruch et al. (*B. oxycladon* auct. non (Brid.) A. Jaeger) – ?UKR: C [66], ?RUS-EUR: S-UR [150], ?AZE [277]
- *mildeanum* (Schimp.) Schimp. – LTV [244], LAT [3], EST [237], BEL [355], UKR: C [66], M [66], K [66, 328], MLD [367], RUS-EUR: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], GEO [117], AZE [277], KAZ [156, 296, 356], TAD [26, 296], KYR [296], RUS-AS: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 198, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212, 221]
- *rivulare* Bruch et al. – LTV [244], LAT [3], EST [237], BEL [355], UKR: C [66], M [66], K [66, 328], MLD [367], RUS-EUR: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], GEO [117], ARM [297], AZE [277], KAZ [156, 159, 296, 356], UZB [267], TAD [294, 296], KYR [267, 296, 351], RUS-AS: W-SIB [265], S-SIB [69, 70, 198, 212], E-SIB [212, 275], YAK [239], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *rutabulum* (Hedw.) Bruch et al. – LTV [244], LAT [3], EST [237], BEL [355], UKR: C [66], M [66], K [66, 328], MLD [367], RUS-EUR: NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], GEO [117], ARM [297], AZE [277], TAD [294, 296], KYR [296], RUS-AS: W-SIB [265], S-SIB [197, 198, 212], E-SIB [275], S-FE [76, 109, 212, 268, 340]
- *salebrosum* (F. Weber & D. Mohr) Bruch et al. – LTV [244], LAT [3], EST [237], BEL [355], UKR: C [66], M [66], K [66, 328], MLD [367], RUS-EUR: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], GEO [117], ARM [297], AZE [277], KAZ [156, 296, 356], TAD [294, 296], KYR [296, 351], RUS-AS: ARC-WSIB [136], ARC-ESIB [47], W-SIB [212, 265], S-SIB [69, 70, 198, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *tommasinii* (Sendtn. ex Boulay) Ignatov & Huttunen (*Cirriphyllum tenuinerve* (Lindb.) Wijk & Margad., *C. tommasinii* (Sendtn. ex Boulay) Grout) – EST [237], UKR: C [66], M [66], K [66, 328], RUS-EUR: NW [407], N-UR [90], GEO [117], AZE [277] — {21}
- *turgidum* (Hartm.) Kindb. – LAT [3], EST [237], RUS-EUR: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 415], N-UR [150, 207, 212], CAUC [231], KAZ [159, 296, 356], TAD [294, 296], KYR [296], RUS-AS: ARC-WSIB [136], ARC-ESIB [47, 164, 212], W-SIB [265], S-SIB [69, 70, 198, 212], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 140]
- *udum* I. Hagen – RUS-EUR: ARC [414], NW [85, 212, 364, 287], NE [414], RUS-AS: ARC-WSIB [136], ARC-ESIB [47], S-SIB [69, 70], E-SIB [163], ARC-YAK [47], YAK [239], ARC-FE [40, 212], N-FE [140]
- Breidleria* Loeske [Pylaisiaceae], see also *Calliergonella*
- *pratensis* (W.D.J. Koch ex Spruce) Loeske (*Hypnum pratense* W.D.J. Koch ex Spruce) – LTV [244], LAT [3], EST [237], BEL [355], UKR: C [66], M [66], RUS-EUR: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 415], S-UR [150, 207], RUS-AS: ARC-WSIB [136], ARC-ESIB [164], W-SIB [265], S-SIB [197, 200, 212], E-SIB [212, 386], YAK [212, 239], ARC-FE [40], N-FE [40, 140], S-FE [76, 109, 212]
- Brothera* Müll. Hal. [Leucobryaceae]
- *leana* (Sull.) Müll. Hal. – RUS-AS: S-SIB [69, 70, 212], S-FE [76, 212, 221]
- Brotherella* Loeske ex M. Fleisch. [Pylaisiadelphaceae], see also *Pylaisiadelpha*
- *henonii* (Duby) M. Fleisch. – RUS-AS: S-FE [77]
- Bryhnia* Kaurin [Brachytheciaceae]
- *hultenii* E. B. Bartram – RUS-AS: N-FE [40, 140], S-FE [109, 212, 221]
- *novae-angliae* (Sull. & Lesq.) Grout (?*B. brachycladula* Cardot, ?*B. noesica* (Besch.) Broth.) – RUS-AS: S-SIB [69, 212], N-FE [140], S-FE [77, 109, 212, 221]
- *scabrida* (Lindb.) Kaurin – RUS-EUR: NE [207], C [207], S-UR [207], RUS-AS: W-SIB [335], S-SIB [198, 205, 207], YAK [239]



**Bryobrittonia** R.S.Williams [Encalyptaceae]

- *longipes* (Mitt.) D.G.Horton – **RUS-EUR**: ARC [150, 415], NE [17], N-UR [150, 415], **KAZ** [296, 356], **RUS-AS**: ARC-ESIB [164, 193, 212], S-SIB [69, 70, 193, 212], E-SIB [193, 212], ARC-YAK [47, 212, 239], YAK [193, 212, 239], ARC-FE [40, 193, 212]

**Bryochenca** C.Gao & G.C.Zhang [Thuidiaceae], see also *Echinophyllum sachalinense*

- *vestitissima* (Besch.) Touw (*Thuidium vestitissimum* Besch.) – **RUS-AS**: S-FE [76, 212]

**Bryoerythrophyllum** P.C.Chen [Pottiaceae]

- *alpigenum* (Venturi) P.C.Chen (*B. recurvirostrum* var. *dentatum* (Schimp.) H.A.Crum, Steere & L.E.Anderson) – **UKR**: C [66], **TAD** [295], **RUS-AS**: S-SIB [197, 212], YAK [239], ARC-FE [40]
- *ferruginascens* (Stirt.) Giacom. – **RUS-EUR**: ARC [47], CAUC [212, 231, 248], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [212, 227], E-SIB [163], ARC-YAK [227, 239], YAK [227, 239], ARC-FE [40, 212], N-FE [40], S-FE [212, 221, 227]
- *inaequalifolium* (Taylor) R.H.Zander – **RUS-AS**: S-SIB [196, 212]
- *recurvirostrum* (Hedw.) P.C.Chen – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [296], **UZB** [296], **TAD** [294, 295], **KYR** [267, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 212]
- *recurvirostrum* var. *brevifolium* (Lindb. & Arnell) Podp. – **RUS-AS**: ARC-FE [40]
- *rotundatum* (Lindb. & Arnell) P.C.Chen – **TAD** [295], **RUS-AS**: ARC-ESIB [275], E-SIB [163]
- *rubrum* (Jur. ex Geh.) P.C.Chen – **RUS-EUR**: CAUC [102], **RUS-AS**: ARC-ESIB [39], ARC-FE [40]

**Bryohaplocladium** see *Haplocladium***Bryonoguchia** Z.Iwats. & Inoue [Thuidiaceae]

- *molkenboeri* (Sande Lac.) Z.Iwats. & Inoue (*Thuidium molkenboeri* Sande Lac.) – **RUS-AS**: S-FE [76, 109, 212]

**Bryoxiphium** Mitt. [Bryoxiphiaceae]

- *norvegicum* (Brid.) Mitt. – **RUS-AS**: YAK [239], ARC-FE [40]
- *norvegicum* var. *japonicum* (Berggr.) A.Löve & D.Löve (*B. savatieri* (Husn.) Mitt.) – **RUS-AS**: N-FE [110, 140], S-FE [76, 77, 212, 311, 358]

**Bryum** Hedw. [Bryaceae] — {22} {23}

- *alexandri* H.Philib. – **KAZ** [296] — {23}
- *algovicum* Sendtn. ex Müll.Hal. (*B. pendulum* (Horns.) Schimp., *B. jailae* Sapjegin, *B. algovicum* fo. *jailae* (Sapjegin) L.I.Savicz, *B. ardonense* Breidl.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: ARC [47, 150], NW [207, 364, 407], KLN [309], C [207, 212, 345], N-UR [90, 150, 207, 415], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157], **TUR** [296], **TAD** [296], **KYR** [351], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], S-FE [76]
- *alpinum* Huds. ex With. (*Imbriobryum alpinum* (Huds. ex With.) N.Pedersen) – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: SE [207], CAUC [231], **GEO** [117], **ARM** [297], **KAZ** [23], **TUR** [296], **TAD** [19, 296], **KYR** [296], **RUS-AS**: S-SIB [197, 212], N-FE [140]
- *altaicum* Broth. – **RUS-AS**: S-SIB [70] — {23}
- *amblyodon* Müll.Hal. – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [90, 207], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [275], S-SIB [69, 197, 212], E-SIB [212, 247, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 212] — {24}
- *amblyphyllum* H.Philib. – **KYR** [296] — {23}
- *archangelicum* Bruch et al. – **LAT** [3], **RUS-EUR**: ARC [47, 150, 415], NW [85, 212, 364], N-UR [150, 415], CAUC [231], **RUS-AS**: ARC-WSIB [136], ARC-EIB [275], S-SIB [275], E-SIB [212, 247, 275], ARC-YAK [47, 239], YAK [420], N-FE [140] — {24}

- *arcticum* (R. Br.) Bruch et al. – **LAT** [3], **EST** [237], **RUS-EUR**: ARC [47, 150, 415], NW [364, 407], NE [207], N-UR [207], CAUC [231], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [70, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40], S-FE [340, ?76] — {25}
- *arcticum* var. *kunzeanum* H.Philib. – **KAZ** [359]
- *argenteum* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 159, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [267, 296, 351], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212, 221]
- *argyroglyphodon* H.Philib. – **KYR** [296] — {23}
- *axel-blyttii* Kaurin ex H.Philib. (*B. acutum* Lindb.) – **RUS-EUR**: ARC [47, 150], NW [364], N-UR [150], S-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [275], E-SIB [275, 420], ARC-YAK [47, 212, ?239], YAK [420] — {26}
- *axillare* H.Philib. – **KAZ** [359] — {23}
- *badium* (Bruch ex Brid.) Schimp. – **EST** [397], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: KLN [309], S-UR [150], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [70]
- *bimum* (Schreb.) Turner (*Plagiobryum bimum* (Schreb.) N.Pedersen) – **LTV** [244], **LAT** [3], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 364, 407], NE [207], KLN [309], C [207, 212], N-UR [150], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231], **GEO** [117], **KAZ** [23], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-ESIB [275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [275, 388], YAK [239], N-FE [140], S-FE [76, 77]
- *blindii* Bruch et al. – **LAT** [3], **EST** [237], **GEO** [117], **KAZ** [156, 157], **RUS-AS**: S-SIB [70] + MID-AS [296]
- *bryoides* (R. Br.) Wijk & Margad. – **RUS-EUR**: NW [364] — {25}
- *bryoides* var. *terskeanum* (H.Philib.) L.I.Savicz – **KAZ** [157], **KYR** [296] — {25}
- *caespitium* Hedw. (incl. *B. comense* Schimp.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [267, 296, 351], **RUS-AS**: ARC-WSIB [136, 275], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 247, 275], ARC-YAK [239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [212, 221] — {27}
- *calvicola* Arnell – **RUS-EUR**: ARC [47], S-UR [150], **RUS-AS**: E-SIB [65], ARC-YAK [47, ?239]
- *calophyllum* R.Br. – **LAT** [3], **EST** [237], **RUS-EUR**: ARC [47], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136, 275], ARC-ESIB [420], ARC-YAK [47, ?239], ARC-FE [40, 212], N-FE [40] — {26}
- *capillare* Hedw. (*Plagiobryum capillare* (Hedw.) N.Pedersen, *Bryum kaernbachii* Müll.Hal.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [76, 77, 109, 212]
- *caucasicum* (Schimp. ex Broth.) C.J.Cox & Hedd. (*Mielichhoferia himalayana* Mitt.) – **RUS-EUR**: CAUC [102, 212, 248], **TAD** [296]
- *congestiflorum* H.Philib. – **KYR** [296] — {23}
- *crassimucronatum* H.Philib. – **KYR** [296] — {23}
- *creberrimum* Taylor – **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 212], KLN [309], C [207, 212], N-UR [150, 207, 212, 415],

- S-UR [150, 207, 212, 275], SE [207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [23, 296], **TAD** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 275], W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [212, 247, 275], YAK [239], ARC-FE [40], N-FE [140], S-FE [37, 212]
- *cremocarpum* Laz. – **TAD** [296] — {23}
- *cryophilum* Mårtensson (*B. tortifolium* Brid.) – **RUS-EUR**: NW [84], N-UR [150, 207], CAUC [212, 231, 248], **ARM** [297], **RUS-AS**: ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [212, 221]
- *culmannii* Limpr. – **RUS-EUR**: NW [364]
- *cyclophyllum* (Schwägr.) Bruch et al. (*Plagiobryum cyclophyllum* (Schwägr.) N.Pedersen) – **LTV** [244], **LAT** [3], **BEL** [355], **RUS-EUR**: ARC [47, 150], NW [207, 364, 407], KLN [309], C [207, 212], N-UR [150, 207], S-UR [89], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212, 275], W-SIB [147, 212], S-SIB [197, 212], E-SIB [74, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [38, 212], N-FE [140], S-FE [212, 221]
- *dichotomum* Hedw. (*Bryum bicolor* Dicks.) – **LTV** [244], **EST** [397], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NE [90, 212], KLN [309], C [207, 345], N-UR [90, 207], S-UR [150, 207], SE [207, 212], CAUC [231, 232, 250], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [296], **TAD** [296], **KYR** [267, 296], **RUS-AS**: ARC-ESIB [164], YAK [239], S-FE [76]
- *donianum* Grev. – **AZE** [277]
- *ehlei* Arnell – **RUS-AS**: ARC-YAK [47, 239] — {23}
- *ekstamii* L.I.Savicz – **RUS-EUR**: ARC [247, 360, 361]
- *elegans* Nees (incl. *Bryum stirtonii* Schimp.) – **LAT** [3], **EST** [397], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [212, 273, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231], **GEO** [117], **TUR** [296], **TAD** [296], **KYR** [267, 296], **RUS-AS**: ARC-WSIB [2136], ARC-ESIB [164, 420], S-SIB [197, 212], ARC-FE [40], N-FE [40, 140], S-FE [76, 109, 212, 221] — {28}
- *enisense* L.I.Savicz – **RUS-AS**: E-SIB [360] — {23, 29}
- *funckii* Schwägr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [2355], **UKR**: C [66], M [66], **RUS-EUR**: NE [207, 212, 416], C [207, 212, 345], S-UR [150, 207, 275], SE [207], CAUC [248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 296, 356], **TUR** [296], **TAD** [293, 296], **KYR** [296], **UZB** [267], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [69], E-SIB [74, 212, 275], S-FE [76]
- *gemmilucens* R.Wilczek & Demaret – **LTV** [244], **UKR**: K [328], **TUR** [296]
- *gemmparum* De Not. – **UKR**: C [66], K [66, 328], **GEO** [117], **AZE** [277], **TUR** [368]
- *intermedium* (Brid.) Blandow – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 291], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [207], S-UR [150, 207, 212], CAUC [231], **GEO** [117], **KAZ** [157, 296], **KYR** [296], **RUS-AS**: ARC-ESIB [164, 275], W-SIB [265], S-SIB [69], E-SIB [275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [140] — {30}
- *jailae* Sapjegin – **UKR**: K [66]
- *klingsraeffii* Schimp. – **LTV** [244], **EST** [237], **BEL** [355], **UKR**: C [66], M [398], **RUS-EUR**: C [207, 420]
- *knowltonii* Barnes – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: NW [207, 212, 364, 407], C [207], ?N-UR [150], **RUS-AS**: ARC-ESIB [420], YAK [239], ARC-FE [420], S-FE [275]
- *kunzei* Hornsch. – **UKR**: C [66], M [66], **RUS-EUR**: C [207, 345], S-UR [150, 207], SE [207, 366], CAUC [208, 212, 231, 248], **TAD** [294], **RUS-AS**: S-SIB [70, 212]
- *labradorensis* H.Philib. – **RUS-EUR**: ARC [47, 150], NW [364], S-UR [150, 212], **RUS-AS**: ARC-WSIB [136]
- *laevifilum* see *B. moravicum*
- *lapponicum* Kaurin, nom. illeg. – **RUS-EUR**: NW [364] — {31}
- *leptoglyphodon* H.Philib. – **KAZ** [296, 356], **UZB** [359], **TAD** [296, 359], **KYR** [296, 359]
- *leucoglyphodon* H.Philib. – **KAZ** [296], **KYR** [296] — {23}
- *lonchocaulon* Müll.Hal. (*B. saxatile* I.Hagen) – **BEL** [355\*], **UKR**: C [66], M [66], K [66, 328], **MLD**

- [367], **RUS-EUR**: NW [207, 364, 407], NE [207], C [207, 212], N-UR [207], S-UR [207, 212], SE [207, 212], CAUC [231], **GEO** [117\*], **AZE** [277], **KAZ** [296, 356], **TAD** [294, 296], **KYR** [296], **RUS-AS**: ARC-ESIB [275], W-SIB [147, 212], S-SIB [69, 70, 212], E-SIB [69, 212, 275], YAK [239], N-FE [140] — {32}
- *longisetum* Blandow ex Schwägr. – **BEL** [355], **RUS-EUR**: NW [364], KLN [309], C [423], **RUS-AS**: S-SIB [420]
- *marratii* Hook. f. & Wilson – **LAT** [3], **EST** [237], **RUS-AS**: S-SIB [420]
- *mayrii* Broth. – **RUS-AS**: S-FE [67, 361]
- *microcalophyllum* H.Philib. – **KYR** [296] — {23}
- *mildeanum* Jur. – **UKR**: C [66], **RUS-EUR**: NW [364], CAUC [232], **GEO** [117], MID-AS [296], **RUS-AS**: S-SIB [420]
- *mirabile* Müll.Hal. – **RUS-AS**: ARC-FE [40]
- *mollifolium* H.Philib. – **KYR** [296] — {23}
- *moravicum* Podp. (*B. laevifilum* Syed, *B. subelegans* auct. non Kindb.) – **LTV** [244], **LAT** [3], **EST** [237, 397], **BEL** [355], **UKR**: [66], K [328], **MLD** [367], **RUS-EUR**: NW [207, 212, 289, 364], NE [207, 212], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TUR** [368], **TAD** [296], **KYR** [267, 296], **UZB** [267], **RUS-AS**: S-SIB [70, 212], E-SIB [388], YAK [239], N-FE [40, 140], S-FE [212, 77, 221]
- *mucronifolium* H.Philib. – **KYR** [296] — {23}
- *muehlenbeckii* Bruch et al. (*Imbriobryum muehlenbeckii* (Bruch et al.) N.Pedersen) – **RUS-EUR**: NW [364, 407], CAUC [231], **GEO** [117], **RUS-AS**: S-SIB [212, 334]
- *murale* Wilson ex Hunt – **GEO** [117]
- *murmanicum* Broth. – **RUS-EUR**: NW [85, 212, 364]
- *neodamense* Itzigs. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **RUS-EUR**: ARC [47, 150, 415], NW [364], KLN [309], N-UR [150, 415], CAUC [231], **RUS-AS**: ARC-WSIB [?136], ARC-ESIB [164, 275, 420], W-SIB [265], S-SIB [70], E-SIB [275, 388], ARC-YAK [47, 239], YAK [239], N-FE [420], S-FE [76] — {33}
- *nitidulum* Lindb. – **RUS-EUR**: ARC [47], **RUS-AS**: ARC-WSIB [?47], ARC-ESIB [?47], ARC-YAK [47, ?239], ARC-FE [40, 212] — {30}
- *oblongum* Lindb. – **LAT** [3], **RUS-EUR**: NW [85, 212, 364], NE [207], C [420], **RUS-AS**: E-SIB [275], YAK [239]
- *obtusidens* Arnell – **RUS-AS**: ARC-YAK [47, 239] — {23}
- *pallens* Sw. ex anon. (*Plagiobryum pallens* (Sw. ex anon.) N.Pedersen) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [150, 207, 415], S-UR [150, 207, 212], SE [207], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], W-SIB [212, 265], S-SIB [70, 212], E-SIB [275, 388], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 109, 212]
- *pallescens* Schleich. ex Schwägr. (*Plagiobryum pallescens* (Schleich. ex Schwägr.) N.Pedersen, *B. obconicum* Hornsch. ex Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355\*], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [212, 364, 407], NE [207, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207], CAUC [212, 231], **GEO** [117\*], **ARM** [297], **AZE** [277], **KAZ** [157, 296], **TUR** [296], **TAD** [296], **KYR** [296], **UZB** [267], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, ?247], ARC-YAK [47, ?239], YAK [?239], ARC-FE [40], N-FE [140] — {32}
- *pallescens* var. *microblastum* (Müll.Hal.) Podp. – **RUS-AS**: ARC-FE [40] — {23}
- *pallescens* var. *pootonense* Podp. – **RUS-AS**: ARC-FE [40] — {23}
- *pallescens* var. *turkestanicum* (Podp.) L.I.Savicz – **KYR** [296] — {23}
- *pamirense* H.Philib. ex Broth. – **RUS-EUR**: ?NE [416], **TAD** [296] — {23}
- *pamiro-mucronatum* H.Philib. ex Broth. – **TAD** [296] — {23}
- *pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Scherb. (*Plagiobryum pseudotriquetrum* (Hedw.)

- N.Pedersen) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 296, 356], **TAD** [294, 296], **KYR** [296], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 212]
- *purpurascens* (R. Br.) Bruch et al. (*Plagiobryum purpurascens* (R. Br.) N.Pedersen, *B. serotinum* Lindb.) – **RUS-EUR**: ARC [47, 150, 415], NW [85, 212, 364], NE [207, 415], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212, 263, 275], W-SIB [212, 265], S-SIB [69], ARC-YAK [?47], YAK [?239], ARC-FE [?40] — {25}
- *pygmaeomucronatum* H.Philib. – **KYR** [296] — {23}
- *radiculosum* Brid. – **RUS-EUR**: CAUC [231, 232, 250], **ARM** [297], **RUS-AS**: S-FE [420]
- *rubens* Mitt. – **LTV** [244], **LAT** [3], **EST** [396], **BEL** [355], **UKR**: C [66, 398], M [66, 398], **RUS-EUR**: NW [420], KLN [309], C [207, 345], N-UR [207], SE [207], CAUC [232, 420], **ARM** [297], **AZE** [361]
- *rudemale* Crundw. & Nyholm – **LTV** [244], **UKR**: M [398], **AZE** [277]
- *rutilans* Brid. – **RUS-EUR**: ARC [47, 150], NW [85, 212, 291, 364], NE [415], N-UR [150], **TUR** [296], **RUS-AS**: ARC-ESIB [47, 50, 275], ARC-YAK [49, 239], ARC-FE [40, 140]
- *salinum* I.Hagen ex Limpr. – **EST** [237], **RUS-EUR**: ARC [47], NW [85, 212, 291, 364], S-UR [373], **RUS-AS**: ARC-ESIB [420], YAK [239], S-FE [109]
- *sauteri* Bruch et al. – **RUS-EUR**: C [419], CAUC [102]
- *savicziae* Schljakov – **RUS-EUR**: NW [362], **RUS-AS**: S-SIB [420]
- *schleicheri* DC. – **LTV** [244], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [364], NE [416], C [207], N-UR [150], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [267, 296, 351], **UZB** [267], **RUS-AS**: ARC-ESIB [164], W-SIB [212, 265], S-SIB [70, 212], E-SIB [163, 388], ARC-FE [40], N-FE [140], S-FE [67, as *B. turbinatum*] — {34}
- *sibiricum* Lindb. & Arnell – **RUS-AS**: E-SIB [275], YAK [?239]
- *spinifolium* H.Philib. – **KYR** [296] — {23}
- *subapiculatum* Hampe (*B. erythrocarpum* auct. partim, *B. microerythrocarpum* Müll.Hal. & Kindb. ex Macoun) – **LTV** [244], **EST** [237], **UKR**: M [398], K [328, 398], **RUS-EUR**: NW [207, 420], C [207, 212, 345], S-UR [150], SE [207, 212, 366], **GEO** [117], **RUS-AS**: S-FE [79, 212]
- *subcalophyllum* (H.Philib.) Paris – **KYR** [296] — {23}
- *submucronatum* H.Philib. – **KYR** [296] — {23}
- *taimyrense* Broth. & Bryhn – **RUS-AS**: ARC-ESIB [361], ARC-YAK [47, ?239]
- *tardum* Bomanss. – excluded — {34}
- *tenuisetum* Limpr. – **UKR**: M [405] — {34}
- *teres* Lindb. – **RUS-EUR**: ARC [47], NW [364], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212]
- *terskeiense* Paris (*B. paradoxum* H.Philib.) – **KYR** [296] — {23}
- *tesselatum* H.Philib. – **KYR** [296] — {23}
- *timmiostomoides* H.Philib. – **KAZ** [296, 356], **KYR** [296] — {23}
- *torquescens* Bruch et al. – **UKR**: K [66, 328], **RUS-EUR**: CAUC [212, 232], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [368], **TAD** [296], **KYR** [296]
- *turbinatum* (Hedw.) Turner (*B. planiusculum* Lindb. & Arnell) – **LTV** [244], **LAT** [3], **EST** [396], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207], NE [207], KLN [309], C [207, 212], N-UR [150], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **UZB** [347], **TAD** [296], **KYR** [267, 296], **RUS-AS**: E-SIB [388], YAK [239] — {34}
- *uliginosum* (Brid.) Bruch et al. (*Plagiobryum uliginosum* (Brid.) N.Pedersen) – **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 283, 364], NE [207, 212], KLN [309], C [207, 212], CAUC [212, 248], **GEO** [117], **ARM** [297], **TAD** [296], **RUS-AS**: W-SIB [265], S-SIB [197, 212], E-SIB [388], N-FE [140], S-FE [77, 109, 212]

- *umbratum* I.Hagen – **RUS-EUR**: NW [364]
- *utriculatum* Müll.Hal. – **RUS-AS**: ARC-FE [40] — {23}
- *vernum* H.Philib. – **KYR** [296] — {23}
- *veronense* De Not. – **UKR** [66]
- *violaceum* Crundw. & Nyholm – **LTV** [244], **UKR**: M [398], **RUS-EUR**: NW [283], C [207, 212, 345], **RUS-AS**: W-SIB [420]
- *warneum* (Röhl.) Brid. (*B. mamillatum* Lindb., *B. oelandicum* H.Philib.) – **LAT** [3], **EST** [237], **BEL** [355], **RUS-EUR**: KLN [309], C [207], **RUS-AS**: S-SIB [69, 70], YAK [239]
- *weigeli* Spreng. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [231], **GEO** [117], **ARM** [297], **AZE** [277], **KYR** [296], **RUS-AS**: ARC-ESIB [93], W-SIB [265], S-SIB [197, 212], E-SIB [275], ARC-YAK [47], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [114]
- *wrightii* Sull. (*Plagiobryum wrightii* (Sull.) N.Pedersen) – **RUS-EUR**: ARC [47, 150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], E-SIB [163, 275], ARC-YAK [47, 239], YAK [?239], ARC-FE [40, 212], N-FE [40]
- *zemliae* Arnell & Jäderh. – **RUS-EUR**: ARC [47] — {23}
- Bucklandiella** Roiv. [Grimmiaceae]
- *affinis* (F.Weber & D.Mohr) Bednarek-Ochyra & Ochyra (*Racomitrium affine* (Schleich. ex F.Weber & D.Mohr) Lindb.) – **UKR**: [66], **RUS-EUR**: NW [407], **RUS-AS**: S-SIB [70]
- *afoninae* (Frisvoll) Bednarek-Ochyra & Ochyra (*Racomitrium afoninae* Frisvoll) – **RUS-AS**: ARC-FE [40, 212]
- *heterosticha* (Hedw.) Bednarek-Ochyra & Ochyra (*Racomitrium heterostichum* (Hedw.) Brid.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207, 407], NE [212], ?N-UR [415], KLN [309], C [207, 212], **GEO** [117] — {35}
- *laeta* (Besch. & Cardot) Bednarek-Ochyra & Ochyra (*Racomitrium laetum* Besch. & Cardot) – **RUS-AS**: S-FE [212, 221]
- *macounii* (Kindb.) Bednarek-Ochyra & Ochyra subsp. *alpina* (E.Lawton) Bednarek-Ochyra & Ochyra (*Racomitrium macounii* subsp. *alpinum* (E.Lawton) Frisvoll) – **RUS-EUR**: CAUC [55, 212, 231]
- *microcarpa* (Hedw.) Bednarek-Ochyra & Ochyra (*Racomitrium microcarpon* (Hedw.) Brid.) – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150, 415], NW [207, 212, 364, 407], C [207, 212], N-UR [90, 150, 207, 212, 415], S-UR [150, 207, 212], **RUS-AS**: S-SIB [69, 70, 202, 212], E-SIB [74, 212, 247], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 212, 221]
- *microcarpa* fo. *afoninae* (Frisvoll) Bednarek-Ochyra & Ochyra – **RUS-AS**: ARC-FE [40]
- *nitidula* (Cardot) Bednarek-Ochyra & Ochyra – **RUS-AS**: N-FE [140]
- *sudetica* (Funck) Bednarek-Ochyra & Ochyra (*Racomitrium sudeticum* (Funck) Bruch et al.) – **EST** [397], **UKR**: C [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [212, 273, 364, 407], N-UR [150, 207, 212, 415], S-UR [150, 207], CAUC [55, 212, 231, 248], **GEO** [18, 117], **ARM** [297], **RUS-AS**: ARC-ESIB [212, 263], S-SIB [69, 70, 202, 212], E-SIB [74, 212, 247], ARC-YAK [47], YAK [239], ARC-FE [40], N-FE [140], S-FE [212, 221]
- *sudetica* fo. *terricola* (Frisvoll) Bednarek-Ochyra & Ochyra – **RUS-AS**: ARC-FE [40]
- Buxbaumia** Hedw. [Buxbaumiaceae]
- *aphylla* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], **GEO** [117], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 275], YAK [239], ARC-FE [40], N-FE [94, 110, 140], S-FE [109, 212, 221]
- *minakatae* S.Okamura – **RUS-AS**: S-SIB [69, 70, 197, 212], S-FE [76, 212]
- *viridis* (Moug. ex Lam. & DC.) Brid. ex Moug. & Nestl. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [328], **RUS-EUR**: KLN [309], NW [261], CAUC [55, 212, 231], **GEO** [117], **AZE** [277]
- Callialaria* see *Cratoneuron*
- Callicladium** H.A.Crum [Pylaisiaceae]
- *haldanianum* (Grev.) H.A.Crum (*Heterophyllum haldanianum* (Grev.) Kindb.) – **LTV** [244], **LAT**

[3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **KAZ** [296, 356], **RUS-AS**: W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-FE [40], N-FE [140], S-FE [76, 77, 109, 212]

**Calliergon** (Sull.) Kindb. [Calliergonaceae], see also *Straminergon stramineum*, *Warnstorfia sarmentosa*, *Pseudocalliergon trifarium*

— **cordifolium** (Hedw.) Kindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **TAD** [26, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]

— **giganteum** (Schimp.) Kindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212], **GEO** [117], **AZE** [277], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 197, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212, 221]

— **megalophyllum** Mikut. – **LAT** [3], **EST** [237], **RUS-EUR**: ARC [47, 127], NW [207, 407], NE [207], C [207], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], E-SIB [163], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [94, 140]

— **richardsonii** (Mitt.) Kindb. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], CAUC [212, 248], **GEO** [117], **KAZ** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [114, 212, 221]

**Calliergonella** Loeske [Pylaisiaceae] — {36}

— **cuspidata** (Hedw.) Loeske – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **UZB** [267], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [93, 96, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 247], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]

— **lindbergii** (Mitt.) Hedenäs (*Hypnum lindbergii* Mitt., *Breidleria arcuata* (Molendo) Loeske) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]

*Camptothecium* see *Homalothecium lutescens*, *Tomentypnum nitens* (= *Camptothecium trichoides*)

**Campyliadelphus** (Kindb.) R.S.Chopra [Amblystegiaceae]

— **chrysophyllum** (Brid.) R.S.Chopra (*Campylium chrysophyllum* (Brid.) Lange) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 273, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [47, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 114, 212]

— **elodes** (Lindb.) Kanda (*Campylium elodes* (Lindb.) Kindb.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **ARM** [297], **RUS-EUR**: NW [407], **RUS-AS**: S-FE [76]

**Campylidium** (Kindb.) Ochyra [Amblystegiaceae] — {37}

- **calcareum** (Crundw. & Nyholm) Ochyra (*Campylium calcareum* Crundw. & Nyholm, *Campylophyllum calcareum* (Crundw. & Nyholm) Hedenäs) — **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [63, 291, 364], NE [416], C [207, 212, 345], N-UR [207], S-UR [212, 422], SE [207], **RUS-AS**: YAK [239], ARC-FE [40], N-FE [40]
- **hispidulum** (Brid.) Ochyra (*Campylium hispidulum* (Brid.) Mitt., *Campylophyllum hispidulum* (Brid.) Hedenäs) — **RUS-EUR**: ?ARC [47, 150], ?NW [212], ?C [212, 345], ?N-UR [150], ?S-UR [150, 212], ?GEO [117], ?KAZ [296], **RUS-AS**: ?ARC-WSIB [136], ?W-SIB [212, 265], ?S-SIB [69, 70, 212], ?E-SIB [69, 212], ?ARC-YAK [47, 239], ?YAK [212, 239], ?ARC-FE [40], ?N-FE [94, 140], ?S-FE [76, 77, 109, 212] — {38}
- **sommerfeltii** (Myrin) Ochyra (*Campylium sommerfeltii* (Myrin) Lange, *Campylophyllum sommerfeltii* (Myrin) Hedenäs) — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [231, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [239], YAK [212, 239], N-FE [40, 140], S-FE [76, 109, 212]

**Campylium** (Sull.) Mitt. [Amblystegiaceae], see also *Amblystegium radicale*, *Campylidium sommerfeltii*, etc., *Campyliadelphus chrysophyllus*, etc., *Campylophyllum halleri*, *Drepanocladus polygamus*, *D. arcticus* (= *Campylium zemliae*), *Podperaea krylovii*

- **longicuspis** (Lindb. & Arnell) Hedenäs — **RUS-AS**: ARC-WSIB [136], ARC-ESIB [47, 275], S-SIB [197], E-SIB [163, 275], ARC-YAK [47, 239], ARC-FE [40] — {39}
- **protensum** (Brid.) Kindb. (*C. stellatum* subsp. *protensum* (Brid.) C.E.O.Jensen, *C. stellatum* var. *protensum* (Brid.) Bryhn) — **LTV** [244], **LAT** [1], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: ARC [47], NW [212, 273, 364, 407], NE [414], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 140], S-FE [79, 212]
- **squarrosulum** (Besch. & Cardot) Kanda — **RUS-AS**: S-FE [78, 178] — {40}
- **stellatum** (Hedw.) C.E.O.Jensen — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 212], S-UR [150, 212], CAUC [55, 212], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TAD** [26, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212, 221] — {41}

**Campylophyllum** (Schimp.) M.Fleisch. [Amblystegiaceae]

- **halleri** (Hedw.) M.Fleisch. (*Campylium halleri* (Hedw.) Lindb.) — **EST** [237], **UKR**: C [66], **RUS-EUR**: NW [364, 407], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 212], **GEO** [13, 117], **ARM** [297], **RUS-AS**: ARC-ESIB [93], S-SIB [69, 70, 212], YAK [212, 239], S-FE [114]

**Campylopus** Brid. [Leucobryaceae]

- **atrovirens** De Not. — **RUS-AS**: N-FE [140]
- **flexuosus** (Hedw.) Brid. — **RUS-EUR**: KLN [309], **GEO** [117]
- **fragilis** (Brid.) Bruch et al. — **UKR**: C [66], M [66], **RUS-EUR**: CAUC [102, 248], **RUS-AS**: S-SIB [197, 212], S-FE [178]
- **gracilis** (Mitt.) A.Jaeger (*C. schwarzii* Schimp.) — **UKR**: C [66]
- **introflexus** (Hedw.) Brid. — **LTV** [244], **LAT** [5], **RUS-EUR**: KLN [309, 352]
- **pyrifomis** (Schultz) Brid. — **EST** [237], **RUS-EUR**: KLN [309], **GEO** [31, 117], **RUS-AS**: S-FE [76, 268]
- **schimperi** Milde (*C. subulatus* var. *schimperi* (Milde) Husn.) — **RUS-EUR**: CAUC [55, 102, 212, 248], **GEO** [102], **RUS-AS**: ARC-ESIB [?47], S-SIB [197, 212], ARC-FE [40], N-FE [140], S-FE [212, 221]
- **subulatus** Schimp. ex Milde — **RUS-EUR**: NW [364], ?CAUC [31, 231], **RUS-AS**: ARC-FE [40], N-FE [140]
- **umbellatus** (Arn.) Paris — **RUS-AS**: N-FE [235]



**Campylostelium** Bruch et al. [Ptychomitriaceae]

- *pitardii* (Corb.) E.Maier (*Grimmia pitardii* Corb., *Usmania campylopoda* Laz.) – **TUR** [296], **UZB** [306], **TAD** [295, 296] — {42}
- *saxicola* (F.Weber & D.Mohr) Bruch et al. – **UKR**: C [66, 413]
- *strictum* Solms – **UKR**: C [66, 413] — {43}

**Catoscopium** Brid. [Catoscopiaceae]

- *nigritum* (Hedw.) Brid. – **LAT** [3], **EST** [237], **BEL** [355], **RUS-EUR**: ARC [47, 414], NW [207, 212, 364, 407], NE [207, 415], C [207], **GEO** [13], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 275], S-SIB [69, 70, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 94], S-FE [114]

**Ceratodon** Brid. [Ditrichaceae]

- *conicus* (Hampe) Lindb. (*C. purpureus* var. *conicus* (Hampe) Husn.) – **EST** [237], **RUS-EUR**: CAUC [102], **GEO** [102, 117]
- *heterophyllus* Kindb. (*C. purpureus* var. *rotundifolius* Berggr.) – **RUS-EUR**: ARC [42], **RUS-AS**: ARC-WSIB [47], ARC-ESIB [47, 50, 164], ARC-YAK [239], ARC-FE [40], N-FE [140] — {44}
- *purpureus* (Hedw.) Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TUR** [296], **TAD** [294, 295], **KYR** [351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]

**Cinclidium** Sw. [Mniaceae]

- *arcticum* (Bruch et al.) Schimp. – **RUS-EUR**: ARC [47], N-UR [150, 415], **ARM** [297], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [126, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 94]
- *latifolium* Lindb. (*C. minutifolium* Broth.) – **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140] — {45}
- *stygium* Sw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 345], N-UR [90, 150, 207, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [96, 212], W-SIB [265], S-SIB [70, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [40, 140]
- *subrotundum* Lindb. – **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140]

**Cinclidotus** P.Beauv. [Pottiaceae]

- *aquaticus* (Hedw.) Bruch et al. – **UKR**: K [66, 328]
- *danubicus* Schiffn. & Baumgartner – **LAT** [3], **BEL** [355]
- *fontinaloides* (Hedw.) P.Beauv. – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: CAUC [55, 208, 212], **GEO** [117], **AZE** [277], **KAZ** [157, 393], **KYR** [296], **UZB** [267]
- *riparius* (Host ex Brid.) Arn. – **UKR**: K [328], **RUS-EUR**: CAUC [55, 212], **GEO** [117], **ARM** [297], **KAZ** [156, 157, 159], **UZB** [347], **TAD** [294, 295], **KYR** [296, 349, 351], **RUS-AS**: S-SIB [70, 197]

**Cirriphyllum** Grout [Brachytheciaceae], see also *Brachythecium cirrosum*, *B. tommasinii* (= *C. tenuinerve*, *C. vaucheri*), *Sciuro-hypnum flotowianum* (= *C. velutinoides*, *C. reichenbachianum*)

- *crassinervium* (Taylor) Loeske & M.Fleisch. (*Eurhynchium crassinervium* (Taylor) Schimp.) – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: CAUC [55, 208, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [296], **KYR** [350]
- *piliferum* (Hedw.) Grout – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: ARC [150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117],

- ARM** [297], **AZE** [277], **KAZ** [156], **KYR** [296], **RUS-AS**: W-SIB [212, 265], S-SIB [69, 70, 198, 212], E-SIB [69, 212, 275], S-FE [77, 212]
- Claopodium** (Lesq. & James) Renauld & Cardot [\*Leskeaceae]  
 — *crispifolium* (Hook.) Renauld & Cardot – excluded — {46}  
 — *pellucinerve* (Mitt.) Best – **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], N-FE [140], S-FE [76, 77, 109, 212]  
 — *rostratum* (Hedw.) Ignatov, comb. nov. – *Leskea rostrata* Hedw., Spec. Musc. Frond. 225. tab. 55 figs. 13–18. 1801. (*Anomodon rostratus* (Hedw.) Schimp.) – **UKR**: C [66], **RUS-EUR**: CAUC [55, 102, 212], **GEO** [117] — {47}
- Cleistocarpidium** Ochyra & Bednarek-Ochyra [Ditrichaceae]  
 — *palustre* (Bruch & Schimp.) Ochyra & Bednarek-Ochyra (*Pleuridium palustre* (Bruch & Schimp.) Bruch et al., *Sporledera palustris* (Bruch & Schimp.) Hampe) – **UKR**: C [66], M [66] + CAUCASUS [341]
- Climacium** F.Weber & D.Mohr [Climaciaceae]  
 — *dendroides* (Hedw.) F.Weber & D.Mohr – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TAD** [26, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]  
 — *japonicum* Lindb. – **RUS-AS**: N-FE [140], S-FE [76, 212]
- Cnestrum** I.Hagen [Rhabdoweisiaceae]  
 — *alpestre* (Wahlenb. ex Huebener) Nyholm ex Mogensen (*Cynodontium alpestre* (Wahlenb. ex Huebener) Milde) – **RUS-EUR**: ARC [47, 127, 150], NW [273, 364, 407], N-UR [150, 415], S-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 275], S-SIB [69, 197, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40], S-FE [212, 275, 221]  
 — *glaucescens* (Lindb. & Arnell) Holmen ex Mogensen & Steere (*Cynodontium glaucescens* (Lindb. & Arnell) Paris) – **RUS-EUR**: NW [145], **RUS-AS**: ARC-ESIB [275], S-SIB [69, 70], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [40], S-FE [76, 212] — {48}  
 — *schisti* (F.Weber & D.Mohr) I.Hagen – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [212, 364, 407], NE [207, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [231], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [74, 126, 212], YAK [239], ARC-FE [40], N-FE [40, 94, 140], S-FE [76, 212, 221]
- Codriophorus** P.Beauv. [Grimmiaceae]  
 — *acicularis* (Hedw.) P.Beauv. (*Racomitrium aciculare* (Hedw.) Brid.) – **EST** [237], **UKR**: C [66, 81], M [66], **RUS-EUR**: ARC [47, 81], NW [81, 212, 273, 364, 407], N-UR [81, 150, 212], S-UR [81, 150, 207, 212], CAUC [81, 231], **GEO** [81, 117], **ARM** [297] — {49}  
 — *aquaticus* (Brid. ex Schrad.) Bednarek-Ochyra & Ochyra (*Racomitrium aquaticum* (Brid. ex Schrad.) Brid.) – **UKR**: C [66, 81], **RUS-EUR**: NW [81, 407], S-UR [81, 207], CAUC [55, 81, 212, 231], **GEO** [81, 117] — {50}  
 — *brevisetus* (Lindb.) Bednarek-Ochyra & Ochyra (*Racomitrium brevisetum* Lindb.) – **RUS-AS**: N-FE [81, 140], S-FE [81, 109, 212]  
 — *carinatus* (Cardot) Bednarek-Ochyra & Ochyra – **RUS-AS**: N-FE [81, 140], S-FE [116]  
 — *corrugatus* Bednarek-Ochyra – **RUS-AS**: ARC-YAK [81, 239], S-SIB [81], E-SIB [388], N-FE [81, 140], S-FE [67]  
 — *fascicularis* (Hedw.) Bednarek-Ochyra & Ochyra (*Racomitrium fasciculare* (Hedw.) Brid.) – **EST** [237], **RUS-EUR**: ARC [47, 81, 150], NW [81, 212, 273, 364, 407], KLN [309], N-UR [81, 150, 415], **RUS-AS**: ARC-ESIB [47, 81], ARC-FE [40, 81, 212], N-FE [81, 94, 140], S-FE [76, 77, 81, 212]  
 — *mollis* (Cardot) Bednarek-Ochyra & Ochyra – **RUS-AS**: N-FE [81]
- Conardia** H.Rob. [Calliergonaceae]  
 — *compacta* (Drumm. ex Müll.Hal.) H.Rob. (*Amblystegium compactum* (Drumm. ex Müll.Hal.) Austin, *Rhynchostegiella compacta* (Drumm. ex Müll.Hal.) Loeske) – **LAT** [3], **EST** [237], **UKR**: M [66], **RUS-EUR**: NW [407], C [207, 345], S-UR [150, 207], CAUC [212, 231], **KAZ** [20, 296], **TAD** [294, 296], **KYR** [296], **RUS-AS**: W-SIB [266], S-SIB [69, 70, 197], E-SIB [162], YAK [239], S-FE [77]

**Conostomum** Sw. ex F.Weber & D.Mohr [Bartramiaceae]

- **tetragonum** (Hedw.) Lindb. – **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], N-UR [150, 415], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]

**Coscinodon** Spreng. [Grimmiaceae] {51}

- **cribrosus** (Hedw.) Spruce – **UKR**: C [66], K [328], **RUS-EUR**: ARC [47, 127, 150], NW [364, 407], CAUC [102, 212, 231, 248], **GEO** [117], **KAZ** [296, 356], **TAD** [294, 295], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [74, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [79, 212]

**Cratoneuron** (Sull.) Spruce [Amblystegiaceae], see also *Palustriella commutata*, *P. decipiens*

- **curvicaule** (Jur.) G.Roth (*Callialaria curvicaule* (Jur.) Ochyra, *Cratoneuron filicinum* var. *curvicaule* (Jur.) Mönk.) – **RUS-EUR**: ARC [47], NE [415], **KAZ** [296, 356], **TAD** [296], **RUS-AS**: ARC-ESIB [164], E-SIB [163], W-SIB [265], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212]
- **filicinum** (Hedw.) Spruce – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [267, 296], **UZB** [347], **TAD** [294, 296], **KYR** [296, 349, 351], **RUS-AS**: ARC-ESIB [93, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 109, 212]

**Crossidium** Jur. [Pottiaceae]

- **crassinerve** (De Not.) Jur. (*C. chloronotos* auct. non (Brid.) Limpr.) – **MLD** [367], **AZE** [277], **TUR** [296], **TAD** [294, 295]
- **squamiferum** (Viv.) Jur. – **UKR**: K [328], **RUS-EUR**: C [207], SE [207], CAUC [232], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [160, 295], **TUR** [295, 296], **UZB** [296], **TAD** [295], **KYR** [296, 351], **RUS-AS**: S-SIB [70, 197]
- **squamiferum** var. **pottioidium** (De Not.) Mönk. (*C. griseum* (Jur.) Jur.) – **GEO** [102], **TUR** [267, 295, 296], **UZB** [295, 296], **TAD** [294, 295], **KYR** [267, 296]

**Crumia** W.B.Schofield [Pottiaceae]

- **latifolia** (Kindb.) W.B.Schofield – **ARM** [297]

**Cryphaea** D.Mohr [Cryphaeaceae]

- **amurensis** Ignatov – **RUS-AS**: S-FE [116, 203, 212, 221]
- **heteromalla** (Hedw.) D.Mohr – **RUS-EUR**: CAUC [203]

**Ctenidium** (Schimp.) Mitt. [Hylocomiaceae], see also *Stereodon procerrimus*

- **?capillifolium** (Mitt.) Broth. – **RUS-AS**: S-FE [376] — {52}
- **molluscum** (Hedw.) Mitt. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [212, 407], KLN [309], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [92, 96, 212], E-SIB [163], ARC-YAK [20, 47, 239], YAK [239], ARC-FE [40, 212], N-FE [140], ?S-FE [37, 212] — {53}

**Cynodontium** Bruch et al. [Rhabdoweisiaceae], see also *Cnestrum alpestre*, *C. glaucescens*

- **asperifolium** (Lindb. & Arnell) Paris – **RUS-EUR**: NW [207], NE [415], N-UR [207, 212], S-UR [150, 207, 212], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [74, 212, 388], ARC-YAK [239], YAK [239], N-FE [140], S-FE [76, 212]
- **bruntonii** (Sm.) Bruch et al. (*Oreoweisia bruntonii* (Sm.) Milde) – **RUS-EUR**: N-UR [150, 415], **UKR**: C [66], K [328], **KAZ** [296, 356]
- **fallax** Limpr. – **RUS-EUR**: ?ARC [47, 150], ?NE [415], ?N-UR [150], ?S-UR [150], CAUC [55, 212, 231, 248], ?**RUS-AS**: S-SIB [70], ARC-YAK [47] — {54}
- **gracilescens** (F.Weber & D.Mohr) Schimp. – **UKR**: C [66], **RUS-EUR**: NE [415], CAUC [102, 212, 231], **GEO** [117], **RUS-AS**: ARC-ESIB [212]
- **polycarpon** (Hedw.) Schimp. – **UKR**: C [66], M [66], **RUS-EUR**: NE [212, 416, 417], S-UR [150], CAUC [248], **GEO** [117], **AZE** [277], **RUS-AS**: S-SIB [70, 212], E-SIB [74, 212], ARC-YAK [47], ARC-FE [40], N-FE [40], S-FE [76, 212]

- *strumiferum* (Hedw.) Lindb. – **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 212, 221]
- *suecicum* (Arnell & C.E.O.Jensen) I.Hagen – **RUS-EUR**: NW [364], N-UR [150, 415]
- *tenellum* (Schimp.) Limpr. – **LAT** [3], **RUS-EUR**: ARC [47, 127, 150, 415], NW [212, 273, 364, 407], NE [53, 207, 212, 415], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], **GEO** [117], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 212, 221]

*Cyrtomnium* Holmen [Mniaceae]

- *hymenophylloides* (Huebener) T.J.Kop. – **RUS-EUR**: ARC [47, 150, 415], NW [364, 407], NE [207, 212, 364, 415], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], **GEO** [13], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94], S-FE [212, 221]
- *hymenophyllum* (Bruch et al.) Holmen – **RUS-EUR**: ARC [47, 127, 150], NW [364], N-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [74, 212], ARC-YAK [47], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [67]

*Desmatodon* see *Tortula* spp., *Hennediella heimii*

*Dichelyma* Myrin [Fontinalaceae]

- *capillaceum* (Dicks.) Myrin – **EST** [237], **RUS-EUR**: NW [137], **RUS-AS**: W-SIB [137], E-SIB [167], ARC-FE [43]
- *falcatum* (Hedw.) Myrin – **LTV** [244], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], **KAZ** [296], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], ARC-FE [40], N-FE [40, 140]

*Dichodontium* Schimp. [Rhabdoweisiaceae]

- *flavescens* (Dicks.) Lindb. (*D. pellucidum* var. *flavescens* (Dicks.) Moore) – **UKR**: C [66], **RUS-EUR**: NW [407] — {55}
- *palustre* (Dicks.) M.Stech (*Anisothecium palustre* (Dicks.) I.Hagen, *Dicranella palustris* (Dicks.) Crundw., *Diobelonella palustris* (Dicks.) Ochyra) – **UKR**: C [66], **RUS-EUR**: NW [100, 212, 273, 364], CAUC [55, 212, 231], **GEO** [117], **RUS-AS**: ARC-FE [40], N-FE [140], S-FE [77, 212] — {56}
- *pellucidum* (Hedw.) Schimp. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [87, 207, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: ARC-ESIB [164], W-SIB [307], S-SIB [70, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140], S-FE [76, 77, 109, 212]

*Dicranella* (Müll.Hal.) Schimp. [Dicranaceae], see also *Dichodontium palustre*

- *cerviculata* (Hedw.) Schimp. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [77, 109, 212]
- *crispa* (Hedw.) Schimp. (*Anisothecium vaginale* (Dicks. ex With.) Loeske) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: ARC [47, 127, 150, 415], NW [207, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150], SE [207], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 197], E-SIB [70, 163, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 140], S-FE [212, 221]
- *curvipes* (Lindb.) Ignatov, comb. nov. – *Dicranella heteromalla* var. *curvipes* Lindb., Contributio ad Floram Cryptogamam Asiae Boreali-Orientalis 243. 1872. – **RUS-AS**: S-FE [361] — {57}

- *grevilleana* (Brid.) Schimp. (*Anisothecium grevilleanum* (Brid.) Lindb.) – **RUS-EUR**: ARC [47, 150, 415], NW [364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150], **GEO** [117], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], E-SIB [126, 212], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 95]
- *heteromalla* (Hedw.) Schimp. (*D. caucasica* (Müll.Hal.) Broth.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 157], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [74, 212, 247], YAK [239], N-FE [140], S-FE [76, 77, 109, 212]
- *howei* Renaud & Cardot – **TUR** [11, 296]
- *humilis* R.Ruthe (*Anisothecium humile* (R.Ruthe) Lindb., *A. rigidulum* (Hedw.) C.E.O.Jensen) – **EST** [397], **RUS-EUR**: NW [207, 407], NE [207, 212, 415], C [207, 212], N-UR [90, 207], S-UR [207], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [264], E-SIB [212, 275], YAK [239], S-FE [76, 77, 212]
- *rufescens* (Dicks.) Schimp. (*Anisothecium rufescens* (Dicks.) Lindb.) – **LTV** [244], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207, 291, 364], NE [207], KLN [309], C [207, 212], **GEO** [117], **RUS-AS**: ARC-WSIB [136], S-SIB [70, 212], S-FE [76, 77, 109]
- *schreberiana* (Hedw.) Hilf. ex H.A.Crum & L.E.Anderson (*Anisothecium schreberianum* (Hedw.) Dixon) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [87, 207, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 207], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 248], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], W-SIB [265], S-SIB [69, 197, 212], E-SIB [212, 247], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [76, 212, 221]
- *staphylina* H.Whitehouse (*Anisothecium staphylinum* (H.Whitehouse) Sipman, Rubers & Riemann) – **LTV** [244], **RUS-EUR**: KLN [309]
- *subsecunda* Besch. – **RUS-AS**: S-FE [361]
- *subulata* (Hedw.) Schimp. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **KAZ** [159, 157], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [140, 237], S-FE [77, 109, 212]
- *varia* (Hedw.) Schimp. (*Anisothecium varium* (Hedw.) Mitt.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207], S-UR [150, 207, 212], SE [207], CAUC [208, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157], **TUR** [11], **TAD** [294, 295], **KYR** [296], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], W-SIB [265], S-SIB [69, 70, 212], ARC-YAK [47], YAK [239], N-FE [140], S-FE [76, 212, 221]

**Dicranodontium** Bruch et al. [Leucobryaceae]

- *asperulum* (Mitt.) Broth. – **BEL** [355], **UKR**: C [66], **RUS-AS**: S-FE [212, 221]
- *denudatum* (Brid.) E.Britton – **LTV** [244], **LAT** [3], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [212, 407], NE [207, 415], KLN [309], C [207], N-UR [150, 207, 212], S-UR [150, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [74, 212], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 77, 109, 212]

**Dicranoloma** (Renaud) Renaud [Dicranaceae]

- *cy lindrothecium* (Mitt.) Sakurai – **RUS-AS**: S-FE [116]

**Dicranoweisia** Milde [Rhabdoweisiaceae], see also *Hymenoloma crispulum*, *H. intermedium*

- *cirrata* (Hedw.) Lindb. – **LAT** [4], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: KLN [309], CAUC [232], **GEO** [102, 117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 393] — {58}

**Dicranum** Hedw. [Dicranaceae]

- *acutifolium* (Lindb. & Arnell) C.E.O.Jensen – **RUS-EUR**: ARC [47, 127, 150, 415], NW [87, 212, 364, 407], NE [207, 415], N-UR [150, 415], S-UR [150, 207], **RUS-AS**: ARC-WSIB [136], ARC-

- ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [74, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [212, 221]
- **angustum** Lindb. – **RUS-EUR**: ARC [47, 127, 150, 415], NW [212, 224, 364, 407], NE [212, 415], N-UR [150, 224, 415], **RUS-AS**: ARC-WSIB [136, 224], ARC-ESIB [212, 275], W-SIB [224], S-SIB [212, 224], E-SIB [212, 224, 275], ARC-YAK [47, 212], YAK [212, 224, 239], N-FE [94, 224], S-FE [212, 221]
- **bonjeanii** De Not. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [296, 356], **TAD** [295], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212, 275], W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [109, 212, 221]
- **brevifolium** (Lindb.) Lindb. (*D. muehlenbeckii* var. *brevifolium* Lindb.) – **EST** [237], **RUS-EUR**: ARC [47, 127, 150], NW [87, 212, 364, 407], NE [207, 212, 415], C [135, 207, 212], N-UR [150, 415], S-UR [150, 207, 212], CAUC [102, 212, 231], **ARM** [297], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [197, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [212, 221]
- **dispersum** Engelmark (*D. orientale* Otnyukova) – **RUS-EUR**: S-UR [207, 326], CAUC [212, 248, 326], **RUS-AS**: S-SIB [212, 326], S-FE [326] — {59}
- **drummondii** Müll.Hal. (*D. elatum* Lindb., *D. robustum* Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **RUS-EUR**: NW [212, 273, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [207], **RUS-AS**: S-SIB [69, 70, 212], YAK [239], S-FE [109]
- **elongatum** Schleich. ex Schwägr. (?*D. tundrae* Lindb. & Arnell, ?*D. atratum* Geh.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 224, 364, 407], NE [207, 212, 224, 415], N-UR [150, 212, 224], S-UR [150], CAUC [212, 248], **GEO** [117], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: ARC-WSIB [136, 224, 275], ARC-ESIB [164, 212, 224, 275], W-SIB [224], S-SIB [69, 70, 212, 224], E-SIB [69, 212, 224, 275], ARC-YAK [47, 212, 224, 239], YAK [212, 224, 239], ARC-FE [40, 212, 224], N-FE [94, 140, 224], S-FE [212, 221, 224] — {60}
- **flagellare** Hedw. (*Orthodicranum flagellare* (Hedw.) Loeske) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 212, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207], S-UR [150, 207, 212], SE [207], CAUC [231], **GEO** [117], **RUS-AS**: W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], YAK [239], N-FE [140], S-FE [76, 77, 109, 212]
- **flexicaule** Brid. (*D. congestum* Brid., *D. fuscescens* var. *congestum* (Brid.) Kindb., *D. fuscescens* var. *flexicaule* (Brid.) Wilson) – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **KYR** [351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212]
- **fragilifolium** Lindb. – **RUS-EUR**: ARC [47, 150], NW [87, 212, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [275], ARC-ESIB [275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [239], YAK [212, 239], N-FE [94, 140], S-FE [76, 77, 109, 212]
- **fulvum** Hook. – **UKR**: C [66], M [66], **RUS-EUR**: KLN [309], CAUC [248], **GEO** [31], **RUS-AS**: S-FE [212, 268]
- **fuscescens** Turner – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [47, 96, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [40, 140], S-FE [76, 77, 109, 212]

- *groenlandicum* Brid. – **UKR:** C [66], **RUS-EUR:** ARC [47, 150, 224, 415], NW [212, 224, 291, 364], N-UR [150], **RUS-AS:** ARC-WSIB [136, 224], ARC-ESIB [164, 212, 224], S-SIB [70, 212], E-SIB [126, 212], ARC-YAK [47, 212, 224, 239], YAK [212, 224, 239], ARC-FE [40, 224], N-FE [94, 140, 224], S-FE [109, 224]
- *hamulosum* Mitt. – ?**KAZ** [296, 356], **RUS-AS:** N-FE [140], S-FE [109] — {61}
- *japonicum* Mitt. – **RUS-AS:** N-FE [140], S-FE [109]
- *laevidens* R.S.Williams – **RUS-EUR:** ARC [224], NW [224], NE [224], **RUS-AS:** ARC-WSIB [224], ARC-ESIB [164, 224], E-SIB [163], ARC-YAK [224, 239], YAK [224, 239], ARC-FE [40, 224], N-FE [40, 140], S-FE [224]
- *leioneuron* Kindb. – **LTV** [244], **LAT** [3], **EST** [237], **RUS-EUR:** NW [364], NE [207, 415], C [207], **KAZ** [70], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [39], W-SIB [265], S-SIB [70], YAK [239], ARC-FE [40, 212], N-FE [40, 140], S-FE [76]
- *majus* Turner – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], K [66, 328], **RUS-EUR:** ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [14], **GEO** [117], **AZE** [277], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 140], S-FE [76, 77, 109, 212]
- *mayrii* Broth. (*Orthodicranum mayrii* (Broth.) Smirnova) – **RUS-AS:** S-FE [76, 212]
- *montanum* Hedw. (*Orthodicranum montanum* (Hedw.) Loeske) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 157], **KYR** [267, 296], **UZB** [267], **TAD** [267], **RUS-AS:** W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], YAK [239], N-FE [94, 140], S-FE [76, 212, 221]
- *muehlenbeckii* Bruch et al. – **EST** [236], **UKR:** C [66], K [66, 328], **RUS-EUR:** ARC [47, 150], NW [145, 207, 212], NE [207, 212, 415], N-UR [150, 207, 415], S-UR [150, 207, 212, 224], CAUC [55, 212, 224, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **KYR** [296], **RUS-AS:** ARC-ESIB [212], W-SIB [224, 265], S-SIB [69, 70, 212, 224], E-SIB [212, 247], ARC-YAK [47, 212, 239], YAK [224, 239], ARC-FE [40], N-FE [94, 140], S-FE [212, 268] — {62}
- *nipponense* Besch. – **RUS-AS:** S-FE [114, 322]
- *polysetum* Sw. (*D. rugosum* Brid., *D. undulatum* Ehrh. ex F.Weber & D.Mohr, nom. illeg.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], **MLD** [367], **RUS-EUR:** ARC [150], NW [207, 212, 364, 407], NE [207, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [18, 55, 212], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [295], **RUS-AS:** ARC-WSIB [136], W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], YAK [212, 239], N-FE [94, 140], S-FE [76, 109, 212]
- *scoparium* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **KYR** [296, 350], **RUS-AS:** ARC-WSIB [247], ARC-ESIB [247, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ?ARC-YAK [247, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *spadiceum* J.E.Zetterst. (*D. neglectum* Jur. ex De Not., ?*D. spadiceum* J.E.Zetterst. var. *subscabrifolium* Schljakov) – **RUS-EUR:** ARC [47, 127, 150, 224], NW [212, 224, 273, 364, 407], NE [207, 212, 224, 415], N-UR [150, 207, 212, 224], S-UR [150, 207, 212, 224], CAUC [55, 212, 224, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296], **KYR** [296, 351], **RUS-AS:** ARC-WSIB [136, 224], ARC-ESIB [164, 212, 224], W-SIB [212, 224], S-SIB [69, 70, 212, 224, 265], E-SIB [69, 212, 224, 275], ARC-YAK [47, 212, 224], YAK [212, 224, 239], ARC-FE [40, 212, 224], N-FE [94, 140, 224], S-FE [212, 221, 224] — {63}
- *spurium* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], **RUS-EUR:** NW [207, 212, 364, 407], NE [207, 415], KLN [309], C [207], **RUS-AS:** N-FE [2140] — {64}
- *tauricum* Sapjegin (*D. strictum* Schleich. ex D.Mohr, nom. illeg., *Orthodicranum tauricum* (Sapjegin)

- Smirnova) – **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: KLN [309], C [207, 212, 345], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **RUS-AS**: N-FE [140] — {}
- *undulatum* Schrad. ex Brid. (*D. bergeri* Blandow, *D. affine* Funck) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], CAUC [212, 231, 248], **ARM** [297], **RUS-AS**: ARC-WSIB (?47), ARC-ESIB (?47, 275), W-SIB [212, 265, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [109, 212, 221]
- *viride* (Sull. & Lesq.) Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207], NE [207, 415], KLN [309], C [207, 212, 345], N-UR [207], S-UR [150, 207, 212], CAUC [55, 208, 212], **GEO** [117], **RUS-AS**: S-FE [76, 77, 109, 212] — {65}
- Didymodon* Hedw. [Pottiaceae]
- *acutus* (Brid.) K.Saito (*Barbula acuta* (Brid.) Brid.) – **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: KLN [309], C [212, 234], S-UR [150], CAUC [55, 212, 243], **GEO** [117, 243], **ARM** [297], **AZE** [243, 277], **KAZ** [243], **UZB** [243], **TAD** [243, 295], **KYR** [243], **RUS-AS**: ARC-FE [40] — {66}
- *anserinocapitatus* (X.J.Li) R.H.Zander – **KAZ** [243], **RUS-AS**: S-SIB [323, 327], YAK [239]
- *asperifolius* (Mitt.) H.A.Crum, Steere & L.E.Anderson (*Barbula asperifolia* Mitt.) – **RUS-EUR**: ARC [47, 150], CAUC [243], **KAZ** [157, 243, 296, 356], **RUS-AS**: ARC-ESIB [96, 212], S-SIB [70, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140]
- *asperifolius* var. *gorodkovii* (Abramova & I. I. Abramov) Afonina (*D. gorodkovii* (Abramova & I. I. Abramov) Schljakov) – **RUS-AS**: ARC-ESIB [164], E-SIB [163], ARC-YAK [239], ARC-FE [40] — {67}
- *australasiae* (Hook. & Grev.) R.H.Zander (*D. aaronis* (Lorentz) J.Guerra, *D. incrassatus* (Lindb.) Broth., *Trichostomopsis aaronis* (Lorentz) S.Agnew & C.C.Towns., *T. australasiae* (Hook. & Grev.) H.Rob.) – **GEO** [117], **KAZ** [243], **TUR** [8, 296, 368], **UZB** [243] — {68}
- *cordatus* Jur. (*Barbula cordata* (Jur.) Loeske) – **UKR**: K [66, 328], **MLD** [367], **RUS-EUR**: CAUC [102, 243, 248], **GEO** [117], **ARM** [297], **TAD** [295], **RUS-AS**: S-FE [76]
- *fallax* (Hedw.) R.H.Zander (*Barbula fallax* Hedw.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [149, 207, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 243], **GEO** [117, 243], **ARM** [297], **AZE** [277], **KAZ** [243, 296, 356], **TUR** [267, 295, 368], **UZB** [296], **TAD** [294, 295], **KYR** [296], **RUS-AS**: ARC-ESIB [164], W-SIB [265], S-SIB [69, 70, 212], E-SIB [163, 275], ARC-YAK [47, 239], YAK [239]
- *ferrugineus* (Schimp. ex Besch.) M.O.Hill (*Barbula reflexa* (Brid.) Brid.) – **LTV** [244], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: NW [407], NE [207, 212, 415], C [207, 212], N-UR [90, 91, 207], S-UR [91, 150, 207], SE [207], CAUC [212, 231, 243, 248], **GEO** [117, 243], **ARM** [297], **AZE** [277], **KAZ** [243], **TUR** [295], **TAD** [294, 295], **KYR** [267, 296], **RUS-AS**: ARC-ESIB [247, 93], W-SIB [307], S-SIB [69, 70], E-SIB [163], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40], S-FE [76, 212, 221]
- *gaochienii* B.C.Tan & Y.Jia – **RUS-AS**: S-SIB [212, 323], N-FE [140]
- *giganteus* (Funck) Jur. (*Barbula gigantea* Funck, *Geheebia gigantea* (Funck) Boulay) – **RUS-AS**: ARC-YAK [47, 239]
- *hedysarififormis* Otnyukova – **RUS-AS**: S-SIB [319], YAK [239]
- *icmadophilus* (Schimp. ex Müll.Hal.) R.H.Zander (*Barbula acuta* var. *icmadophila* (Schimp. ex Müll.Hal.) H.A.Crum) – **RUS-EUR**: NW [364, 407], CAUC [243], **GEO** [117, 243], **ARM** [243, 297], **KAZ** [296, 356], **UZB** [243], **TAD** [243, 295], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140] — {66}
- *insulanus* (De Not.) M.O.Hill (*Barbula cylindrica* (Taylor) Schimp., *B. vinealis* var. *cylindrica* (Taylor) Boulay, *Didymodon vinealis* var. *flaccidus* (Bruch & Schimp.) R.H.Zander) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: CAUC [243], **GEO** [117, 243], **ARM** [243, 297], **AZE** [277], **KAZ** [157, 159], **TUR** [295, 296], **TAD** [294, 295], **KYR** [296],



**RUS-AS:** S-SIB [69, 70], S-FE [76]

- *johansenii* (R.S.Williams) H.A.Crum (*Barbula johansenii* R.S.Williams) – **TAD** [243, 295], **KYR** [296], **RUS-AS:** S-SIB [70, 212, 323], E-SIB [74, 212], ARC-YAK [47, ?239], YAK [239], ARC-FE [40, 212, 323]
- *luridus* Hornsch. (*Barbula lurida* Hornsch., *D. trifarius* auct. non (Hedw.) Röhl.) – **UKR:** C [66], M [66], K [66, 328], **GEO** [117, 243], **ARM** [297], **AZE** [277, 243], **TUR** [295, 296], **TAD** [295], **KYR** [296]
- *maximus* (Syed & Crundw.) M.O.Hill (*Barbula reflexa* var. *robusta* Braithw.) – **RUS-AS:** ARC-FE [40, 212]
- *murrayae* Otnyukova – **RUS-AS:** S-SIB [212, 323]
- *perobtusus* Broth. – **RUS-AS:** S-SIB [69, 70, 212], N-FE [140]
- *rigidulus* Hedw. (*Barbula rigidula* (Hedw.) Milde) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], K [66, 243, 328], **MLD** [367], **RUS-EUR:** ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 243, 248], **GEO** [117, 243], **ARM** [243, 297], **AZE** [277], **KAZ** [156, 159, 243], **TUR** [11, 368], **UZB** [243], **TAD** [243, 294, 295], **KYR** [243, 296], **RUS-AS:** ARC-ESIB [164], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [141], S-FE [76, 212, 221]
- *rigidulus* var. *glaucus* (Ryan) Wijk & Margad. – **RUS-AS:** S-FE [76]
- *rigidulus* var. *validus* (Limpr.) Düll – **UKR:** C [66], **KYR** [243]
- *sinuosus* (Mitt.) Delogne (*Barbula sinuosa* (Mitt.) Grav.) – **UKR:** M [66], K [66, 328], **RUS-EUR:** CAUC [18], **GEO** [102, 117], **AZE** [243, 277]
- *spadiceus* (Mitt.) Limpr. (*Barbula spadicea* (Mitt.) Braithw.) – **LAT** [3], **UKR:** C [66], M [66], K [66, 328], **RUS-EUR:** SE [366], CAUC [55, 212, 243], **GEO** [117, 243], **TAD** [295], **RUS-AS:** S-FE [340]
- *subandreaeoides* (Kindb.) R.H.Zander (*D. rigidulus* subsp. *andreaeoides* (Limpr.) Wijk & Margad.) – **RUS-AS:** ARC-FE [40]
- *tophaceus* (Brid.) Lisa (*Barbula tophacea* (Brid.) Mitt.) – **LTV** [244], **LAT** [3], **EST** [237], **UKR:** C [66], M [66], K [66, 243, 328], **MLD** [367], **RUS-EUR:** NE [207, 415], C [207, 212, 345], S-UR [150, 207], SE [207], CAUC [232, 243], **GEO** [117, 243], **ARM** [243, 297], **AZE** [277], **TUR** [243, 267, 295, 296], **UZB** [347], **TAD** [243, 294, 295], **KYR** [296, 351], **RUS-AS:** W-SIB [307], S-SIB [212, 324]
- *tophaceus* var. *excurrens* (Broth.) Wijk & Margad. – **TUR** [296, 368]
- *vinealis* (Brid.) R.H.Zander (*Barbula vinealis* Brid.) – **EST** [237], **BEL** [355], **UKR:** C [66], M [66], K [66, 243, 328], **RUS-EUR:** NE [415], S-UR [150], SE [207, 212, 243], CAUC [212, 248], **GEO** [117], **ARM** [297], **AZE** [243, 277], **KAZ** [157, 243], **TUR** [243, 267, 295, 296], **UZB** [243, 267], **TAD** [243, 295], **KYR** [243, 267, 296], **RUS-AS:** ARC-YAK [47], S-FE [268] — {69}

**Diphyscium** D.Mohr [Diphysciaceae]

- *foliosum* (Hedw.) D.Mohr – **EST** [237], **UKR:** C [66], M [66], K [66, 328], **RUS-EUR:** NW [207, 364, 407], KLN [309], CAUC [55, 212, 231], **GEO** [117], **RUS-AS:** N-FE [140], S-FE [115]

**Discelium** Brid. [Disceiaceae]

- *nudum* (Dicks.) Brid. – **EST** [237], **RUS-EUR:** ARC [47, 150, 415], NW [207, 364, 262, 407], N-UR [150], **RUS-AS:** ARC-WSIB [136], W-SIB [265], E-SIB [275], S-FE [212, 221, 275]

**Distichium** Bruch et al. [Ditrichaceae]

- *capillaceum* (Hedw.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], K [66, 328], **RUS-EUR:** ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [104, 295, 356], **TUR** [295], **UZB** [104], **TAD** [294, 295], **KYR** [295, 349, 351], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 114, 212]
- *hagenii* Ryan ex H.Philib. – **RUS-EUR:** ARC [47], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40]
- *inclinatum* (Hedw.) Bruch et al. – **LAT** [3], **EST** [237], **UKR:** C [66], **RUS-EUR:** ARC [47, 150],

- NW [212, 364, 407], NE [118, 207], N-UR [150], S-UR [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [157, 296, 356], **UZB** [104], **TAD** [267, 294, 295], KYR [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [104, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [110, 140], S-FE [37, 212]
- Ditrichum** Timm ex Hampe [Ditrichaceae]
- **cylindricum** (Hedw.) Grout (*Trichodon cylindricus* (Hedw.) Schimp.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 288, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], CAUC [212, 231], **KAZ** [157], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265, 275], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 77, 109, 212]
  - **flexicaule** (Schwägr.) Hampe – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 345], N-UR [150, 207, 212], S-UR [150, 207], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 104], **TAD** [295], **KYR** [104, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212, 221]
  - **gracile** (Mitt.) Kuntze (*D. crispatisimum* (Müll.Hal.) Paris, *D. flexicaule* var. *longifolium* (J.E.Zetterst.) I.Hagen, *D. flexicaule* var. *sterile* (De Not.) Limpr., *D. giganteum* R.S.Williams) – **RUS-EUR**: N-UR [91], S-UR [91], **RUS-AS**: ARC-WSIB [136], ARC-FE [40], N-FE [40] — {70}
  - **heteromallum** (Hedw.) E.Britton (*D. homomallum* (Hedw.) Hampe) – **LTV** [244], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 415], S-UR [150, 207, 212], CAUC [55, 212], **AZE** [277], **RUS-AS**: W-SIB [212, 265], E-SIB [212, 247], S-SIB [69, 70], ARC-YAK [47], YAK [239], N-FE [94, 140], S-FE [76, 77, 212, 221]
  - **lineare** (Sw.) Lindb. – **EST** [237], **RUS-EUR**: NW [87, 364], NE [212, 417], N-UR [150], **RUS-AS**: YAK [239], N-FE [140], S-FE [76, 212]
  - **macrorhynchum** Broth. – **RUS-AS**: S-FE [116]
  - **pallidum** (Hedw.) Hampe – **UKR**: C [66], M [66], **GEO** [18, 117], **AZE** [277], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69], S-FE [76]
  - **pusillum** (Hedw.) Hampe (*D. tortile* (Schrad.) Brockm.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [127, 150], NW [207, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231], **GEO** [117], **RUS-AS**: W-SIB [104, 212, 265], S-SIB [197, 212], E-SIB [69, 212, 275], YAK [239], N-FE [140], S-FE [76, 77, 212]
  - **cf. rhynchostegium** Kindb. – **RUS-AS**: S-FE [78, 221]
  - **subulatum** Hampe – **UKR**: C [66], **GEO** [117]
  - **zonatum** (Brid.) Kindb. (*D. heteromallum* var. *zonatum* (Brid.) Podp.) – **RUS-EUR**: NW [364]
- Dolichomitriopsis** S.Okamura [Lembophyllaceae]
- **diversiforme** (Mitt.) Nog. – **RUS-AS**: S-FE [77, 212, 268]
- Dolichothea* see *Herzogiella*
- Dozya** Sande Lac. [Leucodontaceae]
- **japonica** Sande Lac. – **RUS-AS**: S-FE [76, 77, 203, 212]
- Drepanium** C.E.O.Jensen [\*Amblystegiaceae] — {71}
- **recurvatum** (Lindb. & Arnell) G.Roth (*Hypnum recurvatum* (Lindb. & Arnell) Kindb.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [273, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231], **GEO** [117], **AZE** [277], **KAZ** [296], **RUS-AS**: ARC-WSIB [136], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [38, 212], S-FE [212, 221]
- Drepanocladus** (Müll.Hal.) G.Roth [Amblystegiaceae], see also *Hamatocaulis vernicosus*, etc., *Loeskypnum badium*, *Pseudocalliergon lycopodioides*, *P. brevifolius*, etc., *Sanionia uncinata*, etc., *Scorpidium revolutum* etc., *Warnstorfia fluitans*, etc.
- **aduncus** (Hedw.) Warnst. (*D. simplicissimus* Warnst., *D. kneffii* (Bruch et al.) Warnst., *D. polycarpus*

- (Blandow ex Voit.) Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 159, 296, 356], **TUR** [296], **TAD** [267, 294, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- **arcticus** (R.S.Williams) Hedenäs (*Campylium arcticum* (R.S.Williams) Broth., *C. zemliae* C.E.O.Jensen) – **RUS-EUR**: ARC [47, 150], N-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], E-SIB [163], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140]
- **latinervis** Warnst. – **RUS-AS**: ARC-ESIB [187b], ARC-FE [40]
- **longifolius** (Mitt.) Broth. ex Paris (*D. capillifolius* (Warnst.) Warnst.) – **LTV** [244], **LAT** [187a], **EST** [237], **RUS-EUR**: ARC [187a], NW [407], NE [415], KLN [309], S-UR [150, 207], **RUS-AS**: W-SIB [187a], S-SIB [187a], YAK [187a], N-FE [187a]
- **polygamus** (Bruch et al.) Hedenäs (*Campyliadelphus polygamus* (Bruch et al.) Kanda, *Campylium polygamum* (Bruch et al.) Lange & C.E.O.Jensen) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **KAZ** [296, 356], **TAD** [26, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- **sendtneri** (Schimp. ex H.Müll.) Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 345], N-UR [150, 207], S-UR [150, 207], SE [207, 212], CAUC [55, 212], **GEO** [117], **ARM** [297], **KAZ** [23, 158], **TAD** [26, 296], **KYR** [294, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [96, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212]
- **sordidus** (Müll.Hal.) Hedenäs (*Drepanocladus tenuinervis* T.J.Kop.) – **LAT** [3], **EST** [237], **RUS-EUR**: NW [291, 283], NE [415], **RUS-AS**: ARC-ESIB [164], YAK [239]
- Drummondia** Hook. [Drummondaceae]
- **sinensis** Müll.Hal. var. **ussuriensis** (Broth.) Vitt – **RUS-AS**: S-FE [76, 212, 221]
- **turkestanica** Broth. – **KAZ** [106, 296]
- Dryptodon* see *Grimmia ramondii* (= *Dryptodon patens*)
- Echinophyllum** O'Brian [Thuidiaceae]
- **sachalinense** (Lindb.) O'Brian (*Helodium sachalinense* (Lindb.) Broth.) – **RUS-AS**: N-FE [94, 140], S-FE [76, 77, 109, 212]
- Encalypta** Hedw. [Encalyptaceae]
- **affinis** R.Hedw. – **RUS-EUR**: ARC [47, 150], NW [193, 364, 407], NE [415], N-UR [150], **GEO** [117, 193], **AZE** [193, 277], **TAD** [295], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212, 275], W-SIB [193], E-SIB [193], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 193, 212], N-FE [40, 161]
- **alpina** Sm. – **RUS-EUR**: ARC [47], NW [364], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296], **TAD** [294, 295], **KYR** [193, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 193, 212], E-SIB [212, 386], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140]
- **brevicolla** (Bruch et al.) Ångstr. – **RUS-EUR**: ARC [47, 150], NW [193, 212, 364, 407], C [193], N-UR [90, 150, 415], **GEO** [117], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], W-SIB [193], S-SIB [193, 212], E-SIB [167, 193, 212], ARC-YAK [47, 193, 239], YAK [239], ARC-FE [40, 193], N-FE [40], S-FE [212, 221]
- **brevipes** Schljakov – **RUS-EUR**: NW [193, 364], **RUS-AS**: ARC-ESIB [164], S-SIB [193], E-SIB [126, 212], ARC-YAK [47, 193, 239], ARC-FE [40, 193, 212], N-FE [40]
- **ciliata** Hedw. – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [212, 364, 407], C [207], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC

- [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **KYR** [296, 349, 351], **RUS-AS**: W-SIB [307], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *intermedia* Jur. – **TUR** [296], **KYR** [296]
- *longicolla* Bruch – **RUS-AS**: ARC-ESIB [164], E-SIB [163], ARC-YAK [47, 193], ARC-FE [40, 193]
- *microstoma* Bals.-Criv. & De Not. – **RUS-EUR**: CAUC [193, 231]
- *mutica* I.Hagen (*E. vulgaris* var. *mutica* Brid.) – **EST** [237], **RUS-EUR**: NW [364, 407], ARC [166], **RUS-AS**: ARC-WSIB [136], E-SIB [162], ARC-FE [40]
- *procera* Bruch – **RUS-EUR**: ARC [47, 150], NW [193, 364, 407], NE [415], N-UR [150, 207, 212], S-UR [207, 212], **AZE** [277], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [307], S-SIB [69, 70, 212], E-SIB [193, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 193, 212], N-FE [40, 94]
- *rhaptoarpa* Schwägr. – **EST** [237], **UKR**: C [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150, 415], NW [212, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [296], **UZB** [267, 296], **TAD** [294, 295], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [307], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140] — {72}
- *sibirica* (Weinm.) Warnst. – **KAZ** [296, 59, 156, 157], **RUS-AS**: S-SIB [69, 193, 275]
- *spatulata* Müll.Hal. (*E. rhaptoarpa* var. *spatulata* (Müll.Hal.) Husn.) – **UKR**: M [66], K [66, 328], **RUS-EUR**: NW [407], NE [415], C [345], CAUC [55, 193, 212, 231], **ARM** [297], **AZE** [277], **KAZ** [156, 157], **TUR** [296], **TAD** [295], **KYR** [296] — {72}
- *streptocarpa* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [415], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], ?**TAD** [295], ?**UZB** [267], ?**KYR** [296] — {73}
- *trachymitria* Ripart (*E. rhaptoarpa* var. *leptodon* (Bruch) Lindb.) – **RUS-EUR**: ARC [47], NW [407], CAUC [231], **GEO** [117], **ARM** [297], **KAZ** [156], **TUR** [267], **KYR** [349, 351], **RUS-AS**: ARC-ESIB [47], E-SIB [212, 386], ARC-YAK [239], ARC-FE [40, 212] — {72}
- *vulgaris* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150, 415], NW [207, 407], NE [207, 212], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 157, 296], **TUR** [267, 296], **UZB** [267, 296], **TAD** [267, 294, 295], **KYR** [296, 349, 351], **RUS-AS**: W-SIB [265], S-SIB [70, 212], ARC-FE [40], N-FE [140] — {74}
- Entodon** Müll.Hal. [Entodontaceae]
- *challengeri* (Paris) Cardot (*E. compressus* Müll.Hal. ex Cardot, non (Hedw.) Müll.Hal.) – **RUS-EUR**: CAUC [248], **ARM** [297], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [275], S-FE [76, 212, 221]
- *cladorrhizans* (Hedw.) Müll.Hal. – excluded — {75}
- *concinus* (De Not.) Paris – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [44], N-UR [90, 207, 212], S-UR [91, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296], **KYR** [349, 351], **RUS-AS**: ARC-ESIB [92], S-SIB [69, 70, 212], E-SIB [69, 70, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 114, 212, 221]
- *diversinervis* Cardot – **RUS-AS**: S-FE [76]
- *flavescens* (Hook.) A.Jaeger (*E. rubicundus* (Mitt.) A.Jaeger) – **RUS-AS**: N-FE [140], S-FE [76, 212]
- *giraldii* Müll.Hal. (*E. sinense* (Dixon) Laz.) – **RUS-AS**: S-FE [76] — {76}
- *luridus* (Griff.) A.Jaeger – **RUS-AS**: S-FE [76, 212]
- *rufescens* Laz. – **RUS-AS**: S-FE [268]
- *scabridens* Lindb. – **RUS-AS**: S-FE [76, 109, 212]
- *schleicheri* (Schimp.) Demet. – **RUS-EUR**: C [207, 212, 345], S-UR [150, 207, 212], CAUC [212, 231, 248], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], S-FE [76, 212, 221]

- *sullivantii* (Müll.Hal.) Lindb. – **RUS-AS**: S-FE [76]
- *transbaicalensis* Bard. – **RUS-AS**: S-SIB [69]
- Entosthodon** Schwägr. [Funariaceae]
- *angustifolius* Jur. & Milde (*E. subpallescens* Laz.) – **TUR** [10, 267, 296], **TAD** [296]
- *attenuatus* (Dicks.) Bryhn (*Funaria attenuata* (Dicks.) Lindb.) – excluded — {77}
- *durieui* Mont. (*E. pallescens* Jur.) – **TUR** [10, 296, 368]
- *fascicularis* (Hedw.) Müll.Hal. (*Funaria fascicularis* (Hedw.) Lindb.) – **LTV** [244], **LAT** [3], **BEL** [?355], **UKR**: C [66, 413], M [66], **RUS-EUR**: KLN [309], CAUC [250], **KAZ** [157], **TAD** [296] — {78}
- *handelii* (Schiffn.) Laz. – **TUR** [10, 267, 296, 368], **TAD** [294]
- *hungaricus* (Boros) Loeske (*Funaria hungarica* Boros, *Physcomitrium martjanovii* Broth. ex I.I.Abramov) – **UKR**: M [66], **MLD** [367], **RUS-EUR**: SE [207, 212, 377], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: W-SIB [339], S-SIB [229]
- *muhlenbergii* (Turner) Fife (*Funaria calcarea* Wahlenb., *F. dentata* Crome, *F. hibernica* Hook., *F. mediterranea* Lindb., *F. muhlenbergii* Turner) – **UKR**: M [66], K [66, 328], **RUS-EUR**: C [212, 304], **GEO** [102, 117], **ARM** [297], **AZE** [277], **KAZ** [157, 296, 356], **TUR** [267, 296], **TAD** [294, 296], **KYR** [296, 351], **UZB** [267], **RUS-AS**: S-SIB [69, 212], S-FE [76, 212] — {79}
- *pulchellus* (H.Philib.) Brugués (*Funaria pulchella* H.Philib.) – **RUS-EUR**: N-UR [212], S-UR [177], SE [207, 212, 377], **KYR** [349], **RUS-AS**: YAK [239], S-FE [37, 212] — {79}
- Ephemerum** Hampe [Ephemeraceae]
- *minutissimum* Lindb. – **LAT** [2], **UKR**: M [66]
- *recurvifolium* (Dicks.) Boulay – **UKR**: M [66]
- *serratum* (Hedw.) Hampe – **LTV** [244], **EST** [237], **BEL** [355], **UKR**: M [66, 148], **MLD** [367], **RUS-EUR**: NW [207, 262], KLN [309], C [207, 212] — {80}
- *sessile* (Bruch) Müll.Hal. – **UKR**: M [66]
- Epipterygium** Lindb. [Mielichhoferiaceae]
- *rigidum* Lindb. ex Broth. – **GEO** [102, 117]
- *tozeri* (Grev.) Lindb. – **GEO** [117], **AZE** [277]
- Eucladium** Bruch et al. [Pottiaceae]
- *verticillatum* (With.) Bruch et al. – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: C [207], ?S-UR [150], SE [207], CAUC [55, 208, 212, 232, 248], **GEO** [117], **AZE** [277], **KAZ** [296], **TUR** [296], **UZB** [347], **TAD** [294, 295], **KYR** [267, 296], **RUS-AS**: S-FE [76, 212] — {81}
- Eurhynchiadelphus** Ignatov & Huttunen [Brachytheciaceae]
- *eustegius* (Besch.) Ignatov & Huttunen (*Eurhynchium eustegium* (Besch.) Dixon, *Brachythecium eustegium* Besch.) – **RUS-AS**: N-FE [140], S-FE [76, 77, 109, 212]
- Eurhynchiastrum** Ignatov & Huttunen [Brachytheciaceae]
- *pulchellum* (Hedw.) Ignatov & Huttunen (*Eurhynchium pulchellum* (Hedw.) Jenn., incl. var. *praecox* (Hedw.) Dixon and var. *diversifolium* (Bruch et al.) C.E.O.Jensen) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **ARE** [277], **KAZ** [156, 159, 296, 356], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 198, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212, 221]
- Eurhynchium** Bruch et al. [Brachytheciaceae], see also *Eurhynchiadelphus eustegius*, *Eurhynchiastrum pulchellum*, *Kindbergia praelonga*, *Oxyrrhynchium hians*, etc., *Plasteurhynchium striatulum*, *Scorpiurium circinatum*
- *angustirete* (Broth.) T.J.Kop. (*E. striatum* subsp. *zetterstedtii* (P.Størmer) Podp., *E. striatum* var. *pachycladum* G.Roth) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207, 407], KLN [309], C [207, 212], S-UR [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ**\* (sub *striatum*) [296], **KYR**\* (sub *striatum*) [296], **RUS-AS**: S-SIB [70, 198, 212]
- *striatum* (Hedw.) Schimp. – **LTV** [244], **LAT** [3], **EST** [397], **BEL** [355], **UKR**: C [66], M [66], K

- [66, 328], **RUS-EUR**: KLN [?309], CAUC [208, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159] — {82}
- Eurohypnum* Ando [Hypnaceae]  
— *leptothallum* (Müll.Hal.) Ando – **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69, 212], S-FE [76, 212, 221]
- Fabronia* Raddi [Fabroniaceae]  
— *ciliaris* (Brid.) Brid. – **RUS-EUR**: S-UR [150, 207], CAUC [102, 248, 250], **GEO** [102, 117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212], YAK [239], S-FE [76, 212, 221]  
— *matsumurae* Besch. – excluded — {83}  
— *pusilla* Raddi – **RUS-EUR**: SE [207], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **TUR** [296], **TAD** [294, 296], **KYR** [296, 349, 351] — {84}
- Fauriella* Besch. [\*Pylaisiadelphaceae]  
— *tenuis* (Mitt.) Cardot – **RUS-AS**: S-FE [76, 77, 109, 212]
- Fissidens* Hedw. [Fissidentaceae]  
— *adianthoides* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: ARC-ESIB [93], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [140, 109]  
— *arcticus* Bryhn – **RUS-AS**: ARC-WSIB [136, 134], ARC-ESIB [134], ARC-YAK [49] — {85}  
— *arnoldii* R.Ruthe – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **TUR** [296]  
— *bryoides* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [296], **TAD** [294, 295], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [93, 163], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [40, 140], S-FE [76, 212, 221]  
— *bryoides* var. *gymnandrus* (Büse) R.Ruthe (*F. gymnandrus* Büse) – **LAT** [1], **RUS-EUR**: NW [84, 407], C [207], S-UR [91], **TAD** [295] — {86}  
— *crassipes* Wilson ex Bruch et al. (*F. mildeanus* Schimp.) – **LAT** [3], **UKR**: M [66], K [328], **RUS-EUR**: S-UR [150], **GEO** [117], **AZE** [277], **TUR** [296]  
— *crispus* Mont. (*F. limbatus* Sull., *F. bambergeri* auct. non Milde) – **UKR**: K [328], **TUR** [296]  
— *curvatus* Hornsch. (*F. strictulus* Müll.Hal.) – **RUS-AS**: S-FE [221]  
— *dubius* P.Beauv. (*F. cristatus* Wilson ex Mitt., *F. decipiens* De Not.) – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], KLN [309], C [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: N-FE [140], S-FE [76, 77, 109, 212]  
— *exiguus* Sull. – **UKR**: M [66], **RUS-EUR**: C [207, 212, 345], S-UR [88, 207], **TUR** [296], **TAD** [295]  
— *exilis* Hedw. – **LTV** [244], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: NW [207], NE [207], KLN [309], C [207, 212, 345], S-UR [89, 207, 275], CAUC [248], **GEO** [117], **TAD** [294, 295], **RUS-AS**: S-SIB [427]  
— *fontanus* (Bach.Pyl.) Steud. (*Octodiceras fontanum* (Bach.Pyl.) Lindb.) – **LAT** [3], **EST** [237], **UKR**: M [66, 402], **RUS-EUR**: NW [262]  
— *gracilifolius* Brugg.-Nann. & Nyholm (*F. viridulus* var. *tenuifolius* (Boulay) A.J.E.Sm., *F. minutulus* auct. non Wils.) – **EST** [237], **MLD** [367], **UKR**: C [66], M [66], **RUS-EUR**: NW [63], NE [415], C [207, 212, 345], S-UR [150, 207], SE [207], CAUC [55, 208, 212, 232, 248], **GEO** [13], **RUS-AS**: ?ARC-YAK [47], ?S-FE [76] — {87}  
— *grandifrons* Brid. (*Pachyfidens grandifrons* (Brid.) Limpr.) – **ARM** [297], **KAZ** [157, 296], **KYR** [267], **UZB** [296, 347], **TAD** [294, 295]  
— *gymnogynus* Besch. – **RUS-AS**: S-FE [174, 178]  
— *incurvus* Starke ex Röhl. (*F. viridulus* var. *incurvus* (Starke ex Röhl.) Waldh.) – **UKR**: M [66], **GEO** [117]

- *karataviensis* N.Samsel – **KAZ** [295], **UZB** [296], **KYR** [296] — {88}
- *marginatulus* Meln. – **UKR**: C [66], M [66], K [328], **RUS-EUR**: NE [415]
- *nobilis* Griff. (*F. japonicus* Dozy & Molk.) – **RUS-AS**: S-FE [77]
- *osmundoides* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR** [392], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231], **AZE** [277], **KAZ** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140], S-FE [221] — {89}
- *persicus* R.Ruthe – **TUR** [296, 368]
- *pusillus* (Wilson) Milde – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: NW [285], NE [415], KLN [309], ?C [212, 345], S-UR [150], CAUC [18], **GEO** [117], **ARM** [297] — {90}
- *rivularis* (Spruce) Bruch et al. – **UKR**: K [328], **RUS-EUR**: CAUC [55, 212], **GEO** [117]
- *rufulus* Bruch et al. – **UKR**: C [66], **RUS-EUR**: NE [415]
- *taxifolius* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], NE [207], KLN [309], C [207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [70, 212], S-FE [76, 77, 212]
- *teysmannianus* Dozy & Molk. (*F. adelphinus* Besch.) – **RUS-AS**: S-FE [77]
- *viridulus* (Sw.) Wahlenb. – **LTV** [244], **UKR**: C [66], M [66], **MLD** [367], **UKR**: C [66], M [66], **RUS-EUR**: NW [212, 364, 407], NE [212, 415], S-UR [91], **GEO** [117], **AZE** [277], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [93, 164, 212], W-SIB [265], S-SIB [212, 336], E-SIB [163], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140]

*Fontinalis* Hedw. [Fontinalaceae]

- *antipyretica* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-ESIB [164], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 212]
- *antipyretica* var. *gracilis* (Lindb.) Schimp. – **LTV** [244], **LAT** [1], **EST** [237], **BEL** [355], **RUS-EUR**: NW [85, 212, 251, 364, 407], NE [414], KLN [309], C [207], N-UR [150], S-UR [150, 212], **RUS-AS**: ARC-ESIB [164], S-SIB [197], E-SIB [275], YAK [239], N-FE [140], S-FE [79, 212]
- *dalecarlica* Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **RUS-EUR**: ARC [150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [90, 150, 207, 212, 415], S-UR [150, 207, 212] — {91}
- *hypnoides* Hartm. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 415], S-UR [150, 207], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **RUS-AS**: ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], N-FE [140], S-FE [114]
- *hypnoides* var. *duriyai* (Schimp.) Kindb. – **RUS-EUR**: NE [414], N-UR [150], **KAZ** [23], **KYR** [267, 296], **RUS-AS**: S-SIB [69]
- *squamosa* Hedw. – **LTV** [244], **EST** [237], **RUS-EUR**: NW [212, 364, 407], NE [414], N-UR [150, 415], S-UR [150], **RUS-AS**: S-SIB [197], E-SIB [212, 247]

*Forsstroemia* Lindb. [Neckeraceae]

- *cryphaeoides* Cardot – **RUS-AS**: S-FE [76, 203, 212]
- *japonica* (Besch.) Paris – **RUS-AS**: S-FE [76, 77, 109, 203, 212]
- *noguchii* L.R.Stark – **RUS-AS**: S-SIB [203, 374]
- *stricta* Laz. – **RUS-AS**: S-FE [203, 212, 268]
- *trichomitria* (Hedw.) Lindb. – **RUS-AS**: S-FE [76, 203, 212]

*Funaria* Hedw. [Funariaceae], see also *Entosthodon muhlenbergii*, *E. pulchellus*

- *aequidens* Lindb. ex Broth. – **RUS-EUR**: CAUC [25, 102], **GEO** [25, 117], **KAZ** [25, 157], **TAD** [25, 296]
- *arctica* (Berggr.) Kindb. – **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], ARC-YAK [47, 212, 239], ?ARC-FE [35]

- *hygrometrica* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [267, 296], **TAD** [294, 296], **KYR** [267, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *microstoma* Bruch ex Schimp. – **UKR**: M [66], **RUS-EUR**: ?NE [415], **TAD** [294, 296], **KYR** [296] — {92}
- *polaris* Bryhn – **RUS-AS**: ARC-FE [40, 212]
- Glyphomitrium* Brid. [Ptychomitriaceae]
- *humillimum* (Mitt.) Cardot – **RUS-AS**: S-FE [76, 77, 114, 212]
- Gollania* Broth. [Pylaisiaceae]
- *ruginosa* (Mitt.) Broth. – **RUS-AS**: S-FE [76, 212, 221]
- *turgens* (Müll.Hal.) Ando – **RUS-AS**: S-SIB [69, 70, 212]
- Grimmia* Hedw. [Grimmiaceae], see also *Schistidium apocarpum*, *S. alpicola*, etc.
- *alpestris* (F.Weber & D.Mohr) Schleich. – **UKR**: C [66, 306], **RUS-EUR**: S-UR [150, 234], CAUC [55, 231, 234, 248], **GEO** [117, 306], **ARM** [297, 306], **AZE** [277], **KAZ** [159, 296, 306, 356], **UZB** [306], **TAD** [294, 296, 306], **KYR** [296], **RUS-AS**: S-SIB [234], N-FE [140, 234], S-FE [221]
- *anodon* Bruch et al. – **UKR**: M [66], K [66, 328], **RUS-EUR**: NW [234, 407], C [234], S-UR [234], SE [234], CAUC [55, 231, 234, 248], **GEO** [117, 306], **ARM** [297, 306], **AZE** [277], **KAZ** [159, 296, 306], **TUR** [267, 296], **TAD** [294, 296], **KYR** [267, 296, 306], **UZB** [267], **RUS-AS**: ARC-ESIB [164, 234], S-SIB [70, 234], E-SIB [234], ARC-YAK [234], YAK [234, 239], ARC-FE [40, 234]
- *anomala* Hampe ex Schimp. – **UKR**: C [66], **RUS-EUR**: NW [234, 87], S-UR [234], CAUC [55, 231, 234], **GEO** [117, 306], **RUS-AS**: S-SIB [234], N-FE [140]
- *atrata* Miel. ex Hornsch. (*Streptocolea atrata* (Miel. ex Hornsch.) Ochyra & Żarnowiec) – excluded [66]
- *caespiticia* (Brid.) Jur. – **RUS-EUR**: CAUC [55, 231, 234], **GEO** [117, 306], **ARM** [297, 306], **KYR** [296], **UZB** [267], **RUS-AS**: S-SIB [234]
- *capillata* De Not. (*G. mesopotamica* Schiffn.) – **TUR** [306], **TAD** [295, 296], **RUS-AS**: S-SIB [234] — {93}
- *crinita* Brid. – **EST** [237], **GEO** [117, 306], **ARM** [297], **AZE** [277, 306], **TUR** [296, 306], **KYR** [296]
- *decipiens* (Schultz) Lindb. – **UKR**: C [66], K [66, 328], **ARM** [297, 306]
- *donniana* Sm. – **UKR**: C [66, 306], **RUS-EUR**: NW [234, 273, 364, 407], N-UR [234, 415], CAUC [234, 248], **GEO** [117, 306], **ARM** [297], **AZE** [277], **TAD** [296], **KYR** [296, 351], **RUS-AS**: S-SIB [234], E-SIB [234], YAK [234, 239], ARC-FE [40, 234], N-FE [140, 234], S-FE [221]
- *elatior* Bruch ex Bals.-Criv. & De Not. – **UKR**: C [66], **RUS-EUR**: NW [234, 364, 407], NE [234], C [207], N-UR [90, 150, 234], S-UR [150, 234], CAUC [55, 231, 234], **GEO** [117, 248, 306], **ARM** [297, 306], **AZE** [277], **KAZ** [23, 159, 296, 306, 356], **TAD** [296], **KYR** [296, 351, 306], **RUS-AS**: ARC-ESIB [164, 234], S-SIB [69, 234], E-SIB [234], ARC-FE [40, 234], S-FE [221, 234]
- *elongata* Kaulf. – **UKR**: C [66], K [328], **RUS-EUR**: N-UR [234], **GEO** [117, 306], **ARM** [297], **KAZ** [159, 296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: N-FE [141]
- *exquisita* J.Muñoz – **TUR** [305], **TAD** [305]
- *funalis* (Schwägr.) Bruch et al. – **UKR**: C [66, 306], **RUS-EUR**: NW [234, 364], N-UR [234], CAUC [55, 231, 234, 248], **GEO** [117, 306], **ARM** [297, 306], **AZE** [277, 306], **KAZ** [296, 356], **TUR** [296], **TAD** [296], **RUS-AS**: ARC-ESIB [164, 234], S-SIB [234], E-SIB [234], YAK [234, 239], ARC-FE [40, 234], S-FE [221, 234]
- *fuscolutea* Hook. (*G. apiculata* Hornsch.) – **UKR**: C [66], **RUS-EUR**: CAUC [231, 234], **RUS-AS**: S-SIB [234, 306], N-FE [141]
- *hartmanii* Schimp. (*G. brotheri* Lindb. ex Broth.) – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [234, 407], S-UR [234], KLN [309], CAUC [55, 231, 234, 248], **GEO** [117, 306], **ARM** [297, 306], **RUS-AS**: N-FE [140, 234], S-FE [77, 109, 234]
- *incurva* Schwägr. – **UKR**: C [66, 306], **RUS-EUR**: NW [234, 273, 364, 407], NE [234], N-UR [150,



- 234], S-UR [150, 234], CAUC [55, 231, 234, 248], **GEO** [117, 306], **ARM** [297], **RUS-AS**: ARC-ESIB [164, 234], S-SIB [70, 234], YAK [234, 239], ARC-FE [40, 234], N-FE [94, 140, 234], S-FE [221, 234]
- *jacutica* Ignatova, Bednarek-Ochyra, Afonina & J. Muñoz – **RUS-AS**: ARC-ESIB [164, 225, 234], S-SIB [225, 234], E-SIB [225, 234], ARK-YAK [239], YAK [225, 234, 239], ARC-FE [225, 234], S-FE [225, 234]
- *laevigata* (Brid.) Brid. – **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [234], C [234, 345], S-UR [150, 234], SE [234], CAUC [231, 232, 234, 248], **GEO** [117, 306], **ARM** [297, 306], **AZE** [277], **KAZ** [267, 296, 306, 356], **TUR** [296], **UZB** [267, 306], **TAD** [294, 296, 306], **KYR** [296, 306, 351], **RUS-AS**: S-SIB [69, 70, 234]
- *longirostris* Hook. (*G. affinis* Hornsch., *G. cavifolia* Lindb. & Arnell) – **UKR**: C [66], M [66], **RUS-EUR**: ARC [127, 150], NW [87, 234, 364, 407], NE [234], N-UR [90, 150, 234], S-UR [150, 234], CAUC [55, 231, 234, 248], **GEO** [117, 306], **KAZ** [306], **TUR** [306], **KYR** [351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], W-SIB [234], S-SIB [69, 70, 234], E-SIB [69, 234], ARC-YAK [239], YAK [234, 239], ARC-FE [40, 234], N-FE [94, 140, 234], S-FE [221, 234]
- *mollis* Bruch et al. (*Hydrogrimmia mollis* (Bruch et al.) Loeske) – **RUS-EUR**: NW [87, 234, 364], N-UR [150, 234], CAUC [231, 234], **GEO** [117], **RUS-AS**: S-SIB [197, 234], YAK [234, 239], ARC-FE [40, 234], N-FE [94, 140, 234], S-FE [221, 234]
- *montana* Bruch et al. – **UKR**: C [66], **RUS-EUR**: NW [234, 364, 407], CAUC [231, 234], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [296], **KYR** [296, 351] — {94}
- *muehlenbeckii* Schimp. – **LAT** [306], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [150], NW [234, 364, 407], NE [234, 288], KLN [309], C [234, 345], N-UR [150, 234], S-UR [150, 234], CAUC [231, 234, 248], **GEO** [306], **AZE** [277], **RUS-AS**: W-SIB [234], S-SIB [69, 234], E-SIB [234, 275], YAK [234, 239], S-FE [234] — {95}
- *orbicularis* Bruch ex Wilson – **UKR**: M [66], K [66, 328], **RUS-EUR**: CAUC [234], **GEO** [117, 306], **ARM** [297, 306], **AZE** [306], **KAZ** [296], **TUR** [267, 296, 306], **UZB** [296, 306], **TAD** [296], **KYR** [296]
- *ovalis* (Hedw.) Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [234, 407], C [234], S-UR [150, 234], SE [234], CAUC [231, 234, 248], **GEO** [306], **ARM** [297, 306], **AZE** [277], **KAZ** [23, 296, 306, 356], **TUR** [296], **UZB** [267, 306], **TAD** [294, 296, 306], **KYR** [296, 306, 351], **RUS-AS**: S-SIB [70, 234], N-FE [140], S-FE [221, 234] — {96}
- *pilifera* P.Beauv. – **RUS-AS**: S-SIB [234], ARC-FE [40, 234], S-FE [221, 234]
- *plagiopodia* Hedw. – **UKR**: M [66, 306], **RUS-EUR**: C [423], S-UR [150, 234], SE [234], CAUC [250], **GEO** [117, 306], **ARM** [297, 306], **AZE** [277], **TAD** [294, 296], **KYR** [296, 349], **RUS-AS**: S-SIB [70, 234]
- *poecilostoma* Cardot & Sebillé (*G. tergestina* var. *poecilostoma* (Cardot & Sebillé) Loeske) – **UKR**: K [66, 306, 328], **RUS-EUR**: S-UR [52], (CAUC [234, 248], **GEO** [306], **ARM** [297, 306], **AZE** [306], **KAZ** [306], **TUR** [306], **TAD** [296], **KYR** [267, 296, 306], **UZB** [267], **RUS-AS**: S-SIB [234], YAK [234, 239])
- *pulvinata* (Hedw.) Sm. (*G. pulvinata* var. *africana* (Hedw.) Hook.f. & Wilson) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [234, 407], KLN [309], C [234], SE [234], CAUC [55, 208, 231, 232, 234, 248], **GEO** [117, 306], **ARM** [297, 306], **AZE** [277], **KAZ** [159, 296, 356], **TUR** [296, 306], **UZB** [267, 296, 306], **TAD** [294, 296, 306], **KYR** [296, 351]
- *ramondii* (Lam. & DC.) Margad. (*Racomitrium patens* (Hedw.) Huebener, *Dryptodon patens* (Hedw.) Brid., *G. curvata* (Brid.) De Sloover) – **LAT** [3], **UKR**: C [66], **RUS-EUR**: NW [234, 407], C [234], **GEO** [117], **ARM** [297], **AZE** [277]
- *reflexidens* Müll.Hal. (*G. sessitana* De Not., *G. subsulcata* Limpr., *G. laevidens* Broth.) – **RUS-EUR**: NW [234], N-UR [150, 234, 415], CAUC [208, 231, 234, 248], **GEO** [117, 306], **KAZ** [306], **KYR** [296], **UZB** [267], **RUS-AS**: S-SIB [234], E-SIB [163, 234], YAK [234, 239], ARC-FE [40, 234], N-FE [140, 234], S-FE [234] — {97}
- *teretinervis* Limpr. – **RUS-EUR**: N-UR [234], S-UR [234], CAUC [234], **RUS-AS**: E-SIB [234], ARC-YAK [234, 239], YAK [234, 239]

- *tergestina* Tomm. ex Bruch et al. (*G. tergestinoides* Culm., *G. crassifolia* Lindb. ex Broth.) – **UKR**: M [66], K [328], **RUS-EUR**: N-UR [?234], S-UR [?234], CAUC [231, 232, 234, 248], **GEO** [117, 306], **ARM** [297, 306], **KAZ** [296, 356], **TUR** [267, 296, 306], **UZB** [385], **TAD** [294, 296], **KYR** [296], **RUS-AS**: S-SIB [234], YAK [234, 239], S-FE [234] — {98}
- *torquata* Drumm. – **RUS-EUR**: ARC [150], NW [234, 273, 364, 407], N-UR [234], CAUC [231, 234], **RUS-AS**: YAK [234, 239], ARC-ESIB [50], ARC-FE [40, 234], N-FE [141, 234], S-FE [234]
- *trichophylla* Grev. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: KLN [309], **GEO** [117], **ARM** [297] — {99}
- *triformis* Carestia & De Not. – **RUS-AS**: S-SIB [234, 306], N-FE [141]
- *unicolor* Hook. – **RUS-EUR**: NW [234, 407], CAUC [231, 234], **GEO** [117], **AZE** [277], **KAZ** [159, 296, 306, 356], **TUR** [296], **TAD** [296], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 234], S-FE [221, 234] — {100}
- Gymnostomum* Nees & Hornsch. [Pottiaceae], see also *Hymenostylium recurvirostrum*
- *aeruginosum* Sm. – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [212, 364, 407], NE [207, 212, 415], C [207, 345], N-UR [90, 150, 207, 415], S-UR [150, 207, 212], SE [366], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 157], **UZB** [347], **TAD** [294, 295], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [162, 212, 386], ARC-YAK [47, 239], YAK [239], ARC-FE [40], S-FE [76, 77, 212] — {101}
- *boreale* Nyholm & Hedenäs – **RUS-EUR**: NW [291, 314], **RUS-AS**: E-SIB [163] — {102}
- *calcareum* Nees & Hornsch. – **LAT** [3], **EST** [237], **UKR**: M [66], K [66, 328], **RUS-EUR**: NW [407], CAUC [208, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **UZB** [347], **TAD** [294, 295], **KYR** [296, 349], **RUS-AS**: S-SIB [197, 212], ARC-YAK [239], YAK [239] — {101}
- *calcareum* var. *viridulum* Brid. – **RUS-EUR**: CAUC [102], **GEO** [102], **TUR** [296, 368]
- Gyroweisia* Schimp. [Pottiaceae]
- *tenuis* (Hedw.) Schimp. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [207], C [207, 212, 345], S-UR [89, 207], SE [207], CAUC [250], **RUS-AS**: S-SIB [69, 71]
- Habrodontia* Schimp. [Habrodontaceae], see also *Iwatsukiella leucotricha*
- *perpusillus* (De Not.) Lindb. – **RUS-EUR**: CAUC [228, 232]
- Hamatocaulis* Hedenäs [Scorpidiaceae]
- *lapponicus* (Norrl.) Hedenäs (*Drepanocladus lapponicus* (Norrl.) Smirnova) – **LAT** [3], **RUS-EUR**: ARC [47, 150], NW [86, 212, 407], NE [415], C [430], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [265], E-SIB [126, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [40, 94]
- *vernicosus* (Mitt.) Hedenäs (*Drepanocladus vernicosus* (Mitt.) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [150, 207], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [158, 296, 3568], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [40], S-FE [76]
- Haplocladium* (Müll.Hal.) Müll.Hal. [Thuidiaceae]
- *angustifolium* (Hampe & Müll.Hal.) Broth. (*Bryohaplocladium angustifolium* (Hampe & Müll.Hal.) R.Watan. & Z.Iwats.) – **RUS-EUR**: ?C: [212, 304], **RUS-AS**: S-SIB [197, 212], E-SIB [126, 212], S-FE [76, 212, 221] — {103}
- *microphyllum* (Hedw.) Broth. (*Bryohaplocladium microphyllum* (Hedw.) R.Watan. & Z.Iwats.) – **BEL** [355], **UKR**: M [66], **RUS-EUR**: C [207, 212, 345], S-UR [91, 150, 207, 212], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], S-FE [76, 77, 109, 212]
- *strictulum* (Cardot) Reimers – **RUS-AS**: S-FE [76, 212]
- *virginianum* (Brid.) Broth. (*Bryohaplocladium virginianum* (Brid.) R.Watan. & Z.Iwats.) – **GEO** [102, 117], **ARM** [297]
- Haplohymenium* Dozy & Molke. [Anomodontaceae]
- *flagelliforme* L.I.Savicz – **RUS-AS**: S-FE [76, 212]
- *longinerve* (Broth.) Broth. – **RUS-AS**: S-SIB [69, 72], S-FE [75, 79, 212]
- *triste* (Ces.) Kindb. (*Anomodon tristis* (Ces.) Sull. & Lesq. – **GEO** [28], **RUS-AS**: S-SIB [69, 70], YAK [239], S-FE [76, 212, 221])

**Hedwigia** P.Beauv. [Hedwigiaceae]

- *ciliata* (Hedw.) P.Beauv. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [53, 207, 415], KLN [309], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69, 162, 212], YAK [212, 239], ARC-FE [40], N-FE [40, 161], S-FE [76, 109, 212]
- *stellata* Hedenäs – **RUS-AS**: S-FE [221]

**Helodium** Warnst. [Thuidiaceae], see also *Echinophyllum sachalinense*

- *blandowii* (F.Weber & D.Mohr) Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [248], **TAD** [26, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [109, 212]
- *paludosum* (Austin) Broth. – **RUS-AS**: S-SIB [69, 212], E-SIB [212, 247], S-FE [76, 77, 212]

**Hennediella** Paris [Pottiaceae]

- *heimii* (Hedw.) R.H.Zander (*Desmatodon heimii* (Hedw.) Mitt., *Pottia heimii* (Hedw.) Hampe) – **LAT** [3], **EST** [237], **UKR**: M [66], **RUS-EUR**: ARC [47], NW [364], C [207, 345], **AZE** [277], **KAZ** [157, 296], **TAD** [295], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212, 275], S-SIB [70, 197], ARC-YAK [47, 212, 239], ARC-FE [40, 212]
- *heimii* var. *arctica* (Lindb.) R.H.Zander – **RUS-EUR**: ARC [47, 150], **TAD** [295], **RUS-AS**: ARC-ESIB [164], E-SIB [163], ARC-YAK [47, 239], ARC-FE [40, 212], N-FE [140]

**Herpetineuron** (Müll.Hal.) Cardot [Anomodontaceae]

- *toccoae* (Sull. & Lesq.) Cardot – **RUS-AS**: S-SIB [69], S-FE [76, 212]

**Herzogiella** Broth. [Plagiotheciaceae]

- *adscendens* (Lindb.) Z.Iwats. & W.B.Schofield – **RUS-AS**: ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212, 274]
- *seligeri* (Brid.) Z.Iwats. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 407], NE [207, 212], KLN [309], C [207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** (156, 159), **TAD** [296], **KYR** [296]
- *striatella* (Brid.) Z.Iwats. – **LAT** [4], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [364, 407], N-UR [?47], **RUS-AS**: S-SIB [336], S-FE [76, 212]
- *turfacea* (Lindb.) Z.Iwats. – **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 415], S-UR [150, 212], **RUS-AS**: W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], ?ARC-YAK [47], YAK [239], S-FE [76, 77, 109, 212] — {104}

**Heterocladium** Bruch et al. [Heterocladiaceae], see also *Pseudoleskeella papillosa*

- *dimorphum* (Brid.) Bruch et al. – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [212, 273, 364, 407], NE [207, 288, 416], N-UR [150, 207], S-UR [150], CAUC [55, 212, 231], **GEO** [117], **AZE** [277], **RUS-AS**: W-SIB [265], S-SIB [69, 212], N-FE [140], S-FE [110]
- *heteropterum* (Brid.) Bruch et al. – **UKR**: C [66], **RUS-EUR**: CAUC [55, 212, 231], **GEO** [117], **AZE** [277]
- *procurrens* (Mitt.) A.Jaeger – **RUS-AS**: ARC-FE [40]

**Heterophyllum** (Schimp.) Kindb. [Pylaisiadelphaceae], see also *Callicladium haldanianum*

- *affine* (Hook.) M.Fleisch. – **UKR**: C [66], **RUS-EUR**: CAUC [208, 212], **GEO** [102], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 247], S-FE [76, 212, 221]

**Hilpertia** R.H.Zander [Pottiaceae]

- *velenovskiyi* (Schiffn.) R.H.Zander – **RUS-EUR**: CAUC [384, 250], **RUS-AS**: E-SIB [7]

**Homalia** Brid. [Neckeraceae], see also *Neckera besseri*

- *trichomanoides* (Hedw.) Bruch et al. (*Homalia japonica* Besch.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207],

- CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], S-FE [76, 77, 212] — {105}
- *webbiana* (Mont.) Schimp. (*H. woronowii* Thér.) — **GEO** [382, 181] — {106}
- Homaliadelphus** Dixon & P.de la Varde [\*Neckeraceae]
- *targionianus* (Mitt.) Dixon & P.de la Varde var. *laevidentatus* (S.Okamura) Nog. (*Homaliadelphus laevidentatus* (S.Okamura) Z.Iwats.) — **RUS-AS**: S-FE [76]
- Homalothecium** Bruch et al. [Brachytheciaceae], see also *Tomentypnum nitens*
- *aureum* (Spruce) H. Rob. — **UKR**: K [328], **KAZ** [296], **TUR** [9, 296]
- *laevisetum* Sande Lac. — **RUS-AS**: S-FE [76, 77, 109, 212]
- *lutescens* (Hedw.) H.Rob. (*Camptothecium lutescens* (Hedw.) Bruch et al.) — **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 291], KLN [309], C [207, 212, 345], S-UR [207], CAUC [55, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159], **TUR** [296, 9], **KYR** [296]
- *philippeanum* (Spruce) Bruch et al. (*H. aristatum* Laz.) — **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: KLN [309], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 393], **TUR** [296], **UZB** [267], **TAD** [293, 296], **KYR** [296, 349, 351], **RUS-AS**: S-SIB [198]
- *sericeum* (Hedw.) Bruch et al. — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 212, 364, 407], NE [53], KLN [309], C [207, 212, 345], N-UR [150, 207, 415], S-UR [150, 207], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TUR** [296], **TAD** [296], **KYR** [296, 351]
- Homomallium** (Schimp.) Loeske [Pylaisiaceae]
- *connexum* (Cardot) Broth. — **RUS-AS**: S-SIB [200, 212], S-FE [76, 212, 221]
- *incurvatum* (Schrud. ex Brid.) Loeske — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 407], C [207, 212, 345], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [167, 212, 247], S-FE [76, 212]
- *japonico-adnatum* (Broth.) Broth. — **RUS-AS**: S-FE [178]
- *plagiangium* (Müll.Hal.) Broth. — **RUS-AS**: S-FE [212, 268]
- Hondaella** Dixon & Sakurai [\*Hypnaceae]
- *caperata* (Mitt.) Ando, B.C.Tan & Z.Iwats. (*H. brachytheciella* (Broth. & Paris) Ando) — **RUS-AS**: S-FE [76, 212]
- Hookeria** Sm. [Hookeriaceae]
- *acutifolia* Hook. & Grev. — **GEO** [22, 117]
- *lucens* (Hedw.) Sm. — **UKR**: C [66, 413], **RUS-EUR**: CAUC [55], **GEO** [117], **AZE** [277]
- Hydrogonium** (Müll.Hal.) A.Jaeger [Pottiaceae]
- *arcuatum* (Griff.) Wijk & Margad. — **TUR** [8, 296, 368]
- *ehrenbergii* (Lorenz) A.Jaeger — **KAZ** [296, 356], **TUR** [16, 295, 296], **UZB** [16], **TAD** [295], **KYR** [296]
- *mamatkulovii* Laz. — **TAD** [295]
- Hydrogrimmia* see *Grimmia mollis*
- Hygroamblystegium** Loeske [Amblystegiaceae]
- *fluviatile* (Hedw.) Loeske (*Amblystegium fluviatile* (Hedw.) Bruch et al.) — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 212, 407], KLN [309], C [207], S-UR [150], **KAZ** [157, 296]
- *humile* (P.Beauv.) Vanderp., Goffinet & Hedenäs (*Amblystegium humile* (P.Beauv.) Crundw., *Leptodictyum humile* (P.Beauv.) Ochyra, *L. kochii* (Bruch et al.) Warnst.) — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 407], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [150, 207], S-UR [150, 207, 212], SE [207], CAUC [231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [294, 296], **KYR** [296], **RUS-AS**: ARC-ESIB [?47], W-SIB [265], S-SIB [69, 70, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [239], N-FE [94, 140], S-FE [76, 109, 212]

- *tenax* (Hedw.) Jenn. (*Amblystegium tenax* (Hedw.) C.E.O.Jensen) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NE [90, 212, 416], KLN [309], C [207, 212, 345], S-UR [150, 207, 212], CAUC [55, 212], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 160, 296], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], YAK [239], S-FE [76, 77, 212]
- *varium* (Hedw.) Mönk. (*Amblystegium varium* (Hedw.) Lindb., *Orthotheciella varia* (Hedw.) Ochyra) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 407], NE [207, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207, 212], CAUC [208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [160, 296, 356], **TAD** [294, 296], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [239], YAK [239], ARC-FE [38, 40, 212], N-FE [94, 95], S-FE [76]

*Hygrohypnella* Ignatov & Ignatova [Scorpidiaceae], see also *Ochyraea duriuscula*

- *bestii* (Renauld & Bryhn) Ignatov & Ignatova, comb. nov. – *Limmobium molle* subsp. *bestii* Renauld & Bryhn, Bull. Acad. Int. Géogr. Bot. 10: 7. 1901. (*Hygrohypnum bestii* (Renauld & Bryhn) Broth.) – **RUS-AS**: N-FE [138, 140], S-FE [67]
- *ochracea* (Turner ex Wilson) Ignatov & Ignatova (*Hygrohypnum ochraceum* (Turner ex Wilson) Loeske) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [138, 273, 364, 407], NE [138, 415], C [138], N-UR [138, 150], S-UR [138, 150], CAUC [55, 138, 231], **GEO** [117], **KAZ** [296, 356], **TAD** [294, 296], **RUS-AS**: ARC-WSIB [136, 138, 275], W-SIB [138, 265], S-SIB [69, 70, 138], E-SIB [138, 275], ARC-YAK [47, 138, 239], YAK [138, 239], ARC-FE [40, 138], N-FE [138, 140], S-FE [76, 77, 109, 138]
- *polare* (Lindb.) Ignatov & Ignatova (*Hygrohypnum polare* (Lindb.) Loeske, *H. polare* var. *falcatum* Broth., *H. ehlei* (Arnell) Broth.) – **RUS-EUR**: ARC [47, 138, 150], NW [138, 364], N-UR [150, 415], **KAZ** [159, 296, 356], **TAD** [294, 296], **KYR** [296], **RUS-AS**: ARC-ESIB [138, 164, 275], W-SIB [138], S-SIB [69, 70, 138], E-SIB [69, 138, 275], ARC-YAK [47, 138, 239], YAK [138, 239], ARC-FE [40, 138], N-FE [94, 138, 141], S-FE [138, 221]

*Hygrohypnum* Lindb. [Amblystegiaceae], see also *Hygrohypnella*, *Ochyraea*, *Pseudohygrohypnum*

- *luridum* (Hedw.) Jenn. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 138, 150], NW [138, 364, 407], NE [138, 415], KLN [309], C [138, 207, 345], N-UR [138, 150], S-UR [138, 150], CAUC [55, 138, 208, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **UZB** [347], **TAD** [296], **KYR** [296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 275], W-SIB [265], S-SIB [69, 70, 138], E-SIB [138, 275], ARC-YAK [47, 138, 239], YAK [138, 239], ARC-FE [40, 138], N-FE [138, 140], S-FE [138]

*Hylocomiastrum* Broth. [Hylocomiaceae]

- *pyrenaicum* (Spruce) M.Fleisch. (*Hylocomium pyrenaicum* (Spruce) Lindb.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [296], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *umbratum* (Hedw.) M.Fleisch. (*Hylocomium umbratum* (Hedw.) Bruch et al.) – **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: NW [207, 273, 364, 407], NE [207, 212], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 212, 231], **GEO** [117], **AZE** [277], **KAZ** [356], **RUS-AS**: S-SIB [70, 212], S-FE [109]

*Hylocomiopsis* Cardot [Hylocomiaceae]

- *ovicarpa* (Besch.) Cardot – **RUS-AS**: S-FE [76, 109]

*Hylocomium* Bruch et al. [Hylocomiaceae], see also *Hylocomiastrum*, *Loeskeobryum brevirostre*, in older publications *Rhytidadelphus*, *Pleurozium*

- *splendens* (Hedw.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69,

- 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *splendens* var. *obtusifolium* (Geh.) Paris – **RUS-EUR**: ARC [47, 150], N-UR [414], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 197, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [38, 212], N-FE [140]
- Hymenoloma** Ochyra [Rhabdoweisiaceae]
- *crispulum* (Hedw.) Ochyra (*Dicranoweisia crispula* (Hedw.) Milde) – **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212, 415], S-UR [150, 212], CAUC [55, 102, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [295], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221] — {107}
- *intermedium* (J.J.Amann) Ochyra (*Dicranoweisia intermedia* J.J.Amann) – **ARM** [27, 297], **KAZ** [27, 296, 356], **TAD** [294, 295], **KYR** [27, 296, 351], **RUS-AS**: ARC-ESIB [164], S-SIB [197, 212], ARC-FE [40, 212], N-FE [40, 140]
- Hymenostomum** see *Weissia*
- Hymenostylium** Brid. [Pottiaceae]
- *recurvirostrum* (Hedw.) Dixon – **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [207, 364, 407], NE [207, 212, 415], C [381], N-UR [150, 212, 415], S-UR [207], SE [207], CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **TAD** [294, 295], **UZB** [267], **KYR** [267, 296, 351], **RUS-AS**: ARC-ESIB [93, 164], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [40, 141], S-FE [76, 77, 212]
- Hyocomium armoricum* (Brid.) Wijk & Margad. – excluded — {108}
- Hyophila** Brid. [Pottiaceae]
- *involuta* (Hook.) A.Jaeger – **RUS-AS**: S-SIB [69], S-FE [76]
- Hypnum** Hedw. [Hypnaceae], see also *Stereodon* spp., *Drepanium recurvatum*, *Calliergonella lindbergii*, *Breidleria pratensis*
- *andoi* A.J.E.Sm. (*H. mamillatum* (Brid.) Loeske) – **LTV** [244], **UKR**: C [66], M [66]
- *cupressiforme* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [53, 207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [296], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [93, 164, 212], W-SIB [265], S-SIB [69, 212], E-SIB [69, 70, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *cupressiforme* var. *lacunosum* Brid. – **LAT** [1], **EST** [237], **UKR**: 66, K [328], **RUS-EUR**: KLN [309]
- *cupressiforme* var. *subjulaceum* Molendo – **UKR** [66, 328], **MLD** [367], **RUS-EUR**: NW [407], N-UR [207], **AZE** [277], **TAD** [296], **RUS-AS**: S-SIB [212, 200], E-SIB [275], ARC-YAK [239], YAK [239], S-FE [212, 221]
- *densirameum* Ando – excluded — {109}
- *imponens* Hedw. – **LAT** [3], **BEL** [355], **UKR**: C [66], M [66, 405], K [66, 328], **GEO** [117], **AZE** [277], **KAZ** [296], **RUS-EUR**: CAUC [425], **RUS-AS**: ?ARC-YAK [47], ?N-FE [94, 140], ?S-FE [76] — {110}
- *jutlandicum* Holmen & E.Warncke – **LAT** [3], **UKR**: M [66], **RUS-EUR**: KLN [309] — {111}
- *saitoi* Ando – **RUS-AS**: E-SIB [388], YAK [239], N-FE [46], S-FE [212, 221]
- Hypopterygium** Brid. [Hypopterygiaceae]
- *flavolimbatum* Müll. Hal. (*H. japonicum* Mitt.) – **RUS-AS**: S-FE [76, 77, 212] — {112}
- Indusiella** Broth. & Müll.Hal. [Grimmiaceae]
- *thianschanica* Broth. & Müll.Hal. – **RUS-EUR**: CAUC [12], **TAD** [295], **KYR** [103, 296], **RUS-AS**: S-SIB [69, 70, 212], YAK [239]
- Isopterygiopsis** Z.Iwats. [Plagiotheciaceae]
- *alpicola* (Lindb. & Arnell) Hedenäs (*Isopterygium alpicola* (Lindb. & Arnell) Nyholm) – **RUS-EUR**:

NW [364], NE [414], **RUS-AS**: S-SIB [200, 212], E-SIB [163, 275, 388], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [212, 221]

— *muelleriana* (Schimp.) Z.Iwats. (*Isopterygium muellerianum* (Schimp.) A.Jaeger) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], N-UR [247], **GEO** [117], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [212, 386], ARC-YAK [239], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [76, 77, 212]

— *pulchella* (Hedw.) Z.Iwats. (*Isopterygium pulchellum* (Hedw.) A.Jaeger) – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]

*Isopterygium* see *Isopterygiopsis*, *Pseudotaxiphyllum*

*Isothecium* Brid. [Lembophyllaceae], see also *Plasteurhynchium striatum*

— *alopeuroides* (Lam. ex Dubois) Isov. (*I. myurum* Brid.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 212, 364, 407], NE [288], KLN [309], C [207, 212, 345], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277]

— *hakkodense* Besch. – **RUS-AS**: S-FE [77]

— *mysuroides* Brid. – **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: NW [207, 212, 364, 407], NE [288], KLN [309], CAUC [55, 208, 212, 232], **GEO** [117]

*Iwatsukiella* W.R.Buck & H.A.Crum [\*Leskeaceae]

— *leucotricha* (Mitt.) W.R.Buck & H.A.Crum – **RUS-EUR**: N-UR [150, 207, 212], S-UR [150, 207, 212], **GEO** [372], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69, 212], YAK [239], N-FE [40, 94, 140], S-FE [76, 77, 109, 212]

*Jaffuelobryum* Thér. [Grimmiaceae]

— *latifolium* (Lindb. & Arnell) Thér. – **RUS-EUR**: CAUC [249, 250], **RUS-AS**: W-SIB [339], S-SIB [69, 70, 212, 275], YAK [239] — {113}

*Kiaeria* I.Hagen [Rhabdoweisiaceae]

— *blyttii* (Bruch et al.) Broth. – **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [212, 273, 364, 407], N-UR [150, 207, 415], S-UR [150, 207], CAUC [231], **RUS-AS**: ARC-ESIB [164], S-SIB [212, 336], E-SIB [163], YAK [239], ARC-FE [40], N-FE [94, 140]

— *falcata* (Hedw.) I.Hagen – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [84, 86], N-UR [150, 415], CAUC [55, 212], **GEO** [117], **AZE** [277], **RUS-AS**: S-SIB [197, 212], N-FE [140], S-FE [67]

— *glacialis* (Berggr.) I.Hagen – **RUS-EUR**: ARC [47, 150], NW [212, 273, 364], N-UR [150, 415], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], S-SIB [70], E-SIB [163], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [67]

— *riparia* (H.Lindb.) M.F.V.Corley (*Dicranella riparia* (H.Lindb.) Mårtensson & Nyholm) – **RUS-EUR**: NW [133], **RUS-AS**: ARC-WSIB [133, 136]

— *starkei* (F.Weber & D.Mohr) I.Hagen – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150, 415], NW [87, 273, 364], N-UR [150, 207, 212, 415], S-UR [150, 207], CAUC [55, 212, 231, 248], **GEO** [102, 117], **AZE** [277], **RUS-AS**: ARC-WSIB [136], S-SIB [70, 212], E-SIB [74, 212], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [212, 221]

*Kindbergia* Ochyra [Brachytheciaceae]

— *praelonga* (Hedw.) Ochyra (*Eurhynchium praelongum* (Hedw.) Bruch et al., *E. praelongum* var. *stokesii* (Turner) Dixon, *E. stokesii* (Turner) Bruch et al., *Oxyrrhynchium praelongum* (Hedw.) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: KLN [309], CAUC [208, 212], **GEO** [117], **AZE** [277] — {114}

*Leptobarbula* Schimp. [Pottiaceae]

— *berica* (De Not.) Schimp. – **GEO** [117, 153], **AZE** [277]

*Leptobryum* (Bruch et al.) Wilson [Meesiaceae]

— *pyriforme* (Hedw.) Wilson – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN

[309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [208, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [294, 296], **KYR** [296, 351], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [77, 109, 212]

*Leptodictyum* (Schimp.) Warnst. [Amblystegiaceae], see also *Hygroamblystegium humile*

— *riparium* (Hedw.) Warnst. (*Amblystegium riparium* (Hedw.) Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [296], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [140], S-FE [76, 109, 212]

*Leptodon* D.Mohr [Neckeraceae]

— *smithii* (Hedw.) F.Weber & D.Mohr – **UKR**: K [66, 328], **RUS-EUR**: CAUC [55, 203, 208, 212, 232], **GEO** [117], **AZE** [277]

*Leptodontium* (Müll.Hal.) Lindb. [Pottiaceae]

— *flexifolium* (Dicks.) Hampe (incl. *L. styriacum* (Jur.) Limpr.) – **RUS-EUR**: CAUC [201, 249], **RUS-AS**: S-SIB [69, 70], S-FE [76, 178, 212] — {115}

*Leptopterigynandrum* Müll.Hal. [\*Hypnaceae] — {116}

— *austro-alpinum* Müll.Hal. – **RUS-AS**: S-SIB [32, 182, 212], ARC-FE [32, 40, 182] — {116}

— *subintegrum* (Mitt.) Broth. – **RUS-AS**: S-SIB [182]

— *tenellum* Broth. – **RUS-AS**: S-SIB [182]

*Lescuraea* Bruch et al. [Pseudoleskeaceae]

— *incurvata* (Hedw.) E.Lawton (*Pseudoleskea incurvata* (Hedw.) Loeske) – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [87, 212, 364], NE [212, 415], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [296], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], ARC-FE [40], N-FE [140], S-FE [212, 221]

— *incurvata* var. *gigantea* E.Lawton – **RUS-EUR**: CAUC [231], **RUS-AS**: ARC-FE [40]

— *mutabilis* (Brid.) Lindb. – **UKR**: C [66], **RUS-EUR**: ?N-UR [415], ?S-UR [150], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [296], **KYR** [296], **RUS-AS**: S-SIB [212, 336], ?N-FE [94, 140] — {117}

— *patens* Lindb. (*Pseudoleskea patens* (Lindb.) Kindb.) – **UKR**: C [66], **RUS-EUR**: NW [364], NE [415], N-UR [150, 415], CAUC [212, 231], **AZE** [277], **KAZ** [296], **KYR** [296], **RUS-AS**: S-SIB [212, 336], N-FE [140]

— *plicata* (Schleich. ex F.Weber & D.Mohr) Broth. (*Ptychodium plicatum* (Schleich. ex F.Weber & D.Mohr) Schimp.) – **UKR**: C [66, 413], **RUS-EUR**: CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277]

— *radicosa* (Mitt.) Mönk. (*Pseudoleskea radicata* (Mitt.) Macoun & Kindb.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [87, 273, 364, 407], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 212, 231], **ARM** [297], **KAZ** [156, 296, 356], **RUS-AS**: S-SIB [70, 212], E-SIB [212, 247], ?ARC-YAK [47], ARC-FE [40], N-FE [94, 140]

— *saviana* (De Not.) E.Lawton (*Pseudoleskea saviana* (De Not.) Latzel) – **UKR**: C [66], K [66, 328], **RUS-EUR**: CAUC [55, 231], **GEO** [117], **AZE** [277]

— *saxicola* (Bruch et al.) Molendo – **UKR**: C [66], **RUS-EUR**: ARC [47, 127], NW [212, 273, 364, 407], NE [101], N-UR [150, 90, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [156, 296, 356], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [275], YAK [239], ARC-FE [40], N-FE [141], S-FE [76, 109, 212]

— *secunda* Arnell – **RUS-EUR**: N-UR [150, 207, 212], **RUS-AS**: S-SIB [70, 197], N-FE [140]

*Leskea* Hedw. [Leskeaceae]

— *polycarpa* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328],



**MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [247], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], N-FE [40, 140], S-FE [76, 77, 109, 212]

*Leskeella* see *Pseudoleskeella*

**Leucobryum** Hampe [Leucobryaceae]

— **glaucum** (Hedw.) Ångstr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [262], KLN [309], C [207, 212, 345], CAUC [55], **GEO** [117], **AZE** [277], **RUS-AS**: S-FE [76, 77, 109, 212]

— **juniperoideum** (Brid.) Müll.Hal. – **UKR** [315], **RUS-EUR**: CAUC [55, 208, 212], **GEO** [117], **RUS-AS**: S-FE [76, 115, 212]

**Leucodon** Schwägr. [Leucodontaceae]

— **coreensis** Cardot – **RUS-AS**: S-FE [203, 212]

— **flagellaris** Lindb. ex Broth. – **RUS-EUR**: CAUC [55, 203, 212, 231], **GEO** [117]

— **immersus** Lindb. – **RUS-EUR**: CAUC [55, 203, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [296]

— **pendulus** Lindb. – **RUS-EUR**: C [207], **RUS-AS**: YAK [239], S-FE [76, 114, 203, 212]

— **sciuroides** (Hedw.) Schwägr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [203, 207, 212, 364, 407], KLN [309], C [203, 207, 212], N-UR [150, 203, 207, 212, 415], S-UR [150, 203, 207, 212], SE [207], CAUC [55, 203, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 348, 356], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 203, 212], E-SIB [203, 212], YAK [239], S-FE [77, 114, 203, 212]

*Limprichtia* see *Scorpidium*

**Lindbergia** Kindb. [Leskeaceae]

— **brachyptera** (Mitt.) Kindb. – **GEO** [117], **ARM** [297], **RUS-AS**: S-SIB [20, 69, 212], S-FE [178] — {118}

— **duthiei** (Broth.) Broth. – **RUS-AS**: S-FE [76]

— **grandiretis** (Lindb. ex Broth.) Ignatov & Ignatova, comb. nov. – *Leskea grandiretis* Lindb. ex Broth., *Acta Soc. Sci. Fenn.* 19(12): 97. 1892 (*L. brachyptera* auct. Fl. Cauc. non (Mitt.) Kindb.) – **RUS-EUR**: CAUC [102, 250], **GEO** [117], **ARM** [297] — {118}

— **japonica** Cardot – **RUS-AS**: S-FE [268]

**Loeskeobryum** M.Fleisch. ex Broth. [Hylocomiaceae]

— **brevirostre** (Brid.) M.Fleisch. (*Hylocomium brevisrostre* (Brid.) Bruch et al., *Loeskeobryum cavifolium* M.Fleisch.) – **UKR**: C [66], K [66, 328], **RUS-EUR**: KLN [309], C [207], CAUC [14, 232], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: N-FE [140], S-FE [109]

**Loeskyppnum** H.K.G.Paul [Calliergonaceae]

— **badium** (Hartm.) H.K.G.Paul (*Drepanocladus badius* (Hartm.) G.Roth) – **LAT** [4], **EST** [237], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 212, 416], N-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [114, 212, 221]

— **wickesii** (Grout) Tuom. – **RUS-AS**: ARC-FE [40]

**Lyellia** R.Br. [Polytrichaceae]

— **aspera** (I.Hagen & C.E.O.Jensen) Frye – **RUS-AS**: ARC-ESIB [47], E-SIB [212, 398], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 94], S-FE [212, 221]

**Macromitrium** Brid. [Orthotrichaceae]

— **hymenostomum** Mont. – **RUS-AS**: S-FE [76, 212]

— **japonicum** Dozy & Molk. – **RUS-AS**: S-FE [76, 77, 114, 212]

**Mamillariella** Laz. [Leskeaceae]

— **geniculata** Laz. – **RUS-AS**: S-FE [76, 212]

**Meesia** Hedw. [Meesiaceae]

— **hexasticha** (Funck) Bruch – **LAT** [3], **BEL** [355], **RUS-AS**: YAK [239], ARC-FE [40]

- *longiseta* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 415], KLN [309], C [207], N-UR [150, 207], S-UR [150, 207], **GEO** [117], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [93, 212], W-SIB [212, 265], S-SIB [69, 70], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [40, 140], S-FE [76] — {119}
- *triquetra* (Jolycl.) Ångstr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], CAUC [54], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212]
- *uliginosa* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 114]

*Metaneckera* see *Neckera menziesii*

*Meteorium* (Brid.) Dozy & Molk. [Meteoriaceae]

- *buchananii* (Brid.) Broth. – **RUS-AS**: S-FE [278]

*Microbryum* Schimp. [Pottiaceae] — {120}

- *curvicollum* (Hedw.) R.H.Zander (*Phascum curvicollum* Hedw.) – **UKR**: M [66], **RUS-EUR**: KLN [309], SE [207, 212, 377], **TUR** [11, 296]
- *davallianum* (Sm.) R.H.Zander (*Pottia davalliana* (Sm.) C.E.O.Jensen, *Tortula angustifolia* Lindb. ex Broth.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: C [207, 345], **GEO** [117]
- *floerkeanum* (F.Weber & D.Mohr) Schimp. (*Phascum floerkeanum* F.Weber & D.Mohr) – **LTV** [244]
- *rectum* (With.) R.H.Zander (*Pottia recta* (With.) Mitt.) – CAUCASUS [341, 361]
- *starckeanum* (Hedw.) R.H.Zander (*Pottia starckeanum* (Hedw.) Müll.Hal.) – **UKR**: K [66, 328], **RUS-EUR**: KLN [408], **TUR** [296], **TAD** [295]
- *vlassovii* (Laz.) R.H.Zander – **ARM** [297], **AZE** [277], **KAZ** [295], **TUR** [267, 295, 296], **UZB** [267, 295, 296], **TAD** [294, 295], **KYR** [295, 296, 349, 351]

*Mielichhoferia* Nees & Hornsch. [Mielichhoferiaceae], see also *Bryum caucasicum* (= *M. himalayana*)

- *elongata* (Hoppe & Hornsch. ex Hook.) Hornsch. (*M. mielichhoferiana* var. *elongata* (Hoppe & Hornsch. ex Hook.) Wijk & Margad.) – **TAD** [296], **RUS-AS**: E-SIB [74, 212]
- *japonica* Besch. (*M. mielichhoferiana* var. *japonica* (Besch.) Wijk & Margad.) – **RUS-AS**: S-FE [77]
- *macrocarpa* (Hook.) Bruch & Schimp. – **TAD** [296], **RUS-AS**: S-SIB [69, 70], YAK [239]
- *mielichhoferiana* (Funck) Loeske – **RUS-EUR**: CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [294, 296], **RUS-AS**: S-SIB [69, 70], ARC-FE [40], N-FE [141], S-FE [111, 114, 212]

*Miyabea* Broth. [\*Leskeaceae]

- *fruticella* (Mitt.) Broth. – **RUS-AS**: S-FE [76]
- *rotundifolia* Cardot – **RUS-AS**: S-FE [76]

*Mniobryum* see *Pohlia*

*Mnium* Hedw. [Mniaceae], see also *Cyrtomnium*, *Plagiomnium*, *Pseudobryum*, *Rhizomnium*, *Trachycystis*

- *blytii* Bruch et al. – **RUS-EUR**: ARC [47, 150], NW [212, 273, 364], N-UR [150, 415], ?**KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [70], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40]
- *heterophyllum* (Hook.) Schwägr. – **RUS-EUR**: C [207, 345], CAUC [248], **GEO** [117], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: E-SIB [212, 247], S-FE [76, 77, 212]
- *hornum* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [87, 207, 364, 407], KLN [309], CAUC [55, 212], **GEO** [31], **AZE** [277], **KAZ** [159, 296, 356], **KYR** [296], **RUS-AS**: S-FE [77, 109] — {121}

- *laevinerve* Cardot – **TAD** [296], **KYR** [296], **RUS-AS**: E-SIB [212, 247], N-FE [140], S-FE [76, 77, 212] — {122}
- *lycopodioides* Schwägr. (*M. ambiguum* H.Müll., *M. magnirete* (Lindb. & Arnell) Kindb.) – **LTV** [244], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 381], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [296], **KYR** [296, 351], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 336], S-SIB [69, 70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212] — {122}
- *marginatum* (Dicks.) P.Beauv. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207, 273, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 247], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 109, 212]
- *spinosum* (Voit) Schwägr. – **UKR**: C [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [87, 273, 364, 407], NE [207, 212, 364, 415], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [36, 47, ?239], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [76, 212, 221]
- *spinulosum* Bruch et al. – **UKR**: C [66], **RUS-EUR**: NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [70, 212], E-SIB [212, 247], YAK [239], S-FE [76, 212, 221]
- *stellare* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **KYR** [296], **RUS-AS**: ARC-ESIB [93, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 247], ARC-YAK [239], YAK [239], N-FE [140], S-FE [76, 77, 212]
- *thomsonii* Schimp. – **UKR**: C [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150, 415], NW [364, 407], NE [207, 212, 415], N-UR [150, 207, 212, 415], S-UR [91], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **UZB** [347], **TAD** [294, 296], **KYR** [296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [264], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 141], S-FE [76, 77, 212]

**Molendoa** Lindb. [Pottiaceae]

- *hornschurchiana* (Hook.) Lindb. ex Limpr. – **UKR**: C [66, 413]
- *schliephackei* (Limpr. ex Schlieph.) R.H.Zander (*Anoectangium schliephackei* (Limpr. ex Schlieph.) Paris, *Pleuroweisia schliephackei* Limpr. ex Schlieph.) – **RUS-EUR**: CAUC [102, 250], **GEO** [117], **TAD** [295]
- *sendtneriana* (Bruch et al.) Limpr. – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], C [207, 345], N-UR [150, 207, 212, 415], S-UR [150, 207], CAUC [55, 102, 212], **AZE** [277], **TAD** [295], **KYR** [296], **RUS-AS**: ARC-ESIB [164], S-SIB [69, 70, 212], E-SIB [74, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40], S-FE [76, 212, 221]
- *sendtneriana* var. *transcaspica* Györfy – **KAZ** [105], **TUR** [296], **TAD** [295], **RUS-AS**: S-SIB [69]
- *seravschanica* Broth. ex Györfy – **TAD** [295], **RUS-AS**: ARC-WSIB [136]
- *tenuinervis* Limpr. – **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [39], E-SIB [50, 162], ARC-YAK [36, 239], YAK [239], ARC-FE [40], N-FE [40]

**Myrinia** Schimp. [\*Amblystegiaceae]

- *pulvinata* (Wahlenb.) Schimp. (*Pseudoleskea korjakorum* Laz.) – **LAT** [3], **EST** [237], **RUS-EUR**: ARC [47, 150], NW [207, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [90, 150, 207,

- 212], S-UR [150, 207, 212], **RUS-AS**: ARC-ESIB [275], W-SIB [212, 265], S-SIB [197, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [40], S-FE [114] — {123}
- *rotundifolia* (Arnell) Broth. (*Myuroclada rotundifolia* (Arnell) Abramova & I.I.Abramov) – **RUS-AS**: E-SIB [162], ARC-YAK [47, 239], YAK [239]
- Myurella* Bruch et al. [Plagiotheciaceae]
- *acuminata* Lindb. & Arnell – **RUS-AS**: E-SIB [162, 218, 275, 388], YAK [212, 239]
- *julacea* (Schwägr.) Bruch et al. – **LAT** [3], **EST** [237], **UKR**: C [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [212, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [294, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [114, 212, 221]
- *sibirica* (Müll.Hal.) Reimers – **RUS-EUR**: ARC [47, 150], N-UR [150, 207, 415], S-UR [150], CAUC [249], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 162, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [140], S-FE [76, 212, 221]
- *tenerrima* (Brid.) Lindb. – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [87, 212, 364, 407], N-UR [150, 207, 212, 415], CAUC [14], **GEO** [13], **AZE** [277], **KAZ** [296, 356], **TUR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140] — {124}
- Myuroclada* Besch. [Brachytheciaceae], see also *Myrinia rotundifolia*
- *maximowiczii* (G.G.Borshch.) Steere & W.B.Schofield – **RUS-EUR**: SE [207, 404], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 198, 212], E-SIB [69, 212, 275], YAK [212, 239], N-FE [94, 140], S-FE [76, 77, 109, 212] — {125}
- Neckera* Hedw. [Neckeraceae]
- *besseri* (Lobarz.) Jur. (*Homalia besseri* Lobarz.) – **UKR**: C [66], M [66, 148], K [66, 328], **MLD** [367], **RUS-EUR**: NW [407], N-UR [150, 207, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **RUS-AS**: S-SIB [70, 212]
- *borealis* Nog. – **RUS-AS**: S-SIB [69, 70, 212], E-SIB [74, 212, 247], S-FE [76, 77, 109, 212]
- *complanata* (Hedw.) Huebener – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207, 364, 407], NE [53], KLN [309], C [207], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], ?**KAZ** [156, 159, 296]
- *crispa* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [407], KLN [309], C [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277]
- *menziesii* Drumm. (*Metaneckera menziesii* (Drumm.) Steere, *Neckera turgida* Jur.) – **UKR**: K [66, 328, 341], **GEO** [28, 117]
- *pennata* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47], YAK [212, 239], ARC-FE [40], N-FE [140], S-FE [76, 77, 212]
- *pennata* var. *tenera* Müll.Hal. (*N. oligocarpa* Bruch) – **RUS-EUR**: ARC [127, 150], NW [85, 212, 364, 407], NE [415], N-UR [150, 415], S-UR [150, 212], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [239], YAK [239], N-FE [94], S-FE [113, 212]
- *pumila* Hedw. – **UKR**: C [66], **RUS-EUR**: CAUC [55, 208, 212], **GEO** [117], **ARM** [297]
- *yezoana* Besch. – **RUS-AS**: S-FE [76, 77, 109, 212]
- ?*Neckeropsis nitidula* (Mitt.) M.Fleisch. – **RUS-AS**: S-FE [376] — {52}
- Niphotrichum* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra [Grimmiaceae]
- *barbuloides* (Cardot) Bednarek-Ochyra & Ochyra (*Racomitrium barbuloides* Cardot) – **RUS-AS**: N-FE [140]

- *canescens* (Hedw.) Bednarek-Ochyra & Ochyra (*Racomitrium canescens* (Hedw.) Brid.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [96, 212], S-SIB [69, 70, 202, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 212]
- *elongatum* (Frisvoll) Bednarek-Ochyra & Ochyra (*Racomitrium elongatum* Ehrh. ex Frisvoll) – **EST** [237], **UKR**: C [402], K [328, 402], **RUS-EUR**: KLN [309]
- *ericoides* (Brid.) Bednarek-Ochyra & Ochyra (*Racomitrium ericoides* (F. Weber ex Brid.) Brid.) – **LAT** [3], **EST** [237], **UKR** [66], **RUS-EUR**: ARC [47, 150], NW [364, 407], KLN [309], CAUC [102], **GEO** [117], **RUS-AS**: ARC-ESIB [50], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140]
- *japonicum* (Dozy & Molk.) Bednarek-Ochyra & Ochyra (*Racomitrium japonicum* Dozy & Molk.) – **RUS-AS**: S-FE [80, 114]
- *muticum* (Kindb.) Bednarek-Ochyra & Ochyra (*Racomitrium muticum* (Kindb.) Frisvoll) – **RUS-AS**: N-FE [140], S-FE [67]
- *panschii* (Müll.Hal.) Bednarek-Ochyra & Ochyra (*Racomitrium panschii* (Müll.Hal.) Kindb.) – **RUS-EUR**: ARC [47], **RUS-AS**: ARC-ESIB [164], S-SIB [202, 212], E-SIB [163], ARC-YAK [47, 239], YAK [117, 239], ARC-FE [40, 212], N-FE [140], S-FE [212, 221]

*Nyholmiella* see *Orthotrichum*

**Ochyraea** Vána [\*Amblystegiaceae]

- *alpestris* (Hedw.) Ignatov & Ignatova (*Hygrohypnum alpestre* (Hedw.) Loeske) – **RUS-EUR**: ARC [47, 138, 150], NW [138, 273, 364, 407], NE [207, 415], N-UR [150, 138, 415], S-UR [138, 150], CAUC [138], **KAZ** [296, 159], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [138, 164, 275], W-SIB [138], S-SIB [138], E-SIB [138], ARC-YAK [47, 138, 239], YAK [138, 239], ARC-FE [40, 138], N-FE [40]
- *cochlearifolia* (Venturi) Ignatov & Ignatova (*Hygrohypnum cochlearifolium* (Venturi) Broth.) – **RUS-EUR**: NW [138, 364], N-UR [138, 150, 207], CAUC [138], **RUS-AS**: ARC-WSIB [136], W-SIB [138], S-SIB [138], E-SIB [138], ARC-FE [40, 138], N-FE [138, 140], S-FE [138, 221]
- *duriuscula* (De Not.) Ignatov & Ignatova, comb. nov. – *Limnobium duriusculum* De Not., *Erbario Crittogamico Italiano* ser. 2, 204. 1869. (*Hygrohypnum duriusculum* (De Not.) D.W.Jamieson) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [138, 273, 364, 407], NE [138], N-UR [90, 138, 150, 415], S-UR [138, 150], CAUC [55, 138, 231, 248], **GEO** [117], **KAZ** [156, 159], **KYR** [296], **RUS-AS**: ARC-WSIB [136], S-SIB [69, 70, 138], E-SIB [138, 167, 275], YAK [138, 239], ARC-FE [40, 138], N-FE [138, 140], S-FE [76, 114, 138]
- *mollis* (Hedw.) Ignatov (*Hygrohypnum molle* (Hedw.) Loeske) – **LTV** [244], **UKR**: C [66], **RUS-EUR**: NW [87, 138, 364], **ARM** [297], **RUS-AS**: YAK [138, 239], ARC-FE [40, 138], N-FE [138, 221]
- *norvegica* (Bruch et al.) Ignatov & Ignatova (*Hygrohypnum norvegicum* (Bruch et al.) J.J.Amann) – **RUS-EUR**: NW [138, 364], N-UR [150, 415], **RUS-AS**: ARC-ESIB, S-SIB [138], E-SIB [138, 275], N-FE [138], S-FE [138, 221]
- *smithii* (Sw.) Ignatov & Ignatova (*Hygrohypnum smithii* (Sw.) Broth.) – **RUS-EUR**: NW [87, 100, 138, 364], CAUC [138], **GEO** [15], **ARM** [297], **TAD** [296], **RUS-AS**: S-FE [67]

**Oedipodium** Schwägr. [Oedipodiaceae]

- *griffithianum* (Dicks.) Schwägr. – **RUS-AS**: S-FE [209]

**Okamuraea** Broth. [Brachytheciaceae]

- *brachydictyon* (Cardot) Nog. – **RUS-AS**: S-FE [76, 77, 212]
- *hakoniensis* (Mitt.) Broth. – **RUS-AS**: S-FE [76, 109, 212]

**Oligotrichum** DC. [Polytrichaceae]

- *aligerum* Mitt. – **RUS-AS**: N-FE [140], S-FE [76, 77, 114]
- *falcatum* Steere – **RUS-AS**: S-SIB [238], ARC-YAK [47, 212, 238, 239], YAK [238, 239], ARC-FE [40, 238], N-FE [238], S-FE [212, 238]

- *hercynicum* (Hedw.) Lam. & DC. – **UKR:** C [66], **RUS-EUR:** ARC [47, 127, 150, 238], NW [212, 238, 273, 291, 364], NE [417a], C [207, 238], N-UR [150, 207, 212, 238], S-UR [150], CAUC [55, 212, 231, 238, 248], **GEO** [117], **RUS-AS:** ARC-ESIB [47], S-SIB [212, 238], E-SIB [126, 212], ARC-FE [40], N-FE [140, 238], S-FE [77, 212]
- *parallellum* (Mitt.) Kindb. – **RUS-AS:** N-FE [94, 140], S-FE [76, 114, 212]
- Oncophorus** (Brid.) Brid. [Rhabdoweisiaceae]
- *compactus* (Bruch et al.) Kindb. (*O. wahlenbergii* var. *compactus* (Bruch et al.) Braithw.) – **RUS-EUR:** ARC [47, 150], NW [212, 273, 364, 407], N-UR [150], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [39, 164], E-SIB [126, 212, 386], ARC-YAK [47], YAK [239], ARC-FE [40, 212], N-FE [40, 140]
- *crispifolius* (Mitt.) Lindb. – ?**KAZ** [296, 356], **RUS-AS:** N-FE [140], S-FE [76, 109, 212] — {61}
- *virens* (Hedw.) Brid. – **UKR:** C [66], **RUS-EUR:** ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156], **TAD** [294, 295], **KYR** [296, 351], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212]
- *wahlenbergii* Brid. – **LAT** [3], **EST** [237], **UKR:** C [66], **RUS-EUR:** ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207], N-UR [90, 150, 207, 212], S-UR [150, 207], **ARM** [297], **KAZ** [156, 296, 356], **KYR** [296, 351], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- Oreas** Brid. [Rhabdoweisiaceae]
- *martiana* (Hoppe & Hornsch.) Brid. – **RUS-EUR:** CAUC [102, 212, 248], **GEO** [102], **RUS-AS:** S-SIB [69, 70], ARC-FE [40]
- Orthodicranum* see *Dicranum*
- Orthodontium** Schwägr. [Orthodontiaceae]
- *lineare* Schwägr. (*O. australe* Hook.f. & Wilson) – **RUS-EUR:** KLN [309]
- Orthodontopsis** Ignatov & B.C.Tan [Orthodontiaceae]
- *bardunovii* Ignatov & B.C.Tan – **RUS-AS:** S-SIB [212, 220, 334]
- Orthothecium** Bruch et al. [Plagiotheciaceae]
- *chryseon* (Schwägr.) Bruch et al. – **RUS-EUR:** ARC [47, 150], NW [364, 407], N-UR [150, 415], **ARM** [297], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [47], S-SIB [69, 70, 212], E-SIB [74, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [114, 212, 221]
- *intricatum* (Hartm.) Bruch et al. – **UKR:** C [66], K [66, 328], **RUS-EUR:** ARC [47], NE [212, 415], N-UR [150, 207], S-UR [150, 207], CAUC [55, 208, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159], **TAD** [296], **KYR** [296], **RUS-AS:** ARC-WSIB [136], S-SIB [70, 212], YAK [239]
- *rufescens* (Dicks. ex Brid.) Bruch et al. – **UKR:** C [66], **RUS-EUR:** NW [407], ?NE [415], ?N-UR [415], CAUC [55, 212] — {126}
- *strictum* Lorentz – **RUS-EUR:** ARC [47], NW [364, 407], NE [207, 212, 415], N-UR [150, 207, 212, 415], S-UR [91], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94], S-FE [114]
- Orthotrichum** Hedw. [Orthotrichaceae]
- *affine* Brid. (*O. fastigiatum* Bruch ex Brid.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR:** NW [85, 207, 212], KLN [309], C [207, 212, 345], S-UR [150, 207], SE [207], CAUC [208, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 348], **TUR** [296], **TAD** [296], **RUS-AS:** ?N-FE [140] — {127}
- *alpestre* Hornsch. ex Bruch et al. – **UKR:** C [66], **RUS-EUR:** NW [212, 364, 407], S-UR [150, 207, 212], CAUC [231, 248], **GEO** [117], **ARM** [297], **KAZ** [157, 296, 356], **TAD** [294, 296], **KYR** [267, 296], **RUS-AS:** ARC-WSIB [136], S-SIB [70, 212, 214], E-SIB [275]
- *anomalum* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR:** ARC [47, 150, 415], NW [207, 364, 407], NE [207, 212, 415], KLN [309], C

- [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [267, 296, 351], **UZB** [267], **RUS-AS**: ARC-WSIB [136], S-SIB [69, 70, 212, 214], E-SIB [162], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [40], S-FE [114, 212, 268]
- *callistomum* Fisch.-Oost. ex Bruch et al. – **RUS-EUR**: CAUC [57, 212, 248]
- *consobrinum* Cardot – **RUS-AS**: S-FE [76, 212]
- *cupulatum* Brid. (*O. limprichtii* I.Hagen) – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [407], C [207, 212, 345], N-UR [90, 150, 207, 212], S-UR [150], SE [207], CAUC [212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [267, 296], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: S-SIB [212, 214]
- *cupulatum* var. *riparium* Huebener (*O. cupulatum* var. *nudum* (Dicks.) Braithw., *O. nudum* Dicks.) – **UKR**: M [66], K [66, 328], **RUS-EUR**: KLN [309], **TUR** [296]
- *dasytritium* Lewinsky – **RUS-AS**: S-SIB [214]
- *diaphanum* Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [261], KLN [309], SE [207], CAUC [212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KYR** [350],
- *furcatum* Otnyukova – **RUS-AS**: S-SIB [212, 321]
- *gymnostomum* Bruch ex Brid. – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66, 402], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 407], NE [207], C [207, 212], CAUC [55, 212, 231], **AZE** [277], **KAZ** [296, 356], **RUS-AS**: S-SIB [212, 395], YAK [239]
- *hallii* Sull. & Lesq. – **KAZ** [272]
- *holmenii* Lewinsky-Haapasaari – **KAZ** [272]
- *iwatsukii* Ignatov (*O. laevigatum* J.E.Zetterst. var. *japonicum* (Z.Iwats.) Lewinsky) – **KAZ** [155], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [212, 214], E-SIB [163], YAK [239] — {128}
- *laevigatum* J.E.Zetterst. – **RUS-EUR**: NE [415], **KAZ** [155, 160, 296, 356], **TAD** [294, 296], **RUS-AS**: ARC-ESIB [212], ARC-YAK [239], YAK [239], ARC-FE [40], N-FE [40] — {128}
- *lyellii* Hook. & Taylor – **LTV** [244], **LAT** [3], **EST** [396], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: KLN [309], CAUC [102, 208, 212, 231], **GEO** [117], **AZE** [277], **KAZ** [296, 356], **TAD** [296]
- *microcarpum* De Not. – **GEO** [117]
- *obtusifolium* Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [160, 348], **TUR** [296], **TAD** [293, 296], **KYR** [296], **RUS-AS**: W-SIB [212, 265, 275], S-SIB [212, 69, 70, 214], E-SIB [69, 212, 275], YAK [212, 239], ARC-FE [40], N-FE [140], S-FE [76, 77, 114, 212]
- *pallens* Bruch ex Brid. (*O. sibiricum* Gronvall) – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 391, 407], KLN [309], C [207, 212, 345], S-UR [91, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [356], **TUR** [296], **TAD** [294], **UZB** [267], **RUS-AS**: ARC-ESIB [164, 212, 275], S-SIB [212, 214, 275], E-SIB [212, 275], YAK [239], N-FE [40] — {129}
- *patens* Bruch ex Brid. – **LAT** [3], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: KLN [309], CAUC [208, 212], **ARM** [297], **AZE** [277], **KAZ** [348], **TAD** [294, 296], **KYR** [296]
- *pellucidum* Lindb. – **RUS-AS**: S-SIB [212, 214], N-FE [40]
- *pumilum* Sw. ex anon. (*O. fallax* Bruch ex Brid., *O. schimperi* Hammar, *O. philibertii* Venturi) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], KLN [309], C [207, 212, 345], S-UR [150, 207], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 348, 356], **TUR** [267, 296], **TAD** [293, 294, 296], **KYR** [267, 296, 351], **RUS-AS**: S-SIB [70, 212, 214]
- *pylaisii* Brid. – **RUS-EUR**: ARC [47], NW [85, 212, 261, 287, 364], **RUS-AS**: N-FE [140]
- *rogeri* Brid. – **GEO** [102], **AZE** [277], **RUS-AS**: S-SIB [212, 214]
- *rupestre* Schleich. ex Schwägr. – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**:

- NW [364, 407], S-UR [150, 207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70, 212, 214], S-FE [76]
- *rupestre* var. *sturmii* (Hornsch.) Jur. — **TAD** [296], **KYR** [267, 296]
- *scanicum* Gronvall — **UKR**: M [66], **RUS-EUR**: CAUC [231], **RUS-AS**: E-SIB [212, 247]
- *sordidum* Sull. & Lesq. (*O. caucasicum* Venturi) — **RUS-EUR**: CAUC [55, 57, 102, 212, 231, 248], **ARM** [297], **KYR** [296], **RUS-AS**: S-SIB [212, 214], E-SIB [212, 247], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 212]
- *speciosum* Nees (*O. killisii* Müll.Hal., *O. elegans* Schwägr. ex Hook. & Grev.) — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356, 348], **TUR** [296], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212, 214], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 268, 221]
- *sprucei* Mont. — **KAZ** [175]
- *stellatum* Brid. — excluded — {130}
- *stramineum* Hornsch. ex Brid. — **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: KLN [309], CAUC [55, 208, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157]
- *striatum* Hedw. — **LTV** [244], **LAT** [3], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: KLN [309], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [348], **TUR** [296], **KYR** [296], **RUS-AS**: S-SIB [212, 214], S-FE [110, 212, 221]
- *tenellum* Bruch ex Brid. (*O. australe* Jur.) — **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **ARM** [297], **KAZ** [348, 393], **TAD** [296], **KYR** [296], **UZB** [267]
- *urnaceum* Müll.Hal. — **ARM** [102, 297], **AZE** [277]
- *urnigerum* Myrin — **RUS-EUR**: NW [407], CAUC [102, 231], **AZE** [277], **KYR** [267], **RUS-AS**: ARC-FE [40]
- *vicarium* Laz. — **KYR** [267, 271, 296]
- *vladikavkanum* Venturi — **RUS-EUR**: CAUC [55, 57, 212, 248], **RUS-AS**: S-SIB [212, 214]
- Oxyrrhynchium** (Bruch et al.) Warnst. [Brachytheciaceae]
- *hians* (Hedw.) Loeske (*Eurhynchium hians* (Hedw.) Sande Lac.) — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 291], NE [207, 416], KLN [309], C [207, 212], N-UR [207], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156], **TAD** [296], **KYR** [267, 296], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 198, 212], E-SIB [212, 275], ARC-YAK [47], YAK [239], N-FE [140], S-FE [76, 77, 109, 212] — {131}
- *pumilum* (Wilson) Loeske (*Eurhynchium pumilum* (Wilson) Schimp., *Rhynchostegiella pumila* (Wilson) E.F.Warb.) — **RUS-EUR**: CAUC [208], **AZE** [277]
- *savatieri* (Schimp. ex Besch.) Broth. — **RUS-AS**: S-FE [178]
- *schleicheri* (R.Hedw.) Röhl (*Eurhynchium schleicheri* (R.Hedw.) Milde) — **LTV** [244], **LAT** [3], **UKR**: K [66, 328], **MLD** [21], **RUS-EUR**: KLN [309], CAUC [208, 212], **ARM** [297], **AZE** [277], ?**KAZ** [70, 296], ?**RUS-AS**: S-FE [76, 268] — {132}
- *speciosum* (Brid.) Warnst. (*Eurhynchium speciosum* (Brid.) Jur.) — **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: KLN [309], S-UR [207], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [9, 296], **UZB** [347], **KYR** [296] — {133}
- Oxystegus** (Lindb. ex Limpr.) Hilp. [Pottiaceae]
- *tenuirostris* (Hook. & Taylor) A.J.E.Sm. (*Trichostomum tenuirostre* (Hook. & Taylor) Lindb.) — **LAT** [3], **EST** [397], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 212, 364, 407], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157, 296], **TAD** [294, 295], **KYR** [296], **RUS-AS**: ARC-ESIB [96, 212], S-SIB [69, 70, 212], E-SIB [212, 386], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]



**Palamocladium** Müll.Hal. [Brachytheciaceae]

- *euchloron* (Müll.Hal.) Wijk & Margad. – **UKR:** K [66, 328], **RUS-EUR:** ?SE [207], **CAUC** [55, 208, 212, 232, 250], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [9, 296]

**Paludella** Brid. [Meesiaceae]

- *squarrosa* (Hedw.) Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** M [66], **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], **CAUC** [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 303, 356], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [67, 212]

**Palustriella** Ochyra [Amblystegiaceae]

- *commutata* (Hedw.) Ochyra (*Cratoneuron commutatum* (Hedw.) G.Roth) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], K [66, 328], **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [366a], KLN [309], C [207, 212, 345], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], **CAUC** [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [267, 296], **UZB** [267], **TAD** [294, 296], **KYR** [267, 296, 351], **RUS-AS:** W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 247], YAK [212], N-FE [40, 140], S-FE [37, 212]
- *decipiens* (De Not.) Ochyra (*Cratoneuron decipiens* (De Not.) Loeske) – **LAT** [5], **EST** [237], **BEL** [355], **UKR:** C [66], **RUS-EUR:** NW [207, 212, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 415], S-UR [150, 207, 212], **CAUC** [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS:** S-SIB [69, 70, 212], E-SIB [212, 247], YAK [212], S-FE [114]
- *falcata* (Brid.) Hedenäs (*Cratoneuron falcatum* (Brid.) G.Roth, *P. commutata* var. *falcata* (Brid.) Ochyra) – **LAT** [1], **EST** [237], **UKR:** [66], C [269], **RUS-EUR:** NW [87, 212, 364, 407], NE [414], **AZE** [277], **TUR** [296], **TAD** [296], **KYR** [296], **RUS-AS:** S-SIB [70] — {134}

**Paraleucobryum** (Limpr.) Loeske [Dicranaceae]

- *enerve* (Thed.) Loeske – **UKR:** C [66], **RUS-EUR:** ARC [47, 150], NW [87, 212, 364], N-UR [150, 415], **CAUC** [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [296], **RUS-AS:** S-SIB [69, 70, 212], E-SIB [212, 247], ARC-FE [40], N-FE [140], S-FE [76, 212]
- *longifolium* (Hedw.) Loeske – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [212, 415], KLN [309], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], **CAUC** [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [296], **RUS-AS:** S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *sauteri* (Bruch et al.) Loeske (*P. longifolium* var. *sauteri* (Bruch et al.) C.E.O.Jensen) – **UKR:** C [66], **RUS-EUR:** NW [407], **CAUC** [231], **GEO** [102, 117]

**Pelekium** Mitt. [Thuidiaceae]

- *minutulum* (Hedw.) Touw (*Cyrto-hypnum minutulum* (Hedw.) W.R.Buck & H.A.Crum, *Microthuidium minutulum* (Hedw.) Warnst.) – **LTV** [244], **EST** [237], **BEL** [355], **UKR:** M [66, 148], **RUS-EUR:** NW [207], NE [207], C [207, 345], S-UR [91, 150, 207], **GEO** [117]
- *pygmaeum* (Bruch et al.) Touw (*Cyrto-hypnum pygmaeum* (Bruch et al.) W.R.Buck & H.A.Crum) – **RUS-AS:** S-FE [76, 77, 212]
- *versicolor* (Müll.Hal.) Touw (*Thuidium bipinnatum* Mitt., *Cyrto-hypnum sparsifolium* (Mitt.) W.R.Buck & H.A.Crum) – **RUS-AS:** S-FE [76, 212]

*Phascum* see *Tortula*, *Microbryum***Philonotis** Brid. [Bartramiaceae]

- *arnellii* Husn. (*P. capillariss* Lindb.) – **LAT** [3], **UKR:** C [66], **RUS-EUR:** ARC [47, 150, 415], NW [251, 407], NE [415], N-UR [150], **RUS-AS:** YAK [239], ARC-FE [40]
- *caespitosa* Jur. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], **RUS-EUR:** ARC [47, 150], NW [207, 273, 364, 407], NE [207, 212, 415], KLN [309], C [207], N-UR [90, 150], S-UR [152, 207], SE [207], **CAUC** [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23], **TAD** [296], **KYR** [294, 296, 351], **RUS-AS:** ARC-ESIB [47], S-SIB [212, 336], E-SIB [212, 386], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140]

- *calcareea* (Bruch et al.) Schimp. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 364, 407], NE [207, 415], KLN [309], C [207], N-UR [150], S-UR [212, 422], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 157, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [267, 296], **UZB** [267], **RUS-AS**: S-SIB [197, 212]
  - *falcata* (Hook.) Mitt. – **KYR** [253], **RUS-AS**: S-SIB [426] — {135}
  - *fontana* (Hedw.) Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [26, 296], **KYR** [296], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
  - *marchica* (Hedw.) Brid. – **LTV** [244], **LAT** [3], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NE [415], KLN [309], C [207, 212], CAUC [231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356, 393], **UZB** [347], **TAD** [294, 296], **KYR** [296, 349, 351], **RUS-AS**: S-FE [268]
  - *mollis* (Dozy & Molk.) Mitt. – excluded — {135}
  - *rigida* Brid. – **GEO** [14, 117]
  - *seriata* Mitt. – **LAT** [3], **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [212, 273, 364, 407], NE [415], N-UR [150, 207], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157, 296, 356], **UZB** [347], **TAD** [294, 296], **KYR** [296], **RUS-AS**: S-SIB [70, 212], E-SIB [212, 275] — {136}
  - *tomentella* Molendo (*P. fontana* var. *pumila* (Turner) Brid.) – **LAT** [3], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [212, 415], N-UR [150], S-UR [150], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [157], **UZB** [347], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [147, 212], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140]
  - *yezoana* Besch. & Cardot – **RUS-AS**: N-FE [129, 140], S-FE [67, 114] — {136}
- Physcomitrella** Bruch et al. [Funariaceae]
- *patens* (Hedw.) Bruch et al. (*Aphanorrhagma patens* (Hedw.) Lindb., *Physcomitrium patens* (Hedw.) Mitt.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: NW [207, 262], NE [207], C [207, 212, 345], S-UR [91, 150, 207, 212], SE [207], CAUC [232], **RUS-AS**: W-SIB [265], S-SIB [197], E-SIB [275], YAK [239]
- Physcomitrium** (Brid.) Brid. [Funariaceae]
- *arenicola* Laz. – **UKR**: M [66], **RUS-EUR**: C [207, 345], SE [207], CAUC [226]
  - *eurystomum* Sendtn. – **LTV** [244], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: NW [262], ?S-UR [150], **AZE** [277], **KAZ** [156, 157], **UZB** [347], **KYR** [296, 351], **RUS-AS**: W-SIB [265], S-SIB [69], E-SIB [275], S-FE [76, 212]
  - *eurystomum* subsp. *acuminatum* (Bruch et al.) Giacom. (*P. acuminatum* Bruch et al.) – **UKR**: C [66], M [66], **RUS-EUR**: CAUC [18, 55], **GEO** [117], **AZE** [277], **RUS-AS**: S-FE [76]
  - *pyriforme* (Hedw.) Hampe – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: NW [207, 283], KLN [309], C [207, 212], S-UR [150, 207], SE [207], CAUC [231], **GEO** [117], **ARM** [297], **AZE** [277], **UZB** [347], **TAD** [296], **KYR** [296], **RUS-AS**: S-SIB [69, 70]
  - *sphaericum* (C.F.Ludw. ex Schkuhr) Brid. – **BEL** [355], **UKR**: M [66], **RUS-EUR**: NW [407, 262], C [207, 212], **GEO** [117], **AZE** [277], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [70], S-FE [275]
- Plagiobryum** Lindb. [Bryaceae], see also *Bryum* — {23}
- *demissum* (Hook.) Lindb. (*Bryum demissum* Hook.) – **RUS-EUR**: NW [364], CAUC [55], **GEO** [13, 117], **KAZ** [157], **RUS-AS**: ARC-ESIB [212], S-SIB [69, 70, 197], ARC-YAK [47, 239], ARC-FE [40, 212], N-FE [40]
  - *hultenii* (Ochi & Perss.) Hedd. (*P. demissum* subsp. *hultenii* Ochi & Perss.) – **RUS-AS**: S-FE [77]
  - *japonicum* Nog. – **RUS-AS**: S-FE [212, 221]
  - *zierii* (Hedw.) Lindb. (*Bryum zieri* Hedw.) – **UKR**: C [66], **RUS-EUR**: ARC [47], NW [364, 407],

CAUC [55, 212, 231], **GEO** [117], **KAZ** [156, 157], **TAD** [296], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212]

**Plagiomnium** T.J.Kop. [Mniaceae]

- **acutum** (Lindb.) T.J.Kop. – **RUS-AS**: S-SIB [69, 70], **YAK** [239], **N-FE** [140], **S-FE** [76, 77, 109, 212]
- **affine** (Blandow ex Funck) T.J.Kop. – **LTV** [244], **LAT** [3, 252], **EST** [237, 252], **BEL** [355], **UKR**: C [66, 252], M [66, 252], K [66, 252, 328], **MLD** [252, 367], **RUS-EUR**: ARC [47, 150, 415], NW [207, 252, 407], NE [207, 212, 415], **KLN** [309], C [207, 212, 252], **N-UR** [150, 207, 415], **S-UR** [150, 207, 212, 252], **SE** [207], **CAUC** [55, 208, 212, 231, 248, 252], **GEO** [117, 252], **ARM** [297], **AZE** [252, 277], **KAZ** [156, 159, 296, 356], **KYR** [296] — {137}
- **confertidens** (Lindb. & Arnell) T.J.Kop. – **RUS-EUR**: ARC [150], NW [47], NE [212, 415], C [211], **N-UR** [90, 150, 207, 212], **S-UR** [150, 207, 212], **KAZ** [296, 356], **RUS-AS**: W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], **YAK** [239], **S-FE** [76, 114, 212, 221]
- **curvatulum** (Lindb.) Schljakov (*P. medium* subsp. *curvatulum* (Lindb.) T.J.Kop.) – **RUS-EUR**: ARC [47, 127, 150], NW [85, 212, 291, 364], NE [366a], **N-UR** [150, 212, 417], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [252], E-SIB [126, 212], ARC-YAK [47, 212, 239], **YAK** [239, 252], ARC-FE [40, 212], **N-FE** [94, 140], **S-FE** [252]
- **cuspidatum** (Hedw.) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 364, 407], NE [207, 212, 415], **KLN** [309], C [207, 212], **N-UR** [150, 207, 212], **S-UR** [150, 207, 212], **SE** [207, 212], **CAUC** [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **KYR** [296], **RUS-AS**: ARC-WSIB [?47]; ARC-ESIB [?47]; W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47], **YAK** [239], ARC-FE [40], **N-FE** [94, 140], **S-FE** [76, 77, 109, 212]
- **drummondii** (Bruch & Schimp.) T.J.Kop. – **LAT** [3], **RUS-EUR**: NW [207, 212, 407], NE [207, 212, 415], C [207, 212], **N-UR** [150, 207], **S-UR** [150, 207], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], **YAK** [239], **N-FE** [140], **S-FE** [76, 114, 212, 221]
- **elatum** (Bruch et al.) T.J.Kop. – **LTV** [244], **LAT** [3, 252], **EST** [237, 252], **BEL** [252, 355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: ARC [47, 150], NW [207, 212, 252, 364, 407], NE [207, 212, 252, 415], **KLN** [309], C [207, 212, 252], **N-UR** [150], **S-UR** [150, 207, 212], **SE** [207], **CAUC** [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296] — {137}
- **ellipticum** (Brid.) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], **KLN** [309], C [207, 212], **N-UR** [150, 207, 212], **S-UR** [150, 207, 212], **SE** [207, 212], **CAUC** [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212], **YAK** [212, 239], ARC-FE [40, 212], **N-FE** [94, 140], **S-FE** [76, 77, 109, 212]
- **japonicum** (Lindb.) T.J.Kop. – **RUS-AS**: S-FE [37, 75, 212]
- **maximowiczii** (Lindb.) T.J.Kop. – **RUS-AS**: E-SIB [212, 247], **S-FE** [76, 212, 221]
- **medium** (Bruch et al.) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], **KLN** [309], C [207, 212], **N-UR** [150, 207, 212], **S-UR** [150, 207, 212], **SE** [207, 212], **CAUC** [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 160, 296], **UZB** [347], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-ESIB [212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], **YAK** [239], ARC-FE [40], **N-FE** [94, 140], **S-FE** [76, 77, 109, 212]
- **rostratum** (Schrad.) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 407], NE [207, 212, 415], **KLN** [309], C [207, 212], **N-UR** [150, 207, 212], **S-UR** [150, 207, 212], **CAUC** [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 160], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 247], ARC-YAK [47, 239], **YAK** [239], **N-FE** [140], **S-FE** [76, 109, 212] — {138}
- **undulatum** (Hedw.) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K

- [66, 328], **MLD** [367], **RUS-EUR**: NW [207], KLN [309], C [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277] — {139}
- *vesicatum* (Besch.) T.J.Kop. — **RUS-AS**: E-SIB [212, 247], S-FE [76, 77, 212]
- Plagiopus** Brid. [Bartramiaceae]
- *oederianus* (Sw.) H.A.Crum & L.E.Anderson (*P. oederi* (Brid.) Limpr.) — **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [212, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156], **TAD** [296], **KYR** [296, 349, 351], **RUS-AS**: ARC-ESIB [164], W-SIB [338], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 212]
- Plagiothecium** Bruch et al. [Plagiotheciaceae]
- *bergrenianum* Frisvoll — **RUS-EUR**: ARC [47, 42], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [39, 164, 212], E-SIB [163], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [40] — {140}
- *cavifolium* (Brid.) Z.Iwats. (*P. roeseanum* Bruch et al.) — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [147, 212], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *?cordifolium* Laz. — **RUS-AS**: S-FE [268, 76] — {141}
- *curvifolium* Schlieph. ex Limpr. (*P. laetum* var. *curvifolium* (Limpr.) Mastracci & M.Sauer) — **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [207, 364, 407], NE [212, 415], C [207, 212, 345], N-UR [415], S-UR [91], **RUS-AS**: S-FE [76, 77, 212] — {142}
- *denticulatum* (Hedw.) Bruch et al. — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212]
- *denticulatum* var. *obtusifolium* (Turner) Moore — **UKR** [66], **RUS-EUR**: NW [364]
- *denticulatum* var. *undulatum* R.Ruthe ex Geh. (*P. denticulatum* var. *ruthei* (Limpr.) Riehm., *P. ruthei* Limpr.) — **LTV** [244], **LAT** [3], **EST** [237], **UKR** [66], **RUS-EUR**: NE [415], C [345], KLN [309], C [207, 212]
- *euryphyllum* (Cardot & Thér.) Z.Iwats. — **RUS-AS**: N-FE [140], S-FE [114]
- *laetum* Bruch et al. — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [156, 159, 296, 356], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212]
- *latebricola* Bruch et al. — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66, 405], **RUS-EUR**: NW [207, 212, 407], NE [90, 207, 212], KLN [309], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], **GEO** [117], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [200, 212], N-FE [140], S-FE [76, 77, 109, 212]
- *neckeroidium* Bruch et al. — **UKR**: C [66], **RUS-AS**: S-SIB [70] — {143}
- *nemorale* (Mitt.) A.Jaeger — **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: ?ARC [150], NW [212, 291, 292], NE [212, 415], KLN [309], C [207, 212, 345], N-UR [150], S-UR [150], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: N-FE [140], S-FE [76, 77, 109, 212]
- *obtusissimum* Broth. — **RUS-AS**: S-FE [76, 77, 109, 212]

- *piliferum* (Sw.) Bruch et al. – **UKR**: C [66], **RUS-EUR**: ARC [150], NW [207, 212, 364, 407], N-UR [150, 415], **RUS-AS**: S-SIB [69], E-SIB [69], YAK [389], S-FE [76, 109] — {144}
- *?platycladum* (Cardot) Broth. – **RUS-AS**: S-FE [268] — {141}
- *platyphyllum* Mönk. – **UKR**: M [400], **GEO** [117], **RUS-EUR**: NW [407], **?RUS-AS**: N-FE [140]
- *?succulentum* (Wilson) Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: NW [62, 364], NE [212, 415], C [207, 212], N-UR [212, 415]; S-UR [207, 212], **GEO** [117], **RUS-AS**: S-SIB [69, 70], E-SIB [212, 247], S-FE [76, 212] — {145}
- *svalbardense* Frisvoll – **RUS-AS**: ARC-FE [40]
- *undulatum* (Hedw.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: KLN [309], **AZE** [277], **RUS-AS**: ARC-FE [40]
- Plasteurhynchium* M.Fleisch. ex Broth. [Brachytheciaceae]
- *meridionale* (Bruch et al.) M.Fleisch. (*Eurhynchium meridionale* (Bruch et al.) De Not.) – **UKR**: M, K [328], **GEO** [117]
- *striatulum* (Spruce) M.Fleisch. (*Eurhynchium striatulum* (Spruce) Bruch et al., *Isothecium filescens* (Brid.) Mönk.) – **UKR**: C [66], M [402], K [66, 328], **RUS-EUR**: NW [407], CAUC [208, 212, 248]
- Platydictya* Berk. [Plagiotheciaceae], see also *Bardunovia*, *Serpoleskea subtilis*, *S. confervoides*
- *jungermannioides* (Brid.) H.A.Crum (*Amblystegium jungermannioides* (Brid.) A.J.E.Sm.) – **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 212], SE [207, 212], CAUC [55, 102, 212, 231], **GEO** [117], **KAZ** [393], **TAD** [296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212, 275], E-SIB [74, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 212]
- Platygyrium* Bruch et al. [Pylaisiadelphaceae]
- *repens* (Brid.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: ARC [47, 150, 415], NW [207, 212, 407], NE [207], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207, 212], CAUC [208, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [74, 212], YAK [212, 239], N-FE [140], S-FE [76, 109, 212]
- Platyhypnidium* see *Rhynchostegium*
- Pleuridium* Rabenh. [Ditrichaceae], see also *Cleistocarpidium palustre*
- *acuminatum* Lindb. – **BEL** [355], **UKR**: C [66], M [66], K [66, 328] — {146}
- *subulatum* (Hedw.) Rabenh. (*P. alternifolium* auct. non (Dicks. ex Hedw.) Rabenh.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: NW [207, 407], NE [207], KLN [309], C [207, 212, 345], S-UR [150, 207], SE [207], CAUC [232], **GEO** [117], **AZE** [277], **RUS-AS**: W-SIB [339], N-FE [140], S-FE [268]
- Pleurochaete* Lindb. [Pottiaceae]
- *squarrosa* (Brid.) Lindb. – **UKR**: K [66, 328], **RUS-EUR**: CAUC [232, 6], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [295], **TUR** [267], **KYR** [296]
- Pleuroweisia* see *Molendoa*
- Pleuroziopsis* Kindb. ex E.Britton [Climaciaceae]
- *ruthenica* (Weinm.) Kindb. ex E.Britton – **RUS-AS**: N-FE [140], S-FE [76, 77, 109, 212]
- Pleurozium* Mitt. [Hylocomiaceae]
- *schreberi* (Brid.) Mitt. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TAD** [26, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- Podperaea* Z.Iwats. & Glime [\*Amblystegiaceae]
- *krylovii* (Podp.) Z.Iwats. & Glime – **RUS-AS**: S-SIB [69, 197, 212], S-FE [76, 110, 212, 221]
- Pogonatum* P.Beauv. [Polytrichaceae], see also *Polytrichastrum alpinum*

- *aloides* (Hedw.) P.Beauv. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: KLN [309], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277]
  - *contortum* (Brid.) Lesq. (*P. laterale* (Brid.) Brid.) – **RUS-AS**: N-FE [140], S-FE [76, 77, 109, 212]
  - *dentatum* (Brid.) Brid. (*P. capillare* (Michx.) Brid.) – **LAT** [3], **EST** [237], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 207], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 212, 219], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212] — {147}
  - *inflexum* (Lindb.) Sande Lac. – **RUS-AS**: S-FE [76, 77] — {148}
  - *japonicum* Sull. & Lesq. – **RUS-AS**: N-FE [140], S-FE [76, 77, 109, 212]
  - *nanum* (Hedw.) P.Beauv. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66, 256], M [66], K [66, 328], **RUS-EUR**: NW [207, 262], KLN [309], C [207], **GEO** [117]
  - *neesii* (Müll.Hal.) Dozy – **RUS-EUR**: CAUC [55, 56], **GEO** [56]
  - *spinulosum* Mitt. – **RUS-AS**: S-FE [76, 77, 212]
  - *urnigerum* (Hedw.) P.Beauv. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212, 219], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- Pohlia** Hedw. [Mielichhoferiaceae]
- *alba* Lindb. & Arnell – **RUS-AS**: W-SIB [?265], E-SIB [275]
  - *andalusica* (Höhn.) Broth. – **LAT** [132], **UKR**: M [66, 132], **RUS-EUR**: NW [100, 132, 207, 212, 291], NE [132, 207, 212], C [132, 207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], CAUC [231, 248], **RUS-AS**: ARC-WSIB [?47], W-SIB [132, 212], S-SIB [132], ARC-FE [40, 132], N-FE [94, 132, 140]
  - *andrewsii* A.J.Shaw – **RUS-EUR**: ARC [47, 127, 150], NW [132], NE [132, 207, 212, 416], N-UR [90, 150, 207, 212], S-UR [132, 207, 212, 150], CAUC [212, 248], **RUS-AS**: ARC-WSIB [132, 136], ARC-ESIB [132, 164, 212,], S-SIB [132, 212], E-SIB [132], ARC-YAK [47, 132, 239], YAK [132, 239], ARC-FE [40, 212, 132], N-FE [132, 140], S-FE [212, 221]
  - *annotina* (Hedw.) Lindb. – **LTV** [244], **BEL** [355], **UKR**: M [66], **RUS-EUR**: ARC [150], NW [207, 273, 364], NE [132, 207, 212, 415], KLN [309], C [132, 207, 212], N-UR [150], S-UR [150, 207, 212], **ARM** [297], **RUS-AS**: S-SIB [132, 212], E-SIB [212, 247], ARC-YAK [239], YAK [239], N-FE [94, 132, 140]
  - *atropurpurea* (Wahlenb.) H.Lindb. – **BEL** [355], **RUS-EUR**: ARC [47], NW [207, 364], NE [207], **RUS-AS**: ARC-WSIB [136], S-SIB [197, 212], E-SIB [126, 212]
  - *beringiensis* A.J.Shaw – **RUS-EUR**: ARC [42], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [39, 47, 132], S-SIB [132], E-SIB [132], ARC-FE [40, 132, 212], N-FE [40, 132]
  - *brevinervis* Lindb. & Arnell – **RUS-AS**: E-SIB [275]
  - *bulbifera* (Warnst.) Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: ARC [47, 127, 150], NW [132, 207, 212, 364, 407], NE [132, 207, 212], C [132, 207, 212], N-UR [90, 207], S-UR [150, 207, 212], **RUS-AS**: ARC-WSIB [132, 136], W-SIB [132, 212, 265], S-SIB [132, 212], E-SIB [132, 212], ARC-YAK [47, 212, 239], YAK [132, 212, 239], ARC-FE [40, 132, 212], N-FE [132, 140], S-FE [132]
  - *campotrachela* (Renauld & Cardot) Broth. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [401], M [132], **RUS-EUR**: NW [132, 207, 212, 407], C [132, 207, 212]
  - *cardotii* (Renauld & Cardot) Broth. – **RUS-AS**: N-FE [130, 140]
  - *cruda* (Hedw.) Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248],

- GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [296, 351], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 114, 212]
- *crudoides* (Sull. & Lesq.) Broth. – **RUS-EUR**: ARC [47, 127, 150, 415], NW [87, 364], N-UR [207], S-UR [150, 207, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]
- *drummondii* (Müll.Hal.) A.L.Andrews – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 132, 150], NW [132, 212, 273, 364, 283], NE [366a, 417a], N-UR [150, 207, 212, 415], CAUC [132, 231], **GEO** [117], **RUS-AS**: ARC-WSIB [132, 136], ARC-ESIB [132, 164, 212,], W-SIB [132, 212], S-SIB [69, 70, 132, 212], E-SIB [126, 212], ARC-YAK [47, 132, 239], YAK [212, 239], ARC-FE [40, 132, 212], N-FE [94, 132, 140], S-FE [132, 212, 221]
- *elongata* Hedw. – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], C [207, 345], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-ESIB [?47]; S-SIB [69, 70, 212], E-SIB [74, 212, 247], ARC-YAK [239], YAK [239], ARC-FE [40], S-FE [76, 212, 221]
- *elongata* var. *greenii* (Brid.) A.J.Shaw (*P. ambigua* (Limpr.) Broth., *P. minor* auct.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [364], NE [414], N-UR [150, 414], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], S-SIB [69, 70, 212], E-SIB [69], ARC-FE [40], S-FE [76, 212, 221]
- *filum* (Schimp.) Mårtensson – **LTV** [244], **LAT** [3], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 132, 150, 364], NW [132, 207, 273, 286, 364], NE [207, 212, 415], ?C [132], N-UR [150, 212, 415], CAUC [132, 212, 231, 248], **GEO** [117], **ARM** [297], ?**TAD** [296], **RUS-AS**: ARC-WSIB [132, 136], ARC-ESIB [132], W-SIB [132, 212], S-SIB [70, 212], E-SIB [132, 212], ARC-YAK [47, 239], YAK [132, 239], ARC-FE [40, 132, 212], N-FE [94, 132, 140]
- *lescuriana* (Sull.) Ochi (*P. pulchella* (Hedw.) Lindb.) – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150, 415], NW [207, 212, 364, 407], NE [415], KLN [309], C [207, 212], N-UR [90, 150, 207, 415], **RUS-AS**: ARC-ESIB [275], W-SIB [265], E-SIB [275], ARC-YAK [47, ?239], YAK [?239], ARC-FE [40], N-FE [40]
- *leucostoma* (Bosch & Sande Lac.) M.Fleisch. (*P. gracillima* (Cardot) Horik. & Ochi) -? **RUS-AS**: E-SIB [212, 247] — {149}
- *longicollis* (Hedw.) Lindb. – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [364], NE [212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [156, 159, 356], **KYR** [296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 247], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 212, 221]
- *ludwigii* (Spreng. ex Schwägr.) Broth. – **UKR**: C [66, 413], **RUS-EUR**: ARC [47], NW [87, 364], N-UR [150, 207, 415], S-UR [150], CAUC [212, 231], **GEO** [117]
- *melanodon* (Brid.) A.J.Shaw (*Mniobryum delicatulum* (Hedw.) Dixon) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], NE [207, 415], KLN [309], C [207, 212], N-UR [207], S-UR [150, 207], SE [207], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [296], **UZB** [347], **TAD** [296], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [70, 212], S-FE [77, 109]
- *nutans* (Hedw.) Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212]
- *nutans* subsp. *schimperii* (Müll.Hal.) Nyholm – **RUS-EUR**: ARC [47, 127], NW [364], **RUS-AS**: ARC-ESIB [50], ARC-FE [40]

- *obtusifolia* (Vill. ex Brid.) L.F.Koch – **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [87, 212, 364, 407], NE [415], N-UR [150, 415], CAUC [212, 231, 248], **GEO** [117], **RUS-AS**: ARC-ESIB [?47], S-SIB [70, 212], ARC-YAK [47], ARC-FE [40]
  - *proliger* (Kindb.) Lindb. ex Broth. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **RUS-EUR**: ARC [127, 132, 150], NW [132, 207, 212, 364, 407], NE [132, 207, 212, 415], C [132, 207, 212], N-UR [132, 150, 207, 212], S-UR [132, 150, 207], CAUC [55, 212, 231, 248], **GEO** [117], **RUS-AS**: ARC-WSIB [132, 136], ARC-ESIB [132, 164, 212], W-SIB [132, 212, 265], S-SIB [132, 212], E-SIB [132, 212], ARC-YAK [132, 212, 239], YAK [132, 239], ARC-FE [40, 132, 212], N-FE [94, 132, 140], S-FE [114, 132, 212, 221]
  - *saprophila* (Müll.Hal.) Broth. – **RUS-EUR**: ?NE [415], **KAZ** [157, 296, 356], **KYR** [296]
  - *sphagnicola* (Bruch et al.) Broth. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **RUS-EUR**: ARC [47, 127, 150], NE [415], KLN [309], N-UR [150, 415], S-UR [150], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [?47, 275], W-SIB [212, 265], S-SIB [212, 336], E-SIB [126, 212], ARC-FE [40], S-FE [109, 212]
  - *torrentium* (I.Hagen) Broth. – **RUS-EUR**: NW [364], **RUS-AS**: ARC-FE [40], N-FE [140] — {150}
  - *tundrae* A.J.Shaw – **RUS-AS**: ARC-WSIB [144], N-FE [140, 144]
  - *vexans* (Limpr.) H.Lindb. – **RUS-EUR**: NE [207], **RUS-AS**: S-SIB [197, 212], ARC-FE [40]
  - *viridis* Lindb. & Arnell – **RUS-AS**: E-SIB [275]
  - *wahlenbergii* (F.Weber & D.Mohr) A.L.Andrews (*Mniobryum wahlenbergii* (F.Weber & D.Mohr) Jenn., *M. wahlenbergii* var. *glacialis* (Brid.) Wijk & Margad., *Pohlia wahlenbergii* var. *glacialis* (Brid.) E.F.Warb.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [296], **UZB** [267], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212, 263], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, ?239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]
- Polytrichastrum** G.L.Sm. [Polytrichaceae]
- *alpinum* (Hedw.) G.L.Sm. (*Polytrichum alpinum* Hedw.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [295], **KYR** [351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [147, 212], S-SIB [69, 70, 212, 219], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
  - *alpinum* var. *fragile* (Bryhn) D.G.Long – **RUS-EUR**: ARC [47, 150, 414], NW [291, 364], NE [414], **KAZ** [159, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], E-SIB [126, 212, 386], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 94]
  - *alpinum* var. *septentrionale* (Sw.) G.L.Sm. (*P. norwegicum* (Hedw.) Schljakov) – **RUS-EUR**: ARC [47, 150], NW [273, 364], NE [414], N-UR [150], S-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [?47], S-SIB [70, 219, 324], ARC-YAK [47], YAK [239], ARC-FE [40], N-FE [94, 140]
  - *altaicum* Ignatov & G.L.Sm. – **RUS-AS**: S-SIB [219]
  - *formosum* (Hedw.) G.L.Sm. (*Polytrichum formosum* Hedw.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212], KLN [309], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KYR** [351], **RUS-AS**: W-SIB [265], S-SIB [70, 212, 219], E-SIB [212, 247], YAK [239], ARC-FE [40], N-FE [140], S-FE [212, 77, 109]
  - *longisetum* (Sw. ex Brid.) G.L.Sm. (*Polytrichum longisetum* Sw. ex Brid., *P. longisetum* var. *anomalum* (Milde) Ignatov & G.L.Sm.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [?47], W-



SIB [212, 265], S-SIB [69, 70, 212, 219], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]

- *pallidisetum* (Funck) G.L.Sm. (*Polytrichum formosum* var. *decipiens* (Limpr.) Loeske, *Polytrichum pallidisetum* Funck, *Polytrichum ochioense* auct. non Renauld & Cardot) – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 212, 262, 407], NE [207, 212], KLN [309], C [207, 212], N-UR [150, 207, 212, 415], S-UR [150, 207, 212], **GEO** [117], **RUS-AS**: S-SIB [70, 212, 219], E-SIB [212, 247], YAK [239], S-FE [76, 77, 109, 212]
- *sexangulare* (Flörke ex Brid.) G.L.Sm. (*Polytrichum sexangulare* Flörke ex Brid.) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [87, 273, 364], N-UR [150, 207, 212], S-UR [150], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **RUS-AS**: ARC-ESIB [212, 263], S-SIB [69, 70, 212, 219], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]
- *sphaerothecium* (Besch.) J.-P.Frahm (*Polytrichum sphaerothecium* (Besch.) Müll.Hal.) – **RUS-AS**: ARC-FE [43], N-FE [140], S-FE [77, 110, 415]

*Polytrichum* Hedw. [Polytrichaceae], see also *Polytrichastrum*

- *commune* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [295], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [247], W-SIB [212, 265], S-SIB [69, 70, 212, 219], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212] — {151}
- *hyperboreum* R.Br. – **RUS-EUR**: ARC [47, 127, 150], NW [87, 212, 262, 364, 407], NE [415], N-UR [150, 212, 415], S-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [212, 386], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140]
- *jensenii* I.Hagen – **RUS-EUR**: ARC [47, 127, 150], NW [212, 262, 364, 407], NE [414], N-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [77, 212]
- *juniperinum* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **UZB** [267], **TAD** [295], **KYR** [296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212, 219], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *piliferum* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **UZB** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212, 219], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 109, 212]
- *strictum* Brid. (*P. affine* Funck, *P. alpestre* Hoppe) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **AZE** [277], **KAZ** [296, 356], **TAD** [295], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212, 219], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *swartzii* Hartm. (*P. commune* var. *swartzii* (Hartm.) Nyholm) – **LAT** [1], **BEL** [355], **RUS-EUR**: ARC [47, 150], NW [207, 212, 262, 364, 407], NE [53, 101, 207], C [207, 212, 345], N-UR [150], S-UR [150], CAUC [248], **RUS-AS**: ARC-ESIB [212, 263], W-SIB [265], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [109, 212]

*Pottia* see *Tortula*, *Microbryum*, *Hennediella heimii*

*Pseudephemerum* (Lindb.) I.Hagen [Ditrichaceae]

— *nitidum* (Hedw.) Loeske – **LTV** [244], **LAT** [5], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 407], KLN [309], C [207, 212, 345], **RUS-AS**: W-SIB [146], S-SIB [336]

*Pseudobryum* (Kindb.) T.J.Kop. [Mniaceae]

— *cinclidioides* (Huebener) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [231, 248], **GEO** [117], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [77, 109, 212]

*Pseudocalliergon* (Limpr.) Loeske [Amblystegiaceae]

— *angustifolium* Hedenäs – **RUS-EUR**: NW [391], **RUS-AS**: YAK [239], N-FE [40]

— *brevifolium* (Lindb.) Hedenäs (*Drepanocladus brevifolius* (Lindb.) Warnst., *D. latifolius* (Lindb. & Arnell) Warnst.) – **RUS-EUR**: ARC [47, 150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40]

— *lycopodioides* (Brid.) Hedenäs (*Drepanocladus lycopodioides* (Brid.) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [364, 407], NE [101], KLN [309], C [207], N-UR [150, 415], CAUC [55, 212], **GEO** [117], **RUS-AS**: W-SIB [338]

— *trifarium* (F.Weber & D.Mohr) Loeske (*Calliergon trifarium* (F.Weber & D.Mohr) Kindb.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207], N-UR [90], S-UR [151], **ARM** [297], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [163], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 94, 275]

— *turgescens* (T.Jensen) Loeske (*Scorpidium turgescens* (T.Jensen) Loeske) – **LAT** [4], **EST** [237], **RUS-EUR**: ARC [47, 150], NW [85, 212], KLN [309], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 197], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 140]

*Pseudocrossidium* R.S.Williams [Pottiaceae]

— *hornschuchianum* (Schultz) R.H.Zander (*Barbula hornschuchiana* Schultz) – **LTV** [244], **EST** [237], **UKR**: C [66], M [66], K [328], **MLD** [367], **RUS-EUR**: KLN [309], SE [165, 207, 212], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [296], **TAD** [294, 295], **KYR** [296] — {152}

— *obtusulum* (Lindb.) H.A.Crum & L.E.Anderson – **RUS-EUR**: S-UR [165], SE [165, 366], **RUS-AS**: E-SIB [165], YAK [165]

— *revolutum* (Brid.) R.H.Zander (*Barbula revoluta* Brid.) – **EST** [397], **UKR**: M [66], K [66, 328], **MLD** [367], **GEO** [117], **TUR** [296], **TAD** [294, 295] — {152}

*Pseudohygrohypnum* Kanda [Pylaisiaceae]

— *eugyrium* (Bruch et al.) Kanda (*Hygrohypnum eugyrium* (Bruch et al.) Broth.) – **RUS-AS**: S-FE [138, 76]

— *subeugyrium* (Renauld & Cardot) Ignatov & Ignatova (*Hygrohypnum subeugyrium* (Renauld & Cardot) Broth.) – **RUS-EUR**: S-UR [138], **RUS-AS**: ARC-ESIB [164], S-SIB [138], E-SIB [138], YAK [138, 239], N-FE [138], S-FE [138, 221]

*Pseudoleskea* see *Lescuraea*

*Pseudoleskeella* Kindb. [Pseudoleskeellaceae]

— *catenulata* (Brid. ex Schrad.) Kindb. – **LTV** [244], **LAT** [5], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [364], C [207, 212, 345], N-UR [150, 207, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [156, 296, 356], **TAD** [294, 296], **KYR** [296, 267, 349, 351], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [212, 247], ARC-YAK [47], YAK [212, 239], ARC-FE [40, 212], N-FE [40], S-FE [76, 109, 212]

— *nervosa* (Brid.) Nyholm (*Leskeella nervosa* (Brid.) Loeske, *L. incrassata* (Lindb. ex Broth.) Broth.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM**

[297], **AZE** [277], **KAZ** [156, 296, 356], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212] — {153}

— *papillosa* (Lindb.) Kindb. (*Heterocladium papillosum* (Lindb.) Lindb.) – **RUS-EUR**: NW [85, 212, 364, 407], N-UR [150, 207, 212], S-UR [150, 207], **KYR** [267, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 212], E-SIB [70, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [212, 221]

— *rupestris* (Berggr.) Hedenäs & L.Söderstr. (*P. nervosa* var. *rupestris* (Berggr.) Nyholm, *P. sibirica* (Arnell) P.S.Wilson & D.H.Norris) – **UKR** [66], **RUS-EUR**: N-UR [432], S-UR [207], **KAZ** [156], **KYR** [351], **RUS-AS**: ARC-ESIB [164], S-SIB [70, 212], E-SIB [275, 388], ARC-YAK [47, 239], YAK [239]

— *tectorum* (Funck ex Brid.) Kindb. ex Broth. – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [150, 415], NW [212, 273, 364, 407], C [207, 212], N-UR [150, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 156, 296, 356], **TUR** [296], **TAD** [294, 296], **KYR** [267, 296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212, 221, 268]

*Pseudoleskeopsis* Broth. [Leskeaceae]

— *zippelii* (Dozy & Molk.) Broth. – **RUS-AS**: S-FE [268]

*Pseudoscleropodium* (Limpr.) M.Fleisch. [Brachytheciaceae]

— *purum* (Hedw.) M.Fleisch. ex Broth. (*Scleropodium purum* (Hedw.) Limpr.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ?ARC [415], NW [207], KLN [309], C [207, 212], SE [207], CAUC [208, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], ?**KAZ** [296]

*Pseudotaxiphyllum* Z.Iwats. [\*Plagiotheciaceae]

— *elegans* (Brid.) Z.Iwats. (*Isopterygium elegans* (Brid.) Lindb.) – **UKR**: C [66], M [66], **RUS-EUR**: NW [407], CAUC [55, 212], **GEO** [117], **RUS-AS**: ARC-FE [40, 212], N-FE [94, 140], S-FE [111, 212]

*Psilopilum* Brid. [Polytrichaceae]

— *cavifolium* (Wilson) I.Hagen – **RUS-EUR**: ARC [47, 150, 415], NW [364], NE [415], N-UR [150, 415], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], E-SIB [163], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94]

— *laevigatum* (Wahlenb.) Lindb. – **RUS-EUR**: ARC [47, 127, 150, 415], NW [364], N-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], E-SIB [74, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [140] — {154}

*Pterigynandrum* Hedw. [Pterigynandraceae]

— *filiforme* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], KLN [309], C [207, 212, 345], N-UR [90, 150, 207, 212, 415], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **KYR** [296], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [68, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 212]

*Pterogonium* Sw. [Pterogoniaceae]

— *gracile* (Hedw.) Sm. – **EST** [237], **UKR**: K [66, 328], **ARM** [297], **AZE** [277]

*Pterygoneurum* Jur. [Pottiaceae]

— *kozlovii* Laz. – **UKR**: M [66], **MLD** [367], **RUS-EUR**: SE [207], **KAZ** [337], **RUS-AS**: W-SIB [337], YAK [239, 337] — {155}

— *lamellatum* (Lindb.) Jur. – **UKR**: M [66], **RUS-EUR**: SE [207, 212, 377], **GEO** [102, 117], **AZE** [277], **TUR** [267, 296], **UZB** [267, 295], **TAD** [295], **RUS-AS**: ARC-ESIB [47], E-SIB [163], ARC-FE [40] — {156}

— *ovatum* (Hedw.) Dixon – **LTV** [244], **LAT** [3], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], C [207, 212, 345], S-UR [150, 207], SE [207, 212], CAUC [232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157, 296, 349], **TUR** [11, 295, 296], **UZB** [267, 295, 296], **TAD** [294, 295], **KYR** [296, 351], **RUS-AS**: ARC-ESIB [39, 50], W-SIB [337], S-SIB [197], E-SIB [162], YAK [239], ARC-FE [40, 212]

— *subsessile* (Brid.) Jur. – LTV [244], UKR: C [66], M [66], K [328], MLD [367], RUS-EUR: KLN [309], C [207, 345], S-UR [150, 207], SE [207, 212], CAUC [421], GEO [117], AZE [277], KAZ [296], TUR [295, 296], UZB [295], TAD [267, 295], KYR [296, 349, 351], RUS-AS: W-SIB [265], S-SIB [69, 70, 212], E-SIB [126, 212], YAK [239]

*Ptilium* De Not. [Pylaisiaceae]

— *crista-castrensis* (Hedw.) De Not. – LTV [244], LAT [3], EST [237], BEL [355], UKR: C [66], M [66], RUS-EUR: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], GEO [117], ARM [297], AZE [277], KAZ [156, 296, 356], TAD [26], KYR [296], RUS-AS: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]

*Ptychodium* see *Lescuraea*

*Ptychomitrium* Fűrnr. [Ptychomitriaceae]

— *incurvum* (Schwägr.) Spruce – GEO [117]

— *sinense* (Mitt.) A.Jaeger – RUS-AS: S-SIB [69, 70, 197], S-FE [76, 212]

*Pylaisia* Bruch et al. [Pylaisiaceae]

— *brotheri* Besch. – RUS-AS: S-FE [76, 77, 212]

— *curviramea* Dixon – RUS-AS: S-FE [64] — {157}

— *obtusa* Lindb. – RUS-AS: S-FE [109]

— *polyantha* (Hedw.) Bruch et al. (*Pylaisiella polyantha* (Hedw.) Grout) – LTV [244], LAT [3], EST [237], BEL [355], UKR: C [66], M [66], K [66, 328], MLD [367], RUS-EUR: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], GEO [117], ARM [297], AZE [277], KAZ [159, 296, 356], RUS-AS: W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 162, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]

— *selwynii* Kindb. (*Pylaisiella selwynii* (Kindb.) H.A.Crum, Steere & L.E.Anderson) – RUS-EUR: NW [207, 407], NE [90, 207, 212, 366a], C [207, 212], S-UR [150, 207, 212], RUS-AS: W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 247], YAK [239], N-FE [94, 140], S-FE [76, 77, 109, 212]

— *steerei* (Ando & Higuchi) Ignatov – RUS-AS: E-SIB [387], YAK [239]

— *stereodontoides* Broth. & M.Yasuda ex Iishiba (*P. intricata* auct. non (Hedw.) Bruch et al.) – RUS-AS: S-FE [76, 178, 212] — {158}

— *subcircinata* Cardot – RUS-AS: N-FE [140], S-FE [76, 77, 109, 212]

*Pylaisiadelpha* Cardot [Pylaisiadelphaceae]

— *tenuirostris* (Bruch & Schimp. ex Sull.) W.R.Buck – RUS-AS: S-SIB [69], E-SIB [212, 247], S-FE [76, 114, 212, 221] — {159}

*Pylaisiella* see *Pylaisia*

*Pyramidula* Brid. [Funariaceae]

— *tetragona* (Brid.) Brid. – UKR: M [66], RUS-EUR: C [207, 345], S-UR [150, 207], AZE [277], RUS-AS: S-SIB [69]

*Racomitrium* Brid. [Grimmiaceae], see also *Bucklandiella heterosticha*, etc., *Niphotrichum canescens*, etc., *Codriophorus fascicularis*, etc.

— *lanuginosum* (Hedw.) Brid. – LAT [3], EST [237], UKR: C [66], RUS-EUR: ARC [47, 127, 150], NW [207, 212, 364, 407], KLN [309], N-UR [150, 207, 212, 415], S-UR [150], CAUC [212, 248], AZE [277], RUS-AS: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 202, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]

*Rauvella* Reimers [Thuidiaceae]

— *fujisana* (Paris) Reimers – RUS-AS: N-FE [140], S-FE [76, 77, 109, 212]

*Rhabdoweisia* Bruch et al. [Rhabdoweisiaceae]

— *crispata* (Dicks. ex With.) Lindb. (*R. kusenevae* Broth.) – LAT [3], UKR: C [66], RUS-EUR: N-UR [150, 207, 212], S-UR [150, 207, 212], RUS-AS: S-SIB [69, 70, 212], E-SIB [69, 163, 212], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]

— *fugax* (Hedw.) Bruch et al. – **LAT** [3], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [87, 364, 407], N-UR [150], CAUC [55, 102, 212, 231], **GEO** [18, 117]

**Rhizomnium** (Broth.) T.J.Kop. [Mniaceae]

— *andrewsianum* (Steere) T.J.Kop. – **RUS-EUR**: ARC [47, 127, 150], NW [364], N-UR [150, 370, 415], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 197, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]

— *gracile* T.J.Kop. – **RUS-AS**: ARC-FE [40], N-FE [40, 140]

— *magnifolium* (Horik.) T.J.Kop. (*R. punctatum* var. *elatum* (Schimp.) T.J.Kop.) – **EST** [396], **UKR**: C [401], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], **GEO** [117], **RUS-AS**: S-SIB [70, 212], E-SIB [212, 247], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [77, 109, 212]

— *nudum* (E.Britton & R.S.Williams) T.J.Kop. – **RUS-AS**: E-SIB [212, 247], N-FE [94, 110, 140], S-FE [67]

— *parvulum* (Mitt.) T.J.Kop. – **RUS-AS**: S-FE [76, 212]

— *pseudopunctatum* (Bruch & Schimp.) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **KAZ** [159, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [96, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [109, 212, 221]

— *punctatum* (Hedw.) T.J.Kop. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [356], **RUS-AS**: ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ?ARC-YAK [47, 212], ?N-FE [140], ?S-FE [109, 212] — {160}

— *striatulum* (Mitt.) T.J.Kop. – **RUS-AS**: N-FE [140], S-FE [76, 77, 212]

— *tuomikoskii* T.J.Kop. – **RUS-AS**: N-FE [254]

**Rhodobryum** (Schimp.) Limpr. [Bryaceae]

— *ontariense* (Kindb.) Kindb. – **LAT** [3], **EST** [237], **UKR**: C [329], M [329], K [328], **RUS-EUR**: N-UR [91], S-UR [91, 207], CAUC [212, 248], **ARM** [297], **RUS-AS**: S-SIB [197, 212], S-FE [79, 212]

— *roseum* (Hedw.) Limpr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296], **KYR** [296], **RUS-AS**: W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], YAK [239], N-FE [94, 140], S-FE [109, 221] — {161}

**Rhynchostegiella** (Schimp.) Limpr. [Brachytheciaceae], see also *Oxyrrynchium pumilum* (= *Rhynchostegiella pallidirostris*)

— *curviseta* (Brid.) Limpr. – **RUS-EUR**: CAUC [232], **TAD** [294, 296]

— *tenella* (Dicks.) Limpr. – **UKR**: M [66], K [66, 328], **RUS-EUR**: CAUC [208, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 393]

— *teneriffae* (Mont.) Dirkse & Bouman (*R. jacquini* (Garov.) Limpr., *R. teesdalei* (Bruch et al.) Limpr.) – **RUS-EUR**: CAUC [208, 212, 232, 248], **GEO** [31, 102], **ARM** [297], **AZE** [277]

**Rhynchostegium** Bruch et al. [Brachytheciaceae]

— *arcticum* (I.Hagen) Ignatov & Huttunen (*R. murale* var. *arcticum* I.Hagen, *Scleropodiopsis laxiretis* Ignatov) – **RUS-EUR**: NE [415], C [207], N-UR [207], S-UR [207, 212], **RUS-AS**: S-SIB [198]

— *confertum* (Dicks.) Bruch et al. – **BEL** [355], **RUS-EUR**: CAUC [55, 212, 232], **GEO** [117], **AZE** [277], **RUS-AS**: ?S-FE [268] — {162}

— *megapolitanum* (Blandow ex F.Weber & D.Mohr) Bruch et al. – **UKR**: C [66], K [66, 328], **MLD** [367], **RUS-EUR**: KLN [309], CAUC [6, 232], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [296, 9]

— *murale* (Hedw.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K

- [66, 328], **MLD** [367], **RUS-EUR**: NW [63], KLN [309], C [207, 212, 345], NE [415], CAUC [55, 212, 232, 248], **AZE** [277]
- *pallidifolium* (Mitt.) A.Jaeger – **RUS-AS**: S-FE [178]
- *riparioides* (Hedw.) Cardot (*Platyhypnidium riparioides* (Hedw.) Dixon) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207, 364, 407], NE [207, 212, 366a], KLN [309], C [207, 345], N-UR [207, 416], S-UR [207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [267, 296], **KAZ** [156, 159], **UZB** [347], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70, 198, 212], E-SIB [69], YAK [239], S-FE [76, 77, 109, 212] — {163}
- *rotundifolium* (Scop. ex Brid.) Bruch et al. – **UKR**: C [66], **RUS-EUR**: S-UR [207, 212], SE [207], CAUC [55, 212, 232, 248], **GEO** [117], **AZE** [277], **RUS-AS**: S-FE [109]
- Rhytidiastrum* see *Rhytidiadelphus*
- Rhytidiadelphus* (Limpr.) Warnst. [Hylocomiaceae] — {164}
- *japonicus* (Reimers) T.J.Kop. – **RUS-AS**: S-FE [76, 77, 114, 212]
- *loreus* (Hedw.) Warnst. – **LTV** [244], **EST** [397], **UKR**: C [66, 413], **RUS-EUR**: KLN [309]
- *squarrosus* (Hedw.) Warnst. (*Rhytidiastrum squarrosus* (Hedw.) Ignatov & Ignatova) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **RUS-AS**: S-SIB [70, 212], ARC-FE [40], N-FE [140], S-FE [109]
- *subpinnatus* (Lindb.) T.J.Kop. (*R. squarrosus* var. *calvescens* (Kindb.) Warnst., *Rhytidiastrum subpinnatum* (Lindb.) Ignatov & Ignatova) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [248], **ARM** [297], **RUS-AS**: ARC-WSIB [247], ARC-ESIB [247], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [77, 109, 212]
- *triquetrus* (Hedw.) Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- Rhytidium* (Sull.) Kindb. [Rhytidiaceae]
- *rugosum* (Hedw.) Kindb. – **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [87, 212, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **KYR** [351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- Rigodiadelphus* Dixon [Pseudoleskeaceae]
- *robustus* (Lindb.) Nog. – **RUS-AS**: N-FE [140], S-FE [76, 77, 109, 212]
- Saelania* Lindb. [Ditrichaceae]
- *glaucescens* (Hedw.) Broth. – **LAT** [3], **EST** [237], **UKR**: C [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 102, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [104, 159], **KYR** [104, 296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 104, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- Sanionia* Loeske [Scorpidiaceae]
- *georgicouncinata* (Müll.Hal.) Ochyra & Hedenäs (*Sanionia nivalis* Hedenäs) – **RUS-EUR** NW [184], **RUS-AS**: ARC-ESIB [50, 39], ARC-YAK [47, 239]
- *orthothecioides* (Lindb.) Loeske – **RUS-EUR**: NW [84, 291], **RUS-AS**: ARC-ESIB [212, 263], ARC-FE [40]

- *uncinata* (Hedw.) Loeske (*Drepanocladus uncinatus* (Hedw.) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TAD** [26, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- Sarmentypnum* see *Warnstorfia* — {165}
- Sasaokaea* Broth. [Amblystegiaceae]
- *aomoriensis* (Paris) Kanda – **RUS-AS**: S-FE [178]
- Schistidium* Bruch et al. [Grimmiaceae]
- *agassizii* Sull. & Lesq. – **LAT** [3], **EST** [237], **RUS-EUR**: ARC [150, 415], NW [212, 273, 364, 407], NE [207, 212, 415], N-UR [150, 207, 415], S-UR [150, 207], CAUC [55, 212, 231, 248], **KAZ** [159, 296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [70, 197, 202, 212], E-SIB [74, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 212, 221]
- *andreaeopsis* (Müll.Hal.) Laz. – **RUS-EUR**: ARC [99], **RUS-AS**: ARC-ESIB [47, 212], ARC-YAK [47, 239], ARC-FE [40, 212]
- *apocarpum* (Hedw.) Bruch et al. – **LTV** [97, 244], **LAT** [3, 97], **EST** [97, 237], **BEL** [355], **UKR**: C [66], M [66, 97], K [66], **RUS-EUR**: ARC [150], NW [97, 207, 273, 364, 407], NE [97, 207, 415], KLN [309], C [97, 207], N-UR [150, 207], S-UR [150, 207], SE [207], CAUC [55, 208, 231, 232, 248], **GEO** [97, 117], **ARM** [97, 297], **AZE** [97, 277], **KAZ** [356], **TAD** [294], **KYR** [351], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [70, 97, 202], N-FE [94, 140], S-FE [76, 77] — {166}
- *apocarpum* subsp. *canadense* (Dupret) H.H.Blom ex B.H. Allen & Pursell – **RUS-AS**: S-SIB [99], E-SIB [99], S-FE [99]
- *boreale* Poelt – **RUS-EUR**: NW [97, 282], C [207], N-UR [207], S-UR [97, 207], **RUS-AS**: S-SIB [97], YAK [239], ARC-FE [99]
- *brunnescens* Limpr. – **UKR**: M [66, 97], K [66], **MLD** [97], **GEO** [97, 117], **TUR** [267, 296], **KYR** [296], **UZB** [267], **RUS-AS**: S-FE [76]
- *brunnescens* subsp. *griseum* (Nees & Hornsch.) H.H.Blom – **RUS-EUR**: SE [366]
- *confertum* (Funck) Bruch et al. (*S. apocarpum* var. *confertum* (Funck) H.Möller) – **EST** [237], **UKR**: C [66], M [66], K [66], **MLD** [367], **GEO** [117, 97], **ARM** [97], **AZE** [277], **RUS-AS**: ?NW [364], ?S-SIB [70], ?YAK [239], ?N-FE [94], ?S-FE [76] — {167}
- *confusum* H.H.Blom – **LAT** [3, 97], **EST** [237, 97], **RUS-EUR**: NW [99, 233]
- *crassipilum* H.H.Blom – **LAT** [3, 97], **EST** [97, 396], **UKR**: M, K [97], **RUS-EUR**: KLN [309], S-UR [207, 212], SE [366], CAUC [231, 232], **GEO** [97], **ARM** [97]
- *crenatum* H.H.Blom – **RUS-EUR**: NW [98, 233], **RUS-AS**: S-SIB [98]
- *cryptocarpum* Mogensen & H.H.Blom – **RUS-AS**: ARC-FE [40, 51], N-FE [40, 141]
- *dupretii* (Thér.) W.A. Weber – **RUS-EUR**: NW [97, 233], NE [414], C [207, 97], N-UR [207], S-UR [212, 422], SE [99, 366], CAUC [231, 248], **GEO** [97], **KAZ** [97], **RUS-AS**: S-SIB [212, 336], YAK [239], N-FE [140]
- *elegantulum* H.H.Blom – **EST** [396], **RUS-EUR**: NW [233], SE [207], CAUC [212, 231, 248, 208], **GEO** [97], **AZE** [97], **RUS-AS**: S-SIB [97], S-FE [99]
- *flaccidum* (De Not.) Ochyra (*S. pulvinatum* var. *flaccidum* (De Not.) De Not.) – **UKR**: M [66], K [328], **RUS-EUR**: NW [97, 407], S-UR [99], SE [366], CAUC [231, 248, 102], **GEO** [117, 97], **ARM** [297, 97], **AZE** [97], **TAD** [294], **KYR** [349, 351], **UZB** [267], **RUS-AS**: S-SIB [99]
- *flexipile* (Lindb. ex Broth.) G.Roth – **RUS-EUR**: ARC [97], NW [97, 233], **GEO** [97, 102], **RUS-AS**: ARC-YAK [239], ?ARC-FE [40]
- *frigidum* H.H.Blom – **RUS-EUR**: NW [97, 233, 282], N-UR [97, 99], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [99], E-SIB [50, 99], ARC-YAK [239], ARC-FE [40, 97], N-FE [40, 140]
- *frisvollianum* H.H.Blom – **RUS-EUR**: NW [97, 233], **RUS-AS**: ARC-ESIB [39, 164], E-SIB [163], ARC-YAK [97, 239], YAK [239], ARC-FE [40]

- *grandirete* H.H.Blom – **RUS-AS**: ARC-ESIB [50, 97], E-SIB [163], ARC-YAK [239], ARC-FE [40, 97]
- *helveticum* (Schkuhr) Deguchi (*Schistidium singarense* (Schiffn.) Laz.) – **RUS-EUR**: SE [366], **GEO** [97], **KAZ** [157], **TUR** [296], **KYR** [267, 296]
- *holmenianum* Steere & Brassard – **RUS-AS**: ARC-ESIB [50], ARC-YAK [239], ARC-FE [40]
- *lancifolium* (Kindb.) H.H.Blom – **RUS-EUR**: NW [97, 233], C [97], S-UR [212, 422], CAUC [231], **GEO** [97], **RUS-AS**: S-SIB [99], N-FE [141], S-FE [97]
- *liliputanum* (Müll.Hal.) Deguchi – **RUS-AS**: S-SIB [202, 212], S-FE [212, 221]
- *maritimum* (Sm. ex R.Scott) Bruch et al. – **EST** [237], **RUS-EUR**: ARC [42, 47], NW [233, 364], KLN [309], **RUS-AS**: N-FE [140], S-FE [77, 114]
- *maritimum* subsp. *piliferum* (I.Hagen) B.Bremer – **EST** [396], **RUS-EUR**: NW [98, 233]
- *papillosum* Culm. (*S. apocarpum* subsp. *papillosum* (Culm.) Poelt) – **LAT** [97], **EST** [397], **UKR**: C [66], M [66], **RUS-EUR**: ARC [97], NW [97, 233, 282], N-UR [207], S-UR [207], CAUC [231, 248], **GEO** [97], **KAZ** [97], **RUS-AS**: ARC-ESIB [39, 164], S-SIB [97], E-SIB [163], ARC-YAK [239], YAK [239], ARC-FE [40, 97], N-FE [140], S-FE [97, 114]
- *platyphyllum* (Mitt.) Perss. (*S. alpicola* auct. non (Hedw.) Limpr., *S. rivulare* subsp. *latifolium* (J.E.Zetterst.) B.Bremer, *S. rivulare* var. *latifolium* (J.E.Zetterst.) H.A.Crum & L.E.Anderson) – **RUS-EUR**: ARC [47, 127], NW [233], NE [?47], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [39, 164], S-SIB [98], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [140], S-FE [67]
- *platyphyllum* subsp. *abrupticostatum* (Bryhn) H.H.Blom – **RUS-EUR**: ARC [99], **RUS-AS**: ARC-ESIB [50, 98], E-SIB [388]
- *pruinoseum* (Wilson ex Schimp.) G.Roth – **RUS-EUR**: S-UR [212, 422], CAUC [231, 248], **GEO** [97], **ARM** [97]
- *pulchrum* H.H.Blom – **UKR**: M [97], **RUS-EUR**: ARC [99], NW [97, 233], S-UR [212, 422], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [97], E-SIB [97, 388], ARC-YAK [97, 239], YAK [239], ARC-FE [99], N-FE [140], S-FE [97]
- *recurvum* H.H.Blom – **RUS-EUR** [233, 282], **KAZ** [97]
- *rivulare* (Brid.) Podp. – **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 127, 150], NW [87, 207, 364, 407], NE [207], C [207], N-UR [90, 150, 207], S-UR [150, 207], CAUC [55, 231, 248], **GEO** [117], **KAZ** [159, 296, 356], **UZB** [347], **TAD** [294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], S-SIB [70, 202, 362], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 221]
- *robustum* (Nees & Hornsch.) H.H.Blom – **LAT** [3, 97], **EST** [97], **UKR**: M [97], **RUS-EUR**: NW [97, 233], CAUC [99], **GEO** [97]
- *scandicum* H.H.Blom – **RUS-EUR**: S-UR [99]
- *sinensiapocarpum* (Müll. Hal.) Ochyra – **RUS-EUR**: CAUC [99], **RUS-AS**: S-SIB [99], YAK [99]
- *sordidum* I.Hagen – **RUS-EUR**: NW [233], **RUS-AS**: ARC-ESIB [162], ARC-FE [40]
- *strictum* (Turner) Loeske ex Mårtensson – excluded — {168}
- *subflaccidum* (Kindb.) H.H.Blom – CAUC [99, 231]
- *subjulaceum* H.H.Blom – **RUS-EUR**: NW [233], **KAZ** [97], **KYR** [97], **RUS-AS**: S-SIB [97]
- *submuticum* Broth. ex H.H.Blom – **LAT** [3], **RUS-EUR**: NW [233], NE [207], C [97, 207], N-UR [207], S-UR [97, 207], SE [207], **RUS-AS**: ARC-ESIB [164], S-SIB [99], E-SIB [99], YAK [239]
- *submuticum* subsp. *arcticum* H.H.Blom – **RUS-AS**: ARC-ESIB [164], S-SIB [99], ARC-YAK [97, 239], YAK [97, 239], ARC-FE [99]
- *tenerum* (J.E.Zetterst.) Nyholm – **RUS-EUR**: NW [233], **RUS-AS**: E-SIB [74, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 97, 212], N-FE [40]
- *trichodon* (Brid.) Poelt – **EST** [237], **GEO** [97], **ARM** [97], **KYR** [97]
- *trichodon* var. *nutans* H.H.Blom – **UKR**: M [97], **RUS-EUR**: NW [233], CAUC [212, 231, 248], **ARM** [297], **RUS-AS**: S-SIB [97], N-FE [97, 140], S-FE [99]
- *umbrosum* (J.E. Zetterst.) H.H.Blom – **RUS-EUR**: NW [233]
- *venetum* H.H.Blom – **RUS-EUR**: NW [97, 233], **RUS-AS**: E-SIB [163], ARC-FE [99]
- Schistostega* D.Mohr [Schistostegaceae]
- *pennata* (Hedw.) F.Weber & D.Mohr – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M



[66], **RUS-EUR**: NW [207, 212, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [74, 212, 247], YAK [239], N-FE [94, 110, 140], S-FE [76, 77, 114, 212]

*Schwetschkeopsis* Broth. [\*Hypnaceae]

— *fabronia* (Schwägr.) Broth. – **RUS-AS**: S-FE [76, 212]

*Sciuro-hypnum* (Hampe) Hampe [Brachytheciaceae]

— *altaicum* (Ignatov) Ignatov, comb. nov. – *Eurhynchium altaicum* Ignatov, Arctoa 7: 141. 1998. – **RUS-AS**: S-SIB [198] — {169}

— *brotheri* (Paris) Ignatov & Huttunen – **RUS-AS**: S-FE [109, 114]

— *flotowianum* (Sendtn.) Ignatov & Huttunen (*Eurhynchium flotowianum* (Sendtn.) Kartt. *Cirriphyllum reichenbachianum* (Huebener) Wijk & Margad.) – **UKR**: C [66], K [66, 328], **RUS-EUR**: KLN [309], CAUC [208, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277]

— *glaciale* (Bruch et al.) Ignatov & Huttunen (*Brachythecium glaciale* Bruch et al.) – **RUS-EUR**: ARC [47, 127, 150], NW [87, 364], NE [415], N-UR [150, 207], CAUC [55, 212, 231], **GEO** [117], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-ESIB [212, 263], S-SIB [70, 198, 212], N-FE [140]

— *glaciale* var. *dovrense* (Limpr.) Ochyra (*Brachythecium dovrense* (Limpr.) J.J. Amann, *B. glaciale* var. *dovrense* Limpr.) – **RUS-EUR**: NW [364], CAUC [231], **RUS-AS**: S-SIB [198, 212], ARC-FE [40], N-FE [140]

— *latifolium* (Kindb.) Ignatov & Huttunen (*Brachythecium latifolium* Kindb.) – **RUS-EUR**: ARC [47, 150], NW [212, 273, 364], NE [212, 415], N-UR [150], S-UR [150], **RUS-AS**: W-SIB [265], S-SIB [70, 198, 212], E-SIB [275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [212, 221] — {170}

— *oedipodium* (Mitt.) Ignatov & Huttunen (*Brachythecium curtum* (Lindb.) Limpr., *B. oedipodium* (Mitt.) A. Jaeger, *B. starkei* var. *curtum* (Lindb.) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], **RUS-AS**: ARC-WSIB [136], W-SIB [147, 212], S-SIB [70, 198, 212, 265], E-SIB [275], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [114, 212, 221]

— *ornellanum* (Molendo) Ignatov & Huttunen (*Brachythecium ornellanum* (Molendo) Venturi & Bott., *Scleropodium apiculigerum* (Lindb. & Arnell) J.-P. Frahm, *S. ornellanum* (Molendo) Lorentz) – **RUS-EUR**: ARC [47, 127, 150], NW [273, 364], NE [212, 415], N-UR [150, 207, 212], S-UR [150, 207], CAUC [231], **GEO** [15], **KAZ** [296, 356], **KYR** [296, 350, 351], **RUS-AS**: ARC-ESIB [212], W-SIB [147, 212], S-SIB [70, 198, 212], E-SIB [212, 275], ARC-YAK [47, 239], ARC-FE [40], N-FE [140]

— *plumosum* (Hedw.) Ignatov & Huttunen (*Brachythecium plumosum* (Hedw.) Bruch et al.) – **LTV** [244], **LAT** [5], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [207, 212, 364, 407], NE [53, 207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [296], **KYR** [296], **RUS-AS**: S-SIB [69, 198, 212], E-SIB [212, 275], ARC-YAK [239], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [76, 77, 109, 212]

— *populeum* (Hedw.) Ignatov & Huttunen (*Brachythecium populeum* (Hedw.) Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [207, 273, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [296], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 198, 212], E-SIB [212, 275], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 77, 109, 212]

— *reflexum* (Starke) Ignatov & Huttunen (*Brachythecium reflexum* (Starke) Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TAD** [294, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 198, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]

- *starkei* (Brid.) Ignatov & Huttunen (*Brachythecium starkei* (Brid.) Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 198, 212, 265], E-SIB [212, 275], ARC-FE [40], N-FE [40, 140], S-FE [76, 77, 109]
- *uncinifolium* (Broth. & Paris) Ochyra & Żarnowiec (*Brachythecium uncinifolium* Broth.) – **RUS-AS**: N-FE [140, 143], S-FE [67, 112, 114]

*Scleropodiopsis* see *Rhynchostegium arcticum*

*Scleropodium* see *Pseudoscleropodium purum*, *Sciuro-hypnum ornellanum*

*Scopelophila* (Mitt.) Lindb. [Pottiaceae]

- *ligulata* (Spruce) Spruce (*Merceya ligulata* (Spruce) Schimp., *M. ligulata* var. *acutiuscula* (Lindb. ex Broth.) P.C.Chen, *M. acutiuscula* Lindb. ex Broth.) – **GEO** [117], **RUS-AS**: S-FE [76]

*Scorpidium* (Schimp.) Limpr. [Scorpidiaceae]

- *cossonii* (Schimp.) Hedenäs (*Limprichtia cossonii* (Schimp.) L.E.Anderson, *L. intermedia* (Lindb.) Loeske, *Drepanocladus cossonii* (Schimp.) Loeske, *D. intermedius* (Lindb.) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212], KLN [309], C [207], N-UR [90, 150, 207], S-UR [150, 207], CAUC [231, 248], **GEO** [117], **ARM** [297], **KAZ** [158], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140]
- *revolvens* (Sw. ex anon.) Rubers (*Limprichtia revolvens* (Sw. ex anon.) Loeske, *Drepanocladus revolvens* (Sw. ex anon.) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], N-UR [150, 212], S-UR [150], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [296, 356], **TAD** [267, 294, 296], **KYR** [351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [147, 212], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [67, 212]
- *scorpioides* (Hedw.) Limpr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 345], N-UR [150, 212], S-UR [150, 207], CAUC [212, 248], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [67]

*Scorpiurium* Schimp. [Brachytheciaceae]

- *circinatum* (Brid.) M.Fleisch. & Loeske – **UKR**: K [66, 328], **RUS-EUR**: CAUC [208, 212, 232], **GEO** [205a], **AZE** [277]

*Scouleria* Hook. [Scouleriaceae]

- *aquatica* Hook. (*S. rschewinii* Lindb. & Arnell) – **RUS-AS**: ARC-ESIB [164, 212, 275], S-SIB [69, 73], E-SIB [212, 260, 275], ARC-YAK [47, 239], YAK [212, 239], N-FE [40, 94], S-FE [212, 221] — {171}
- *aquatica* var. *pulcherrima* (Broth.) Kurbatova – **RUS-AS**: ARC-FE [260], ARK-YAK [36], YAK [239, 260], ARC-FE [40, 260], N-FE [40, 260], S-FE [260] — {171}

*Seligeria* Bruch et al. [Seligeriaceae]

- *acutifolia* Lindb. – **GEO** [102]
- *brevifolia* (Lindb.) Lindb. – **UKR** [401], **RUS-EUR**: NW [407], N-UR [90, 207, 212], S-UR [91], **RUS-AS**: S-SIB [69, 212, 275], E-SIB [68, 212]
- *calcareo* (Hedw.) Bruch et al. – **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: C [207, 212, 345], SE [207]
- *campylopoda* Kindb. – **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: NW [207, 281], NE [207, 212, 415], C [207, 212, 345], N-UR [90, 207, 302], S-UR [177], **RUS-AS**: W-SIB [307], S-SIB [212], E-SIB [162], ARC-YAK [239], YAK [239]
- *diversifolia* Lindb. – **RUS-EUR**: NW [207, 364, 407], **RUS-AS**: S-SIB [69, 70, 212] — {172}
- *donniana* (Sm.) Müll.Hal. – **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: NW [407], NE [415], C [207], S-UR [88, 207, 302], **GEO** [13], **TUR** [267, 296], **KYR** [267, 296], **RUS-AS**: S-SIB [69, 70, 275] — {173}

- *galinae* Mogensen & I.Goldberg – **RUS-EUR**: C [313], N-UR [90, 207, 212, 302], S-UR [91] — {173}
- *oelandica* C.E.O.Jensen & Medelius – **RUS-AS**: ARC-FE [40]
- *patula* (Lindb.) I.Hagen (*S. alpestris* T.Schauer, *S. patula* var. *alpestris* (T.Schauer) Gos & Ochyra, *S. tristichoides* var. *patula* (Lindb.) Broth.) – **EST** [237]
- *polaris* Berggr. – **RUS-EUR**: ARC [47], **RUS-AS**: ARC-ESIB [39, 212, 263], ?S-SIB [69, 70], E-SIB [163], ARC-YAK [47, 239], ARC-FE [40, 212] — {174}
- *pusilla* (Hedw.) Bruch et al. – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: C [207, 212, 345], NE [415], S-UR [207, 212, 302], SE [207, 366], CAUC [55, 212, 248], **AZE** [277], **TUR** [267, 296], **TAD** [295], **KYR** [267, 296], **RUS-AS**: S-SIB [212, 336]
- *recurvata* (Hedw.) Bruch et al. – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [407], CAUC [232], **GEO** [102, 117], **AZE** [277], **RUS-AS**: S-FE [76]
- *subimmersa* Lindb. – **RUS-EUR**: NW [407]
- *trifaria* (Brid.) Lindb. – **RUS-EUR**: NE [207, 415], CAUC [55, 212], **GEO** [102], **RUS-AS**: ?S-SIB [70], ?E-SIB [275] — {175}
- *tristichoides* Kindb. – **RUS-EUR**: NW [364, 407], N-UR [90, 207, 212, 302], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [212], E-SIB [163], YAK [239]

*Semibarbula* see *Tortula*

*Serpoleskea* (Limpr.) Loeske [Amblystegiaceae]

- *confervoides* (Brid.) Loeske (*Amblystegium confervoides* (Brid.) Bruch et al., *Amblystegiella confervoides* (Brid.) Loeske, *Platydictya confervoides* (Brid.) H.A.Crum) – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [407], NE [207, 416], C [207, 345], S-UR [91, 150, 207, 212], CAUC [248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296], **TAD** [296], **KYR** [296], **RUS-AS**: S-SIB [212, 336]
- *subtilis* (Hedw.) Loeske (*Amblystegium subtile* (Hedw.) Bruch et al., *Amblystegiella subtilis* (Hedw.) Loeske, *Platydictya subtilis* (Hedw.) H.A.Crum) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [296], **KYR** [267, 296], **RUS-AS**: ARC-WSIB [136], W-SIB [265], S-SIB [70, 212], YAK [239], S-FE [76, 212]

*Sphagnum* L. [Sphagnaceae]

- *affine* Renaud & Cardot (*S. affine* var. *flagellare* (Schlieph. ex Röhl) L.Söderstr. & Hedenäs, *S. imbricatum* subsp. *affine* (Renaud & Cardot) Flatberg) – **RUS-EUR**: NW [290], ARC [247], **RUS-AS**: ARC-WSIB [247], ARC-YAK [239]
- *angustifolium* (C.E.O.Jensen ex Russow) C.E.O.Jensen – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212], **GEO** [117], **KAZ** [356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 109, 212]
- *annulatum* H.Lindb. ex Warnst. – **RUS-EUR**: NW [212, 262, 282], ?NE [212, 417], ?**RUS-AS**: E-SIB [212, 308] — {176}
- *aongstroemii* Hartm. – **EST** [237], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 262, 407], NE [207, 212, 415], C [207], N-UR [150, 207, 212], S-UR [150, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94], S-FE [212, 221]
- *articum* Flatberg & Frisvoll – **RUS-AS**: ARC-YAK [284], ARC-FE [40, 212]
- *auriculatum* Schimp. (*S. denticulatum* Brid.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: M [412], **RUS-EUR**: KLN [309], NW [212, 364, 407], C [207, 212], CAUC [231], **GEO** [117], **RUS-AS**: ARC-ESIB [164], S-FE [30]
- *austinii* Sull. (*S. imbricatum* subsp. *austinii* (Sull.) Flatberg) – **LAT** [4], **EST** [237], **GEO** [168] — {177}

- *balticum* (Russow) C.E.O.Jensen – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [413], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [109, 212, 221]
- *capillifolium* (Ehrh.) Hedw. (*S. nemoreum* Scop., *S. subtile* (Russow) Warnst.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **KAZ** [26, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *centrale* C.E.O.Jensen – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [26, 296], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 109, 212]
- *compactum* Lam. & DC. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207], SE [207], CAUC [55, 212], **GEO** [117], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]
- *contortum* Schultz – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 262, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212, 345], N-UR [150, 212, 207], S-UR [150, 207], SE [207], CAUC [55, 212, 231], **GEO** [117], **KAZ** [26, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [212, 336], E-SIB [212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212]
- *cuspidatum* Ehrh. ex Hoffm. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212, 345], N-UR [150, 207], S-UR [150], SE [207], CAUC [55, 212], **GEO** [117], **RUS-AS**: W-SIB [212, 265], S-SIB [70], YAK [212, 239], N-FE [94, 109, 140]
- *?elenkinii* B.S.Semenov – **RUS-AS**: S-SIB [365] — {178}
- *fallax* (H.Klinggr.) H.Klinggr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212], **GEO** [117], **RUS-AS**: ARC-WSIB [47], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [140], S-FE [77, 109, 212]
- *fimbriatum* Wilson – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 212, 207], S-UR [150, 207], SE [207, 212], **GEO** [117], **ARM** [297], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [212], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *flexuosum* Dozy & Molk. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212], **GEO** [117], **KAZ** [26, 296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [93], W-SIB [212, 265], S-SIB [70, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [76, 212, 221]
- *fuscum* (Schimp.) H.Klinggr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], **GEO** [117], **ARM** [297], **KAZ** [26, 295, 296, 356], **TAD** [26, 295], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 109, 212]

- *girsensohnii* Russow – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [26, 296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *?gordjagini* B.S.Semenov – **RUS-AS**: S-SIB [365] — {178}
- *imbricatum* Hornsch. ex Russow s. str. – **RUS-AS**: YAK [168, 239], N-FE [168], S-FE [30, 76, 168] — {179}
- *inexpectatum* Flatberg – **RUS-AS**: ARC-FE [170]
- *inundatum* Russow (*S. denticulatum* var. *inundatum* (Russow) Kartt., *S. subsecundum* subsp. *inundatum* (Russow) Meyl., *S. subsecundum* var. *inundatum* (Russow) C.E.O.Jensen) – **LTV** [244], **LAT** [1], **EST** [237], **BEL** [333], **UKR**: C [406], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 407], NE [207, 415], KLN [310], C [207, 212], CAUC [55, 212], **GEO** [117], **RUS-AS**: S-FE [109]
- *jensenii* H. Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [212], E-SIB [212, 247], YAK [239], N-FE [140], S-FE [109, 212, 221] — {176}
- *?krylovii* B.S.Semenov – **RUS-AS**: S-SIB [365] — {178}
- *lenense* H.Lindb. ex L.I.Savicz – **RUS-EUR**: ARC [47, 127, 150, 415], N-UR [150, 415], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], E-SIB [74, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94], S-FE [109, 212, 221]
- *lindbergii* Schimp. – **LAT** [3], **EST** [237], **BEL** [333], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [197, 212], E-SIB [74, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [109, 212, 221]
- *magellanicum* Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231], **GEO** [117], **KAZ** [26, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *majus* (Russow) C.E.O.Jensen – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207], SE [207], **RUS-AS**: W-SIB [212, 265], S-SIB [212, 336], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [140]
- *molle* Sull. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: M [412], **RUS-EUR**: NW [280, 407], KLN [310]
- *obtusum* Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [90, 150, 207], S-UR [150, 207], SE [207], **GEO** [117], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [212, 336], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40], N-FE [94, 140], S-FE [76, 109, 212]
- *orientale* L.I.Savicz – **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40, 94], S-FE [76, 212]
- *palustre* L. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: NW [207, 407], NE [207, 212, 415], KLN [310], C [207, 212, 345], N-UR [207], S-UR [150, 207, 212], SE [207], CAUC [212, 248], **GEO** [117], **KAZ** [26, 296], **RUS-AS**: W-SIB [265], S-SIB [70, 212], E-SIB [212, 247], S-FE [76, 77, 109, 212]
- *papillosum* Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], **GEO** [117], **RUS-AS**: W-SIB [212, 265], S-SIB [212, 336], E-

- SIB [212, 308], ARC-FE [40], N-FE [140], S-FE [109]
- *perfoliatum* L.I.Savicz – **RUS-AS**: ARC-WSIB [136], WSIB [428], ARC-YAK [47, 239], ARC-FE [40], N-FE [94, 95]
- *platyphyllum* (Lindb. ex Braithw.) Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [53, 207, 212, 415], KLN [310], C [207, 212, 345], N-UR [90, 150, 207], S-UR [150, 207], SE [207], CAUC [55, 212, 231], **GEO** [117], **KAZ** [26, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [197, 212], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [140], S-FE [212, 109]
- *pulchrum* (Lindb. ex Braithw.) Warnst. – **LTV** [244], **LAT** [3], **BEL** [333], **RUS-EUR**: NW [207, 212, 407], NE [207, 415], KLN [310], C [207], N-UR [150, 415], **RUS-AS**: S-SIB [212, 336], ARC-YAK [47, 239], N-FE [140], S-FE [77]
- *quinquefarium* (Lindb. ex Braithw.) Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], **RUS-EUR**: NW [212, 364, 407], NE [288, 207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207], S-UR [150], CAUC [212, 248], **GEO** [117], **RUS-AS**: W-SIB [265], S-SIB [70, 212], E-SIB [197, 212], S-FE [67]
- *riparium* Ångstr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], **ARM** [297], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [247, 93], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [94, 140], S-FE [109, 212, 221]
- *rubellum* Wilson – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207], SE [207], CAUC [55, 212], **GEO** [117], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [96, 212], W-SIB [265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [212, 109]
- *russowii* Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 248], **GEO** [117], **KAZ** [26, 296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [93, 164], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [109, 212, 221]
- *squarrosus* Crome – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [26, 296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *steerei* R.E.Andrus (*S. imbricatum* var. *arcticum* Flatberg) – **RUS-AS**: ARC-YAK [239], YAK [239], ARC-FE [168]
- *subfulvum* Sjörs – **LAT** [3], **EST** [237], **RUS-EUR**: NW [212, 273, 364], NE [207], N-UR [207], **RUS-AS**: ARC-YAK [239], ARC-FE [40], N-FE [40]
- *subnitens* Russow & Warnst. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: M [412], **RUS-EUR**: NW [212, 273, 364, 407], NE [207], KLN [310], S-UR [150, 207], **KAZ** [26, 296], **RUS-AS**: W-SIB [265], S-SIB [212, 336]
- *subsecundum* Nees – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: C [412], M [412], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **AZE** [277], **KAZ** [26, 296, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [212, 336], E-SIB [163], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140], S-FE [76, 109, 212]
- *tenellum* (Brid.) Pers. ex Brid. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR**: M [412], **RUS-**

- EUR:** NW [207, 212, 364, 407], NE [207], KLN [310], C [207], CAUC [55, 212], **RUS-AS:** S-SIB [212, 336], E-SIB [212, 308], N-FE [140]
- *teres* (Schimp.) Ångstr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR:** C [412], M [412], **RUS-EUR:** ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **KAZ** [26, 295, 296, 356], **TAD** [26, 295], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 77, 109]
- *tundrae* Flatberg – **RUS-AS:** ARC-FE [40]
- *?vereschaginii* B.S.Semenov – **RUS-AS:** S-SIB [365] — {178}
- *warnstorffii* Russow – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR:** M [412], **RUS-EUR:** ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [310], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **KAZ** [26], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [109, 212, 221]
- *wulfianum* Girg. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [333], **UKR:** M [412], **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], **KAZ** [296], **RUS-AS:** W-SIB [212, 265], S-SIB [70, 212], E-SIB [74, 212, 247], ARC-YAK [239], YAK [212, 239], S-FE [212, 109]
- Splachnum** Hedw. [Splachnaceae]
- *ampullaceum* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR:** C [66], M [66], **RUS-EUR:** NW [207, 212, 364, 407], NE [207, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], **TAD** [296], **RUS-AS:** W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 163], YAK [239], N-FE [94]
- *luteum* Hedw. – **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 212], S-UR [207], **RUS-AS:** W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 162, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140]
- *melanocaulon* (Wahlenb.) Schwägr. – **RUS-EUR:** NW [207, 262], NE [414], **RUS-AS:** E-SIB [275], N-FE [140, 275]
- *pensylvanicum* (Brid.) Grout ex H.A.Crum – **LAT** [3]
- *rubrum* Hedw. – **LAT** [3], **EST** [237], **RUS-EUR:** ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], C [207, 212], N-UR [150, 207, 415], **RUS-AS:** W-SIB [212, 265], S-SIB [69, 212], E-SIB [69, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [38, 212], N-FE [94, 140], S-FE [212, 221]
- *sphaericum* Hedw. (*S. ovatum* Hedw.) – **LAT** [3], **EST** [237], **UKR:** C [66], **RUS-EUR:** ARC [47, 127, 150, 415], NW [207, 212, 364, 407], NE [207, 415], N-UR [150], **KAZ** [296, 356], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [147, 212], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [40, 140], S-FE [212, 221]
- *vasculosum* Hedw. – **EST** [237], **RUS-EUR:** ARC [47, 150], NW [87, 212, 364, 407], N-UR [150], **KAZ** [157], **KYR** [296], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], E-SIB [163], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40]
- Stegonia** Venturi [Pottiaceae]
- *latifolia* (Schwägr.) Venturi ex Broth. – **RUS-EUR:** ARC [47, 150, 415], CAUC [55, 212, 231], **GEO** [18], **ARM** [297], **KAZ** [157, 296], **TAD** [267, 295], **KYR** [296, 349, 351], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [70, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40]
- *pilifera* (Brid.) H.A.Crum & L.E.Anderson – **GEO** [102], **TAD** [295], **KYR** [296, 349], **RUS-AS:** ARC-WSIB [136], S-SIB [70, 212], ARC-FE [40, 212], N-FE [40]
- Stereodon** (Brid.) Mitt. [Pylaisiaceae] — {180}
- *bambergeri* (Schimp.) Lindb. (*Hypnum bambergeri* Schimp.) – **UKR:** C [66], **RUS-EUR:** ARC [47, 150, 415], NW [364], NE [207, 212], N-UR [150], **KAZ** [159, 296, 356], **KYR** [296], **RUS-AS:** ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [126, 212, 247], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76]

- *callichrous* (Brid.) Braithw. (*Hypnum callichroum* Brid.) – **UKR**: C [66], **RUS-EUR**: NW [212, 273, 364, 407], CAUC [212, 231], **GEO** [117], **ARM** [297], **RUS-AS**: S-SIB [70], N-FE [140], S-FE [268] — {181}
  - *fauriei* (Cardot) Ignatov & Ignatova – *Hypnum fauriei* Cardot, Beih. Bot. Centralbl. 17: 41, f. 26. 1904. – **RUS-AS**: S-SIB [200, 212], YAK [239], S-FE [212, 221] — {182}
  - *fertilis* (Sendtn.) Lindb. (*Hypnum fertile* Sendtn.) – **LAT** [3], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: NW [48], C [207], S-UR [150], CAUC [212, 248], **GEO** [117], **AZE** [277], **TAD** [296], **KYR** [296] — {182}
  - *hamulosus* (Bruch et al.) Lindb. (*Hypnum hamulosum* Bruch et al.) – **UKR**: C [66], **RUS-EUR**: ARC [150], NW [41, 87, 364, 407], NE [415], N-UR [41, 150, 415], **AZE** [277], **KAZ** [159, 296], **RUS-AS**: ARC-WSIB [?47], ARC-ESIB [41, 164], S-SIB [41, 70, 212], E-SIB [163], ARC-YAK [41, 49, 239], YAK [239], ARC-FE [40, 41], N-FE [140]
  - *holmenii* (Ando) Ignatov & Ignatova (*Hypnum holmenii* Ando) – **RUS-EUR**: ARC [41], NW [41, 207], NE [41, 212], N-UR [41, 90], **RUS-AS**: ARC-WSIB [41, 136], ARC-ESIB [41, 164], S-SIB [41, 212], E-SIB [41], ARC-YAK [41, 212, 239], YAK [41, 239], ARC-FE [40, 41], N-FE [41, 140], S-FE [41] — {183}
  - *pallescens* (Hedw.) Mitt. (*Hypnum pallescens* (Hedw.) P.Beauv.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 212, 407], NE [207, 212, 416], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296], **RUS-AS**: W-SIB [212, 265], S-SIB [70, 212], E-SIB [212, 275, 388], N-FE [140], S-FE [77, 109, 212] — {184}
  - *plicatulus* Lindb. (*Hypnum plicatulum* (Lindb.) A.Jaeger) – **RUS-EUR**: ARC [41, 47, 150, 127], NW [41, 212, 273], NE [41, 212], N-UR [41, 150, 207, 212, 415], S-UR [41, 207], **RUS-AS**: ARC-WSIB [41, 136], ARC-ESIB [41, 212], W-SIB [41, 212, 265], S-SIB [41, 212], E-SIB [41, 212, 275], ARC-YAK [41, 47, 212, 239], YAK [41, 212, 239], ARC-FE [40, 41, 212], N-FE [41, 90, 140], S-FE [41, 76, 77, 109, 212]
  - *plumaeformis* (Wilson) Mitt. (*Hypnum plumaeforme* Wilson) – **GEO** [29], **RUS-AS**: S-FE [29, 76, 77, 212]
  - *procerrimus* (Molendo) Bauer – **RUS-EUR**: ARC [47, 150], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [156, 159], **TAD** [296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [70, 212], E-SIB [163, 388], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212] — {185}
  - *revolutus* Mitt. (*Hypnum revolutum* (Mitt.) Lindb.) – **UKR**: C [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [364], NE [415], N-UR [150], S-UR [150], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 267, 296, 356], **TUR** [296], **UZB** [267], **TAD** [294], **KYR** [267, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [70, 212], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140]
  - *subimponens* (Lesq.) Broth. (*Hypnum subimponens* Lesq.) – **BEL** [?355], **RUS-EUR**: NW [41], NE [41], **RUS-AS**: ARC-WSIB [41, 136], ARC-ESIB [41, 164, 212], S-SIB [41], E-SIB [41, 212], ARC-YAK [41, 239], YAK [14, 17, 212, 239], ARC-FE [40, 41, 212], N-FE [41, 94, 140], S-FE [41, 212]
  - *subimponens* var. *ulophyllum* (Müll. Hal.) Afonina, comb. nov. – *Cupressina ulophylla* Müll. Hal., Nuov. Giorn. Bot. Ital. n. ser. 3: 122. 1896. – **RUS-AS**: YAK [41], ARC-FE [41], S-FE [41]
  - *tristo-viridis* Broth. (*Hypnum tristo-viride* (Broth.) Paris) – excluded — {186}
  - *vaucheri* (Lesq.) Lindb. ex Broth. (*Hypnum vaucheri* Lesq.) – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [212, 364, 407], NE [212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 267, 296, 356], **TUR** [267, 296], **TAD** [294, 296], **KYR** [267, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212]
- Straminergon** Hedenäs [Calliargonaceae]
- *stramineum* (Dicks. ex Brid.) Hedenäs (*Calliargon stramineum* (Dicks. ex Brid.) Kindb.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150],



NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [212, 231], **GEO** [117], **AZE** [277], **KAZ** [296, 303, 356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [77, 109, 212]

**Struckia** Müll.Hal. [Plagiotheciaceae]

— **enervis** (Broth.) Ignatov, T. J. Kop. & D.G.Long (*Cephalocladium zerovii* Laz., *Struckia argentata* Müll.Hal. subsp. *zerovii* (Laz.) Tan et al., *S. zerovii* (Laz.) Hedenäs) – **RUS-AS**: S-SIB [69, 70, 212] — {187}

**Syntrichia** Brid. [Pottiaceae], see also *Tortula mucronifolia*, *T. subulata*, etc.

— **callicola** J.J.Amann (*S. densa* (Velen.) J.-P.Frahm, *Tortula callicolens* W.A.Kramer, *T. densa* (Velen.) J.-P.Frahm, *T. ruralis* var. *callicola* (J.J.Amann) Barkman, *T. ruralis* var. *densa* Velen.) – **EST** [237], **UKR**: C [66], M [66], **RUS-EUR**: C [212, 345], **GEO** [117], **ARM** [297], **KAZ** [296, 356], **TAD** [294, 295], **KYR** [296] — {188}

— **caninervis** Mitt. (*Tortula caninervis* (Mitt.) Broth.) – **UKR**: M [66], K [66, 328], **RUS-EUR**: C [207, 212, 345], S-UR [150, 207], SE [207, 212], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 295, 296], **TUR** [295, 296], **UZB** [295, 296], **TAD** [294, 295, 296], **KYR** [295, 296, 351], **RUS-AS**: S-SIB [70, 197], E-SIB [162]

— **caninervis** var. **astrakhanica** Ignatov, Ignatova & Suragina – **RUS-EUR**: SE [207, 212, 213]

— **ferganensis** (Laz.) Laz. – **KAZ** [296, 356], **TAD** [295], **KYR** [267, 295, 296]

— **handelii** (Schiffn.) S.Agnew & Vondr. (*S. montana* subsp. *handelii* (Schiffn.) Podp., *Tortula handelii* Schiffn., *T. intermedia* subsp. *handelii* (Schiffn.) Wijk & Margad.) – **UKR**: M [66], **KAZ** [296, 348, 356], **TUR** [11, 296], **TAD** [295], **KYR** [296]

— **handelii** var. **ferganensis** (Laz.) Ochyra – **UZB** [257]

— **laevipila** Brid. (*S. pagorum* (Milde) J.J.Amann, *Tortula pagorum* (Milde) De Not., *T. laevipila* (Brid.) Schwägr.) – **RUS-EUR**: KLN [309], CAUC [232, 250], **GEO** [117], **ARM** [297], **KAZ** [296, 356], **TAD** [295], **KYR** [267, 296], **RUS-AS**: S-SIB [70, 212], E-SIB [162, 212, 386], YAK [239], S-FE [76, 212] — {189}

— **latifolia** (Bruch ex Hartm.) Huebener (*Tortula latifolia* Bruch ex Hartm.) – **LAT** [3], ?**BEL** [355], **UKR**: C [66, 413], **RUS-EUR**: KLN [309], **RUS-AS**: YAK [239]

— **montana** Nees (*S. intermedia* Brid.) – **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: S-UR [207, 212], SE [207], CAUC [55, 212, 232], **GEO** [102, 117], **ARM** [297], **AZE** [277], **TAD** [294, 295]

— **norvegica** F.Weber (*Tortula norvegica* (F.Weber) Lindb.) – **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [87, 273, 364, 407], NE [207, 212, 415], N-UR [90, 150, 207], S-UR [150, 207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [296, 356], **TAD** [294, 295], **UZB** [267], **KYR** [267, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47], YAK [239], ARC-FE [40], N-FE [140], S-FE [67, 212]

— **papillosa** (Wilson) Jur. (*Tortula papillosa* Wilson) – **LTV** [244], **UKR**: C [66], M [66], **RUS-EUR**: KLN [309], CAUC [226], **GEO** [117], **AZE** [277]

— **papillosissima** (Copp.) Loeske (*S. ruralis* var. *hirsuta* (Venturi) Podp., *Tortula hirsuta* (Venturi) Laz., *T. papillosissima* (Copp.) Broth., *T. ruralis* subsp. *hirsuta* (Venturi) W.A.Kramer, *T. ruralis* var. *hirsuta* (Venturi) Paris) – **GEO** [117], **AZE** [277], **KAZ** [295, 296, 356, 348], **TUR** [295, 296], **TAD** [294, 295], **KYR** [296, 349, 351]

— **princeps** (De Not.) Mitt. (*Tortula princeps* De Not.) – **GEO** [117], **ARM** [297], **TUR** [257, 267, 295, 296], **UZB** [296], **TAD** [294, 295], **KYR** [296]

— **princeps** var. **parnassica** (Schiffn.) Podp. – **TUR** [257]

— **pseudohandelii** (J.Fröhl.) S.Agnew & Vondr. – **TUR** [257], **UZB** [257], **TAD** [257]

— **ruralis** (Hedw.) F.Weber & D.Mohr (*Tortula ruralis* (Hedw.) P.Gaertn., B.Mey. & Scherb.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM**

- [297], **AZE** [277], **KAZ** [156, 295, 296, 356], **TUR** [295, 296], **UZB** [295, 296], **TAD** [294, 295, 296], **KYR** [295, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [67]
- *ruralis* var. *ruraliformis* (Besch.) Delogne (*S. ruraliformis* (Besch.) Cardot, *S. ruralis* var. *arenicola* J.J.Amann, *nom. illeg.*, *Tortula ruraliformis* (Besch.) Ingham) – **LAT** [1], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: C [345], KLN [309], **GEO** [117, 257], **ARM** [297], **AZE** [277], **KAZ** [159], **TUR** [368], **TAD** [257, 294, 295], **KYR** [257, 296, 351]
- *ruralis* var. *subpapillosissima* (Bizot & R.B.Pierrot) R.H.Zander – **GEO** [257],
- *sinensis* (Müll.Hal.) Ochyra (*Tortula sinensis* (Müll.Hal.) Broth.) – **UKR**: C [66, 413], K [328], **RUS-EUR**: CAUC [212, 231, 248], **GEO** [117, 207], **ARM** [297], **AZE** [277], **KAZ** [393], **TUR** [296], **TAD** [294, 295], **KYR** [267, 296], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 386], S-FE [76, 212]
- *submontana* (Broth.) Ochyra – **TAD** [295], **KYR** [257, 296]
- *virescens* (De Not.) Ochyra (*Tortula virescens* (De Not.) De Not., *T. pulvinata* (Jur.) Limpr.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: KLN [309], C [207, 345], S-UR [207, 212], SE [207], CAUC [232], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [393], **TUR** [296], **TAD** [295], **KYR** [296, 351]
- Taxiphyllum* M.Fleisch. [\*Hypnaceae]
- *alternans* (Cardot) Z.Iwats. – **RUS-AS**: S-FE [76]
- *aomoriense* (Besch.) Z.Iwats. – **RUS-AS**: S-FE [76, 77, 109, 212]
- *densifolium* (Lindb. ex Broth.) Reimers – **RUS-EUR**: CAUC [208, 212, 232], **GEO** [117], **AZE** [277]
- *taxirameum* (Mitt.) M.Fleisch. – **RUS-AS**: S-FE [76, 212]
- *wissgrillii* (Garov.) Wijk & Margad. – **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 407], KLN [309], C [207, 212, 345], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [70, 212], YAK [239]
- Tayloria* Hook. [Splachnaceae]
- *acuminata* Hornsch. – **RUS-EUR**: ARC [47], NE [415], CAUC [248], **KAZ** [157, 159], **TAD** [294, 296], **KYR** [296], **RUS-AS**: ARC-ESIB [39, 212], S-SIB [69, 70, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40]
- *froelichiana* (Hedw.) Mitt. ex Broth. – **GEO** [102], **KAZ** [157, 159, 356], **RUS-AS**: S-SIB [69, 70, 212], ARC-FE [40], N-FE [40]
- *hornschurchii* (Grev. & Arn.) Broth. – **RUS-AS**: ARC-FE [40, 212], **KAZ** [157]
- *lingulata* (Dicks.) Lindb. – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], N-UR [90, 150, 212], CAUC [55, 212], **TAD** [295], **RUS-AS**: ARC-WSIB [136], ARC-WSIB [47, 136], ARC-ESIB [275], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140]
- *serrata* (Hedw.) Bruch et al. – **UKR**: C [66], **RUS-EUR**: NW [207], S-UR [150, 207, 212], CAUC [212, 231, 248], **KAZ** [157, 296, 356], **TAD** [294, 296], **KYR** [296], **RUS-AS**: N-FE [40]
- *splachnoides* (Schleich. ex Schwägr.) Hook. – **RUS-EUR**: NW [364, 407], S-UR [150, 207, 212], CAUC [248], **GEO** [31], **RUS-AS**: ARC-YAK [47, 239], N-FE [140] + MID-AS [296]
- *tenuis* (Dicks. ex With.) Schimp. (*T. serrata* var. *tenuis* (Dicks.) Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [150, 415], NW [207, 212, 364, 407], C [207], NE [415], N-UR [207], S-UR [207], **KAZ** [157, 296, 356], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70], E-SIB [69], ARC-YAK [47, 212, 239], ARC-FE [40]
- TetrAPHIS* Hedw. [Tetraphidaceae]
- *geniculata* Girg. ex Milde – **RUS-AS**: S-FE [76, 77, 109, 212, 275]
- *pellucida* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 208, 212, 231], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [295], **RUS-AS**: W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], YAK [212, 239], N-FE [40, 94, 140], S-FE [76, 77, 109, 212]

**Tetraplodon** Bruch et al. [Splachnaceae]

- *angustatus* (Hedw.) Bruch et al. – **LAT** [3], **UKR**: C [66], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [212, 288, 415], C [207, 212], N-UR [90, 150, 415], S-UR [150, 207, 212], CAUC [55, 212], **KAZ** [296, 356], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], YAK [212, 239], ARC-FE [40], N-FE [140, 237], S-FE [109, 212, 221]
- *nnioides* (Hedw.) Bruch et al. – **EST** [237], **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150, 207, 212], **KAZ** [296, 356], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 212, 221]
- *pallidus* I.Hagen – **RUS-EUR**: ARC [150], **RUS-AS**: ARC-ESIB [212], E-SIB [126, 212], ARC-FE [40], N-FE [40]
- *paradoxus* (R.Br.) I.Hagen – **RUS-EUR**: ARC [47, 150, 415], N-UR [150], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], S-SIB [70, 212], E-SIB [126, 212], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40], N-FE [40]
- *urceolatus* (Hedw.) Bruch et al. – **RUS-EUR**: ?NE [415], CAUC [231], **GEO** [102, 117], **KAZ** [159], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [212], S-SIB [70, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40, 140] + MID-AS [296]

**Tetrodontium** Schwägr. [Tetraphidaceae]

- *brownianum* (Dicks.) Schwägr. – **UKR**: C [66], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [69], YAK [239]
- *ovatum* (Funck) Schwägr. – **UKR**: C [413] — {190}
- *repandum* (Funck) Schwägr. – **RUS-EUR**: NW [82], **GEO** [14, 117], **RUS-AS**: S-FE [115, 212, 221]

*Thamnium* see *Thamnobryum*

**Thamnobryum** Nieuwl. [Neckeraceae]

- *alopecurum* (Hedw.) Gang. – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207], KLN [309], CAUC [55, 208, 212, 232, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: N-FE [140]
- *coreanum* (Cardot) Nog. & Z.Iwats. – **RUS-AS**: S-FE [78, 312]
- *neckeroides* (Hook.) E.Lawton – **RUS-AS**: S-SIB [70, 212], E-SIB [69, 212, 275], S-FE [76, 212]
- *plicatulum* (Sande Lac.) Z.Iwats. – **RUS-AS**: S-FE [76, 109, 212]
- *subseriatum* (Mitt. ex Sande Lac.) B.C.Tan (*T. sandei* (Besch.) Z.Iwats.) – **RUS-AS**: S-FE [76, 77, 212]
- *vorobjovii* (Laz.) Ochyra – **RUS-AS**: S-FE [76, 212]

**Thuidium** Bruch et al. [Thuidiaceae], see also *Abietinella abietina*, *Bryonoguchia molkenboeri*, *Pelekium minutulum*, *P. pygmaeum*, *P. versicolor*, *Rauiella fujisana* — {191}

- *assimile* (Mitt.) A.Jaeger (*T. philibertii* Limpr.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [150, 415], NW [207, 407], NE [207, 212], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 296, 356], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212] — {192}
- *cymbifolium* (Dozy & Molk.) Dozy & Molk. – **RUS-AS**: S-FE [76, 212]
- *delicatulum* (Hedw.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: NW [207, 407], NE [207, 415], KLN [309], C [207, 212, 345], S-UR [150, 212], SE [366], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [212, 275], YAK [239], S-FE [76, 77, 212]
- *kanedae* Sakurai – **RUS-AS**: S-FE [76, 77]
- *pristocalyx* (Müll.Hal.) A.Jaeger (*T. glaucinum* (Mitt.) Bosch & Sande Lac.) – **RUS-AS**: S-FE [76, 212]
- *recognitum* (Hedw.) Lindb. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [90, 150, 207, 212], S-UR [150, 207, 212], SE [207], CAUC [55, 212, 232,

- 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159], **KYR** [296], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [40, 140]
- *subglaucinum* Cardot – **RUS-AS**: S-FE [116]
- *submicropteris* Cardot – **RUS-AS**: S-FE [76, 212]
- *tamariscinum* (Hedw.) Bruch et al. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [207], KLN [309], C [207], ?S-UR [150], CAUC [55, 208, 212], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-FE [77, 109, 212] — {193}
- *thermophilum* Czernyadjeva – **RUS-AS**: N-FE [142]
- Timmia** Hedw. [Timmiaceae]
- *austriaca* Hedw. (*T. austriaca* var. *arctica* (Lindb.) Arnell) – **UKR**: C [66], **RUS-EUR**: ARC [47, 127, 150], NW [212, 364, 407], NE [207, 212, 415], N-UR [150, 212], S-UR [150, 207], CAUC [22], **GEO** [117], **ARM** [297], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 197], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140]
- *bavarica* Hessel. – **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 296, 356], **TUR** [296], **TAD** [267, 294, 296], **KYR** [267, 296, 349], **UZB** [267], **RUS-AS**: ARC-WSIB [136], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [40], S-FE [37, 114, 212]
- *comata* Lindb. & Arnell – **RUS-EUR**: ARC [47, 150], NW [364, 407], NE [212, 415], N-UR [150, 207, 212, 415], S-UR [177], CAUC [22], **GEO** [117], **RUS-AS**: ARC-ESIB [164, 212, 275], W-SIB [307], S-SIB [69, 70, 212, 275], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [140]
- *megapolitana* Hedw. – **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [328], **RUS-EUR**: NW [207], NE [207, 212, 415], C [207, 212, 345], N-UR [90, 207], S-UR [150, 207], SE [207], **GEO** [117], **ARM** [297], **TUR** [11], **RUS-AS**: ARC-ESIB [212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 239], YAK [212, 239], N-FE [140], S-FE [76, 212, 221] — {194}
- *norvegica* J.E.Zetterst. – **RUS-EUR**: ARC [47, 150], NE [415], CAUC [55, 212], **GEO** [117], **KAZ** [159, 296, 356], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [212, 386], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], S-FE [77, 212, 221]
- *sibirica* Lindb. & Arnell – **RUS-AS**: ARC-ESIB [39, 164, 212], E-SIB [212, 275], YAK [239], ARC-FE [40, 212]
- Timmiella** (De Not.) Limpr. [Pottiaceae]
- *anomala* (Bruch & Schimp.) Limpr. – **GEO** [28, 31], **RUS-EUR**: NE [416], **TAD** [294, 295], **RUS-AS**: S-SIB [69, 70, 212], S-FE [30, 76]
- *barbuloides* (Brid.) Mönk. (?*T. corniculata* (Wahlenb.) Broth.) – **TUR** [267, 368], **RUS-AS**: N-FE [140] — {195}
- Tomentypnum** Loeske [\*Amblystegiaceae]
- *falcifolium* (Renauld ex Nichols) Tuom. – **RUS-AS**: S-SIB [255], E-SIB [212, 386], YAK [212, 239], ARC-FE [40, 212]
- *nitens* (Hedw.) Loeske – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [248], **GEO** [117], **ARM** [297], **KAZ** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [37, 212]
- Tortella** (Müll.Hal.) Limpr. [Pottiaceae]
- *alpicola* Dixon – **RUS-EUR**: NE [166], N-UR [325], S-UR [325], CAUC [231], **UZB** [325], **KYR** [325], **RUS-AS**: ARC-ESIB [164, 325], S-SIB [325], E-SIB [163], YAK [239, 325], ARC-FE [325], N-FE [161], S-FE [114]
- *arctica* (Arnell) Crundw. & Nyholm – **RUS-AS**: ARC-ESIB [164, 212], E-SIB [126, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-ESIB [50], ARC-FE [40, 212], N-FE [140]

- *bambergeri* (Schimp.) Broth. – **RUS-EUR**: CAUC [226]
  - *?brotheri* (Lindb. ex Broth.) Broth. – **GEO** [102] — {196}
  - *flavovirens* (Bruch) Broth. – **RUS-EUR**: CAUC [232]
  - *fragilis* (Hook. & Wilson) Limpr. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: K [328], **RUS-EUR**: ARC [47, 150, 415], NW [212, 273, 364, 407], NE [207, 212], C [212, 304], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296, 356], **TUR** [296], **TAD** [294, 295], **KYR** [267, 296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [77, 109, 212] — {197}
  - *humilis* (Hedw.) Jenn. – **UKR**: C [66, 413], M [66], K [66, 328], **RUS-EUR**: S-UR [150], **GEO** [102]
  - *inclinata* (R.Hedw.) Limpr. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NE [415], S-UR [91], CAUC [226], **GEO** [117], **AZE** [277], **TAD** [295], **RUS-AS**: S-SIB [69, 70], ARC-YAK [47, 36], YAK [239]
  - *nitida* (Lindb.) Broth. – **KAZ** [59]
  - *rigens* Alberts. – **EST** [237]
  - *tortuosa* (Hedw.) Limpr. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [150, 207, 212], S-UR [150, 207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 267, 296, 356], **TUR** [295], **TAD** [294, 295], **KYR** [267, 296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]
- Tortula* Hedw. [Pottiaceae], see also *Syntrichia laevipila*, *S. ruralis*, *S. virescens*, etc., *Hilpertia vele-novskyi*
- *acaulon* (With.) R.H.Zander (*Phascum cuspidatum* Hedw., *P. piliferum* Hedw.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], KLN [309], C [207, 212, 345], N-UR [150], S-UR [150, 207], SE [207, 212], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [267, 296], **UZB** [296], **TAD** [294, 295], **KYR** [296, 349, 351], **RUS-AS**: W-SIB [265], S-SIB [69], YAK [239], ARC-FE [40], N-FE [40]
  - *afanassievii* Laz. – **TAD** [295]
  - *altaica* Sakauova & Mamatkulov, nom. nud. – **KAZ** [296]
  - *altipes* (Broth.) R.H.Zander – **TAD** [295], **KYR** [295]
  - *atrovirens* (Sm.) Lindb. – **RUS-EUR**: CAUC [102, 212, 231, 248, 250], **GEO** [117], **ARM** [297], **TUR** [11, 296], **UZB** [295], **TAD** [295], **KYR** [296]
  - *brevissima* Schiffn. – **TUR** [11, 296], **KYR** [351], **TAD** [295]
  - *canescens* Mont. – **UKR**: C [66, 413], M [66], K [328], **ARM** [342], **TUR** [267, 296]
  - *caucasica* Lindb. ex Broth. (*Pottia caucasica* (Lindb. ex Broth.) Paris) – **GEO** [102]
  - *cernua* (Huebener) Lindb. (*Desmatodon cernuus* (Huebener) Bruch et al.) – **LAT** [3], **UKR**: M [66], **RUS-EUR**: NW [85, 212, 364], C [207], **KAZ** [295], **TAD** [295], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70, 212], E-SIB [163], ARC-YAK [47, 239], YAK [239], ARC-FE [40], N-FE [77, 140]
  - *cuneifolia* (Dicks.) Turner – **BEL** [355], **UKR**: M [66], **KAZ** [157], **UZB** [295], **TAD** [294, 295], **KYR** [296]
  - *fiori* (Venturi) G.Roth – **TUR** [11] — {197}
  - *grandiretis* Broth. – **TUR** [296], **UZB** [267, 296, 385], **TAD** [296], **KYR** [296]
  - *hoppeana* (Schultz) Ochyra (*Desmatodon latifolius* (Hedw.) Brid., *Tortula eurhyphylla* R.H.Zander – **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150, 415], NW [212, 273, 364, 407], C [207, 345], N-UR [150, 207, 212, 415], S-UR [150, 207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [296, 356], **TAD** [294, 295], **UZB** [267], **KYR** [296, 349, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [39, 164], S-SIB [69, 70, 212], E-SIB [69], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [114, 212, 221]
  - *inermis* (Brid.) Mont. (*Syntrichia inermis* (Brid.) Bruch) – **UKR**: K [328], **RUS-EUR**: S-UR [150], CAUC [231, 232, 250], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [393], **TUR** [267, 295, 296], **UZB** [267, 296], **TAD** [294, 295], **KYR** [267, 296, 349, 351]

- *lanceola* R.H.Zander (*Pottia lanceolata* (Hedw.) Müll.Hal.) – **LTV** [244], **EST** [237], **BEL** [355], **UKR**: C [66, 413], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: KLN [309], C [207, 345], SE [207, 212, 377], CAUC [232], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157], **TUR** [296]
- *laurei* (Schultz) Lindb. (*Desmatodon laurei* (Schultz) Bruch et al.) – **KAZ** [157, 296, 356], **TAD** [295], **KYR** [296], **RUS-AS**: ARC-ESIB [246], S-SIB [69, 70, 212], E-SIB [163], ARC-YAK [47, 239], ARC-FE [40, 212]
- *lazarenkoi* L.I.Savicz – **TUR** [296], **TAD** [295], **KYR** [267, 295, 296]
- *leucostoma* (R.Br.) Hook. & Grev. (*Desmatodon leucostoma* (R.Br.) Berggr., *D. suberectus* (Drumm.) Limpr.) – **RUS-EUR**: ARC [47, 150, 415], **KAZ** [296, 356], **TAD** [294, 295], **KYR** [296], **RUS-AS**: ARC-ESIB [164, 212], S-SIB [70, 212], E-SIB [163], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [40]
- *lindbergii* Kindb. (*Pottia lindbergii* (Kindb.) Warnst.) – **GEO** [102]
- *lingulata* Lindb. – **LAT** [3], **EST** [237], **UKR**: M [66], **RUS-EUR**: NW [207], C [207], CAUC [248], **GEO** [117], **TAD** [294]
- *marginata* (Bruch et al.) Spruce (*Desmatodon meridionalis* Luisier) – **TAD** [34, 295]
- *modica* R.H.Zander (*Pottia intermedia* (Turner) Fűrnr.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207], KLN [309], C [207, 345], S-UR [150, 207], SE [207], **GEO** [117], **RUS-AS**: W-SIB [265], S-SIB [424]
- *mucronifolia* Schwägr. – **UKR**: M [66], K [66, 328], **RUS-EUR**: ARC [47, 150], NW [364, 407], NE [207, 212, 415], C [207, 212, 345], N-UR [90, 150, 207], S-UR [150, 207], SE [207, 212], CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [156, 159, 296], **TUR** [296], **TAD** [294, 295], **KYR** [267, 296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76]
- *muralis* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], NE [207, 212], KLN [309], C [207, 212], S-UR [150, 207], SE [207, 212], CAUC [208, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [159, 295, 296], **TUR** [295, 296], **TAD** [294, 295], **KYR** [267, 296, 351], **RUS-AS**: S-SIB [69, 70], E-SIB [162], YAK [239]
- *muralis* var. *aestiva* Hedw. – **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: C [207, 212], N-UR [207], S-UR [207, 212], CAUC [231], **GEO** [117], **ARM** [297], **AZE** [277], **TUR** [295, 296], **TAD** [295], **KYR** [296], **RUS-AS**: YAK [239]
- *obtusifolia* (Schwägr.) Mathieu – **LTV** [244], **RUS-EUR**: C [207, 212], S-UR [150, 207], CAUC [102], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157], **UZB** [267, 295, 296], **TAD** [294, 295], **KYR** [267, 296], **RUS-AS**: W-SIB [265], S-SIB [70, 212], E-SIB [126, 212], YAK [239], N-FE [40, 140]
- *paulsenii* Broth. – **TAD** [295]
- *protobryoides* R.H.Zander (*Pottia bryoides* (Dicks.) Mitt., *Protobryum bryoides* (Dicks.) J.Guerra & M.J.Cano) – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], M [66], **MLD** [367], **RUS-EUR**: NW [207], NE [415], KLN [309], C [207, 345], S-UR [150, 207], SE [207, 212], **ARM** [297], **AZE** [277], **TUR** [296], **TAD** [294, 295], **KYR** [349, 351]
- *raddei* Broth. – **TUR** [295], **TAD** [295]
- *randii* (Kenn.) R.H.Zander (*Desmatodon oxneri* Laz., *D. randii* (Kenn.) Laz.) – **LAT** [3], **EST** [237], **UKR**: M [66]
- *revolutifolia* Laz. – **TUR** [267, 295, 296], **UZB** [267, 295], **TAD** [295], **KYR** [267, 296]
- *revolvens* (Schimp.) G.Roth – **TUR** [296], **TAD** [295]
- *subulata* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: KLN [309], C [207, 212, 345], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [157, 159, 296, 356], **TUR** [295, 296], **UZB** [295, 296], **TAD** [294, 295, 296], **KYR** [267, 296]
- *systylia* (Schimp.) Lindb. (*Desmatodon systylius* Schimp.) – **RUS-EUR**: CAUC [212, 231], **GEO** [117], **KAZ** [157], **TAD** [295], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70, 197, 212], ARC-YAK [47, 239], YAK [239], ARC-FE [40, 212], N-FE [140]

- *thianschanica* Broth. – **KAZ** [59], **TUR** [296], **UZB** [385], **TAD** [294, 295], **KYR** [267, 295, 296]
- *trachyphylla* Broth. (*Semibarbula trachyphylla* (Broth.) Laz. ex Mamatkulov) – **TUR** [267, 296], **KAZ** [59], **UZB** [296], **TAD** [294, 295, 296], **KYR** [296] — {198}
- *transcaspica* Broth. – **TUR** [295, 296], **UZB** [385], **TAD** [295]
- *truncata* (Hedw.) Mitt. (*Pottia truncata* (Hedw.) Bruch et al.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207, 407], NE [207, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207], SE [207], CAUC [55, 212, 232], **GEO** [117], **AZE** [277], **RUS-AS**: ARC-ESIB [164], W-SIB [265, 275], S-SIB [431], S-FE [76, 212]
- *ucrainica* (Laz.) R.H.Zander (*Desmatodon ucrainicus* Laz.) – **UKR**: M [66], **RUS-AS**: ?S-FE [76]
- *vahliana* (Schultz) Mont. – **AZE** [429]
- Trachycystis* Lindb. [Mniaceae]
- *flagellaris* (Sull. & Lesq.) Lindb. – **RUS-AS**: N-FE [94, 140], S-FE [76, 77, 109, 212]
- *microphyllus* (Dozy & Molk.) Lindb. – **RUS-AS**: S-FE [76, 212]
- *ussuriensis* (Maack & Regel) T.J.Kop. – **RUS-EUR**: CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **RUS-AS**: S-SIB [69, 197, 212], E-SIB [70, 212], YAK [239], ARC-FE [40], N-FE [140], S-FE [76, 109, 212]
- Trematodon* Michx. [Bruchiaceae]
- *ambiguus* (Hedw.) Hornsch. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: M [66], **RUS-EUR**: NW [207, 273, 364, 407], NE [90, 207, 212, 416], KLN [309], C [207, 212, 345], CAUC [231], **GEO** [117], **RUS-AS**: ARC-FE [40], N-FE [40, 140], S-FE [76, 77, 110]
- *brevicollis* Hornsch. – **RUS-EUR**: NW [364], **KAZ** [104], **KYR** [104, 296], **RUS-AS**: S-SIB [69, 70]
- *longicollis* Michx. – **RUS-AS**: N-FE [235], S-FE [212, 221]
- Trichodon* see *Ditrichum cylindricum*
- Trichostomopsis* see *Didymodon*
- Trichostomum* Bruch [Pottiaceae], see also *Oxystegus tenuirostris*
- *arcticum* Kaal. – **RUS-AS**: ARC-ESIB [164, 212], S-SIB [69, 70, 212], E-SIB [69, 212], ARC-YAK [47, 239], YAK [212, 239], ARC-FE [40], N-FE [40, 94]
- *brachydontium* Bruch – **EST** [396], **UKR**: C [66], K [66, 328], **RUS-EUR**: CAUC [208, 212, 232, 248], **GEO** [117], **RUS-AS**: S-FE [340] — {199}
- *connivens* (Lindb. ex Broth.) Paris – **RUS-EUR**: CAUC [102], **GEO** [117]
- *crispulum* Bruch (*T. brevifolium* Sendtn. ex Müll.Hall., *T. viridulum* Bruch) – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], K [66, 328], **RUS-EUR**: NW [207], NE [207, 212, 415], C [207, 212, 345], N-UR [90, 150, 207, 212], S-UR [207, 212], SE [207], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **TAD** [294, 295], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], E-SIB [163, 275], YAK [239], ARC-FE [40], N-FE [40], S-FE [76, 212]
- *triumphans* De Not. (*Weissia triumphans* (De Not.) M.O.Hill) – **TUR** [11, 296]
- *viridulum* Bruch – **UKR**: C [66], K [66, 328], **AZE** [277]
- Tuerckheimia svihlae* (E.B.Bartram) R.H.Zander – excluded — {200}
- Ulota* D.Mohr [Orthotrichaceae]
- *bruchii* Hornsch. ex Brid. – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], **RUS-EUR**: KLN [309]
- *coarctata* (P.Beauv.) Hammar – **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66, 413], M [66, 148], **RUS-EUR**: KLN [309], CAUC [55, 212]
- *crispa* (Hedw.) Brid. (*U. crispula* Bruch ex Brid.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [100, 207, 212], KLN [309], C [207, 212], CAUC [55, 208, 212, 231, 248], **GEO** [117], **ARM** [297], **KAZ** [296, 356], **RUS-AS**: S-SIB [70, 212, 217], E-SIB [74, 212, 247], N-FE [140], S-FE [76, 77, 109, 212]
- *curvifolia* (Wahlenb.) Lilj. – **EST** [237], **RUS-EUR**: ARC [47, 150], NW [212, 273, 364, 407], N-UR [150, 212, 416], S-UR [150, 207], CAUC [248], **ARM** [297], **KAZ** [296, 356], **RUS-AS**: S-SIB [69, 70, 212, 217], E-SIB [69, 212], YAK [239], ARC-FE [40, 212], N-FE [40, 94, 95], S-FE [212, 221]
- *drummondii* (Hook. & Grev.) Brid. – **LAT** [4], **EST** [237], **UKR**: C [66, 413], **RUS-AS**: N-FE [140], S-FE [76, 77, 109]
- *hutchinsiae* (Sm.) Hammar (*U. americana* (P. Beauv.) Limpr.) – **EST** [396], **UKR**: C [66], **RUS-EUR**:

- NW [407], CAUC [55, 212], **AZE** [277], **RUS-AS**: S-SIB [70, 212, 217]
- *japonica* (Sull. & Lesq.) Mitt. – **RUS-AS**: S-FE [77, 109]
- *phyllantha* Brid. – **RUS-EUR**: NW [364]
- *rehmannii* Jur. – **UKR**: C [66, 413], **GEO** [117], **RUS-AS**: S-SIB [197, 212, 217]
- *reptans* Mitt. – **RUS-AS**: S-FE [212, 221]
- Vesicularia* (Müll.Hal.) Müll.Hal. [\*Hypnaceae]
- *flaccida* (Sull. & Lesq.) Z.Iwats. – **RUS-AS**: S-FE [76, 212]
- Voitia* Hornsch. [Splachnaceae]
- *hyperborea* Grev. & Arn. – **RUS-EUR**: ARC [47, 341], **RUS-AS**: ARC-FE [40]
- *nivalis* Hornsch. – **TAD** [296], **KYR** [296, 351], **RUS-AS**: S-SIB [69, 70, 212]
- Warnstorfia* Loeske [Calliergonaceae] — {165}
- *exannulata* (Bruch et al.) Loeske (*Drepanocladus exannulatus* (Bruch et al.) Warnst., *Sarmentypnum exannulatum* (Bruch et al.) Hedenäs) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 156, 356], **TAD** [267, 294, 296], **KYR** [296, 351], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 70, 212], E-SIB [69, 212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [76, 77, 109, 212]
- *fluitans* (Hedw.) Loeske (*Drepanocladus fluitans* (Hedw.) Warnst., *D. h-schulzei* (Limpr.) Loeske, *D. kurilensis* Smirnova, *Warnstorfia fluitans* var. *falcata* (Sanio ex C.E.O.Jensen) H.A.Crum & L.E.Anderson, *W. h-schulzei* (Limpr.) Loeske, *W. kurilensis* (Smirnova) Schljakov) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], **RUS-EUR**: ARC [47, 127, 150], NW [207, 212, 364, 407], NE [207, 212, 415], KLN [309], C [207, 212], N-UR [150, 207], S-UR [150, 207, 212], SE [207, 212], CAUC [55, 212, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [158, 296, 356], **TAD** [294, 296], **KYR** [296], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [69, 212], E-SIB [69], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [77, 109, 212, 369]
- *procera* (Renauld & Arnell) Tuom. (*Drepanocladus procerus* (Renauld & Arnell) Warnst., *Sarmentypnum procerum* (Renauld & Arnell) Hedenäs) – **EST** [237], **RUS-EUR**: NW [87, 273, 407], **RUS-AS**: ARC-ESIB [212, 263], ARC-FE [40]
- *pseudosarmentosa* (Cardot & Thér.) Tuom. & T.J.Kop. (*Sarmentypnum pseudosarmentosum* (Cardot & Thér.) Hedenäs) – **RUS-AS**: ARC-FE [40]
- *pseudostraminea* (Müll.Hal.) Tuom. & T.J.Kop. (*Drepanocladus pseudostramineus* (Müll.Hal.) G.Roth) – **UKR** [66], **RUS-EUR**: ARC [47, 150], NW [212, 273, 291, 364], NE [414], C [207, 212], N-UR [150, 207, 212], S-UR [150, 207, 212], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212], W-SIB [212, 265], S-SIB [197, 212], ARC-YAK [47, 239], ARC-FE [40], N-FE [40, 140]
- *sarmentosa* (Wahlenb.) Hedenäs (*Calliergon sarmentosum* (Wahlenb.) Kindb., *Sarmentypnum sarmentosum* (Wahlenb.) Tuom. & T.J.Kop.) – **RUS-EUR**: ARC [47, 127, 150], NW [212, 273, 364, 407], NE [207, 212, 415], N-UR [150, 207, 212], S-UR [150], ?CAUC [231], **KAZ** [356], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], W-SIB [265], S-SIB [69, 70, 212], E-SIB [212, 275], ARC-YAK [47, 212, 239], YAK [212, 239], ARC-FE [40, 212], N-FE [94, 140], S-FE [212, 221]
- *trichophylla* (Warnst.) Tuom. & T.J.Kop. (*Drepanocladus trichophyllus* (Warnst.) Podp., *Sarmentypnum trichophyllum* (Warnst.) Hedenäs) – **LAT** [3], **EST** [237], **RUS-EUR**: NW [61, 364, 407], NE [288], **RUS-AS**: ARC-WSIB [136], YAK [239], S-FE [245]
- *tundrae* (Arnell) Loeske (*Drepanocladus tundrae* (Arnell) Loeske, *Sarmentypnum tundrae* (Arnell) Hedenäs) – **LTV** [244], **LAT** [3], **EST** [237], **RUS-EUR**: ARC [47], NW [212, 364, 407], **RUS-AS**: ARC-WSIB [136], ARC-ESIB [164, 212, 275], S-SIB [69, 70], E-SIB [275], ARC-YAK [239], YAK [212, 239], ARC-FE [40], N-FE [140], S-FE [212, 221]
- Weissia* Hedw. [Pottiaceae]
- *brachycarpa* (Nees & Hornsch.) Jur. (*Hymenostomum microstomum* (Hedw.) R.Br. ex Nees & Horn-



- sch.) – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: KLN [309], C [207, 212, 345], S-UR [150, 207, 212], SE [207], CAUC [55, 102, 212, 231, 248], **GEO** [102, 117], **ARM** [297], **KAZ** [157, 159, 393], **TUR** [295], **TAD** [294, 295], **KYR** [296], **RUS-AS**: ARC-ESIB [164], W-SIB [265], S-SIB [69, 70, 212], S-FE [76, 212]
- *condensa* (Voit) Lindb. (*W. tortile* (Schwägr.) Müll.Hal.) – **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: CAUC [102, 212, 231], **GEO** [102, 117], **ARM** [297], **AZE** [277], **KAZ** [157, 159, 296], **TUR** [267, 296], **TAD** [295], **KYR** [267, 296, 351], **RUS-AS**: S-SIB [70, 212]
- *controversa* Hedw. – **LTV** [244], **LAT** [3], **EST** [237], **BEL** [355], **UKR**: C [66], M [66], K [66, 328], **RUS-EUR**: NW [207], KLN [309], C [207, 212, 345], S-UR [91, 150, 207, 212], SE [207], CAUC [212, 231, 248], **GEO** [117], **ARM** [297], **AZE** [277], **KAZ** [23, 157, 159], **TUR** [296], **TAD** [294, 295], **KYR** [296, 351], **RUS-AS**: W-SIB [265], S-SIB [69, 70, 212], ARC-FE [40], N-FE [140], S-FE [76, 77, 212]
- *edentula* Mitt. – **RUS-AS**: S-FE [212, 221]
- *exserta* (Broth.) P.C.Chen – **TUR** [296], **TAD** [295], **RUS-AS**: S-SIB [197, 212], E-SIB [162]
- *fallax* Sehm. (*W. controversa* var. *crispata* (Nees & Hornsch.) Nyholm) – **UKR**: M [66], K [66, 328], **MLD** [367], **RUS-EUR**: CAUC [248], **GEO** [117], **AZE** [277], **ARM** [342], **TAD** [295]
- *krassavinii* (Laz.) Laz. ex Ochrya – **KAZ** [393], **TUR** [296], **TAD** [294, 295], **KYR** [267, 296]
- *levieri* (Limpr.) Kindb. (*Astomum levieri* Limpr.) – **UKR**: [66], K [328], **MLD** [367], **RUS-EUR**: C [207], SE [207], CAUC [232], **GEO** [117], **ARM** [297]
- *longifolia* Mitt. (*Astomum crispum* (Hedw.) Hampe) – **UKR**: C [66], M [66], K [66, 328], **MLD** [367], **RUS-EUR**: NW [207], C [207, 212, 345], S-UR [150, 207], SE [207], CAUC [231], **GEO** [102, 117], **ARM** [297], **RUS-AS**: S-SIB [338]
- *papillosissima* Laz. – **TUR** [296], **TAD** [295]
- *planifolia* Dixon (*W. platyphylla* Broth.) – **RUS-AS**: S-FE [76]
- *rostellata* (Brid.) Lindb. – **UKR**: C [66, 413], **RUS-EUR**: SE [207], CAUC [231]
- *rutilans* (Hedw.) Lindb. – **UKR**: C [66, 413], M [66], **RUS-EUR**: S-UR [150, 373], **GEO** [117], **TAD** [295], **RUS-AS**: S-FE [76, 212]
- *squarrosa* (Nees & Hornsch.) Müll.Hal. (*Hymenostomum squarrosus* Nees & Hornsch.) – **LTV** [244], **EST** [237], **RUS-EUR**: S-UR [207]
- *tyrrhena* M.Fleisch. – **TUR** [267, 295, 296], **TAD** [294, 295], **KYR** [267, 296]
- *wimmeriana* (Sendtn.) Bruch et al. (*W. controversa* var. *wimmeriana* (Sendtn.) Blockeel & A.J.E.Sm.) – **RUS-EUR**: NW [364], CAUC [212, 231], **GEO** [102], **ARM** [297], **TUR** [296], **RUS-AS**: S-SIB [212, 334]
- Zygodon** Hook. & Taylor [Orthotrichaceae]
- *conoideus* (Dicks.) Hook. & Taylor – excluded — {201}
- *dentatus* (Limpr.) Kartt. (*Z. viridissimus* var. *dentatus* Limpr.) – **UKR**: C [403], **GEO** [117]
- *rupestris* Schimp. ex Lorentz (*Z. viridissimus* var. *rupestris* Hartm.) – **LTV** [244], **LAT** [3], **UKR**: C [403], K [328, 403], **RUS-EUR**: NW [407], CAUC [232, 250] — {200}
- *sibiricus* Ignatov, Ignatova, Z.Iwats. & B.C.Tan – **RUS-EUR**: NE [414], C [207, 212, 343], N-UR [150], S-UR [150, 207], **RUS-AS**: ARC-WSIB [265\*], S-SIB [210, 212], E-SIB [210, 212], YAK [239], N-FE [140\*], S-FE [114, 210, 212, 221] — {200}
- *viridissimus* (Dicks.) Brid. – **LTV** [244], **LAT** [3], **EST** [237], **UKR**: C [66], K [66, 328], **RUS-EUR**: CAUC [18, 102], **GEO** [117], **AZE** [277], **RUS-AS**: S-FE [76] — {202}

## ANNOTATIONS

1. It seems that numerous records of *Aloina ericaefolia* in publications of the beginning of XX century belong in fact not to *A. ambigua*, but to *A. rigida*.
2. Abramova & Abramov [22] recorded *Anacamptodon splachnoides* for Irkutsk Province and Primorsky Territory; Bardunov & Cherdantseva [76] thought that in the latter region it is likely a misidentification of *A. latidens*; Czernyadjeva (unpubl.) referred both these Asian collections to *A. latidens*.
3. According to Schljakov [pers. comm.] his record of *Andreaea rothii* from S-UR maybe belongs to *A. heinemannii*.
4. Hill & al. [190] accepted *Anomobryum concinatum* as a separate species, mainly because of strong differences in sporophyte structure; different authors in Russia are inconsistent in delimitation and distribution of *A. concinatum* and *A. julaceum*, sometimes treating them as synonymous; revision of the whole material is obviously needed.
5. In synonymization of *Anomodon minor* ssp. *integerrimus* with *A. minor* we follow Granzow-de la Cerda [179] and Iwatsuki [242].
6. Virchenko [399] reidentified *Atractylocarpus alpinus* from Ukraine (where it was reported by Savicz-Lyubitskaya & Smirnova [361]) and Russian Far East (where it was reported by Bardunov & Cherdantseva [77]).
7. Smith [371] synonymized *Atrichum rhystophyllum* with *A. angustatum*; however Iwatsuki [242] kept them as separate species.
8. According to Cherdantseva (unpubl.), records of *Atrichum tenellum* from Primorsky Territory [76] are erroneous; some other records from the eastern limit of this species are also doubtful.
9. *Aulacomnium androgynum* was reported from Asian Russia only from Sakhalin by Sugawara [376]; this record has to be confirmed.
10. Molecular phylogenetic analysis of Pedersen & Hedenäs [331] revealed that *Bardunovia baicalensis* is very similar in sequences to *Platydictya*, thus Hedenäs & Pedersen [189] transferred it to the latter genus.
11. Corley & al. [121] put *Brachytheciastrum collinum* into the synonymy of *B. fendleri*, and some records of the latter species were published e.g. for Middle Asia; the real relationship of these two species, as well as the occurrence of *B. fendleri* outside North America needs further studies.
12. According to Ignatov (in prep.) plants called *Brachytheciastrum trachypodium* from Siberia and Middle Asia are not identical to the Central European ones and have to be separated to its own species.
13. Mamatkulov [294, 296] also reported for Tadjikistan *Brachythecium velutinum* var. *condensatum* Bruch et al.; this taxon is not accepted by recent European authors [e.g. 190].
14. New system for the family Brachytheciaceae has been suggested by Ignatov & Huttunen [205].
15. Hoffmann [191] synonymized *Brachythecium auriculatum* with *Palamocladium leskeoides*, however Ignatov & al. [215] demonstrated that this suggestion can not be accepted.
16. According to Cherdantseva (unpubl.), *Brachythecium campestre* was erroneously reported from the Russian Far East; Hedenäs [186] published useful discussion on the circumscription of this species.
17. *Brachythecium caucasicum* Thér. was described from Adzharia from a sterile specimen; it belongs to *B. salebrosum* complex, but study of additional material from that area is needed to understand its identity.
18. Record of *Brachythecium coruscum* from RUS-EUR: N-UR [230], also repeated in [150], is erroneous.
19. *Brachythecium erythrorrhizon* was reported from various parts of Asian Russia, but all revised specimens were found to be ssp. *asiaticum*; ssp. *erythrorrhizon* definitely occurs only in NW European Russia and Baltic countries; however a lot of material remains unrevised.
- 19a. *Brachythecium frigidum* is a North American species and its record from Kazakhstan seems to be doubtful.
20. Specimens identified as *Brachythecium wichurae* were found to belong to *B. complanatum*, a superficially similar species [215]; however the former species can be discovered in the Russian Far East; the earlier name for *B. wichurae* is *B. garovaglioides* Müll.Hal.
21. Records of *Brachythecium tommasinii* from RUS-EUR: NE [415] were found to be erroneous [90].
22. Recent molecular phylogenetic studies of *Bryum* revealed that this genus is not monophyletic; *Bryum* s. str. includes species around *B. argenteum*, *B. dichotomum* and *B. caespiticium*, while species around *B. capillare*, *B. pallens*, *B. pseudotriquetrum*, *B. purpurascens*, *B. wrightii* are more related to *Plagiobryum* and are better placed in this genus [332], and species of *B. alpinum* complex into *Imbribryum* N.Pedersen [330]; we think this will be accepted in the future, but here we retain *Bryum* s.l. because for quite many taxa we have no definite opinion to which genus they belong.
23. Many species of *Bryum* from East Europe and North Asia are known solely or almost only from the original collections; they include: *B. alexandri*, *B. altai-cum*, *B. amblyphyllum*, *B. axillare*, *B. congestiflorum*, *B. crassimucronatum*, *B. cremocarpum*, *B. ehlei*, *B. enisseense*, *B. leucoglyphodon*, *B. microcalophyllum*, *B. mollifolium*, *B. mucronifolium*, *B. obtusidens*, *B. pallescens* var. *microblastum*, *B. pootonense*, *B. pallescens* var. *turkestanicum*, *B. pamirense*, *B. pamiromucronatum*, *B. pygmaeomucronatum*, *B. spinifolium*, *B. subcalophyllum*, *B. submucronatum*, *B. ter-*

- skeiense*, *B. tessellatum*, *B. timmiostomoides*, *B. utriculatum*, *B. vernum*, *B. zemliae*.
24. Recently Holyoak [192] synonymized *Bryum amblyodon* with *B. archangelicum*; however according to Zolotov [420] these species in Russia lack intermediates and can be accepted.
  25. Recently Holyoak [192] synonymized *Bryum bryoides* and *B. purpurascens* with *B. arcticum*; however according to Zolotov [420] two latter species in Russia lack intermediates and can be accepted; *Bryum bryoides* is rare in Russia, preventing a final decision on this species.
  26. Recently Holyoak [192] synonymized *Bryum axelblyttii* with *B. calophyllum*; however according to Zolotov [420] these species in Russia are rather well delimited and can be accepted.
  27. Synonymy of *Bryum comense* was discussed by Hill et al. [190].
  28. Dyachenko [151] reported *Bryum stirtonii* from Northern Ural and suggested that it is a good species, however Holyoak [192] considered it as a synonym of *B. elegans*.
  29. *Bryum jeniseense* is an orthographical error in Ignatov & Afonina [199], Savicz-Lyubitskaya & Smirnova [361], etc.; correct name is *B. enisseense*.
  30. Recently Holyoak [192] placed *Bryum nitidulum* into the synonymy of *B. intermedium*, but here two species are considered as separate ones.
  31. The species status of *Bryum lapponicum* has been confirmed by Schljakov & Konstantinova [364], but they overlooked that the name is illegitimate and has to be replaced.
  32. There is a disagreement between Holyoak [192] and Zolotov [418] on the species independence of *B. pallescens* and *B. lonchocaulon* (*B. cirrhatum*); some publications accept *B. pallescens* s.l. (incl. *B. cirrhatum*), they are included under both *B. pallescens* and *B. lonchocaulon* with asterisk.
  33. According to the recent revision by Afonina [40], *Bryum neodamense* does not occur in RUS-AS: ARC-FE, where it has been reported [e.g. 38, 212]; Holyoak & Hedenäs [420] provided strong evidence for synonymization of these two species despite their large superficial difference.
  34. *Bryum tardum* is a little known species, sometimes referred to the synonymy of *B. lonchocaulon*; the only record of *B. tardum* from RUS-EUR (NW [364]) is based on a specimen referred by Zolotov to *B. creberrimum*. *Bryum tenuisetum* was reported from the Baltic region by Düll [154], but we don't know any exact reference. *Bryum planiusculum* was synonymized with *B. turbinatum* by Zolotov [420]. Records of *Bryum turbinatum* from Chukotka were based on specimens reidentified by Schljakov and Zolotov as *B. schleicheri*.
  35. According to Frisvoll [172] and Ignatova (unpubl.), all records of *Bucklandiella* (*Racomitrium*) *heterostichum* from the Asian Russia, Urals and Middle Asia [e.g. 76, 77, 90, 109, 150, 212, 296] were based on a broad concept of *B. heterosticha* (incl. *B. microcarpa* and *B. sudetica*), and belong now to other species.
  36. The volume of the genus *Calliergonella* was expanded by Hedenäs [185]; all subsequent molecular phylogenetic data confirmed this suggestion.
  37. Hedenäs [187] suggested that the *Campylium hispidulum* complex should be included in *Campylophyllum*; molecular phylogenetic analysis of Ignatov & al. [204] however supports an alternative suggestion of Ochyra & al. [316] who separate them as a genus of its own.
  38. Old records of *Campylidium hispidulum* from Russia were based on the broad concept of this species; then Crundwell & Nyholm [124] then considered it as a North American species not occurring in Europe; later Hedenäs [187] found it in Japan; material from Asian Russia obviously needs special revision; differences between *C. hispidulum* and *C. sommerfeltii* are rather small, so American authors doubt the distinctness of these taxa [e.g. 122].
  39. The generic placement of *Campylium longicuspis* was discussed by Hedenäs [183].
  40. According to Hedenäs [187], *Campylium squarrosulum* is probably close to *Amblystegium radicale*, and should be better classified in that genus.
  41. Many authors did not separate *Campylium stellatum* and *C. protensum*, so at least some records of *C. stellatum* should be referred to this species in the broad sense, e. g. including *C. protensum*.
  42. The systematic position of *Campylostelium* (*Grimmia*) *pitardii* (= *Usmania campylopoda*) was discussed by Maier [279].
  43. According to Ulychna [cf. 413] the only record of *Campylostelium strictum* in Ukraine is doubtful.
  44. In taxonomy and synonymy of *Ceratodon heterophyllus* we follow Burley & Pritchard [108].
  45. *Cinclidium minutifolium* was synonymized with *C. latifolium* by Mogensen [300]; T. Koponen (in 'Notae criticae' in H) supported this decision.
  46. Specimen called *Claopodium crispifolium* in LE was reidentified by A.L. Abramova and V. Ya. Cherdantseva as *C. pellucinerve*.
  47. Position of *Anomodon rostratus* within *Claopodium* has been discussed by Ignatov & al. [204].
  48. Record of *Cnestum glaucescens* from S-UR [150] was erroneous [cf. 207].
  49. All Asian records of *Codriophorus* (*Racomitrium*) *aciculare*, according to Bednarek-Ochyra [81], belong to other species.
  50. Asian records of *Codriophorus* (*Racomitrium*) *aquaticus*, according to Bednarek-Ochyra [81], be-

- long to other species.
51. There are several collections from Asian Russia that fit *Coscinodon humilis* Milde in gametophytic characters, but without sporophyte or careful comparison with plants with sporophytes this is only a preliminary identification.
  52. *Ctenidium capillifolium* and *Neckeropsis nitidula* were reported from South Sakhalin only by Sugawara [376]; their occurrence has to be confirmed.
  53. Records of *Ctenidium molluscum* from Urals [cf. 150] were not confirmed in the herbarium [cf. 207].
  54. Preliminary revision of Ignatova (in prep.) of *Cynodontium asperifolium*–*C. fallax* complex demonstrates that all records of *C. fallax* from Asian Russia and Urals belong in fact to *C. asperifolium*; it seems that *C. fallax* occurs in Russia only in Caucasus.
  55. Werner [409] demonstrated numerous differences between *Dichodontium pellucidum* and *D. flavescens*, supporting the status of separate species for the latter.
  56. Systematic position of *Dicranella palustris* was revised by Stech [375] based on molecular data.
  57. According to Ignatov (unpubl.) *Dicranella heteromalla* var. *curvipes* from Sakhalin and Kuriles is markedly different from *D. heteromalla* and has to be segregated as a separate species.
  58. Records of *Dicranoweisia cirrata* from the Northern Russia and Urals [e.g. 150] seem to be erroneous: this species occurs in Russia only in Caucasus at Black Sea coast, on *Juniperus* and *Curpessus* [cf. 232].
  59. *Dicranum orientale* from Siberia was described by Otnyukova [320] one year later than *D. dispersum* from Europe; these species were synonymized by Otnyukova & Ochyra [326].
  60. *Dicranum tundrae* has been synonymized with *D. elongatum* by Savicz-Lyubitskaya & Smirnova [361], however Ignatova [224] found that this taxon may need further studies. *Dicranum atratum* Geh. was referred to *D. elongatum* by Savicz-Lyubitskaya & Smirnova [361].
  61. Records of East Asian species *Dicranum hamulosum* and *Oncophorus crispifolius* from Kazakhstan [356] seem to be doubtful.
  62. Many previous records of *Dicranum muehlenbeckii* belong to *D. brevifolium*, *D. dispersum*, etc., and the real range of this species is obviously more limited than those found from literature records.
  63. The status of *Dicranum spadiceum* Zett. var. *subscabrifolium* Schljak. is probably higher than a variety [224], however its distribution is not well known; it occurs at least on Kola Peninsula, in Caucasus, Urals and South Siberia.
  64. Records of *Dicranum spurium* from N-UR [150, 230] were found to be erroneous [207].
  65. According to Virchenko (unpubl.), a record of *Dicranum viride* from Crimea [66] belongs in fact to *D. tauricum*.
  66. There is a certain inconsistency in the circumscription of *Didymodon acutus* and *D. icmadophilus* between different authors, thus their distribution needs a major revision; many previous records of *D. acutus* were not confirmed [e.g. 207].
  67. Schljakov [363] considered *Didymodon gorodkovii* as a species; the combination in the status of variety was published by Afonina: *Didymodon asperifolius* var. *gorodkovii* (Abramova & I.I. Abramov) Afonina, Problemy Bryologii 13, 1989 (basonym: *Didymodon rufus* var. *gorodkovii* Abramova & I. I. Abramov, Trudy Arkt. i Antark. Nauchn.-Issl. Inst. 224: 220. 1963). This combination was not included in supplements to Index Muscorum.
  68. *Didymodon incrassatus* was synonymized with *D. australasiae* by Jiménez & al. [243].
  69. Numerous records of *Didymodon vinealis* from the Middle European Russia and Urals were found to be erroneous [207].
  70. Large plants of *Ditrichum flexicaule* were treated by Frisvoll [171] in a separate species, *D. crispatisimum*; the earlier name for the latter being *D. gracile*; their differences were nicely illustrated recently by Lüth [276]; in Russia distribution of these taxa remains poorly known, partly due to them not being considered as good species [cf. 207].
  71. Ignatov & Ignatova [207] lectotypified the genus *Drepanium* with *Drepanium (Stereodon) recurvatum*.
  72. The taxonomy of *Encalypta rhamnocarpa*-group remains not totally resolved; Horton [193] segregated the group of *E. rhamnocarpa* without a peristome, but left it without any formal name; some old publications referred these eperistomate plants to *E. spathulata* or *E. trachymitria*; Horton however demonstrated that the real *E. spathulata* is distinct, whereas Mogensen [301] showed that *E. trachymitria* has a peristome, although quite different from that of *E. rhamnocarpa*; thus at the moment eperistomate *E. rhamnocarpa* remains unnamed, and records of *E. spathulata* or *E. trachymitria* seem to belong mainly (if not totally) to eperistomate *E. rhamnocarpa*.
  73. Horton [193] demonstrated that all Asian collections of *Encalypta procera-streptocarpa* complex belong to *E. procera* and suggested that *E. streptocarpa* does not occur in Asia; the occurrence of the latter species in Ural Mountains is also problematic, despite numerous records.
  74. Asian collections of *Encalypta vulgaris* often intergrade with eperistomate *E. rhamnocarpa* and may represent just a variety of the latter species.
  75. *Entodon cladorrhizans* was excluded from bryoflora of Russia by Ignatov & al. [200].

76. *Entodon sinense* was synonymized with *E. giraldii* by Tan [378].
77. According to Abramov & al. [10], all specimens reported from KAZ [155, 296] and TAD as *Entosthodon attenuatus* belong in fact to *Funaria aequidens*.
78. All records of *Entosthodon fascicularis* from Urals [cf. 150] seem to be erroneous [cf. also 207]; Abramov & al. [10] also did not confirm the records from Middle Asia.
79. Taxonomy of *Entosthodon (Funaria) muhlenbergii*-group of species has been revised by Nyholm & Grundwell [125], and according to their approach all the records from Russia proved to be *E. pulchellus*; however numerous records are based on still unrevised collections.
80. *Ephemerum minutissimum* is treated by some authors as only an infraspecific unit of *E. serratum* and reported under the latter name without recognition of subspecies or varieties; for example, in Latvia the latter species was reported [e.g. 3] although all the records in fact belong to the former taxon [2].
81. Records of *Eucladium verticillatum* from South Siberia [e.g. 197, 70] were not confirmed by recent revision of Ignatova.
82. Records of *Eurhynchium striatum* from Siberia [cf. 70] obviously belong to *E. angustirete*, as it is true also for many old records from East Europe.
83. According to Cherdantseva (unpubl.), record of *Fabronia matsumurae* from Russian Far East [199] was based on the misidentification of *F. ciliata*.
84. Abramova & Abramov [22] recorded *Fabronia pusilla* for Irkutsk Province, but no specimens are found in LE; more likely this is a misidentification of *F. ciliaris*.
85. Taxonomy and distribution of *Fissidens arcticus* was discussed by Czernyadjeva [134].
86. Bruggeman-Nannega [see 190] argued that *Fissidens gymnanthus*, *F. incurvus*, *F. viridulus* are good species; in Russia they were considered for a long time within the circumscription of *F. bryoides* s.l., thus data on their distribution are too fragmentary and obviously inadequate.
87. The occurrence of *Fissidens gracilifolius* in North Asia has to be confirmed.
88. Savicz-Lyubitskaya & Smirnova [361] synonymized *Fissidens karataviensis* with *F. grandifrons*, however Mamatkulov [295, 296] accepted the former species.
89. According to Gorobets [178], all records of *Fissidens osmundoides* from Primorsky Territory [e.g. in 76] belong in fact to *F. gymnogynus*; however *F. osmundoides* occurs in Khabarovsk Territory [e.g. 221].
90. *Fissidens pusillus*-group badly needs revision: during its complicated taxonomic and nomenclatural history this species once was considered in broad sense, including what is called now *F. gracilifolius*, and maybe some records belong to that species.
91. According to Cherdantseva, records of *Fontinalis dalecarlica* from RUS-AS: S-FE are erroneous.
92. Report of *Funaria microstoma* from RUS-EUR: NE, Komi Republic, is doubtful.
93. *Grimmia mesopotamica* was synonymized with *G. capillata* by Muñoz & Pando [306].
94. Numerous records of *Grimmia montana* were erroneous due to misinterpretation of diagnostic characters of this species for example in Russia, this is a very rare species [234].
95. *Grimmia muehlenbeckii* was treated by some authors as a variety of *G. trichophylla*, and some publications reported *G. trichophylla* s.l., obscuring distribution of these two species; according to Muñoz & Pando [306], all the records of *G. trichophylla* east of Poland belong in fact to *G. muehlenbeckii*; all the revised material from Russia agrees with this conclusion, but material from Baltic and Caucasian countries is still awaiting a revision.
96. Records of *Grimmia ovalis* from the Polar Ural [150] and North Ural [415, 150] were not confirmed by Ignatova & Muñoz [234].
97. Muñoz & Pando [306] failed to find the type of *Grimmia laevidens* and did not comment it; Greven [180] included this species into the synonymy of *G. sessitana*.
98. Greven [180] considered *Grimmia crassifolia* as a species of its own, but Ignatova & Muñoz [234] synonymized it with *G. tergestina*.
99. No correctly identified specimen of *Grimmia trichophylla* from Russia has been found during the revision of Ignatova & Muñoz [234]; however no collections from Kaliningrad Province were studied, and material from other countries also was not in the focus of that study.
100. Records of *Grimmia unicolor* from the North Ural [150, 415] were not confirmed by Ignatova & Muñoz [234].
101. Species of *Gymnostomum* (especially *G. aeruginosum*–*G. calcareum*) in Russia need total revision; descriptions in different publication treat species limits in different ways.
102. Paratypes of *Gymnostomum boreale* were cited in the original description as being from Finland, but currently their localities are situated within Russian Karelia.
103. The only record of *Haplocladium angustifolium* from Middle European Russia is from Zhiguli Reserve by Mordvinov [304]; additional confirmation is needed; a record of this species for Caucasus by Ignatov & al. [212] is erroneous.
104. Ivanova & al. [239] did not confirm the occurrence of *Herzogiella turfaca* in Arctic Yakutia.
105. *Homalia japonica* was referred to *H. trichoma-*

- noides* by Iwatsuki [242]; in the monograph of the genus, He [181] considered it as a subspecies *H. trichomanoides* ssp. *japonica* (Besch.) S.He.
106. *Homalia woronowii* described from Adzharia was synonymized with *H. webbiana* by He [181]; the latter species is otherwise known only from Macaronesia.
107. Many authors include *Hymenoloma compactum* (*Dicranoweisia compacta*) into *H. crispulum*, as a synonym or variety; however it is considered as an independent species and recorded for UKR: C [66], RUS-EUR: NW [361, 84], KAZ [356], RUS-AS: S-SIB [70].
108. *Hycomium armoricum* was reported by Ignatov & Afonina [199] based on the record of Düll [154], without any exact reference.
109. *Hypnum densirameum* was reported from RUS-AS: S-FE [76], but Afonina reidentified the specimen as *Stereodon fauriei*.
110. All records of *Hypnum imponens* from Asian Russia are probably erroneous; Ivanova & al. [239] excluded it from the moss flora of Yakutia.
111. *Hypnum jutlandicum* is close to *H. cupressiforme*, and sometimes is considered as its variety *H. cupressiforme* var. *ericetorum* Bruch et al.
112. Kruijer [259] revised the genus *Hypopterygium*, and synonymized *H. japonicum* with *H. flavolimbatum*.
113. Churchill [119] synonymized *Jaffueliobryum latifolium* with *J. wrightii*, however Ignatov & Cao Tong [202] considered *J. latifolium* as a species of its own.
114. *Kindbergia praelonga* (*Eurhynchium praelongum*) was reported from many areas, but, for example, in Russia no correct records other than in Caucasus were proved (Ignatov, unpubl.); however a record from Kaliningrad Province is likely to be correct.
115. *Leptodontium styriacum* was synonymized with *L. flexifolium* by Ignatov & al. [201].
116. He [182] published a world revision of *Leptopterigynandrum*, recognizing three species in Russia and few more in neighboring regions of Mongolia and China; the record of *Leptopterigynandrum austro-alpinum* from Ural Mts. [416] was erroneous.
117. Records of *Lescurea mutabilis* from Siberia and northern part of Urals are doubtful and probably belong to *L. saxicola*, which was included in *L. mutabilis* in some earlier taxonomic treatments.
118. Caucasian collections referred to *Lindbergia brachyptera* are treated here as a separate species, *L. grandiretis* (Ignatov & Ignatova, unpubl.).
119. *Meesia longiseta* was erroneously reported from Russian part of Caucasus by Onipchenko & Ignatova [318].
120. The circumscription of genera of Pottiaceae is given according to Zander [411]; the main difference from the previous check-list is the inclusion of most species referred to *Desmatodon*, *Pottia* and *Phas-*
- cum* to the genus *Tortula*, although some species of these genera are transferred to *Microbyum*; also, *Tortula ruralis* and similar species are segregated into the genus *Syntrichia*.
121. Records of *Mnium hornum* from eastern parts of European Russia including Urals were reidentified [cf. 207]; Asian records are also doubtful, and plants from East Asia were referred to a separate species, *Mnium orientale* R.E. Wyatt, Odrzykoski & T.J. Kop., that however still was not found in the Russian Far East.
122. Koponen [253a] synonymized *M. magnirete* with *M. ambiguum*. Later Koponen [253b] synonymized *M. ambiguum* and *M. laevinerve* with *M. lycopodioides*, but some authors, e.g. Czernyadjeva [140] thought that *M. laevinerve* is a good species.
123. Ignatov (unpubl.) found that the holotype of *Pseudoleskea korjakorum* belongs to *Myrinia pulvinata*.
124. *Myurella tenerrima* was reported from RUS-AS: S-FE [212], basing on Lazarenko's record for Kedrovaya Pad Reserve, which is likely an error; recent list of mosses of this reserve [174] does not include this species.
125. The only population of *Myuroclada* in Europe is a result of unintentional introduction in botanical garden of Rostov-na-Donu city [207, 404].
126. Records of *Orthothecium rufescens* from the Arctic [e.g. 47] and Siberia proved to be *O. chryseon*, cf. [200].
127. Records of *Orthotrichum affine* from Kamchatka are dubious [140], and all so-called collections from the southern Russian Far East were found to be *O. sordidum* (Cherdantseva, unpubl.).
128. Judging from the illustration in Eremina [155], *Orthotrichum laevigatum* from Kazakhstan belongs to *O. iwatsukii*; other records outside Arctic also likely belong to *O. iwatsukii*.
129. *Orthotrichum sibiricum* was synonymized with *O. pallens* by Lewinsky [270].
130. *Orthotrichum stellatum* was reported with a question mark by Ignatov & Afonina [199] for RUS-AS: S-FE; however, no collections of this species are known.
131. Recent revision of Cherdantseva (unpubl.) revealed that all records of *Oxyrrhynchium hians* from southern Russian Far East belong to *Bryhnia*.
132. All records of *Oxyrrhynchium schleicheri* from Russia (except Caucasus and maybe also Kaliningrad Province) and Kazakhstan are doubtful (all checked specimens were reidentified).
133. Many old records of *Oxyrrhynchium speciosum* from Russia were reidentified.
134. Many authors considered *Palustriella falcata* as a variety or synonym of *P. commutata*, thus the distribution of the former species is not well known.

135. Ignatov reported *Philonotis mollis* for Altai [117], but later Koponen (unpubl.) reidentified this material as *P. falcata*.
136. According to Cherdantseva (unpubl.), the record of *Philonotis seriata* from Kuril Islands [77] belongs to *P. yezoana*.
137. According to Koponen [252], *Plagiomnium elatum* and *P. affine* are absent in North Asia and all previous records were erroneous; the old species concept of *P. affine* included *P. ellipticum*, so older records may imply the latter species.
138. According to Cherdantseva (unpubl.), all records of *Plagiomnium rostratum* from Russian Far East are erroneous.
139. Record of *Plagiomnium undulatum* from Ural [150] seems to be erroneous.
140. Ukrainskaya [390] provided description and distribution map of *Plagiothecium berggrenianum* in Russia.
141. *Plagiothecium cordifolium* and *P. platycladum* reported from Russian Far East by Lazarenko [268] are little known species, more likely synonymous with some other species.
142. Records of *Plagiothecium curvifolium* from Russian Far East has to be confirmed since the Pacific population seems to be quite isolated from the European one.
143. Records of *Plagiothecium neckeroideum* in RUS-AS (S-FE [76]) were based on the erroneous identifications of *P. euryphyllum* (Cherdantseva, unpubl).
144. According to Ukrainskaya [389] numerous records of *Plagiothecium piliferum* from Russia were based mainly on misidentifications of *Isopterygiopsis mueleriana*; she cited only one correctly identified specimen from Yakutia [389], but later confirmed some specimens from NW European Russia [cf. 207].
145. We think that *Plagiothecium succulentum* is not a good species and must be synonymized either with *P. cavifolium*, or with *P. nemorale*.
146. Records of *Pleuridium acuminatum* from Russian Far East [e.g. 361] were obviously based on the confusions in its synonymy with *P. subulatum*; Matsui & Iwatsuki [298] synonymized *P. acuminatum* with *P. subulatum*, but European [e.g. 190] authors usually keep them separate.
147. *Pogonatum dentatum* is rapidly spreading in East Europe, where it was known before only in mountain and arctic regions (cf. Hyvonen [195]).
148. Records of *Pogonatum inflexum* from Georgia belong to *P. neesii* [56].
149. Records of *P. leucostoma* (= *P. gracillima*) from Primorsky Territory (RUS-AS: S-FE [76]), according to revision of Czernyadjeva [131], belong to *P. proligera*; East Siberian plants were not revised by her, but likely also belong to *P. proligera*.
150. *Pohlia torrentium* is usually not separated from *P. filum*, although some authors suggest recognizing it as a species [364, 40].
151. *Polytrichum commune* var. *perigoniale* (Michx.) Hampe, or *P. perigoniale* Michx., is sometimes considered as a distinct taxon, but more commonly is not separated from *P. commune*; its distribution can not be well understood based on the relatively scarce available records; Hill & al. [190] do not accept this variety and *P. commune* var. *humilis* Sw., but accepted *Polytrichum uliginosum* (Wallr.) Schriebl (= *P. commune* var. *uliginosum* Wallr.); the latter taxon was reported in Russia by Savicz-Lyubitskaya & Smirmova [361], who mentioned its distribution as not different from *P. commune*; further confirmation however is needed for separating this species from *P. commune*.
152. According to Fedosov & Ignatova [165], all Siberian records of *Pseudocrossidium hornschurchianum* and all Russian records of *P. revolutum* were based on erroneously identified specimens.
153. *Leskeella incrassata* was described from GEO [102] and subsequently reported in ARM [297] and AZE [277]; however, the distinction between *P. nervosa* and *L. incrassata* seems to be unstable: bistratose lamina, the main diagnostic character of the species, occurs sporadically in southern population of the latter species and if this character is accepted as of taxonomic importance, then the distribution of these two taxa must be totally reconsidered.
154. All checked collections of *Psilopilum* from non-Arctic regions of South and Eastern Siberia were found to belong to *Oligotrichum falcatum* [238].
155. Pisarenko [337] found that on salty soils in South Siberia and Kazakhstan plants occur with phenotypes transitional between *Pterygoneurum kozlovii* and *P. subsessile*.
156. Oesau [317] suggested that plants from the SE European Russia belong to *P. papillosum* Oesau that was recently described from the Central Europe; Russian material has to be revised to understand the status and distribution of this taxon.
157. Arikawa [64] demonstrated by molecular phylogenetic methods that plants of "*Pylaisia polyantha*" from the Far East of Russia markedly different from the European one; he referred the former to *P. curvimeae*, a species described from Central China.
158. According to Arikawa [64], *Pylaisia intricata* occurs only in North America, and Asian plants commonly called *P. intricata* belong to *P. stereodontooides*.
159. *Pylaisiadelpha yokohamae* (Broth.) W.R. Buck was considered as a synonym of *P. tenuirostris* by Abramova & Abramov [33] and Iwatsuki [241], but in more recent papers by Tan & Jia Yu [380] and Iwatsuki [242] these species are recognized as distinct; Russian material may belong to both species, but critical revision

- is needed; *Clastobryella kusatsuensis* (Besch.) Z.Iwats. reported from RUS-AS (S-FE [76, 77]) is a synonym of *Pylaisiadelphus yokohamae* [242].
160. According to Koponen & Afonina [253c] *Rhizomnium punctatum* is absent in Far East of Russia; Ivanova & al. [239] excluded it from the moss flora of Yakutia.
161. According to Gorobets [178], all records of *Rhodobryum roseum* from Primorsky Territory [e.g. 76] belong to *R. ontariense*; however the former species occurs in Khabarovsk Territory [e.g. 221]
162. The record of *Rhynchostegium confertum* in Russian Far East [268] seems doubtful, no record of this species east of Caucasus has been confirmed by Ignatov (unpubl.)
163. Huttunen & al. [194] demonstrated that European and Asian plants, commonly referred to *Rhynchostegium (Platyhypnidium) riparioides* belong to two rather unrelated species; the plants from Siberia and Far East maybe have to be called *Rhynchostegium muelleri* A. Jaeger.
164. Ignatov & Ignatova [207] segregated species of *Rhytidiadelphus squarrosus*-group as a new genus *Rhytidiastrum*; however they thought that the type genus of *Rhytidiadelphus* is *R. triquetrus*, omitting earlier lectotypification by Grout, who lectotypified the genus with *R. squarrosus*; before the nomenclature of *Rhytidiadelphus* s.l. is finally fixed we prefer to accept this genus in the traditional circumscription.
165. Recently Hedenäs [188] found that monoicous and dioicous species of *Warnstorfia* were well separated in phylogenetic analysis, and thus he suggested all dioicous species should be placed in the genus *Sarmentypnum*.
166. Many records of *Schistidium apocarpum* were based on the broad concept of this species *S. apocarpum* s. l., which includes about 40 «narrow» species in East Europe and North Asia.
167. Recent revision of Ignatova did not confirm the presence of *Schistidium confertum* in Russia, although it possibly occurs in Caucasus.
168. Many records of *Schistidium strictum* were based on the previous broad concept of this species. However according to Blom [97], *S. strictum* does not occur on the territory of the present check-list; most previous records of this species should be referred now to *S. papillosum* and *S. boreale*.
169. *Eurhynchium altaicum* Ignatov was described from a single plant [198]; new collections from the type locality allow us to understand its position in the genus *Sciuro-hypnum* (Ignatov, unpubl.).
170. Record of *Sciuro-hypnum latifolium* from Caucasus [212] was erroneous.
171. Distribution and taxonomy of *Scouleria* in Russia is discussed by Kurbatova [260].
172. Siberian records of *Seligeria diversifolia* have to be confirmed; some of so-named collections from this region were reidentified as *S. campylopoda*. The record from South Urals was erroneous [cf. 302].
173. Mogensen & Goldberg [302] reidentified specimen from Vishera Reserve (N-UR) as *S. galinae*, therefore the record of *S. donniana* in [212] is erroneous.
174. Partial revision of collections of *Seligeria polaris* from South Siberia revealed that some of them belong to other species; currently this species is known only from Arctic and Subarctic regions.
175. The occurrence of *Seligeria trifaria* in Siberia should be confirmed; partial revision revealed that some of so-called collections belong to *S. tristichoides*.
176. Corley & al. [121] synonymized *Sphagnum jensenii* with *S. annulatum*, and some authors followed this suggestion and reported *S. annulatum* from certain areas of Russia; Flatberg [169] considered these species as distinct; according to Maksimov (unpubl.) the *S. annulatum* s.str. is definitely known only from NW European Russia.
177. According to Abolina (pers. com.) Latvian plants of *Sphagnum imbricatum* complex belong to *S. austinii*.
178. Semenov [365] described four species of *Sphagnum* from Altai: *S. elenkinii*, *gordjaginii*, *krylovii*, *vereschaginii*; Savicz [357] heavily criticized quite incomplete descriptions, suggesting simply to ignore these species. However these descriptions are valid, and the search of types is necessary to elucidate their identity.
179. Previous broad concept of *Sphagnum imbricatum* included numerous records from other regions: LTV [244], LAT [3], BEL [58], RUS-EUR (ARC [47], NW[407], KLN [310]), GEO [117], RUS-AS (ARC-WSIB [136], W-SIB [265], ARC-YAK [47, 239]); here however we follow the narrow concept of Flatberg [168, 190], who left in *S. imbricatum* only East Asian plants, referring European species to *S. austinii* and *S. affine*, and arctic species to *S. steerei*; additional study is needed however to understand identity of e. g. West Siberian plants.
180. Ignatov & Ignatova [207] lectotypified the genus *Stereodon* with *Stereodon callichrous* (Brid.) Braithw. (= *Hypnum callichroum* Brid.).
181. According to revision of Afonina [41], in Russia *Stereodon (Hypnum) callichrous* occurs only in Europe, and some specimens from Far East possibly belong to *Hypnum callichroum* var. *japonicum* Ando, while many other records were based on *Stereodon holmenii*.
182. According to Ignatov & al. [200], all Asian collections cited as *Hypnum fertile* belong in fact to *Stereodon fauriei*.
183. *Stereodon holmenii* has been discovered in many parts of Russia in the course of recent revision by Afonina [45].
184. Ivanova & al. [239] excluded *Stereodon palle-*



- scens* from Yakutia, where it was reported previously [e. g. 212, 47].
185. The combination *Stereodon procerrimus* (Molendo) Bauer, Musci Eur. Exsic., ser. 34: 6, No 1694. 1924, based on *Hypnum procerrimum* Molendo, Flora 49: 458. 1866 was not included in Index Muscorum and in Tropicos database.
186. Records of *Stereodon (Hypnum) tristo-viride* from RUS-AS (S-FE) in Ignatov & Afonina [199] were based on misidentifications.
187. Tan & al. [379] found that *Cephalocladium zervovii* described from South Siberia belongs to the genus *Struckia*; however the identity of the Siberian *Struckia* was resolved differently [cf. 216].
188. There is no agreement on the status of *Syntrichia calcicola* among recent authors [cf. 173 and 394].
189. *Syntrichia pagorum* was synonymized with *S. laevipila* by Gallego [173].
190. According to Bachurina & Melnichuk [66], *Tetradontium ovatum* is not different from *T. repandum*, although Hill & al. [190] keep them as separate species.
191. Generic concepts in Thuidiaceae are mainly according to Touw [383].
192. Touw [383] put *Thuidium philibertii* into synonymy of *T. assimile*.
193. Records of *Thuidium tamariscinum* from N-UR, S-UR [150] were not confirmed [207].
194. Record of *Timmia megapolitana* from CAUC [212] was erroneous, excluded in Ignatova & al. [231].
195. According to the original description, *Timmiella corniculata* does not differ from *T. barbuloides* in the main diagnostic characters; type material is absent in LE and H; the very scanty material in S lacks sporophytes that are essential for the identification *Timmiella* species; judging from the description and also from the fact that *T. barbuloides* is quite common in Pacific North-West of North America we preliminarily include *T. corniculata* in *T. barbuloides*.
196. *Tortella brotheri* is a neglected taxon whose real identity needs further studies.
197. Corley & al. [121] synonymized *Tortula fiori* with *T. revolvens*, however Abramov & al. [11] keep them as separate species.
198. Mamatkulov validated combination *Semibarbula trachyphylla* (Broth.) Laz. ex Mamatkulov, Fl. Bryoph. Tadjik SSR 1: 186. 1990, that was suggested by Lazarenko without citing of basyonym.
199. *Trichostomum brachydontium* was reported for Russian Far East by Podpera [340]; Bardunov & Cherdantseva [76] considered this record as doubtful.
200. *Tuerckheimia svihlae* was erroneously reported by Ignatov for Altai [198].
201. Records of *Zygodon conoideus* from Siberia and Far East were based on *Z. sibiricus*, a recently described species that differs from *Z. rupestris* in presence of a peristome [210]; thus the presence of the latter species in Russia in the regions other than Caucasus and Karelia are questionable; however some authors thought that this difference is rather insufficient and further studies may show identity of *Z. sibiricus*, and *Z. rupestris* [410].
202. *Zygodon viridissimus* was often recorded sensu lato, including *Z. rupestris* and *Z. sibiricus*, thus their distribution has to be revised; *Z. viridissimus* from Carpathians [66] has been referred by Virchenko [403] to *Z. rupestris* and *Z. dentatus*.

## SYNONYMS

- Abietinella abietina* var. *hystricosa* (Mitt.) Sakurai = *Abietinella abietina*  
 — *hystricosa* (Mitt.) Broth. = *Abietinella abietina*  
*Acrocladium cuspidatum* (Hedw.) Lindb. = *Calliergonella cuspidata*  
*Aloina ericaefolia* Kindb. = *Aloina ambigua*  
*Amblystegiella confervoides* (Brid.) Loeske = *Serpoleskea confervoides*  
 — *jungermannioides* (Brid.) Giacom. = *Platydictya jungermannioides*  
 — *sprucei* (Bruch) Loeske = *Platydictya jungermannioides*  
 — *subtilis* (Hedw.) Loeske = *Serpoleskea subtilis*  
*Amblystegium compactum* (Drumm. ex Müll. Hal.) Austin = *Conardia compacta*  
 — *confervoides* (Brid.) Bruch et al. = *Serpoleskea confervoides*  
 — *curvipes* Schimp. = *Hygroamblystegium humile*  
 — *fluviatile* (Hedw.) Bruch et al. = *Hygroamblystegium fluviatile*  
 — *humile* (P. Beauv.) Crundw. = *Hygroamblystegium humile*  
 — *jungermannioides* (Brid.) A. J. E. Sm. = *Platydictya jungermannioides*  
 — *juratzkanum* Schimp. = *Amblystegium serpens* var. *juratzkanum*  
 — *kochii* Schimp. = *Hygroamblystegium humile*  
 — *palustre* (Brid.) Lindb. = *Hygrohypnum luridum*  
 — *rigescens* Limpr. = *Amblystegium serpens*  
 — *riparium* (Hedw.) Bruch et al. = *Leptodictyum riparium*  
 — *saxatile* Schimp. = *Amblystegium radicale*  
 — *sprucei* (Bruch) Bruch et al. = *Platydictya jungermannioides*  
 — *subtile* (Hedw.) Bruch et al. = *Serpoleskea subtilis*  
 — *tenax* (Hedw.) C. E. O. Jensen = *Hygroamblystegium tenax*  
 — *varium* (Hedw.) Lindb. = *Hygroamblystegium varium*  
*Andreaea amurensis* Broth. = *Andreaea rupestris*  
 — *assimilis* Müll. Hal. = *Andreaea rupestris* var. *papillosa*  
 — *compacta* Müll. Hal. = *Andreaea rupestris* var. *papillosa*

- *cuspidata* Müll.Hal. = *Andreaea rupestris* var. *papillosa*  
 — *fauriei* Besch. = *Andreaea alpestris*  
 — *filiformis* Müll.Hal. = *Andreaea alpestris*  
 — *hartmanii* Thed. = *Andreaea obovata*  
 — *krauseana* Müll.Hal. = *Andreaea obovata*  
 — *papillosa* Lindb. = *Andreaea rupestris* var. *papillosa*  
 — *patens* Müll.Hal. = *Andreaea rupestris* var. *papillosa*  
 — *petrophila* Ehrh. ex Fürnr. = *Andreaea rupestris*  
 — *planinervis* Lindb. ex G.Roth = *Andreaea heinemannii*  
*Anisothecium crispum* (Hedw.) C.E.O.Jensen = *Dicranella*  
*crispa*  
 — *grevilleanum* (Brid.) Arnell & C.E.O.Jensen = *Dicranella*  
*grevilleana*  
 — *humile* (R.Ruthe) Lindb. = *Dicranella humilis*  
 — *palustre* (Dicks.) I.Hagen = *Dichodontium palustre*  
 — *rigidulum* (Hedw.) C.E.O.Jensen = *Dicranella humilis*  
 — *rubrum* Lindb. = *Dicranella varia*  
 — *rufescens* (Dicks.) Lindb. = *Dicranella rufescens*  
 — *schreberianum* (Hedw.) Dixon = *Dicranella schreberiana*  
 — *staphylinum* (H.Whitehouse) Sipman, Rubers & Rie-  
 mann = *Dicranella staphylina*  
 — *vaginale* (Dicks.) Loeske = *Dicranella crispa*  
 — *varium* (Hedw.) Mitt. = *Dicranella varia*  
*Anoetangium amurense* Broth. = *Anoetangium thomsonii*  
 — *contortum* Broth. = *Anoetangium thomsonii*  
 — *schliephackei* (Limpr. ex Schlieph.) Paris = *Molendoa*  
*schliephackei*  
 — *sendtnerianum* Bruch et al. = *Molendoa sendtneriana*  
 — *tenuinerve* (Limpr.) Paris = *Molendoa tenuinervis*  
*Anomobryum concinatum* (Spruce) Lindb. = *Anomo-*  
*bryum julaceum* var. *concinatum*  
*Anomodon apiculatus* Sull. = *Anomodon rugelii*  
 — *flagelliformis* (L.I.Savicz) Granzow = *Haplohymenium*  
*flagelliforme*  
 — *longinervis* Broth. = *Haplohymenium longinerve*  
 — *minor* subsp. *integerrimus* (Mitt.) Z.Iwats. = *Anomo-*  
*don minor*  
 — *rostratus* (Hedw.) Schimp. = *Claopodium rostratum*  
 — *tristis* (Ces.) Sull. & Lesq. = *Haplohymenium triste*  
*Aongstroemia fuji-alpina* (Takaki) Z.Iwats. = *Aongstro-*  
*emia julacea*  
*Aphanorrhagma patens* (Hedw.) Lindb. = *Physcomitrella*  
*patens*  
*Astomum crispum* (Hedw.) Hampe = *Weissia longifolia*  
 — *crispum* var. *philibertii* (Husn.) Wijk & Margad. =  
*Weissia levieri*  
 — *levieri* Limpr. = *Weissia levieri*  
*Atrichum anomalum* Milde = *Polytrichastrum longisetum*  
 — *haussknechtii* Jur. & Milde = *Atrichum flavisetum*  
 — *laevifolium* (Lindb. & Arnell) Paris = *Atrichum flavi-*  
*setum*  
 — *undulatum* var. *gracilisetum* Besch. = *Atrichum flavi-*  
*setum*  
 — *undulatum* var. *haussknechtii* (Jur. & Milde) Frye =  
*Atrichum flavisetum*  
*Aulacomnium palustre* var. *imbricatum* Bruch et al.  
 = *Aulacomnium palustre*  
*Barbula acuta* (Brid.) Brid. = *Didymodon acutus*  
 — *acuta* var. *icmadophila* (Schimp. ex Müll.Hal.)  
 H.A.Crum = *Didymodon icmadophilus*  
 — *andreaeoides* Kindb. = *Didymodon subandreaeoides*  
 — *asperifolia* Mitt. = *Didymodon asperifolius*  
 — *cordata* (Jur.) Loeske = *Didymodon cordatus*  
 — *cylindrica* (Taylor) Schimp. = *Didymodon insulanus*  
 — *decurrens* Laz. = *Didymodon tophaceus*  
 — *ehrenbergii* (Lorenz) M.Fleisch. = *Didymodon tophaceus*  
 — *fallax* Hedw. = *Didymodon fallax*  
 — *fallax* var. *reflexa* (Brid.) Brid. = *Didymodon ferrug-*  
*ineus*  
 — *ferruginea* Schimp. ex Besch. = *Didymodon ferrugineus*  
 — *ferruginascens* Stirt. = *Bryoerythrophyllum ferrugi-*  
*nascens*  
 — *gigantea* Funck = *Didymodon giganteus*  
 — *gracilis* Schwägr. = *Didymodon acutus*  
 — *hornschuchiana* Schultz = *Pseudocrossidium*  
*hornschuchianum*  
 — *icmadophila* Schimp. ex Müll.Hal. = *Didymodon ic-*  
*madophilus*  
 — *incrassata* Lindb. ex Broth. = *Didymodon australasiae*  
 — *johansenii* R.S.Williams = *Didymodon johansenii*  
 — *lurida* Hornsch. = *Didymodon luridus*  
 — *obtusifolia* Schwägr. = *Tortula obtusifolia*  
 — *perobtusata* (Broth.) P.C.Chen = *Didymodon perobtusata*  
 — *recurvifolia* Schimp. = *Didymodon ferrugineus*  
 — *recurvirostris* (Hedw.) Dixon = *Bryoerythrophyllum*  
*recurvirostrum*  
 — *reflexa* (Brid.) Brid. = *Didymodon ferrugineus*  
 — *reflexa* var. *robusta* Braithw. = *Didymodon maximus*  
 — *revoluta* Brid. = *Pseudocrossidium revolutum*  
 — *rigidula* (Hedw.) Milde = *Didymodon rigidulus*  
 — *rotundata* Lindb. & Arnell = *Bryoerythrophyllum ro-*  
*tundatum*  
 — *rubella* (Huebener) Mitt. = *Bryoerythrophyllum re-*  
*curvirostrum*  
 — *sinuosa* (Mitt.) Grav. = *Didymodon sinuosus*  
 — *spadicea* (Mitt.) Braithw. = *Didymodon spadiceus*  
 — *tophacea* (Brid.) Mitt. = *Didymodon tophaceus*  
 — *trifaria* (Hedw.) Mitt. = *Didymodon luridus*  
 — *vinealis* Brid. = *Didymodon vinealis*  
 — *vinealis* var. *cylindrica* (Taylor) Boulay = *Didymo-*  
*don insulanus*  
 — *vinealis* var. *flaccida* Bruch et al. = *Didymodon insu-*  
*lanus*  
*Bartramia crispa* Brid. = *Bartramia pomiformis*  
 — *deciduaefolia* Broth. & A.Yasuda = *Bartramia ithyphylla*  
 — *ithyphylla* var. *strigosa* (Wahlenb.) Hartm. = *Bartra-*  
*mia ithyphylla*  
 — *pomiformis* var. *crispa* (Brid.) Bruch et al. = *Bartra-*  
*mia pomiformis*  
*Blindia seligerioides* Lindb. ex Broth. = *Blindia acuta*  
*Brachythecium abakanense* Kaal. = *Brachythecium*  
*buchananii*  
 — *asperrimum* (Mitt. ex Müll.Hal.) Sull. = *Brachythe-*  
*cium turgidum*  
 — *bryhnii* (Kaurin) Kindb. = *Brachytheciastrum collinum*  
 — *collinum* (Schleich. ex Müll.Hal.) Bruch et al. =  
*Brachytheciastrum collinum*  
 — *curtum* (Lindb.) Limpr. = *Sciuro-hypnum oedipodium*  
 — *dovrense* (Limpr.) J.J.Amann = *Sciuro-hypnum gla-*  
*ciale* var. *dovrense*

- *eustegium* Besch. = *Eurhynchiaadelphus eustegius*
- *fendleri* auct. = *Brachytheciastrum collinum*
- *glaciale* Bruch et al. = *Sciuro-hypnum glaciale*
- *glaciale* var. *dovrense* Limpr. = *Sciuro-hypnum glaciale* var. *dovrense*
- *groenlandicum* (C.E.O.Jensen) Schljakov = *Brachythecium coruscum*
- *jeniseense* (Lindb. & Arnell) Paris = *Sciuro-hypnum starkei*
- *latifolium* Kindb. = *Sciuro-hypnum latifolium*
- *mildeanum* var. *udum* (I.Hagen) Mönk. = *Brachythecium udum*
- *oedipodium* (Mitt.) A.Jaeger = *Sciuro-hypnum oedipodium*
- *olympicum* Jur. = *Brachytheciastrum olympicum*
- *ornellanum* (Molendo) Venturi & Bott. = *Sciuro-hypnum ornellanum*
- *oxycladum* auct. non (Brid.) A.Jaeger = *Brachythecium laetum*
- *plumosum* (Hedw.) Bruch et al. = *Sciuro-hypnum plumosum*
- *populeum* (Hedw.) Bruch et al. = *Sciuro-hypnum populeum*
- *reflexum* (Starke) Bruch et al. = *Sciuro-hypnum reflexum*
- *rotaeaanum* De Not. = *Brachythecium capillaceum*
- *salebrosum* subsp. *rotaeaanum* (De Not.) J.J.Amann = *Brachythecium capillaceum*
- *salebrosum* subsp. *turgidum* (Hartm.) Hartm. = *Brachythecium turgidum*
- *salebrosum* var. *capillaceum* (F.Weber & D.Mohr) Lorentz = *Brachythecium capillaceum*
- *salicinum* Bruch et al. = *Brachytheciastrum velutinum*
- *starkei* (Brid.) Bruch et al. = *Sciuro-hypnum starkei*
- *starkei* var. *curtum* (Lindb.) Warnst. = *Sciuro-hypnum oedipodium*
- *starkei* var. *explanatum* auct. non (Brid.) Mönk. = *Sciuro-hypnum oedipodium*
- *thedenii* Bruch et al. = *Brachythecium erythrorrhizon*
- *trachypodium* (Brid.) Bruch et al. = *Brachytheciastrum trachypodium*
- *uncinifolium* Broth. & Paris = *Sciuro-hypnum uncinifolium*
- *uralense* Gorodkov = *Lescuraea secunda*
- *velutinum* (Hedw.) Bruch et al. = *Brachytheciastrum velutinum*
- *wichurae* (Broth.) Paris = *Brachythecium garovaglioides* Müll.Hal.
- Breidleria arcuata* (Molendo) Loeske = *Calliargonella lindbergii*
- Brotherella tenuirostris* (Sull.) Broth. = *Pylaisiadelpha tenuirostris* — {159}
- Brotherella yokohamae* (Broth.) Broth. = *Pylaisiadelpha tenuirostris* — {159}
- Bryhnia brachycladula* Cardot = *Bryhnia novae-angliae*
- *noesica* (Besch.) Broth. = *Bryhnia novae-angliae*
- Bryobrittonia pellucida* R.S.Williams = *Bryobrittonia longipes*
- Bryochenea sachalinensis* (Lindb.) Gao & Chang = *Echynophyllum sachalinense*
- Bryoerythrophyllum recurvirostrum* var. *dentatum* (Schimp.) H.A.Crum, Steere & L.E.Anderson = *B. alpigenum*
- Bryohaplocladium angustifolium* (Hampe & Müll.Hal.) R.Watan. & Z.Iwats. = *Haplocladium angustifolium*
- *microphyllum* (Hedw.) R.Watan. & Z.Iwats. = *Haplocladium microphyllum*
- *virginianum* (Brid.) R.Watan. & Z.Iwats. = *Haplocladium virginianum*
- Bryoxiphium savatieri* (Husn.) Mitt. = *Bryoxiphium norvegicum* var. *japonicum*
- Bryum acutum* Lindb. = *Bryum axel-blyttii*
- *affine* Lindb. & Arnell = *Bryum creberrimum*
- *algovicum* fo. *jailae* (Sapjegin) L.I.Savicz = *Bryum algovicum*
- *angustirete* Kindb. = *Bryum algovicum*
- *ardonense* Breidl. = *Bryum algovicum*
- *bicolor* Dicks. = *Bryum dichotomum*
- *blindii* var. *oblongum* (Lindb.) Mönk. = *Bryum oblongum*
- *blindii* subsp. *oblongum* (Lindb.) Kindb. = *Bryum oblongum*
- *caespiticium* subsp. *kunzei* (Hornsch.) Podp. = *Bryum kunzei*
- *caespiticium* var. *imbricatum* Bruch et al. = *Bryum kunzei*
- *caespiticium* var. *kunzei* (Hornsch.) Braithw. = *Bryum kunzei*
- *capillare* var. *elegans* (Nees) Husn. = *Bryum elegans*
- *capillare* var. *flaccidum* (Brid.) Bruch et al. = *Bryum moravicum*
- *cernuum* (Hedw.) Bruch et al. = *Bryum uliginosum*
- *cirrhatum* Hoppe & Hornsch. = *Bryum lonchocaulon*
- *cirrhatum* var. *affine* Podp. = *Bryum creberrimum*
- *comense* Schimp. = *Bryum caespiticium*
- *crispulum* Hampe = *Bryum pseudotriquetrum*
- *cuspidatum* (Bruch et al.) Schimp. = *Bryum creberrimum*
- *demissum* Hook. = *Plagiobryum demissum*
- *demissum* subsp. *hultenii* Ochi & Perss. = *Plagiobryum hultenii*
- *duvalii* Voit = *Bryum weigelii*
- *erythrocarpum* auct. = *Bryum* sect. *Erythrocarpa*
- *flaccidum* auct. = *Bryum moravicum*
- *imbricatum* auct. non (Schwägr.) Bruch et al. = *Bryum amblyodon*
- *inclinatum* (Sw. ex Brid.) Blandow = *Bryum amblyodon*
- *kaernbachii* Müll.Hal. = *Bryum capillare*
- *lacustre* (F.Weber & D.Mohr) Blandow = *Bryum knowltonii*
- *laetum* Lindb. = *Bryum oblongum*
- *laevifilum* Syed = *Bryum moravicum*
- *latifolium* (Schwägr.) Brid. = *Bryum schleicheri*
- *lisae* var. *cuspidatum* (Bruch et al.) Margad. = *Bryum creberrimum*
- *luridum* R.Ruthe = *Bryum arcticum*
- *mamillatum* Lindb. = *Bryum warneum*
- *microblastum* Müll.Hal. = *Bryum pallescens* var. *microblastum*
- *microerythrocarpum* Müll.Hal. & Kindb. ex Macoun = *Bryum subapiculatum*

- *obconicum* Hornsch. ex Bruch et al. = *Bryum palle-scens*
- *obtusifolium* Lindb. = *Bryum cryophilum*
- *oelandicum* H.Philib. = *Bryum warneum*
- *pallens* subsp. *lundstroemii* (Arnell) Podp. = *Bryum pallens*
- *paradoxum* H.Philib. = *Bryum terskeiense*
- *pendulum* (Hornsch.) Schimp. = *Bryum algovicum*
- *planiusculum* Lindb. & Arnell = *Bryum turbinatum*
- *pseudocrispulum* (Podp.) L.I.Savicz, nom. illeg. = *Bryum pseudotriquetrum*
- *pseudotriquetrum* subsp. *bimum* (Schreb.) Hartm. = *Bryum bimum*
- *purpurascens* var. *serotinum* (Lindb.) C.E.O.Jensen = *Bryum purpurascens*
- *saxatile* I.Hagen = *Bryum lonchocaulon*
- *schleicheri* var. *latifolium* (Schwägr.) Schimp. = *Bryum schleicheri*
- *serotinum* Lindb. = *Bryum purpurascens*
- *stirtonii* Schimp. = *Bryum elegans*
- *subelegans* auct. non Kindb. = *Bryum moravicum*
- *subglobosum* Schlieph. = *Bryum lonchocaulon*
- *subobtusifolium* Müll.Hal. = *Bryum cyclophyllum*
- *subrotundum* Brid. = *Bryum pallescens*
- *tortifolium* Brid. = *Bryum cryophilum*
- *turbinatum* subsp. *schleicheri* (Schwägr.) Kindb. = *Bryum schleicheri*
- *ventricosum* Relh. = *Bryum pseudotriquetrum*
- *ventricosum* var. *bimum* (Schreb.) Hampe = *Bryum bimum*
- *zieri* Hedw. = *Plagiobryum zieri*
- Buckiella undulata* (Hedw.) Ireland = *Plagiothecium undulatum*
- Buxbaumia indusiata* Brid. = *Buxbaumia viridis*
- Callialaria curvicaule* (Jur.) Ochyra = *Cratoneuron curvicaule*
- Calliargon cuspidatum* (Hedw.) Kindb. = *Calliargonella cuspidata*
- *richardsonii* var. *megalophyllum* (Mikut.) Meyl. = *C. megalophyllum*
- *richardsonii* var. *robustum* (Lindb. & Arnell) G.Roth = *Calliargon megalophyllum*
- *sarmentosum* (Wahlenb.) Kindb. = *Warnstorfia sarmentosa*
- *stramineum* (Dicks. ex Brid.) Kindb. = *Straminergon stramineum*
- *trifarium* (F.Weber & D.Mohr) Kindb. = *Pseudocalliergon trifarium*
- Camptothecium aureum* (Spruce) Bruch et al. = *Homalothecium aureum*
- *auriculatum* (A.Jaeger) Broth. = *Brachythecium auriculatum*
- *geheebii* (Milde) Kindb. = *Brachythecium geheebii*
- *lutescens* (Hedw.) Bruch et al. = *Homalothecium lutescens*
- *nitens* (Hedw.) Schimp. = *Tomentypnum nitens*
- *trichodes* Lindb. = *Tomentypnum nitens*
- Campyliadelphus polygamus* (Bruch et al.) Kanda = *Drepanocladus polygamus*
- *stellatus* (Hedw.) Kanda = *Campylium stellatum*
- Campylium adscendens* (Lindb.) Perss. = *Herzogiella adscendens*
- *arcticum* (R.S.Williams) Broth. = *Drepanocladus arcticus*
- *calcareum* Crundw. & Nyholm = *Campylidium calcareum*
- *chrysophyllum* (Brid.) Lange = *Campyliadelphus chrysophyllum*
- *elodes* (Lindb.) Kindb. = *Campyliadelphus elodes*
- *halleri* (Hedw.) Lindb. = *Campylophyllum halleri*
- *hispidulum* auct. non (Brid.) Mitt. = *Campylidium [sommerfeltii & calcareum]*
- *hispidulum* (Brid.) Mitt. = *Campylidium hispidulum*
- *hispidulum* var. *sommerfeltii* (Myrin) Lindb. = *Campylidium sommerfeltii*
- *krylovii* (Podp.) Laz. = *Podperaea krylovii*
- *polygamus* (Bruch et al.) Lange & C.E.O.Jensen = *Drepanocladus polygamus*
- *radicale* (P.Beauv.) Grout = *Amblystegium radicale*
- *sommerfeltii* (Myrin) Lange = *Campylidium sommerfeltii*
- *stellatum* subsp. *protensum* (Brid.) C.E.O.Jensen = *Campylium protensum*
- *stellatum* var. *protensum* (Brid.) Bryhn = *Campylium protensum*
- *zemliae* (C.E.O.Jensen) C.E.O.Jensen = *Drepanocladus arcticus*
- Campylophyllum calcareum* (Crundw. & Nyholm) Hedenäs = *Campylidium calcareum*
- *hispidulum* auct. non (Brid.) Hedenäs = *Campylidium [sommerfeltii & calcareum]*
- *hispidulum* (Brid.) Hedenäs = *Campylidium hispidulum*
- *sommerfeltii* (Myrin) Hedenäs = *Campylidium sommerfeltii*
- Campylopus fragilis* var. *pyriformis* (Schultz) Ångstr. = *Campylopus pyriformis*
- *schwarzii* Schimp. = *Campylopus gracilis*
- *subulatus* var. *schimperii* (Milde) Husn. = *Campylopus schimperii*
- Catharinaea* = *Atrichum*
- Cephalocladium enerve* (Broth.) Abramova & I.I.Abramov = *Struckia enervis*
- *zerovii* Laz. = *Struckia enervis*
- Ceratodon purpureus* var. *conicus* (Hampe) Husn. = *Ceratodon conicus*
- *purpureus* var. *rotundifolius* Berggr. = *Ceratodon heterophyllum*
- Cinclidium minutifolium* Broth. = *Cinclidium latifolium*
- Cinclidotus nigricans* (Brid.) Wijk & Marg. = *Cinclidotus riparius*
- Cirriphyllum apiculigerum* (Lindb. & Arnell) Broth. = *Sciuro-hypnum ornellanum*
- *cirrosum* (Schwägr.) Grout = *Brachythecium cirrosum*
- *ornellanum* (Molendo) Loeske = *Sciuro-hypnum ornellanum*
- *plumosum* (Hedw.) Loeske & M.Fleisch. = *Sciuro-hypnum plumosum*
- *reichenbachianum* (Huebener) Wijk & Margad. = *Sciuro-hypnum flotowianum*
- *tenuinerve* (Lindb.) Wijk & Margad. = *Brachythecium tommasinii*

- *tommasinii* (Sendtn. ex Boulay) Grout = *Brachythecium tommasinii*
- *vaucheri* Loeske & M.Fleisch. = *Brachythecium tommasinii*
- *velutinoides* (Bruch et al.) Loeske & M.Fleisch. = *Sciuro-hypnum flotowianum*
- Clastobryella kusatsuensis* (Besch.) Z.Iwats. = *Pylaisiadelphina yokohamae* — {see annotation 159}
- Cratoneuron arcticum* Steere = *Hygroamblystegium varium*
- *commutatum* (Hedw.) G.Roth = *Palustriella commutata*
- *commutatum* var. *falcatum* (Brid.) Mönk. = *Palustriella falcata*
- *decipiens* (De Not.) Loeske = *Palustriella decipiens*
- *falcatum* (Brid.) G.Roth = *Palustriella falcata*
- *filicinum* var. *atrovirens* (Brid.) Ochyra = *Cratoneuron filicinum*
- *filicinum* var. *curvicaule* (Jur.) Mönk. = *Cratoneuron curvicaule*
- Crossidium chloronotus* auct. non (Brid.) Limpr. = *Crossidium crassinerve*
- *griseum* (Jur.) Jur. = *Crossidium squamiferum* var. *potioideum*
- Ctenidium procerimum* (Molendo) Lindb. = *Stereodon procerimum*
- Cupressina ulophylla* Müll.Hal. = *Stereodon subimponens* var. *ulophyllum*
- Cynodontium alpestre* (Wahlenb. ex Huebener) Milde = *Cnestrum alpestre*
- *glauescens* (Lindb. & Arnell) Paris = *Cnestrum glauescens*
- *polycarpon* var. *strumiferum* (Hedw.) Schimp. = *Cynodontium strumiferum*
- Cyрто-hypnum minutulum* (Hedw.) W.R.Buck & H.A.Crum = *Pelekium minutulum*
- *pygmaeum* (Bruch et al.) W.R.Buck & H.A.Crum = *Pelekium pygmaeum*
- *sparsifolium* (Mitt.) W.R.Buck & H.A.Crum = *Pelekium versicolor*
- *vestitissimum* (Besch.) W.R.Buck & H.A.Crum = *Bryochenea vestitissima*
- Desmatodon altipes* Broth. = *Tortula altipes*
- *arenaceus* Sull. & Lesq. = *Tortula obtusifolia*
- *cernuus* (Huebener) Bruch et al. = *Tortula cernua*
- *glacialis* Funck ex Brid. = *Tortula hoppeana*
- *heimii* (Hedw.) Mitt. = *Hennediella heimii*
- *heimii* var. *arctica* (Lindb.) H.A.Crum = *Hennediella heimii* var. *arctica*
- *latifolius* (Hedw.) Brid. = *Tortula hoppeana*
- *laureri* (Schultz) Bruch et al. = *Tortula laureri*
- *leucostoma* (R.Br.) Berggr. = *Tortula leucostoma*
- *meridionalis* Luisier = *Tortula marginata*
- *obtusifolius* (Schwägr.) Schimp. = *Tortula obtusifolia*
- *oxneri* Laz. = *Tortula randii*
- *randii* (Kenn.) Laz. = *Tortula randii*
- *suberectus* (Drumm.) Limpr. = *Tortula leucostoma*
- *systylius* Schimp. = *Tortula systylia*
- *ucrainicus* Laz. = *Tortula ucrainica*
- Dichodontium pellucidum* var. *flavescens* (Dicks.) Moore = *Dichodontium flavescens*
- Dicranella caucasica* (Müll. Hal.) Broth. = *Dicranella heteromalla*
- *heteromalla* var. *curvipes* Lindb. = *Dicranella curvipes*
- *palustris* (Dicks.) Crundw. = *Dichodontium palustre*
- *rigidula* (Hedw.) Dix. = *Dicranella humilis*
- *riparia* (H.Lindb.) Mårtensson & Nyholm = *Kiaeria riparia*
- *schreberi* Schimp. = *Dicranella schreberiana*
- *schreberi* var. *grevilleana* (Brid.) Mönk. = *Dicranella grevilleana*
- *squarrosa* (Schrad.) Schimp. = *Dichodontium palustre*
- Dicranodontium longirostre* (F.Weber & D.Mohr) Bruch & Schimp. = *Dicranodontium denudatum*
- Dicranoweisia crispula* (Hedw.) Milde = *Hymenoloma crispulum*
- *compacta* (Schwägr.) Schimp. = *Hymenoloma crispulum*
- *intermedia* J.J.Amann = *Hymenoloma intermedium*
- Dicranum affine* Funck = *Dicranum undulatum*
- *atratum* Geh. = ?*Dicranum elongatum*
- *bergeri* Blandow = *Dicranum undulatum*
- *congestum* Brid. = *Dicranum fuscescens*
- *congestum* auct. non Brid. = *Dicranum flexicaule*
- *elatum* Lindb. = *Dicranum drummondii*
- *fuscescens* var. *congestum* (Brid.) Husn. = *Dicranum flexicaule*
- *fuscescens* var. *flexicaule* (Brid.) Wilson = *Dicranum flexicaule*
- *muehlenbeckii* var. *brevifolium* Lindb. = *Dicranum brevifolium*
- *neglectum* Jur. ex De Not. = *Dicranum spadiceum*
- *orientale* Otnyukova = *Dicranum dispersum*
- *robustum* Blytt ex Bruch et al. = *Dicranum drummondii*
- *rugosum* Brid. = *Dicranum polysetum*
- *spadiceum* var. *subscabrifolium* Schljakov = *Dicranum spadiceum*
- *strictum* Schleich. ex D.Mohr = *Dicranum tauricum*
- *tundrae* Lindb. & Arnell = ?*Dicranum elongatum*
- *undulatum* auct. non Schrad. ex Brid. = *Dicranum polysetum*
- Didymodon aaronis* (Lorentz) J.Guerra = *Didymodon australasiae*
- *fallax* var. *reflexus* (Brid.) R.H.Zander = *Didymodon ferrugineus*
- *fragilis* Hook. & Wilson = *Tortella fragilis*
- *gorodkovii* (Abramova & I.I.Abramov) Schljakov = *Didymodon asperifolius* var. *gorodkovii*
- *incrassatus* (Lindb.) Broth. = *Didymodon australasiae*
- *pusillus* Hedw. = *Ditrichum pusillum*
- *rigidulus* subsp. *andreaeoides* (Limpr.) Wijk & Margad. = *Didymodon subandreaeoides*
- *rigidulus* var. *gracilis* (Schleich. ex Hook. & Grev.) R.H.Zander = *Didymodon acutus*
- *rigidulus* var. *icmadophilus* (Schimp. ex Müll.Hal.) R.H.Zander = *Didymodon icmadophilus*
- *rubellus* Bruch et al. = *Bryoerythrophyllum recurvirostrum*
- *rufus* Lorentz = *Didymodon asperifolius*
- *trifarius* auct. non (Hedw.) Röhl = *Didymodon luridus*

- *vinealis* var. *luridus* (Hornsch.) R.H.Zander = *Didymodon luridus*
- *vinealis* var. *flaccidus* (Bruch et al.) R.H.Zander = *Didymodon insulanus*
- Diobelonella palustris* (Dicks.) Ochyra = *Dichodontium palustre*
- Distichium montanum* I.Hagen = *Distichium capillaceum*
- Ditrichum crispatissimum* (Müll.Hal.) Paris = *Ditrichum gracile*
- *flexicaule* var. *longifolium* (J.E.Zetterst.) I.Hagen = *Ditrichum gracile*
- *flexicaule* var. *sterile* (De Not.) Limpr. = *Ditrichum gracile*
- *giganteum* R.S.Williams = *Ditrichum gracile*
- *glaucescens* (Müll.Hal.) Hampe = *Saelania glaucescens*
- *heteromallum* var. *zonatum* (Brid.) Podp. = *Ditrichum zonatum*
- *homomallum* (Hedw.) Hampe = *Ditrichum heteromallum*
- *tenuifolium* Lindb. = *Ditrichum cylindricum*
- *tortile* (Schrad.) Brockm. = *Ditrichum pusillum*
- Dolichothea* = *Herzogiella*
- Drepanocladus aduncus* var. *kneiffii* (Schimp.) Mönk. = *Drepanocladus aduncus*
- *aduncus* var. *polycarpus* (Blandow ex Voit) G.Roth = *Drepanocladus aduncus*
- *badius* (Hartm.) G.Roth = *Loeskypnum badium*
- *brevifolius* (Lindb.) Warnst. = *Pseudocalliergon brevifolium*
- *capillifolius* (Warnst.) Warnst. = *Drepanocladus longifolius*
- *cossonii* (Schimp.) Loeske = *Scorpidium cossonii*
- *exannulatus* (Bruch et al.) Warnst. = *Warnstorffia exannulata*
- *exannulatus* var. *tundrae* (Arnell) Warnst. = *Warnstorffia tundrae*
- *fluitans* (Hedw.) Warnst. = *Warnstorffia fluitans*
- *fluitans* var. *pseudostramineus* (Müll.Hal.) Warnst. = *Warnstorffia pseudostraminea*
- *h-schulzei* (Limpr.) Loeske = *Warnstorffia fluitans*
- *intermedius* (Lindb.) Warnst. = *Scorpidium cossonii*
- *kneiffii* (Bruch et al.) Warnst. = *Drepanocladus aduncus*
- *kurilensis* Smirnova = *Warnstorffia fluitans*
- *lapponicus* (Norrl.) Smirnova = *Hamatocaulis lapponicus*
- *latifolius* (Lindb. & Arnell) Warnst. = *Pseudocalliergon brevifolius*
- *lycopodioides* (Brid.) Warnst. = *Pseudocalliergon lycopodioides*
- *polycarpus* (Blandow ex Voit) Warnst. = *Drepanocladus aduncus*
- *procerus* (Renauld & Arnell) Warnst. = *Warnstorffia procera*
- *pseudofluitans* (Sanio) Warnst. = *Drepanocladus aduncus*
- *pseudostramineus* (Müll.Hal.) G.Roth = *Warnstorffia pseudostraminea*
- *revolvens* (Sw. ex anon.) Warnst. = *Scorpidium revolvens*
- *revolvens* var. *intermedius* (Lindb.) Wilson = *Scorpidium cossonii*
- *scorpioides* (Hedw.) Warnst. = *Scorpidium scorpioides*
- *simplicissimus* Warnst. = *Drepanocladus aduncus*
- *tenuinervis* T. J.Kop. = *Drepanocladus sordidus*
- *trichophyllus* (Warnst.) Podp. = *Warnstorffia trichophylla*
- *tundrae* (Arnell) Loeske = *Warnstorffia tundrae*
- *turgescens* (T.Jensen) Broth. = *Pseudocalliergon turgescens*
- *uncinatus* (Hedw.) Warnst. = *Sanionia uncinata*
- *vernicosus* (Mitt.) Warnst. = *Hamatocaulis vernicosus*
- *vernicosus* var. *lapponicus* (Norrl.) G.Roth = *Hamatocaulis lapponicus*
- Drummondia ussuriensis* Broth. = *Drummondia sinensis* var. *ussuriensis*
- Dryptodon atratus* (Miel. ex Hornsch.) Limpr. = *Grimmia atrata*
- Dryptodon patens* (Hedw.) Brid. = *Grimmia ramondii*
- Encalypta contorta* Hoppe ex Lindb. = *Encalypta streptocarpa*
- *rhabdocarpa* Schwägr. = *Encalypta rhabdocarpa*
- *rhabdocarpa* var. *leptodon* Lindb. = *Encalypta trachymitria*
- *rhabdocarpa* var. *spathulata* (Müll. Hal.) Husn. = *Encalypta spathulata*
- *vulgaris* var. *mutica* Brid. = *Encalypta mutica*
- Entodon cladorrhizans* auct. non (Hedw.) Müll.Hal. = *Entodon schleicheri*
- *compressus* Müll.Hal. ex Cardot = *Entodon challengeri*
- *orthocarpus* (Brid.) Lindb. = *Entodon concinnus*
- *rubicundus* (Mitt.) A.Jaeger = *Entodon flavescens*
- *sinense* (Dixon) Laz. = *Entodon giraldii*
- *sullivantii* var. *versicolor* (Besch.) Mizushima = *Entodon sullivantii*
- Entosthodon pallescens* Jur. = *Entosthodon durieui*
- *subpallescens* Laz. = *Entosthodon angustifolius*
- Ephemerum serratum* var. *minutissimum* (Lindb.) Grout = *Ephemerum minutissimum*
- Erythrophyllum recurvirostre* (Hedw.) Loeske = *Bryoerythrophyllum recurvirostrum*
- Eucladium aeruginosum* (Sm.) C.E.O.Jensen = *Gymnostomum aeruginosum*
- *recurvirostre* (Hedw.) C.E.O.Jensen = *Hymenostylium recurvirostrum*
- *styriacum* Glow. = *Eucladium verticillatum*
- Eurhynchium altaicum* Ignatov = *Sciuro-hypnum altaicum*
- *circinatum* (Brid.) Schimp. = *Scorpiurium circinatum*
- *crassinervium* (Taylor) Bruch et al. = *Cirriphyllum crassinervium*
- *diversifolium* Bruch et al. = *Eurhynchiastrum pulchellum*
- *eustegium* (Besch.) Dixon = *Eurhynchia delphus eustegium*
- *flotowianum* (Sendtn.) Kartt. = *Sciuro-hypnum flotowianum*
- *hians* (Hedw.) Sande Lac. = *Oxyrrhynchium hians*
- *meridionale* (Bruch et al.) De Not. = *Plasteurhynchium meridionale*

- *praelongum* (Hedw.) Bruch et al. = *Kindbergia praelonga*
- *praelongum* var. *stokesii* (Turner) Dixon = *Kindbergia praelonga*
- *pulchellum* (Hedw.) Jenn. = *Eurhynchiastrum pulchellum*
- *pulchellum* var. *diversifolium* (Bruch et al.) C.E.O. Jensen = *Eurhynchiastrum pulchellum*
- *pulchellum* var. *praecox* (Hedw.) Dixon = *Eurhynchiastrum pulchellum*
- *pumilum* (Wilson) Schimp. = *Oxyrrhynchium pumilum*
- *riparioides* (Hedw.) R.W.Richards = *Rhynchostegium riparioides*
- *schleicheri* (R.Hedw.) Milde = *Oxyrrhynchium schleicheri*
- *speciosum* (Brid.) Jur. = *Oxyrrhynchium speciosum*
- *stokesii* (Turner) Bruch et al. = *Kindbergia praelonga*
- *striatulum* (Spruce) Bruch et al. = *Plasteurhynchium striatulum*
- *striatum* var. *pachycladum* G.Roth = *Eurhynchium angustirete*
- *striatum* subsp. *zetterstedtii* (P.Størmer) Podp. = *Eurhynchium angustirete*
- *strigosum* (F.Weber & D.Mohr) Schimp. = *Eurhynchiastrum pulchellum*
- *swartzii* (Turner) Curn. = *Oxyrrhynchium hians*
- *zetterstedtii* P.Størmer = *Eurhynchium angustirete*
- Fissidens adelphinus* Besch. = *Fissidens teysmannianus*
- *bambergeri* auct. non Milde = *F. crispus*
- *bryoides* var. *viridulus* (Sw.) Broth. = *Fissidens viridulus*
- *cristatus* Wilson ex Mitt. = *Fissidens dubius*
- *decepiens* De Not. = *Fissidens dubius*
- *gymnandrus* Büse = *Fissidens bryoides* var. *gymnandrus*
- *incurvus* var. *tenuifolius* (Boulay) A.J.E.Sm. = *Fissidens gracilifolius*
- *japonicus* Dozy & Molk. = *F. nobilis*
- *julianus* (Savi ex DC.) Schimp. = *Fissidens fontanus*
- *limbatus* Sull. = *Fissidens crispus*
- *mildeanus* Schimp. = *Fissidens crassipes*
- *minutulus* auct. non Wils. = *Fissidens gracilifolius*
- *obtusifolius* auct. non Wils. = *Fissidens arnoldii*
- *strictulus* Müll.Hal. = *Fissidens curvatus*
- *viridulus* var. *incurvus* (Starke ex Röhl.) Waldh. = *Fissidens incurvus*
- *viridulus* var. *tenuifolius* (Boulay) A. J. E. Sm. = *Fissidens gracilifolius*
- Fontinalis gracilis* Lindb. = *Fontinalis antipyretica* var. *gracilis*
- *mesopotamica* Schiffn. = *Fontinalis hypnoides* var. *duriaei*
- *nitida* Lindb. & Arnell = *Fontinalis hypnoides* var. *duriaei*
- Funaria attenuata* (Dicks.) Lindb. = *Entosthodon attenuatus*
- *calcarea* Wahlenb. = *Entosthodon muhlenbergii*
- *dentata* Crome = *Entosthodon muhlenbergii*
- *fascicularis* (Hedw.) Lindb. = *Entosthodon fascicularis*
- *handelii* Schiffn. = *Entosthodon handelii*
- *hibernica* Hook. = *Entosthodon muhlenbergii*
- *hungarica* Boros = *Entosthodon hungaricus*
- *hygrometrica* var. *arctica* Berggr. = *Funaria arctica*
- *mediterranea* Lindb. = *Entosthodon muhlenbergii*
- *muhlenbergii* Turner = *Entosthodon muhlenbergii*
- *obtusifolia* Weimm. = *Funaria hygrometrica*
- *pallescens* (Jur.) Lindb. = *Entosthodon durieui*
- *pulchella* H.Philib. = *Entosthodon pulchellus*
- *subpallescens* (Laz.) Smirnova = *Entosthodon angustifolius*
- Geheebia gigantea* (Funck) Boulay = *Didymodon giganteus*
- Gollania amurensis* Broth. = *Gollania ruginosa*
- *densepininata* Dixon = *Gollania turgens*
- *neckerella* (Müll.Hal.) Broth. var. *coreense* (Cardot) Broth. = *Gollania ruginosa*
- Grimmia affinis* Hornsch. = *Grimmia longirostris*
- *alpestris* var. *sessitana* (De Not.) I.Hagen = *Grimmia reflexidens*
- *alpicola* auct. non Hedw. = *Schistidium rivulare*
- *alpicola* Hedw. = *Schistidium agassizii*
- *andreaeopsis* Müll.Hal. = *Schistidium andreaeopsis*
- *apiculata* Hornsch. = *Grimmia fuscolutea*
- *apocarpa* Hedw. = *Schistidium apocarpum*
- *apocarpa* var. *gracilis* Röhl. = *Schistidium* spp.
- *apocarpa* var. *taimyrensis* I.G.Borszcz. & G.G.Borszcz. = *Schistidium papillosum*
- *brotheri* Lindb. ex Broth. = *Grimmia hartmanii*
- *calvescens* Kindb. = *Grimmia funalis*
- *campestris* Bruch ex Hook. = *Grimmia laevigata*
- *cardotii* Hérib. ex Seb. = *Grimmia poecilostoma*
- *cavifolia* Lindb. & Arnell = *Grimmia longirostris*
- *commutata* Huebener = *Grimmia ovalis*
- *crassifolia* Lindb. ex Broth. = *Grimmia tergestina*
- *curvata* (Brid.) De Sloover = *Grimmia ramondii*
- *dupretii* Thér. = *Schistidium dupretii*
- *gracilis* Schleich. ex Schwägr. = *Schistidium* spp.
- *hartmanii* var. *anomala* (Hampe) Mönk. = *Grimmia anomala*
- *hartmanii* var. *montenegrina* Breidl. & Szyszyl. = ?*Grimmia hartmanii*
- *laevidens* Broth. = *Grimmia reflexidens*
- *maritima* Sm. ex R.Scott = *Schistidium maritimum*
- *maritima* var. *pilifera* I.Hagen = *Schistidium maritimum* subsp. *piliferum*
- *mesopotamica* Schiffn. = *Grimmia capillata*
- *olympica* E.Britton = *Brachydontium olympicum*
- *ovalis* auct. non (Hedw.) Lindb. = *Grimmia longirostris*
- *ovata* auct. non F.Weber & D.Mohr = *Grimmia ovalis*
- *patens* (Hedw.) Bruch et al. = *Grimmia ramondii*
- *pitardii* Corb. = *Campylostelium pitardii*
- *pulvinata* var. *africana* (Hedw.) Hook.f. & Wilson = *Grimmia pulvinata*
- *rivularis* Brid. = *Schistidium rivulare*
- *sessitana* De Not. = *Grimmia reflexidens*
- *stricta* Turner = *Schistidium* spp.
- *subsulcata* Limpr. = *Grimmia reflexidens*
- *tergestina* var. *poecilostoma* (Cardot & Sebillé) Loeske = *Grimmia poecilostoma*

- *tergestina* var. *tergestinoides* (Culm.) Podp. = ?*Grimmia tergestina*
- *tergestinoides* Culm. = *Grimmia tergestina*
- *trichophylla* var. *muehlenbeckii* (Schimp.) Husn. = *Grimmia muehlenbeckii*
- *trichophylla* var. *septentrionalis* Schimp. = *Grimmia muehlenbeckii*
- *trichophylla* var. *tenuis* (Wahlenb.) Wijk & Margad. = *Grimmia muehlenbeckii*
- Gymnostomum recurvirostrum* Hedw. = *Hymenostylium recurvirostrum*
- Habrodon leucotrichus* (Mitt.) Perss. = *Iwatsukiella leucotricha*
- Hedwigia ciliata* var. *leucophaea* Bruch et al. = *Hedwigia ciliata*
- Helicodontium pulvinatum* (Wahlenb.) Lindb. = *Myrinia pulvinata*
- *rotundifolium* Arnell = *Myrinia rotundifolia*
- Helodium lanatum* (Brid.) Broth. = *Helodium blandowii*
- *sachalinense* (Lindb.) Broth. = *Echinophyllum sachalinense*
- Heterocladium leucotrichum* Mitt. = *Iwatsukiella leucotricha*
- *papillosum* (Lindb.) Lindb. = *Pseudeskeella papillosa*
- *squarrosulum* Lindb. = *Heterocladium dimorphum*
- Heterophyllum adscendens* (Lindb.) Broth. = *Herzogiella adscendens*
- *haldanianum* (Grev.) M.Fleisch. = *Callicladium haldanianum*
- *nemosum* (Koch ex Brid.) Kindb. = *Heterophyllum affine*
- Homalia besseri* Lobarz. = *Neckera besseri*
- *japonica* Besch. = *Homalia trichomanoides*
- *woronowii* Thér = *Homalia webbiana*
- Homaliadelphus laevidentatus* (S.Okamura) Z.Iwats. = *Homaliadelphus targionianus* var. *laevidentatus*
- Homalothecium aristatum* Laz. = *Homalothecium philippeanum*
- *geheebii* (Milde) Wigh = *Brachythecium geheebii*
- *nitens* (Hedw.) H.Rob. = *Tomentypnum nitens*
- *tokiadense* (Mitt.) Besch. = *Homalothecium laevisetum*
- Hondaella brachytheciella* (Broth. & Paris) Ando = *Hondaella caperata*
- Hydrogrimmia mollis* (Bruch et al.) Loeske = *Grimmia mollis*
- Hygroamblystegium fallax* (Brid.) Loeske = *Cratoneuron filicinum*
- *irriguum* (Hook. & Wilson) Loeske = *Hygroamblystegium tenax*
- *tenax* var. *spinifolium* (Schimp.) Jenn. = *Hygroamblystegium tenax*
- Hygrohypnella duriuscula* (De Not.) Ignatov & Ignatova = *Ochyraea duriuscula*
- Hygrohypnum alpestre* (Hedw.) Loeske = *Ochyraea alpestris*
- *bestii* (Renauld & Brynh) Broth. = *Hygrohypnella bestii*
- *cochlearifolium* (Venturi) Broth. = *Ochyraea cochlearifolia*
- *dilatatum* auct. non (Wilson) Loeske = *Ochyraea duriuscula*
- *duriusculum* (De Not.) D.W.Jamieson = *Ochyraea duriuscula*
- *ehlei* (Arnell) Broth. = *Hygrohypnella polare*
- *eugyrium* (Bruch et al.) Broth. = *Pseudohygrohypnum eugyrium*
- *molle* (Hedw.) Loeske = *Ochyraea mollis*
- *molle* subsp. *dilatatum* (Wilson) Grout = *Ochyraea duriuscula*
- *norvegicum* (Bruch et al.) J.J.Amann = *Ochyraea norvegica*
- *ochraceum* (Turner ex Wilson) Loeske = *Hygrohypnella ochracea*
- *palustre* Loeske = *Hygrohypnum luridum*
- *polare* (Lindb.) Loeske = *Hygrohypnella polare*
- *polare* var. *falcatum* (Bryhn) Broth. = *Hygrohypnella polare*
- *rivulare* Broth. = *Ochyraea alpestris*
- *smithii* (Sw.) Broth. = *Ochyraea smithii*
- *smithii* var. *cochlearifolium* (Venturi ex De Not.) Mönk. = *Ochyraea cochlearifolia*
- *subeugyrium* (Renauld & Cardot) Broth. = *Pseudohygrohypnum subeugyrium*
- Hylocomium alaskanum* (Lesq. & James) Austin = *Hylocomium splendens* var. *obtusifolium*
- *brevirostre* (Brid.) Bruch et al. = *Loeskeobryum brevirostre*
- *proliferum* (Brid.) Lindb. = *Hylocomium splendens*
- *pyrenaicum* (Spruce) Lindb. = *Hylocomiastrum pyrenaicum*
- *splendens* var. *alaskanum* (Lesq. & James) Limpr. = *Hylocomium splendens* var. *obtusifolium*
- *umbratum* (Hedw.) Bruch et al. = *Hylocomiastrum umbratum*
- Hymenostomum* spp. = *Weissia* spp.
- *microstomum* (Hedw.) R. Br. = *Weissia brachycarpa*
- *squarrosum* Nees & Hornsch. = *Weissia squarrosa*
- Hypnum arcuatum* Lindb. = *Calliargonella lindbergii*
- *bambergeri* Schimp. = *Stereodon bambergeri*
- *callichroum* Brid. = *Stereodon callichroum*
- *cupressiforme* var. *ericetorum* Bruch et al. = *Hypnum jutlandicum*
- *cupressiforme* var. *filiforme* Brid. = *Hypnum cupressiforme*
- *cupressiforme* var. *julaceum* Brid. = *Hypnum cupressiforme*
- *cupressiforme* var. *mamillatum* Brid. = *Hypnum andoi*
- *cupressiforme* var. *vaucheri* (Lesq.) Boulay = *Stereodon vaucheri*
- *fastigiatum* Brid. = *Drepanium recurvatum*
- *fastigiatum* var. *recurvatum* (Lindb. & Arnell) Uggla = *Drepanium recurvatum*
- *fauriei* Cardot = *Stereodon fauriei*
- *fertile* Sendtn. = *Stereodon fertilis*
- *hamulosum* Bruch et al. = *Stereodon hamulosus*
- *holmenii* Ando = *Stereodon holmenii*
- *lacunosum* (Brid.) Brid. = *Hypnum cupressiforme* var. *lacunosum*



- *leptothallum* (Müll.Hal.) Paris = *Eurohypnum leptothallum*
- *lindbergii* Mitt. = *Calliergonella lindbergii*
- *mamillatum* (Brid.) Loeske = *Hypnum andoi*
- *pallescens* (Hedw.) P. Beauv. = *Stereodon pallescens*
- *plicatulum* (Lindb.) A.Jaeger = *Stereodon plicatulus*
- *plumaeforme* Wilson = *Stereodon plumaeformis*
- *pratense* W.D. J.Koch ex Spruce = *Breidleria pratensis*
- *procerrimum* Molendo = *Stereodon procerrimum*
- *recurvatum* (Lindb. & Arnell) Kindb. = *Drepanium recurvatum*
- *reptile* Michx. = *Stereodon pallescens*
- *revolutum* (Mitt.) Lindb. = *Stereodon revolutus*
- *subimponens* Lesq. = *Stereodon subimponens*
- *subplicatile* Limpr. = *Stereodon plicatulus*
- *tristo-viride* (Broth.) Paris = *Stereodon tristo-viridis*
- *vaucheri* Lesq. = *Stereodon vaucheri*
- Hypopterygium japonicum* Mitt. = *Hypopterygium flavolimbatum*
- Imbriobryum alpinum* (Huds. ex With.) N.Pedersen = *Bryum alpinum*
- *muehlenbeckii* (Bruch et al.) N.Pedersen = *Bryum muehlenbeckii*
- Isopterygium alpicola* (Lindb. & Arnell) Nyholm = *Isopterygiopsis alpicola*
- *alternans* Cardot = *Taxiphyllum alternans*
- *elegans* (Brid.) Lindb. = *Pseudotaxiphyllum elegans*
- *depressum* (Brid.) Mitt. = *Taxiphyllum wissgrillii*
- *muellerianum* (Schimp.) A.Jaeger = *Isopterygiopsis muelleriana*
- *nitidum* Lindb. = *Isopterygiopsis pulchella*
- *nitidum* var. *pulchellum* (Hedw.) Lindb. = *Isopterygiopsis pulchella*
- *pulchellum* (Hedw.) A.Jaeger = *Isopterygiopsis pulchella*
- *pulchellum* var. *nitidulum* (Wahlenb.) G.Roth = *Isopterygiopsis pulchella*
- *turfaceum* (Lindb.) Lindb. = *Herzogiella turfacea*
- Isoetecium diversiforme* (Mitt.) Besch. = *Dolichomitriopsis diversiformis*
- *filescens* (Brid.) Mönk. = *Plasteurhynchium striatulum*
- *myurum* Brid. = *Isoetecium alopecuroides*
- Leptodictyum humile* (P. Beauv.) Ochyra = *Hygroamblystegium humile*
- *kochii* (Bruch et al.) Warnst. = *Hygroamblystegium humile*
- *trichopodium* (Schultz) Warnst. = *Hygroamblystegium humile*
- *trichopodium* var. *curvipes* (Bruch et al.) Broth. = *Hygroamblystegium humile*
- Leptodontium styriacum* (Jur.) Limpr. = *Leptodontium flexifolium*
- Lescuraea atrovirens* (Dicks. ex Brid.) Kindb. = *Lescuraea incurvata*
- *mutabilis* var. *saxicola* (Bruch et al.) I.Hagen = *Lescuraea saxicola*
- *striata* var. *saxicola* Bruch et al. = *Lescuraea saxicola*
- Leskea grandiretis* Lindb. ex Broth. = *Lindbergia grandiretis*
- *incrassata* Lindb. ex Broth. = *Pseudoleskeella nervosa*
- *rostrata* Hedw. = *Claopodium rostratum*
- Leskeella incrassata* (Lindb. ex Broth.) Broth. = *Pseudoleskeella nervosa*
- *nervosa* (Brid.) Loeske = *Pseudoleskeella nervosa*
- *nervosa* var. *sibirica* Arnell = *Pseudoleskeella rupestris*
- *tectorum* (Funck ex Brid.) I.Hagen = *Pseudoleskeella tectorum*
- Limnobium duriusculum* De Not. = *Ochyraea duriuscula*
- Limprichtia cossonii* (Schimp.) L.E.Anderson, H.A.Crum & W.R.Buck = *Scorpidium cossonii*
- *intermedia* (Lindb.) Loeske = *Scorpidium cossonii*
- *revolvens* (Sw. ex anon.) Loeske = *Scorpidium revolvens*
- *vernica* (Mitt.) Loeske = *Hamatocaulis vernicosus*
- Lindbergia brachyptera* auct. Fl. Cauc. non (Mitt.) Kindb. = *Lindbergia grandiretis*
- Loeskeobryum cavifolium* (Sande Lac.) M.Fleisch. ex Broth. = *Loeskeobryum brevirostre*
- Lydiaea vlassovii* (Laz.) Laz. = *Microbryum vlassovii*
- Meesia trichoides* Spruce = *Meesia uliginosa*
- *trifaria* H.A.Crum, Steere & L.E.Anderson = *Meesia triquetra*
- Merceya acutiuscula* (Lindb. ex Broth.) Broth. = *Scopelophila ligulata*
- *ligulata* (Spruce) Schimp. = *Scopelophila ligulata*
- *ligulata* var. *acutiuscula* (Lindb. ex Broth.) P.C.Chen = *Scopelophila ligulata*
- Metaneckera menziesii* (Drumm.) Steere = *Neckera menziesii*
- Microthuidium minutulum* (Hedw.) Warnst. = *Pelekium minutulum*
- Mielichhoferia himalayana* Mitt. = *Bryum caasicum*
- *mielichhoferiana* var. *elongata* (Hoppe & Hornsch. ex Hook.) Wijk & Margad. = *Mielichhoferia elongata*
- *mielichhoferiana* var. *japonica* (Besch.) Ochi = *Mielichhoferia japonica*
- *nitida* Nees & Hornsch. = *Mielichhoferia mielichhoferiana*
- Mniobryum albicans* (Wahlenb.) Limpr. = *Pohlia wahlenbergii*
- *atropurpureum* (Wahlenb.) I.Hagen = *Pohlia atropurpurea*
- *carneum* Limpr. = *Pohlia melanodon*
- *delicatulum* (Hedw.) Dixon = *Pohlia melanodon*
- *ludwigii* (Spreng. ex Schwägr.) Loeske = *Pohlia ludwigii*
- *pulchellum* (Hedw.) Loeske = *Pohlia lescuriana*
- *vexans* Limpr. = *Pohlia vexans*
- *wahlenbergii* (F.Weber & D.Mohr) Jenn. = *Pohlia wahlenbergii*
- *wahlenbergii* var. *glaciale* (Brid.) Wijk & Margad. = *Pohlia wahlenbergii*
- Mnium acutum* Lindb. = *Plagiomnium acutum*
- *affine* Bland. = *Plagiomnium affine*
- *affine* var. *elatum* Bruch et al. = *Plagiomnium elatum*
- *affine* var. *integrifolium* (Lindb.) Milde = *Plagiomnium ellipticum*

- *affine* var. *rugicum* (Laurer) Bruch et al. = *Plagiomnium ellipticum*
- *ambiguum* H. Müll. = *Mnium lycopodioides*
- *andrewsianum* Steere = *Rhizomnium andrewsianum*
- *arcuatum* Broth. = *Trachycystis ussuriensis*
- *cinclidioides* Huebener = *Pseudobryum cinclidioides*
- *confertidens* (Lindb. & Arnell) Kindb. = *Plagiomnium confertidens*
- *curvatulum* (Lindb.) Limpr. = *Plagiomnium curvatulum*
- *cuspidatum* Hedw. = *Plagiomnium cuspidatum*
- *drummondii* Bruch & Schimp. = *Plagiomnium drummondii*
- *ellipticum* Brid. = *Plagiomnium ellipticum*
- *flagellare* Sull. & Lesq. = *Trachycystis flagellaris*
- *hymenophylloides* Huebener = *Cyrtomnium hymenophylloides*
- *hymenophyllum* Bruch et al. = *Cyrtomnium hymenophyllum*
- *immarginatum* Broth. = *Trachycystis ussuriensis*
- *japonicum* Lindb. = *Plagiomnium japonicum*
- *lindbergii* Smirnova = *Mnium lycopodioides*
- *longirostre* Brid. = *Plagiomnium rostratum*
- *magnifolium* Horik. = *Rhizomnium magnifolium*
- *magnirete* (Lindb. & Arnell) Kindb. = *Mnium lycopodioides*
- *maximoviczii* Lindb. = *Plagiomnium maximoviczii*
- *medium* Bruch et al. = *Plagiomnium medium*
- *medium* var. *curvatulum* (Lindb.) G.Roth = *Plagiomnium curvatulum*
- *microovale* Müll.Hal. = *Plagiomnium maximoviczii*
- *microphyllum* Dozy & Molk. = *Trachycystis microphyllum*
- *minutulum* Besch. = *Rhizomnium parvulum*
- *nudum* E.Britton & R.S.Williams = *Rhizomnium nudum*
- *orthorhynchum* Müll.Hal. = *Mnium thomsonii*
- *pseudopunctatum* Bruch & Schimp. = *Rhizomnium pseudopunctatum*
- *punctatum* Hedw. = *Rhizomnium punctatum*
- *punctatum* var. *elatum* Schimp. = *Rhizomnium magnifolium*
- *riparium* Mitt. = *Mnium lycopodioides*
- *rostratum* Schrad. = *Plagiomnium rostratum*
- *rugicum* Laurer = *Plagiomnium ellipticum*
- *seligeri* Jur. = *Plagiomnium elatum*
- *serratum* Schrad. ex Brid. = *Mnium marginatum*
- *striatulum* Mitt. = *Rhizomnium striatulum*
- *submarginatum* Nawashin & N.W.Zinger = *Rhizomnium pseudopunctatum*
- *trichomanes* Mitt. = *Plagiomnium acutum*
- *undulatum* Hedw. = *Plagiomnium undulatum*
- *vesicatum* Besch. = *Plagiomnium vesicatum*
- Myurella apiculata* (Sommerf.) Bruch et al. = *Myurella tenerima*
- Myuroclada rotundifolia* (Arnell) Abramova & I.I.Abramov = *Myrinia rotundifolia*
- Neckera oligocarpa* Bruch = *Neckera pennata* var. *tenera*
- *turgida* Jur. = *Neckera menziesii*
- Nyholmiella gymnostoma* (Bruch ex Brid.) Holmen & E.Warnecke = *Orthotrichum gymnostomum*
- *obtusifolia* (Brid.) Holmen & E.Warnecke = *Orthotrichum obtusifolium*
- Octodicerus fontanum* (Bach. Pyl.) Lindb. = *Fissidens fontanus*
- *julianum* (Savi ex DC.) Brid. = *Fissidens fontanus*
- Oncophorus wahlenbergii* var. *compactus* (Bruch et al.) Braithw. = *Oncophorus compactus*
- Oreoweisia bruntonii* (Sm.) Milde = *Cynodontium bruntonii*
- Orthodicranum flagellare* (Hedw.) Loeske = *Dicranum flagellare*
- *fragilifolium* (Lindb.) Podp. = *Dicranum fragilifolium*
- *hamulosum* (Mitt.) Broth. = *Dicranum hamulosum*
- *mayrii* (Broth.) Smirnova = *Dicranum mayrii*
- *montanum* (Hedw.) Loeske = *Dicranum montanum*
- *strictum* auct. = *Dicranum tauricum*
- *tauricum* (Sapjegin) Smirnova = *Dicranum tauricum*
- Orthotheciella varia* (Hedw.) Ochyra = *Hygroamblystegium varium*
- Orthodontium australe* Hook.f. & Wilson = *Orthodontium lineare*
- Orthotrichum australe* Jur. = *Orthotrichum tenellum*
- *caucasicum* Venturi = *Orthotrichum sordidum*
- *cupulatum* var. *nudum* (Dicks.) Lindb. = *Orthotrichum cupulatum* var. *riparium*
- *elegans* Schwägr. ex Hook. & Grev. = *Orthotrichum speciosum*
- *fallax* Bruch ex Brid. = *Orthotrichum pumilum*
- *fastigiatum* Bruch ex Brid. = *Orthotrichum affine*
- *killiasii* Müll.Hal. = *Orthotrichum speciosum*
- *laevigatum* var. *japonicum* (Z.Iwats.) Lewinsky = *Orthotrichum iwatsukii*
- *limprichtii* I.Hagen = *Orthotrichum cupulatum*
- *nudum* Dicks. = *Orthotrichum cupulatum* var. *riparium*
- *pallidum* Gronvall, nom. illeg. = *Orthotrichum pallens*
- *philibertii* Venturi = *Orthotrichum pumilum*
- *saxatile* Schimp. = *Orthotrichum anomalum*
- *sibiricum* Gronvall = *Orthotrichum pallens*
- *schimperii* Hammar = *Orthotrichum pumilum*
- Oxyrrhynchium praelongum* (Hedw.) Warnst. = *Kindbergia praelonga*
- Oxystegus cylindricus* (Bruch ex Brid.) Hilp. = *Oxystegus tenuirostris*
- Pachyfissidens grandifrons* (Brid.) Limpr. = *Fissidens grandifrons*
- Palustriella commutata* var. *falcata* (Brid.) Ochyra = *Palustriella falcata*
- *commutata* var. *fallax* (Brid.) Ochyra = *Palustriella commutata*
- Paraleucobryum longifolium* var. *sauteri* (Bruch et al.) C.E.O.Jensen = *Paraleucobryum sauteri*
- Phascum acaulon* With. = *Tortula acaulon*
- *curvicolle* Hedw. = *Microbryum curvicollum*
- *cuspidatum* Hedw. = *Tortula acaulon*
- *cuspidatum* var. *piliferum* (Hedw.) Hook. & Taylor = *Tortula acaulon*
- *floerkeanum* F.Weber & D.Mohr = *Microbryum floerkeanum*
- *piliferum* Hedw. = *Tortula acaulon*
- *vlassovii* Laz. = *Microbryum vlassovii*
- Philonotis capillaris* auct. non Lindb. = *Philonotis arnellii*

- *fontana* var. *caespitosa* (Jur.) Limpr. = *Philonotis caespitosa*  
 — *fontana* var. *falcata* auct. non (Hook.) Brid. = *Philonotis calcarea*  
 — *fontana* var. *pumila* (Turner) Brid. = *Philonotis tomentella*  
 — *fontana* var. *seriata* (Mitt.) Kindb. = *Philonotis seriata*  
*Physcomitrium acuminatum* Bruch et al. = *Physcomitrium eurystomum* subsp. *acuminatum*  
 — *martjanovii* Broth. ex I.I.Abramov = *Entosthodon hungaricus*  
 — *patens* (Hedw.) Mitt. = *Physcomitrella patens*  
*Plagiobryum bimum* (Schreb.) N.Pedersen = *Bryum bimum*  
 — *capillare* (Hedw.) N.Pedersen = *Bryum capillare*  
 — *cyclophyllum* (Schwägr.) N.Pedersen = *Bryum cyclophyllum*  
 — *demissum* subsp. *hultenii* Ochi & Perss. = *Plagiobryum hultenii*  
 — *pallens* (Sw. ex anon.) N.Pedersen = *Bryum pallens*  
 — *pallescens* (Schleich. ex Schwägr.) N.Pedersen = *Bryum pallescens*  
 — *pseudotriquetrum* (Hedw.) N.Pedersen (incl. *B. pseudocrispulum*) = *Bryum pseudotriquetrum*  
 — *purpurascens* (R.Br.) N.Pedersen = *Bryum purpurascens*  
 — *uliginosum* (Brid.) N.Pedersen = *Bryum uliginosum*  
 — *wrightii* (Sull. & Lesq.) N.Pedersen = *Bryum wrightii*  
*Plagiomnium medium* subsp. *curvatulum* (Lindb.) T.J.Kop. = *Plagiomnium curvatulum*  
*Plagiopus oederi* (Brid.) Limpr. = *Plagiopus oederianus*  
*Plagiotheciella latebricola* (Bruch et al.) M.Fleisch. = *Plagiothecium latebricola*  
 — *pilifera* (Sw. ex Hartm.) M.Fleisch. = *Plagiothecium piliferum*  
*Plagiothecium denticulatum* var. *curvifolium* (Schlieph. ex Limpr.) Meylan = *Plagiothecium curvifolium*  
 — *denticulatum* var. *laetum* (Bruch et al.) Lindb. = *Plagiothecium laetum*  
 — *denticulatum* var. *ruthei* (Limpr.) Riehm. = *Plagiothecium denticulatum* var. *undulatum*  
 — *depressum* (Brid.) Spruce = *Taxiphyllum wissgrillii*  
 — *donnianum* (Sm.) Mitt. = *Plagiothecium denticulatum*  
 — *laetum* var. *curvifolium* (Limpr.) Mastracci & M.Sauer = *Plagiothecium curvifolium*  
 — *neglectum* Mönk. = *Plagiothecium nemorale*  
 — *roeseanum* Bruch et al. = *Plagiothecium cavifolium*  
 — *ruthei* Limpr. = *Plagiothecium denticulatum* var. *undulatum*  
 — *silesiacum* (F.Weber & D.Mohr) Bruch et al. = *Herzogiella seligeri*  
 — *sylvaticum* (Brid.) Bruch et al. = *Plagiothecium* spp.  
*Platydictya baicalensis* (Ignatov & Ochyra) Hedenäs = *Bardunowia baicalensis*  
 — *confervoides* (Brid.) H.A.Crum = *Serpoleskea confervoides*  
 — *subtilis* (Hedw.) H.A.Crum = *Serpoleskea subtilis*  
*Platyhypnidium riparioides* (Hedw.) Dixon = *Rhyncho-stegium riparioides*  
*Pleuroidium alternifolium* auct. non (Dicks. ex Hedw.) Rabenh. = *Pleuroidium subulatum*  
 — *palustre* (Bruch & Schimp.) Bruch et al. = *Cleisto-carpidium palustre*  
*Pleuropus euchloron* (Müll.Hal.) Broth. = *Palamocladium euchloron*  
*Pleuroweisia schliephackei* Limpr. ex Schlieph. = *Molendoa schliephackei*  
*Pogonatum alpinum* (Hedw.) Röhl. = *Polytrichastrum alpinum*  
 — *capillare* (Michx.) Brid. = *Pogonatum dentatum*  
 — *grandifolium* (Lindb.) A.Jaeger = *Pogonatum japonicum*  
 — *laterale* Brid. = *Pogonatum contortum*  
*Pohlia acuminata* auct. = *Pohlia elongata* var. *greenii*  
 — *ambigua* (Limpr.) Broth. = *Pohlia elongata* var. *greenii*  
 — *betulina* Warnst. = *Pohlia nutans*  
 — *carnea* (Schimp.) Lindb. = *Pohlia melanodon*  
 — *delicatula* (Hedw.) Grout = *Pohlia melanodon*  
 — *drummondii* var. *gracilis* (Bruch et al.) Podp. = *Pohlia filum*  
 — *elongata* var. *acuminata* auct. = *Pohlia elongata* var. *greenii*  
 — *elongata* var. *acuminata* (Hoppe & Hornsch.) Huebener = *Pohlia elongata*  
 — *elongata* var. *minor* Hartm. = *Pohlia elongata* var. *greenii*  
 — *elongata* var. *polymorpha* (Hoppe & Hornsch.) Nyholm = *Pohlia elongata* var. *greenii*  
 — *filiformis* (Dicks.) A.L.Andrews = *Anomobryum julaceum*  
 — *gracilis* (Bruch et al.) Lindb. = *Pohlia filum*  
 — *gracillima* (Cardot) Horik. & Ochi = *Pohlia leucostoma*  
 — *minor* auct. = *Pohlia elongata* var. *greenii*  
 — *polymorpha* auct. non Hoppe & Hornsch. = *Pohlia elongata* var. *greenii*  
 — *polymorpha* Hoppe & Hornsch. = *Pohlia elongata*  
 — *pulchella* (Hedw.) Lindb. = *Pohlia lescuriana*  
 — *rothii* auct. non (Correns ex Limpr.) Broth. = *Pohlia andalusica*  
 — *schimperi* (Müll.Hal.) A.L.Andrews = *Pohlia nutans* var. *schimperi*  
 — *wahlenbergii* var. *glacialis* (Brid.) E.F.Warb. = *Pohlia wahlenbergii*  
*Polytrichastrum longisetum* var. *anomalum* (Milde) Ignatov & G.L.Sm. = *Polytrichastrum longisetum*  
 — *norwegicum* (Hedw.) Schljakov = *Polytrichastrum alpinum* var. *septentrionale*  
*Polytrichum affine* Funck = *Polytrichum strictum*  
 — *alpestre* Hoppe = *Polytrichum strictum*  
 — *alpinum* Hedw. = *Polytrichastrum alpinum*  
 — *commune* var. *humile* Sw. = *Polytrichum commune*  
 — — var. *nigrescens* Warnst. = *Polytrichum swartzii*  
 — — var. *perigoniale* (Michx.) Hampe = *Polytrichum commune*  
 — — var. *swartzii* (Hartm.) Nyholm = *Polytrichum swartzii*  
 — — var. *uliginosum* Wallr. = *Polytrichum commune* —

- *decipiens* Limpr. = *Polytrichastrum pallidisetum*
- *formosum* Hedw. = *Polytrichastrum formosum*
- *formosum* var. *decipiens* (Limpr.) Loeske = *Polytrichastrum pallidisetum*
- *fragile* Bryhn = *Polytrichastrum alpinum* var. *fragile*
- *gracile* Dicks. = *Polytrichastrum longisetum*
- *juniperinum* var. *affine* (Funck) Brid. = *Polytrichum strictum*
- *juniperinum* var. *alpestre* (Hoppe) Röhl. = *Polytrichum strictum*
- *longisetum* Sw. ex Brid. = *Polytrichastrum longisetum*
- *norvegicum* auct. = *Polytrichastrum sexangulare*
- *ohioense* auct. non Renauld & Cardot = *Polytrichastrum pallidisetum*
- *pallidisetum* Funck = *Polytrichastrum pallidisetum*
- *perigoniale* Michx. = *Polytrichum commune*
- *sexangulare* Floerke ex Brid. = *Polytrichastrum sexangulare*
- *sphaerothecium* (Besch.) Müll.Hal. = *Polytrichastrum sphaerothecium*
- *strictum* var. *alpestre* (Hoppe) Rabenh. = *Polytrichum strictum*
- Pottia angustifolia* (Lindb.) Paris = *Microbryum davallianum*
- *bryoides* (Dicks.) Mitt. = *Tortula protobryoides*
- *caucasica* (Lindb. ex Broth.) Paris = *Tortula caucasica*
- *curvicollis* (Hedw.) Mitt. = *Microbryum curvicolle*
- *davalliana* (Sm.) C.E.O.Jensen = *Microbryum davallianum*
- *davalliana* var. *angustifolia* (Lindb. ex Broth.) Podp. = *Microbryum davallianum*
- *heimii* (Hedw.) Hampe = *Hennediella heimii*
- *heimii* var. *obtusifolia* (Müll.Hal.) I.Hagen = *Hennediella heimii* var. *arctica*
- *intermedia* (Turner) Fűrnr. = *Tortula modica*
- *lanceolata* (Hedw.) Müll.Hal. = *Tortula lanceola*
- *lindbergii* (Kindb.) Warnst. = *Tortula lindbergii*
- *mutica* Venturi = *Microbryum davallianum*
- *recta* (With.) Mitt. = *Microbryum rectum*
- *rufescens* Müll.Hal. = *Microbryum davallianum*
- *starckeana* (Hedw.) Müll.Hal. = *Microbryum starckeanum*
- *truncata* (Hedw.) Bruch et al. = *Tortula truncata*
- Protobryum bryoides* (Dicks.) J.Guerra & M.J.Cano = *Tortula protobryoides*
- Pseudisothecium myosuroides* (Brid.) Grout = *Isothecium myosuroides*
- Pseudoleskeea atrovirens* (Dicks. ex Brid.) Bruch et al. = *Lescuraea incurvata*
- *chilensis* (Lorentz) Ochyra = *Hygroamblystegium varium*
- *decipiens* (Limpr.) Kindb. = *Lescuraea saxicola*
- *filamentosa* (Dicks. ex With.) C.E.O.Jensen = *Lescuraea incurvata*
- *incurvata* (Hedw.) Loeske = *Lescuraea incurvata*
- *korjakorum* Laz. = *Myrinia pulvinata*
- *patens* (Lindb.) Kindb. = *Lescuraea patens*
- *radicosa* (Mitt.) Macoun & Kindb. = *Lescuraea radicea*
- *saviana* (De Not.) Latzel = *Lescuraea saviana*
- *secunda* (Arnell) Broth. = *Lescuraea secunda*
- *tectorum* (Funck ex Brid.) Schimp. = *Pseudoleskeella tectorum*
- Pseudoleskeella nervosa* var. *rupestris* (Berggr.) Nyholm = *Pseudoleskeella rupestris*
- *nervosa* var. *sibirica* (Arnell) E.Lawton = *Pseudoleskeella rupestris*
- *sibirica* (Arnell) P.S.Wilson & D.H.Norris = *Pseudoleskeella rupestris*
- Pseudostereodon procerrimus* (Molendo) M.Fleisch. = *Stereodon procerrimus*
- Psilopilum falcatum* (Steere) H.A.Crum, Steere & L.E.Anderson = *Oligotrichum falcatum*
- Pterigynandrum filiforme* var. *decipiens* (F.Weber & D.Mohr) Limpr. = *Pterigynandrum filiforme*
- Pterygoneurum arcticum* Steere = *Pterygoneurum lamellatum*
- *cavifolium* Jur. = *Pterygoneurum ovatum*
- *medium* (E.S.Salmon) Broth. = *Pterygoneurum ovatum*
- Ptychodium plicatum* (Schleich. ex F.Weber & D.Mohr) Schimp. = *Lescuraea plicata*
- Pylaisia intricata* auct. non (Hedw.) Bruch et al. = *Pylaisia stereodontoides*
- *schimperi* Cardot = *Pylaisia selwynii*
- Pylaisiella* spp. = *Pylaisia* spp.
- Racomitrium aciculare* (Hedw.) Brid. = *Codriophorus acicularis*
- *affine* (Schleich. ex F.Weber & D.Mohr) Lindb. = *Bucklandiella affinis*
- *afoninae* Frisvoll = *Bucklandiella afoninae*
- *aquaticum* (Brid. ex Schrad.) Brid. = *Codriophorus aquaticus*
- *barbuloides* Cardot = *Niphotrichum barbuloides*
- *brevisetum* Lindb. = *Codriophorus brevisetum*
- *canescens* (Hedw.) Brid. = *Niphotrichum canescens*
- *canescens* var. *epilousum* H.Müll. ex Milde = *Niphotrichum ericoides*
- *canescens* var. *ericoides* (Brid.) Hampe = *Niphotrichum ericoides*
- *canescens* var. *latifolium* Lange & C.E.O.Jensen = *Niphotrichum canescens*
- *canescens* var. *robustum* (Lindb. & Arnell) Paris = *Niphotrichum panschii*
- *canescens* var. *strictum* Schlieph. = ? *Niphotrichum ericoides*
- *canescens* var. *vulgare* Loeske = *Niphotrichum canescens*
- *elongatum* Ehrh. ex Frisvoll = *Niphotrichum elongatum*
- *ericoides* (Brid.) Brid. = *Niphotrichum ericoides*
- *fasciculare* (Hedw.) Brid. = *Codriophorus fascicularis*
- *fontinaloides* (Hedw.) Brid. = *Cinclidotus fontinaloides*
- *heterostichum* (Hedw.) Brid. = *Bucklandiella heterosticha*
- *heterostichum* var. *affine* (Schleich. ex F.Weber & D.Mohr) Lesq. = *Bucklandiella affinis*
- *heterostichum* var. *alopecurum* Huebener = *Bucklandiella affinis*
- *heterostichum* var. *gracilescens* Bruch et al. = *Bucklandiella heterosticha*
- *heterostichum* var. *microcarpon* (Hedw.) Boulay = *Bucklandiella microcarpa*

- *heterostichum* var. *sudeticum* (Funck) E.Bauer = *Bucklandiella sudetica*
- *hypnoides* Lindb. = *Racomitrium lanuginosum*
- *japonicum* Dozy & Molk. = *Niphotrichum japonicum*
- *laetum* Besch. & Cardot = *Bucklandiella laeta*
- *macounii* subsp. *alpinum* (E.Lawton) Frisvoll = *Bucklandiella macounii* subsp. *alpina*
- *microcarpum* (Hedw.) Brid. = *Bucklandiella microcarpa*
- *muticum* (Kindb.) Frisvoll = *Niphotrichum muticum*
- *panschii* (Müll.Hal.) Kindb. = *Niphotrichum panschii*
- *patens* (Hedw.) Huebener = *Grimmia ramondii*
- *rapulosum* Lindb. = *Bucklandiella microcarpa*
- *riparium* (Host ex Brid.) Brid. = *Cinclidotus riparius*
- *sudeticum* (Funck) Bruch et al. = *Bucklandiella sudetica*
- *virescens* Lindb. = *Codiophorus fascicularis*
- Rhabdoweisia kusenevae* Broth. = *Rhabdoweisia crispata*
- Rhizomnium perssonii* T.J.Kop. = *Rhizomnium magnifolium*
- *punctatum* var. *elatum* (Schimp.) T.J.Kop. = *Rhizomnium magnifolium*
- Rhodobryum spathulatum* (Hornsch.) Pocz = *Rhodobryum ontariense*
- Rhynchostegiella compacta* (Drumm. ex Müll.Hal.) Loeske = *Conardia compacta*
- *jacquinii* (Garov.) Limpr. = *Rhynchostegiella teneriffae*
- *pallidirostris* (Brid.) Loeske = *Oxyrrhynchium pumilum*
- *pumila* (Wilson) E.F.Warb. = *Oxyrrhynchium pumilum*
- *teesdalei* (Bruch et al.) Limpr. = *Rhynchostegiella teneriffae*
- Rhynchostegium murale* var. *arcticum* I.Hagen = *Rhynchostegium arcticum*
- Rhytidiadelphus squarrosus* var. *calvescens* (Kindb.) Warnst. = *Rhytidiadelphus subpinnatus*
- Rhytidiastrum squarrosus* (Hedw.) Ignatov & Ignatova = *Rhytidiadelphus squarrosus*
- *subpinnatus* (Lindb.) Ignatov & Ignatova = *Rhytidiadelphus subpinnatus*
- Sanionia nivalis* Hedenäs = *Sanionia georgicouncinata*
- Sarmentypnum exannulatum* (Bruch et al.) Hedenäs = *Warnstorfia exannulata*
- *procerum* (Renauld & Arnell) Hedenäs = *Warnstorfia procera*
- *pseudosarmentosum* (Cardot & Thér.) Hedenäs = *Warnstorfia pseudosarmentosa*
- *sarmentosum* (Wahlenb.) Tuom. & T.J.Kop. = *Warnstorfia sarmentosa*
- *trichophyllum* (Warnst.) Hedenäs = *Warnstorfia trichophylla*
- *tundrae* (Arnell) Hedenäs = *Warnstorfia tundrae*
- Saviczia obtusissima* (Broth.) Abramova & I.I.Abramov = *Plagiothecium obtusissimum*
- Schistidium alpicola* auct. non (Hedw.) Limpr. = *Schistidium platyphyllum*
- *alpicola* var. *latifolia* (J.E.Zetterst.) Limpr. = *Schistidium platyphyllum*
- *alpicola* var. *rivulare* (Brid.) Limpr. = *Schistidium rivulare*
- *anodon* (Bruch et al.) Loeske = *Grimmia anodon*
- *apocarpum* f. *submuticum* Broth., nom. nud. = *Schistidium submuticum*
- *apocarpum* subsp. *papillosum* (Culm.) Poelt = *Schistidium papillosum*
- *apocarpum* subsp. *singarense* (Schiffn.) Podp. = *Schistidium helveticum*
- *apocarpum* var. *abrupticostatum* Bryhn = *Schistidium platyphyllum* subsp. *abrupticostatum*
- *apocarpum* var. *boreale* (Poelt) Düll = *Schistidium boreale*
- *apocarpum* var. *brunnescens* (Limpr.) Loeske = *Schistidium brunnescens*
- *apocarpum* var. *confertum* (Funck) H.Möller = *Schistidium confertum*
- *apocarpum* var. *didymontoides* Loeske & L.I.Savicz = *Schistidium platyphyllum* subsp. *abrupticostatum*
- *apocarpum* var. *gracile* (Röhl.) Bruch et al. = *Schistidium spp.*
- *gracile* (Röhl.) Limpr. = *Schistidium spp.*
- *pulvinatum* var. *flaccidum* (De Not.) De Not. = *Schistidium flaccidum*
- *rivulare* var. *latifolium* (J.E.Zetterst.) H.A.Crum & L.E.Anderson = *Schistidium platyphyllum*
- *rivulare* subsp. *latifolium* (J.E.Zetterst.) B.Bremer = *Schistidium platyphyllum*
- *singarense* (Schiffn.) Laz. = *Schistidium helveticum*
- *strictum* auct. non (Turner) Loeske ex Mårtensson = *Schistidium spp.*
- Scleropodiopsis laxiretis* Ignatov = *Rhynchostegium arcticum*
- Scleropodium apiculigerum* (Lindb. & Arnell) J.-P.Frahm = *Sciuro-hypnum ornellanum*
- *ornellanum* (Molendo) Lorentz = *Sciuro-hypnum ornellanum*
- *purum* (Hedw.) Limpr. = *Pseudoscleropodium purum*
- Scorpidium turgescens* (T.Jensen) Loeske = *Pseudocalligeron turgescens*
- Scouleria pulcherrima* Broth. = *Scouleria aquatica* var. *pulcherrima*
- *rschewinii* Lindb. & Arnell = *Scouleria aquatica*
- Seligeria alpestris* T.Schauer = *Seligeria patula*
- *patula* var. *alpestris* (T.Schauer) Gos & Ochyra = *Seligeria patula*
- *pusilla* var. *brevifolia* Lindb. = *S. brevisfolia*
- *tristicha* (Brid.) Bruch et al. = *Seligeria trifaria*
- *tristichoides* var. *patula* (Lindb.) Broth. = *Seligeria patula*
- Semibarbula trachyphylla* (Broth.) Laz. ex Mamatkulov = *Tortula trachyphylla*
- Sharpiella seligeri* (Brid.) Z.Iwats. = *Herzogiella seligeri*
- *turfacea* (Lindb.) Z.Iwats. = *Herzogiella turfacea*
- Sphagnum acutifolium* Schrad. = *Sphagnum capillifolium*
- *affine* var. *flagellare* (Schlieph. ex Röhl) L.Söderstr. & Hedenäs = *Sphagnum affine*
- *amblyphyllum* (Russow) Warnst. = *Sphagnum flexuosum*
- *apiculatum* H.Lindb. = *Sphagnum fallax*
- *auriculatum* var. *inundatum* (Russow) M.O.Hill = *Sphagnum inundatum*
- *capillaceum* (Weiss) Schrank = *Sphagnum capillifolium*
- *capillifolium* var. *tenellum* (Schimp.) H.A.Crum = *Sphagnum rubellum*

- *cuspidatum* var. *majus* Russow = *Sphagnum majus*  
 — *cymbifolium* (Ehrh.) Hedw. = *Sphagnum palustre*  
 — *denticulatum* Brid. = *Sphagnum auriculatum*  
 — *denticulatum* var. *inundatum* (Russow) Kartt. = *Sphagnum inundatum*  
 — *dusenii* (C.E.O.Jensen) Russow & Warnst. = *Sphagnum majus*  
 — *imbricatum* var. *arcticum* Flatberg = *Sphagnum steerei*  
 — *imbricatum* subsp. *affine* (Renauld & Cardot) Flatberg = *Sphagnum affine*  
 — *imbricatum* subsp. *austini* (Sull.) Flatberg = *Sphagnum austinii*  
 — *lescurii* auct. non Sull. = *Sphagnum auriculatum*  
 — *lescurii* var. *inundatum* (Russow) Düll = *Sphagnum inundatum*  
 — *medium* Limpr. = *Sphagnum magellanicum*  
 — *molluscum* Bruch = *Sphagnum tenellum*  
 — *mucronatum* (Russow) Zick. = *Sphagnum fallax*  
 — *moreum* Scop. = *Sphagnum capillifolium*  
 — *obtusum* var. *dusenii* C.E.O.Jensen = *S. majus*  
 — *parvifolium* (Sendtn. ex Warnst.) Warnst. = *Sphagnum angustifolium*  
 — *plumulosum* Röhl. = *Sphagnum subnitens*  
 — *recurvum* subsp. *balticum* Russow = *Sphagnum balticum*  
 — *recurvum* var. *amblyphyllum* (Russow) Warnst. = *Sphagnum flexuosum*  
 — *recurvum* var. *angustifolium* C.E.O.Jensen ex Russow = *Sphagnum angustifolium*  
 — *recurvum* var. *mucronatum* (Russow) Warnst. = *Sphagnum fallax*  
 — *recurvum* var. *parvifolium* Sendtn. ex Warnst. = *Sphagnum angustifolium*  
 — *recurvum* var. *tenu* H.Klinggr. = *Sphagnum angustifolium*  
 — *rigidum* (Nees & Hornsch.) Schimp. = *Sphagnum compactum*  
 — *robustum* (Warnst.) Röhl = *Sphagnum russowii*  
 — *rufescens* (Nees & Hornsch.) Warnst. = *Sphagnum auriculatum*  
 — *subbicolor* auct. non Hampe = *Sphagnum centrale*  
 — *subsecundum* var. *auriculatum* (Schimp.) Schlieph. = *Sphagnum auriculatum*  
 — *subsecundum* var. *contortum* (Schultz) Huebener = *Sphagnum contortum*  
 — *subsecundum* subsp. *inundatum* (Russow) Meyl. = *Sphagnum inundatum*  
 — *subsecundum* var. *inundatum* (Russow) C.E.O.Jensen = *Sphagnum inundatum*  
 — *subsecundum* var. *rufescens* (Nees & Hornsch.) Huebener = *Sphagnum auriculatum*  
 — *subtile* (Russow) Warnst. = *Sphagnum capillifolium*  
 — *warnstorffianum* Du Rietz = *Sphagnum warnstorffii*  
 — *zickendrathii* Warnst. = *Sphagnum obtusum*  
*Splachnum luteum* var. *melanocaulon* Wahlenb. = *Splachnum melanocaulon*  
 — *mnioides* Hedw. = *Tetraplodon mnioides*  
 — *ovatum* Hedw. = *Splachnum sphaericum*  
*Sporledera palustris* (Bruch & Schimp.) Hampe = *Cleistocarpidium palustre*  
*Stegonia latifolia* var. *pilifera* (Brid.) Broth. = *Stegonia pilifera*  
*Stellariomnium* spp. = *Mnium* spp.  
*Stereodon arcuatus* Lindb. = *Calliergonella lindbergii*  
 — *cupressiformis* (Hedw.) Brid. ex Mitt. = *Hypnum cupressiforme*  
 — *cupressiformis* var. *vaucheri* (Lesq.) Lindb. & Arnell = *Stereodon vaucheri*  
 — *fastigiatus* (Brid.) Braithw. = *Drepanium recurvatum*  
 — *recurvatus* Lindb. & Arnell = *Drepanium recurvatum*  
*Streblotrichum convolutum* (Hedw.) P. Beauv. = *Barbula convoluta*  
 — *croceum* (Brid.) Loeske = *Barbula crocea*  
 — *enderesii* (Garov.) Loeske = *Barbula enderesii*  
 — *flavipes* (Bruch et al.) J.J.Amann = *Barbula enderesii*  
*Streptocolea atrata* (Miel. ex Hornsch.) Ochyra & Zarnowiec = *Grimmia atrata*  
*Stroemia gymnostoma* (Brid.) I.Hagen = *Orthotrichum gymnostomum*  
 — *obtusifolia* (Brid.) I.Hagen = *Orthotrichum obtusifolium*  
*Struckia argentata* subsp. *zerovii* (Laz.) Tan et al. = *Struckia enervis*  
 — *zerovii* (Laz.) Hedenäs = *Struckia enervis*  
*Syntrichia alpina* (Bruch et al.) Jur. = *Syntrichia sinensis*  
 — *Syntrichia densa* (Velen.) J.-P.Frahm = *Syntrichia calcicola*  
 — *desertorum* (Broth.) J.J.Amann = *Syntrichia caninervis*  
 — *ferganensis* (Laz.) Laz. = *Syntrichia handelii* var. *ferganensis*  
 — *inermis* (Brid.) Bruch = *Tortula inermis*  
 — *intermedia* Brid. = *Syntrichia montana*  
 — *montana* subsp. *handelii* (Schiffn.) Podp. = *Syntrichia handelii*  
 — *mucronifolia* (Schwägr.) Brid. = *Tortula mucronifolia*  
 — *pagorum* (Milde) J.J.Amann = *Syntrichia laevipila*  
 — *pulvinata* (Jur.) Jur. = *Syntrichia virescens*  
 — *ruraliformis* (Besch.) Cardot = *Syntrichia ruralis* var. *ruraliformis*  
 — *ruralis* var. *arenicola* J.J.Amann, nom. illeg. = *Syntrichia ruralis* var. *ruraliformis*  
 — *ruralis* var. *hirsuta* (Venturi) Podp. = *Syntrichia papillosissima*  
 — *subulata* (Hedw.) F.Weber & D.Mohr = *Tortula subulata*  
*Tayloria serrata* var. *tenuis* (Dicks.) Bruch et al. = *Tayloria tenuis*  
 — *splachnoides* var. *acuminata* (Hornsch.) Huebener = *Tayloria acuminata*  
*Tetraplodon bryoides* Lindb. = *Tetraplodon mnioides*  
*Tetradontium brownianum* var. *ovatum* (Funck) Wijk & Marg. = *Tetradontium ovatum*  
 — *brownianum* var. *repandum* (Funck) Limpr. = *Tetradontium repandum*  
*Thamnum* spp. = *Thamnobryum* spp.  
*Thamnobryum sandei* (Besch.) Z.Iwats. = *Thamnobryum subseriatum*  
*Thuidium abietinum* (Hedw.) Bruch et al. = *Abietinella abietina*

- *abietinum* var. *hystricosum* (Mitt.) Loeske & Lande = *Abietinella abietina*
- *bipinnatum* Mitt. = *Pelekium versicolor*
- *delicatulum* var. *radicans* (Kindb.) H.A.Crum, Steere & L.E.Anderson = *Thuidium assimile*
- *erectum* Duby = *Thuidium delicatulum*
- *glaucinum* (Mitt.) Bosch & Sande Lac. = *Thuidium pristocalyx*
- *gracile* Bruch et al. = *Haplocladium microphyllum*
- *hystricosum* Mitt. = *Abietinella abietina*
- *lanatum* (P.Størm ex Brid.) I.Hagen = *Helodium blandowii*
- *minutulum* (Hedw.) Bruch et al. = *Pelekium minutulum*
- *molkenboeri* Sande Lac. = *Bryonoguchia molkenboeri*
- *philibertii* Limpr. = *Thuidium assimile*
- *pygmaeum* Bruch et al. = *Pelekium pygmaeum*
- *vestitissimum* Besch. = *Bryochenea vestitissima*
- Timmia austriaca* var. *arctica* (Kindb.) Arnell = *Timmia austriaca*
- *cucullata* Michx. = *Timmia megapolitana*
- *elegans* I.Hagen = *Timmia comata*
- *megapolitana* subsp. *bavarica* (Hessl.) Brassard = *Timmia bavarica*
- *megapolitana* var. *bavarica* (Hessl.) Brid. = *Timmia bavarica*
- *norvegica* var. *excurrentis* Bryhn = *Timmia comata*
- Timmiella corniculata* (Wahlenb.) Broth. = ?*Timmiella barbuloides* — {195}
- Tortula aestiva* (Hedw.) P. Beauv. = *Tortula muralis* var. *aestiva*
- *angustifolia* Lindb. ex Broth. = *Microbryum davalianum*
- *calcicolens* W.A.Kramer = *Syntrichia calcicola*
- *caninervis* (Mitt.) Broth. = *Syntrichia caninervis*
- *densa* (Velen.) J.-P.Frahm = *Syntrichia calcicola*
- *desertorum* Broth. = *Syntrichia caninervis*
- *euryphylla* R.H.Zander = *Tortula hoppeana*
- *handelii* Schiffn. = *Syntrichia handelii*
- *handelii* var. *ferganensis* (Laz.) W.A.Kramer = *Syntrichia handelii* var. *ferganensis*
- *heimii* (Hedw.) Mitt. = *Hennediella heimii*
- *heimii* var. *longiseta* Lindb. & Arnell = *Hennediella heimii*
- *hirsuta* (Venturi) Laz. = *Syntrichia papillosissima*
- *intermedia* (Brid.) De Not. = *Syntrichia montana*
- *intermedia* subsp. *handelii* (Schiffn.) Wijk & Margad. = *Syntrichia handelii*
- *laevipila* (Brid.) Schwägr. = *Syntrichia laevipila*
- *laevipila* var. *propagulifera* Lindb. = *Syntrichia laevipila*
- *lamellata* Lindb. = *Pterygoneurum lamellatum*
- *latifolia* Bruch ex Hartm. = *Syntrichia latifolia*
- *montana* Mitt. = *Syntrichia montana*
- *norvegica* (F.Weber) Lindb. = *Syntrichia norvegica*
- *pagorum* (Milde) De Not. = *Syntrichia laevipila*
- *papillosa* Wilson = *Syntrichia papillosa*
- *papillosissima* (Copp.) Broth. = *Syntrichia papillosissima*
- *princeps* De Not. = *Syntrichia princeps*
- *pseudohandelii* J.Fröhl. = *Syntrichia pseudohandelii*
- *pulvinata* (Jur.) Limpr. = *Syntrichia virescens*
- *revolvens* (Schimp.) G.Roth = *Tortula fiorii*
- *ruraliformis* (Besch.) Ingham = *Syntrichia ruralis* var. *ruraliformis*
- *ruraliformis* var. *subpapillosissima* (Bizot & R.B.Pierrot) W.A.Kramer = *Syntrichia ruralis* var. *subpapillosissima*
- *ruralis* (Hedw.) P.Gaertn., B.Mey. & Scherb. = *Syntrichia ruralis*
- *ruralis* subsp. *hirsuta* (Venturi) W.A.Kramer = *Syntrichia papillosissima*
- *ruralis* var. *alpina* Wahlenb. = *Syntrichia norvegica*
- *ruralis* var. *arenicola* Braithw. = *Syntrichia ruralis* var. *ruraliformis*
- *ruralis* var. *calcicola* (J.J.Amann) Barkman = *Syntrichia calcicola*
- *ruralis* var. *crinita* De Not. = *Syntrichia montana*
- *ruralis* var. *densa* Velen. = *Syntrichia calcicola*
- *ruralis* var. *hirsuta* (Venturi) Paris = *Syntrichia papillosissima*
- *ruralis* var. *ruraliformis* (Besch.) De Wild. = *Syntrichia ruralis* var. *ruraliformis*
- *ruralis* var. *virescens* De Not. = *Syntrichia virescens*
- *sinensis* (Müll.Hal.) Broth. = *Syntrichia sinensis*
- *subulata* var. *laevifolia* Lindb. = *Tortula mucronifolia*
- *velenovskyi* Schiffn. = *Hilpertia velenovskyi*
- *virescens* (De Not.) De Not. = *Syntrichia virescens*
- Trichodon cylindricus* (Hedw.) Schimp. = *Ditrichum cylindricum*
- Trichostomopsis aaronis* (Lorentz) S.Agnew & C.C.Towns. = *Didymodon australasiae*
- *australasiae* (Hook. & Grev.) H.Rob. = *Didymodon australasiae*
- Trichostomum brevifolium* Sendtn. ex Müll.Hal. = *Trichostomum crispulum*
- *crispulum* var. *viridulum* (Bruch) Dixon = *Trichostomum viridulum*
- *cylindricum* (Bruch ex Brid.) Müll.Hal. = *Oxystegus tenuirostris*
- *tenuirostre* (Hook. & Taylor) Lindb. = *Oxystegus tenuirostris*
- Ulota americana* (P.Beauv.) Limpr. = *Ulota hutchinsiae*
- *crispula* Bruch = *Ulota crispa*
- Usmania campylopoda* Laz. = *Campylostelium pitardii*
- Warnstorfia fluitans* var. *falcata* (Sanio ex C.E.O.Jensen) H.A.Crum & L.E.Anderson = *Warnstorfia fluitans*
- *h-schulzei* (Limpr.) Loeske = *Warnstorfia fluitans*
- *kurilensis* (Smirnova) Schljakov = *Warnstorfia fluitans*
- Weissia controversa* var. *crispata* (Nees & Hornsch) Nyholm = *Weissia fallax*
- *controversa* var. *wimmeriana* (Sendtn.) Blockeel & A.J.E.Sm. = *Weissia wimmeriana*
- *microstoma* (Hedw.) Müll.Hal. = *Weissia brachycarpa*
- *platyphylla* Broth. = *Weissia planifolia*
- *triumphans* (De Not.) M.O.Hill = *Trichostomum triumphans*
- *tortilis* (Schwägr.) Müll.Hal. = *Weissia condensata*
- *Zygodon baumgartneri* Malta = *Zygodon rupestris*
- *viridissimus* var. *dentatus* Limpr. = *Zygodon dentatus*
- *viridissimus* var. *rupestris* Hartm. = *Zygodon rupestris*

## LITERATURE CITED

1. [ABOLINA, A.] АБОЛИНЬ А.А. 1965. Листостебельные мхи Латвийской ССР. – [Mosses of Latvian SSR] *Riga*, 331 pp.
2. ABOLINA, A. 1975. Vismazaka sūna Latvija. – [The smallest moss in Latvia] *Padomju Jaunatne* **39**.
3. ABOLINA, A. 2001. Latvijas sūnu saraksts. – [List of bryophytes of Latvia] *Latvijas Vegetācija* **3**: 47-87.
4. ABOLINA, A., unpublished data.
5. ABOLINA, A. & I. RERIHA 2005. West-Latvian bryophytes – the peculiarities of separate species distribution and novelties. – В кн.: «Актуальные проблемы бриологии», Тр. междунар. сов. повс. 90-летию со дня рожд. А.Л. Абрамовой. СПб, 22-25 ноября 2005. [In: Proc. Int. Conf. "Actual Problems of Bryology" devoted to 90<sup>th</sup> Anniversary of A.L. Abramova. St. Petersburg, 22-25 November 2005]: 9-13.
6. [ABRAMOV, I.I. & K.Yu. AVACHEV] АБРАМОВ И.И., К.Ю. АБАЧЕВ 1968. О мхах Дагестана. – [On the bryophytes of Dagestan] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* '1968': 311-322.
7. [ABRAMOV, I.I., A.L. ABRAMOVA & I.V. CZERNY-ADJEVA] АБРАМОВ И.И., А.Л. АБРАМОВА, И.В. ЧЕРНЯДЬЕВА 1990. *Tortula velenovskyi* Schiffn. – новый вид с плато Пutorана (Среднесибирское плоскогорье). – [Tortula velenovskyi Schiffn. – a new species from the Putorana Plateau (Central-Siberian Highland)] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* **27**: 118-124.
8. [ABRAMOV, I.I., A.L. ABRAMOVA & I.V. SIROTINA] АБРАМОВ И.И., А.Л. АБРАМОВА, И.В. СИРОТИНА 1986. Новые и интересные виды мхов из Туркмении. – [New and interesting mosses from the Turkmenistan] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* **23**: 197-204.
9. [ABRAMOV, I.I., A.L. ABRAMOVA & I.V. SIROTINA] АБРАМОВ И.И., А.Л. АБРАМОВА, И.В. СИРОТИНА 1987. Крымско-кавказские связи флоры мхов Туркмении. – [The Crimea-Caucasian relationships of the moss flora of the Turkmenistan] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* **24**: 179-184.
10. [ABRAMOV, I.I., A.L. ABRAMOVA & I.V. SIROTINA] АБРАМОВ И.И., А.Л. АБРАМОВА, И.В. СИРОТИНА 1989. О видах рода *Entosthodon* Schwaegr. (сем. Funariaceae) из Средней Азии. – [On the species of the genus *Entosthodon* Schwaegr. (family Funariaceae) from the Middle Asia] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* **26**: 124-132.
11. [ABRAMOV, I.I., A.L. ABRAMOVA & I.V. SIROTINA] АБРАМОВ И.И., А.Л. АБРАМОВА, И.В. СИРОТИНА 1989. К бриофлоре Туркмении. 2. – [On the bryoflora of the Turkmenistan. 2] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* **26**: 133-136.
- 11а. [ABRAMOV, I. I. & L. A. VOLKOVA] АБРАМОВ, И.И., Л.А. ВОЛКОВА 1998. Определитель листостебельных мхов Карелии. — [Handbook of mosses of Karelia] *Arctoa* **7**, suppl. 1: 390 pp.
12. [ABRAMOVA, A.L.] АБРАМОВА А.Л. 1956. *Indusiella thianschanica* Broth. et C. Müll. (анатомо-морфологический очерк). – [*Indusiella thianschanica* Broth. et C. Müll., morphological overview] *Бот. матер. Омд. спор. раст. Бот. ин-ма АН СССР [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR]* **11**: 186-191.
13. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1950. Несколько видов мхов новых для Кавказа. – [Some moss species new to Caucasus] *Бот. матер. Омд. спор. раст. Бот. ин-ма АН СССР [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR]* **6**(7-12): 216-218.
14. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1952. О некоторых редких видах мхов на Кавказе. – [On some rare species of mosses in the Caucasus] *Бот. матер. Омд. спор. раст. Бот. ин-ма АН СССР [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR]* **8**: 196-201.
15. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1953. О новых и интересных видах мхов и печеночников с Кавказа. – [New and interesting species of mosses and hepatics in the Caucasus] *Бот. матер. Омд. спор. раст. Бот. ин-ма АН СССР [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR]* **9**: 183-187.
16. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1956. *Hydrogonium Ehrenbergii* (Lor.) Jaeg. из Средней Азии. – [*Hydrogonium Ehrenbergii* (Lor.) Jaeg. in the Middle Asia] *Бот. матер. Омд. спор. раст. Бот. ин-ма АН СССР [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR]* **11**: 191-200.
17. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1960. Новый род и новые виды мхов для СССР: *Bryobrittonia Williams* – *B. pellucida Williams* и *Hypnum subimponens* Lesq. – [A new genus and new species of mosses for the USSR: *Bryobrittonia Williams* – *B. pellucida Williams* and *Hypnum subimponens* Lesq.] *Бот. матер. Омд. спор. раст. Бот. ин-ма АН СССР [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR]* **13**: 294-305.
18. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1962. О некоторых видах Кавказской бриофлоры. – [On some species of the Caucasian bryoflora] *Бот. матер. Омд. спор. раст. Бот. ин-ма АН СССР [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR]* **15**: 166-170.
19. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1964. Мхи ущелья Кондара (Таджикская ССР). – [Mosses of Kondara Canyon (Tadzhikskaya SSR)] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* '1964': 340-341.
20. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1966а. Редкие виды мхов Сибири и Дальнего Востока. – [Rare bryophytes of the Siberia and the Far East] *Новости сис. низш. раст. [Novosti Sist. Nizsh. Rast.]* '1966': 302-315.
21. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1966б. О мхах Молдавской ССР.



- [On the bryophytes of Moldavian SSR] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] '1966': 315-326.
22. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1968. Новые и интересные виды бриофлоры СССР. – [New and interesting species of the bryoflora of the USSR] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] '1968': 298-302.
23. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1969. Мхи. – [Bryophytes] *В кн.: Растительные сообщества и животное население степей и пустынь Центрального Казахстана (ред. Л.В. Арнольди, А. А. Юнатов) Л., Наука [In: Arnoldi, L. V. & A. A. Yunatov (eds.), Rastitelnyye soobshchestva i zhivotnoye naselenie stepей i pustyn tsentralnogo Kazakhstana. Leningrad, Nauka]: 291-295.*
24. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1969 [1970]. Новый мох для Дальнего Востока – *Archidium alternifolium* (Hedw.) Mitt. – [A new moss for the Far East – *Archidium alternifolium* (Hedw.) Mitt.] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 6: 262-265.
25. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1970а. Об ареале *Funaria aequidens* Lindb. – [On the distribution of *Funaria aequidens* Lindb.] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 7: 342-347.
26. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1970б. Сфагновые мхи в горах Средней Азии. – [Sphagna in the mountains of the Middle Asia] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 7: 333-342.
27. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1972. Об изменчивости видов рода *Dicranoweisia* Lindb. в СССР. – [On the variability of species of the genus *Dicranoweisia* Lindb. in the USSR] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 9: 343-349.
28. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1974. Обзор бриофлоры Кавказа. – [The outline of the bryoflora of the Caucasus] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 11: 304-311.
29. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1975. *Hypnum plumaeforme* Wils. на Кавказе. – [*Hypnum plumaeforme* Wils. in the Caucasus] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 12: 283-289.
30. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1977. К бриофлоре Дальнего Востока. – [On the bryoflora of the Far East] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 14: 212-219.
31. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1979. Редкие и интересные виды мхов с Кавказа. – [Rare and interesting species of mosses in the Caucasus] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 16: 158-160.
32. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1983. Род *Leptopterigynandrum* C. Muell., новый для бриофлоры СССР. – [*Leptopterigynandrum* C. Muell., a new genus for the bryoflora of the USSR] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 20: 161-168.
33. [ABRAMOVA, A.L. & I.I. ABRAMOV] АБРАМОВА А.Л., И.И. АБРАМОВ 1985. К систематике рода *Brotherella* Loeske. – [On the taxonomy of the genus *Brotherella* Loeske] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 22: 206-210.
34. [ABRAMOVA, A.L. & U.K. МАМАТКУЛОВ] АБРАМОВА А.Л., У.К. МАМАТКУЛОВ 1968. Интересные мхи из семейства Pottiaceae из Средней Азии. – [Interesting mosses of the family Pottiaceae from the Middle Asia] *Докл. АН Тадж. ССР [Dokl. Akad. Nauk Tadj. SSR]* 11(3): 53-56.
35. [ABRAMOVA, A.L., L.I. SAVICZ-LJUBITSKAYA & Z.N. SMIRNOVA] АБРАМОВА А.Л., Л.И. САВИЧ-ЛЮБИЦКАЯ, З.Н. СМИРНОВА 1961. Определитель листостебельных мхов Арктики СССР. – [Handbook of mosses of Arctic of the USSR] *Л., Изд-во АН СССР [Leningrad, Izd. Akad. Nauk SSSR]*, 716 pp.
36. [ABRAMOVA, A.L. & N.A. STEPANOVA] АБРАМОВА А.Л., Н.А. СТЕПАНОВА 1986. К флоре мхов нижнего течения р. Колымы. – [On the moss flora of the lower course of Kolyma River] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 23: 208-214.
37. [ABRAMOVA, L.I., L.V. BARDUNOV, I.A. GUBANOV, M.S. IGNATOV, S.N. KORENYUK, V.S. NOVIKOV, D.A. PETELIN, N.N. STEZURA] АБРАМОВА Л.И., Л.В. БАРДУНОВ, И.А. ГУБАНОВ, М.С. ИГНАТОВ, С.Н. КОРЕНЮК, В.С. НОВИКОВ, Д.А. ПЕТЕЛИН, Н.Н. СТЕЦУРА 1987. Мохообразные и сосудистые растения Зейского заповедника. – [Bryophytes and vascular plants of Zeyskiy Nature Reserve] *Флора и фауна заповедников. Вып. 1. Москва [Flora i fauna zapovednikov. 1. Mochobraznyye i sosudistyye rasteniya Zeyskogo zapovednika. Moscow]*, 70 pp.
38. [AFONINA, O.M.] АФОНИНА О.М. 2000. Мохообразные. – [Bryophytes] *Флора и фауна заповедников. Вып. 88. Мохообразные и лишайники заповедника «Остров Врангеля». Москва [Flora i fauna zapovednikov. 88. Mochobraznyye i lishajniki zapovednika "Ostrov Vrangelya". Moscow]: 6-46.*
39. [AFONINA, O.M.] АФОНИНА О.М. 2002. Дополнения к флоре мхов архипелага Северная Земля. – [Additions to the moss flora of Severnaya Zemlya Archipelago] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] 36: 203-210.
40. [AFONINA, O.M.] АФОНИНА О.М. 2004а. Конспект флоры мхов Чукотки. – [Moss flora of Chukotka] *СПб, БИН РАН [Sankt-Petersburg, Bot. Inst. RAS]*, 260 pp.
41. [AFONINA, O.M.] АФОНИНА О.М. 2004б. Виды *Hypnum* секции *Hamulosa* (Musci, Нурпассеае) в России. – [*Hypnum* sect. *Hamulosa* (Musci, Нурпассеае) in Russia] *Arctoa* 13: 9-28.
42. [AFONINA, O.M.] АФОНИНА О.М. 2006а. Мохообразные. – [Bryophyta] *В кн.: Красная книга Ненецкого автономного округа (ред. Матвеева Н.В.), Нарьян-Мар [In: Matveeva, N.V. (ed.), Red Data Book of Nenetskiy Autonomous District]: 118-125.*



- 4] Київ, Національна Академія Наук України [Kyiv, Natsional'na Akademiya Nauk Ukraini], 256 pp.
67. BAKALIN, V.A. & V.Ya. CHERDANTSEVA 2006. Bryophytes of northern Kuril Islands (North-West Pacific). – *Arctoa* **15**: 131-153.
68. [BARDUNOV, L.V.] БАРДУНОВ Л.В. 1960. Мхи голцов Баргузинского хребта. – [Mosses of alpine belt of Barguzin Range] *Тр. Баргузин. гос. зап-ка (Улан-Удэ)*, Вып. 2 [Tr. Barguzin. Gos. Zap. (Ulan-Ude), part 2]: 135-145.
69. [BARDUNOV, L.V.] БАРДУНОВ Л.В. 1969. Определитель листостебельных мхов Центральной Сибири. – [Handbook of mosses of the Central Siberia] *Л., Наука [Leningrad, Nauka]*, 329 pp.
70. [BARDUNOV, L.V.] БАРДУНОВ Л.В. 1974. Листостебельные мхи Алтая и Саян. – [Mosses of the Altai and Sayan Mts.] *Новосибирск, Наука [Novosibirsk, Nauka]*, 168 pp.
71. [BARDUNOV, L.V.] БАРДУНОВ Л.В. 1990а. Мохообразные. – [Mosses] *В кн.: Уникальные объекты живой природы бассейна Байкала (ред. Попов Л. В.), Новосибирск, Наука [In: Popov, L. V. (ed.), Unikalnye ob'ekty zhivoy prirody basseina Baikala. Novosibirsk, Nauka]*: 49-50.
72. [BARDUNOV, L.V.] БАРДУНОВ Л.В. 1990б. Восточноазиатские виды во флоре мхов Южной Сибири. – [East-Asian species in moss flora of South Siberia] *Бот. Журн. [Bot. Zhurn.]* **75**(5): 636-643.
73. [BARDUNOV, L.V.] БАРДУНОВ Л.В. 1992. Обзор бриофлоры Сибири. – [An overview of bryoflora of Siberia] *Новосибирск, Наука [Novosibirsk, Nauka]*, 96 pp.
74. [BARDUNOV, L.V.] БАРДУНОВ Л.В. 2000. Материалы по флоре листостебельных мхов Витимского государственного заповедника. – [Materials on flora of mosses of Vitimsky State Reserve] *Иркутск [Irkutsk]*, 35 pp.
75. [BARDUNOV, L.V. & V.Ya. CHERDANTSEVA] БАРДУНОВ Л.В., В.Я. ЧЕРДАНЦЕВА 1978. Мохообразные. – [Bryophytes] *В кн.: Флора и растительность Уссурийского заповедника. М., "Наука" [In: Flora i rastitel'nost' Ussurijskogo zapovednika. Moscow, "Nauka"]*: 127-148.
76. [BARDUNOV, L.V. & V.Ya. CHERDANTSEVA] БАРДУНОВ Л.В., В.Я. ЧЕРДАНЦЕВА 1982. Листостебельные мхи Южного Приморья. – [Mosses of the South of Primorskij Province] *Новосибирск, Наука [Novosibirsk, Nauka]*, 208 pp.
77. [BARDUNOV, L.V. & V.Ya. CHERDANTSEVA] БАРДУНОВ Л.В., В.Я. ЧЕРДАНЦЕВА 1984. Материалы по флоре листостебельных мхов Южных Курильских островов. – [Contributions to the moss flora of the southern Kuril Islands] *В кн.: Систематико-флористические исследования флоры споровых растений Дальнего Востока (ред. Черданцева В.Я.). Владивосток, ДВНЦ АН СССР [In: Cherdantseva V.Ya. (ed.), Sistematiko-floristicheskie issledovaniya flory sporyvykh rastenij Dal'nego Vostoka. Vladivostok, Dal'nevost. Nauchn. Tsentr Akad. Nauk SSSR]*: 34-53.
78. [BARDUNOV, L.V. & V.Ya. CHERDANTSEVA] БАРДУНОВ Л.В., В.Я. ЧЕРДАНЦЕВА 2006. Мохообразные. – [Bryophytes] *В кн.: Флора, растительность и микобиота заповедника «Уссурийский» (ред. Васильева Лар.Н.). Владивосток, Дальнаука [In: Vasilieva, Lar. N. (ed.), Flora, rastitel'nost' i micobiota of the reserve "Ussurijsky". Vladivostok, Dal'nauka]*: 51-78.
79. [BARDUNOV, L.V., S.K. GAMBARYAN & V.Ya. CHERDANTSEVA] БАРДУНОВ Л.В., С.К. ГАМБАРЯН, В.Я. ЧЕРДАНЦЕВА 2002. Мохообразные. – [Bryophytes] *В кн.: Флора, микобиота и растительность Лазовского заповедника (ред. Егорова Л.Н.), Владивосток, Изд-во Русский Остров [In: Egorova, L.N. (ed.), Flora, mycobiota i rastitel'nost' Lazovskogo zapovednika. Vladivostok, «Pusskij Ostrov»]*: 49-67.
80. BEDNAREK-OCHYRA, H. 1993. The taxonomic status of *Racomitrium canescens* fo. *acicularioides* (Musci, Grimmiaceae). – *Fragm. Florist. et Geobot.* **38** (2):741-743.
81. BEDNAREK-OCHYRA, H. 2006. A taxonomic monograph of the moss genus *Codiophorus* P. Beauv. (Grimmiaceae). – *Krakow, W.Szafer Inst. of Botany, Polish Acad. Sci.*, 276 pp.
82. BELKINA, O.A.] БЕЛКИНА О.А. 2001. Находка *Tetrodontium repandum* (Funck) Schwaegr. (Musci) в России. – [New record of *Tetrodontium repandum* (Funck) Schwaegr. (Musci) in Russia] *Arctoa* **10**: 71-74.
83. [BELKINA, O.A.] БЕЛКИНА О.А. 2003. Андреа Блюгта. – [Andreaea blytii Schimp.] *В кн.: Красная Книга Мурманской области (ред. Н.А.Константинова и др.). Мурманск, Мурманское книжное издательство [In: Konstantinova, N.A. & al., (eds.), Red Data book of the Murmansk Province. Murmansk, Murmanskoe Knizhnoe Izdatelstvo]*: 133-134.
84. [BELKINA, O.A., N.A. KONSTANTINOVA & V.A. KOSTINA] БЕЛКИНА О.А., Н.А. КОНСТАНТИНОВА, В.А. КОСТИНА 1991. Флора высших растений Ловозерских гор. – [The flora of higher plants of Lovozerskiye Mountains] *СПб., Наука. [St.-Petersburg, Nauka]*, 206 pp.
85. [BELKINA, O.A. & A.Yu. LIKHACHEV] БЕЛКИНА О.А., А.Ю. ЛИХАЧЕВ 1999. Некоторые особенности флоры листостебельных мхов Кандалакшского заповедника (Белое море). – [Some peculiarities of the moss flora of Kandalaksha State Reserve (White Sea, North-West Russia)] *Бот. Журн. [Bot. Zhurn.]* **84**(11): 36-49.
86. [BELKINA, O.A. & A.YU. LIKHACHEV] БЕЛКИНА О.А., А.Ю. ЛИХАЧЕВ 2004. Флора листостебельных мхов горных массивов Чильтальд и Ионн-Ньюгоайв (Мурманская область). – [Moss flora of mountains Chiltald and Ionn-Njugoayv (Murmansk Province)] *Arctoa* **13**: 211-222.
87. [BELKINA, O.A. & A.Yu. LIKHACHEV] БЕЛКИНА О.А., А.Ю. ЛИХАЧЕВ 2005. Флора листостебельных мхов Сальных тундр (Мурманская область). – [Moss flora of the Salnye tundry (Murmansk Province)] *Arctoa* **14**: 177-196.
88. [BEZGODOV, A.G.] БЕЗГОДОВ А.Г. 2002. К бриофлоре окрестностей Кунгура (Пермская область). – [On the bryoflora of the Kungur City environs (Perm Province)] *Arctoa* **11**: 53-62.
89. [BEZGODOV, A.G.] БЕЗГОДОВ А.Г. 2000. Мхи города Перми (Средний Урал). – [Mosses of the Perm City (Middle Ural, Russia)] *Arctoa* **9**: 141-150.

90. [BEZGODOV, A.G., I.L. GOLDBERG, M.V. DULIN, T.P. SHUBINA & I.V. KUCHEROV] БЕЗГОДОВ А.Г., И.Л. ГОЛЬДБЕРГ, М.В. ДУЛИН, Т.П. ШУБИНА, И.В. КУЧЕРОВ 2003. Дополнения к бриофлоре Печоро-Ильчского биосферного заповедника (Северный Урал). – [Additions to the bryoflora of the Pechora-Ilych biosphere reserve (Northern Urals)] *Arctoa* **12**: 169-178.
91. [BEZGODOV A.G., E.A. IGNATOVA & M.S. IGNATOV] БЕЗГОДОВ А.Г., Е.А. ИГНАТОВА, М.С. ИГНАТОВ 2006. Новые находки мхов в Пермской области. 1. – [New moss records from Perm Province. 1] *Arctoa* **15**: 253-254.
92. [BLAGODATSKIKH, L.S.] БЛАГОДАТСКИХ Л.С. 1972. К бриофлоре Западного Таймыра. – [On bryoflora of the Western Taimyr] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **9**: 358-364.
93. [BLAGODATSKIKH, L.S.] БЛАГОДАТСКИХ Л.С. 1973. Новые и редкие виды мхов для Таймырского полуострова. – [New and rare mosses for the Taimyr Peninsula] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **10**: 325-332.
94. [BLAGODATSKIKH, L.S.] БЛАГОДАТСКИХ Л.С. 1984. Листостебельные мхи Колымского нагорья. – [Mosses of Kolyma Upland] *Магадан, Ин-т Биолог. Пробл. Севера [Magadan, Inst. Biol. Problem Severa]*, **47** pp.
95. [BLAGODATSKIKH, L.S.] БЛАГОДАТСКИХ Л.С. 1989. Редкие виды листостебельных мхов Колымского нагорья. – [Rare mosses of Kolyma Upland] *В кн.: Проблемы бриологии (ред. И.И.Абрамов). Л., Наука [In: Abramov, I.I. (ed.), Problemy Briologii]: 43-48.*
96. [BLAGODATSKIKH, L.S., A.L.ZHUKOVA & N.V. MATVEYEVA] БЛАГОДАТСКИХ Л.С., А.Л. ЖУКОВА, Н.В. МАТВЕЕВА 1979. К флоре листостебельных и печеночных мхов окрестностей бухты Марии Прончищевой (Северо-Восточный Таймыр). – [On flora of mosses and hepatics of vicinity of Maria Pronchishcheva Bay (North-Eastern Taimyr)] *В кн.: Арктические тундры и полярные пустыни Таймыра. Л.: Наука [In: Arkticheskie tundry i polyarnye pustyni Taimyra. Leningrad, Nauka]: 133-139.*
97. BLOM, H.H. 1996. A revision of the Schistidium apocarpum complex in Norway and Sweden. – *Bryoph. Bibl.* **49**: 1-333.
98. BLOM, H.H. 1998. Genus Schistidium. – *In: Nyholm, E. Illustrated flora of Nordic mosses, Fasc. 4. Aulacomniaceae – Meesiaceae – Catosciaceae – Bartramiaceae – Timmiaceae – Encalyptaceae – Grimmiaceae – Ptychomitriaceae – Hedwigiaceae – Orthotrichaceae. Copenhagen & Lund: Nordic Bryological Society: 287-330.*
99. BLOM, H.H., E.A. IGNATOVA & O.M. AFONINA 2006. New records of *Schistidium* (Grimmiaceae, Musci) in Russia. – *Arctoa* **15**: 187-194.
100. [BOYCHUK, M.A.] БОЙЧУК М.А. 2001. К флоре листостебельных мхов заповедника Костомукшский и окрестностей города Костомукша (Карелия). – [On moss flora of Kostomukshsky Nature Reserve and Kostomuksha vicinity (Karelia)] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **35**: 217-229.
101. BOYCHUK, M.A. & T. ANTI 2005. Bryological results of the expeditions by A. K. Cajander and J. I. Lindroth to Karelia and Onega River in 1898–1899. – *В кн.: «Актуальные проблемы бриологии», Тр. междунар. сов. повс. 90-летию со дня рожд. А.Л. Абрамовой. СПб, 22-25 ноября 2005. [In: Proc. Int. Conf. "Actual Problems of Bryology" devoted to 90th Anniversary of A.L. Abramova. St. Petersburg, 22-25 November 2005]: 33-37.*
102. BROTHERUS, V.F. 1892. Enumeratio muscorum Caucasii. – *Acta Soc. Sci. Fenn.* **19**(12): 1-170.
103. BROTHERUS, V.F. 1898. Indusiella, eine neue Laubmoos Gattung aus Central-Asien. – *Bot. Centralbl.* **75** (11): 1-2.
104. [BROTHERUS, V.F.] БРОТЕРУС В.Ф. 1914. Мхи (Andreaeales; Bryales, часть 1-ая). – [Mosses (Andreaeales; Bryales, part 1)] *В кн.: Федченко, Б.А. Флора Азиатской России. Вып. 4. Петроград, Переселенческое управление [In: Fedchenko, B.A. Flora Aziatskoj Rossii, Pt. 4. Petrograd, Pereselencheskoe Upravlenie], 1-78.*
105. [BROTHERUS, V.F.] БРОТЕРУС В.Ф. 1918. Мхи (Bryales, часть 2-ая). – [Mosses (Bryales, part 2)] *В кн.: Федченко, Б.А. Флора Азиатской России. Вып. 13. Петроград, Переселенческое управление [In: Fedchenko, B.A. Flora Aziatskoj Rossii, Pt. 13. Petrograd, Pereselencheskoe Upravlenie], 79-182.*
106. [BROTHERUS, V.F.] БРОТЕРУС В.Ф. 1965. Новые виды мхов из Азиатской части СССР. – [New species of mosses from the Asian Russia] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **'1965'**: 273-277.
107. BRUMMITT, R.K. & C.E. POWELL 1992. Authors of plant names. – *Kew, Royal Botanic Gardens.*
108. BURLEY, J.S. & N.M. PRITCHARD 1990. Revision of the genus *Ceratodon* (Bryophyta). – *Harvard Papers in Botany* **2**: 17-76.
109. [CHERDANTSEVA, V.Ya.] ЧЕРДАНЦЕВА В.Я. 1976. Конспект флоры листостебельных мхов Южного Сахалина. – [Conspectus of mosses of South Sakhalin] *В кн.: Низшие растения Дальнего Востока (ред. Л.Н.Васильева, М.М.Назарова), ДВО, БПИ [In: Vasilieva, L.N. & M.M.Nazarova (eds.), Nizshie rasteniya Dal'nego Vostoka. Dal'nevostochnyi Nauchnyi Centr, Biologo-Pochvennyi Institut]: 140-177.*
110. [CHERDANTSEVA, V.Ya.] ЧЕРДАНЦЕВА В.Я. 1989. Редкие и интересные виды мхов Дальнего Востока СССР. – [Rare and interesting moss species for the Far East of the USSR] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **26**: 157-159.
111. [CHERDANTSEVA, V.Ya.] ЧЕРДАНЦЕВА В.Я. 2002 [2003]. Листостебельные мхи Сихотэ-Алинского биосферного заповедника (Дальний Восток, Приморский край). – [Mosses of the Sikhote-Alinsky Biosphere Reserve (Russian Far East, Primorsky Territory)] *Arctoa* **11**: 229-244.
112. [CHERDANTSEVA, V.Ya.] ЧЕРДАНЦЕВА В.Я. 2006. Листостебельные мхи (Bryopsida) острова Монерон. – [Mosses (Bryopsida) of Moneron Island] *В кн.: Растительный и животный мир острова Монерон (Материалы Международного Сахалинского проекта).*

- Владивосток, Дальнаука [In: *Rastitelnyy i zhivotnyy mir ostova Moneron (Materialy Mezhdunarodnogo Sakhalinskogo Projekta), Vladivostok, Dal'nauka*]: 48-54.
113. [CHERDANTSEVA, V.Ya. & S.K. GAMBARYAN] ЧЕРДАНЦЕВА В.Я., С.К. ГАМБАРЯН 1986. Мохообразные. – [Bryophytes] В кн.: *Флора и растительность Большехеихирского заповедника. Владивосток [In: Flora i rastitelnost' Bolshekhkhzhirskogo zapovednika. Vladivostok]*: 79-101.
114. CHERDANTSEVA, V.YA., K.V. GOROBETS, J. HARPEL, M.S. IGNATOV, E.A. IGNATOVA, V.V. TELEGANNOVA 2006. New moss records from Sakhalinskaya Province. 1. Sakhalin. – *Arctoa* **15**: 263-268.
115. CHERDANTSEVA, V.YA., M.S. IGNATOV & E.A. IGNATOVA 2006a. New moss records from Sakhalinskaya Province. 2. Kunashir. – *Arctoa* **15**: 268.
116. CHERDANTSEVA, V.YA., M.S. IGNATOV & E.A. IGNATOVA 2006b. New moss records from Primorsky Territory. 1. – *Arctoa* **15**: 263.
117. CHIKOVANI, N., T. SVANIDZE 2004. Checklist of bryophyte species of Georgia. – *Braun-Blanquetia* **34**: 97-116.
118. [CHURAKOVA, E.N.] ЧУРАКОВА Е.Н. 2002. Листостебельные мхи таёжной зоны Архангельской области. – [Mosses of the taiga zone of the Arkhangelsk Province (northern European Russia)] *Arctoa* **11**: 351-392.
119. CHURCHILL, S.P. 1987. Systematics and biogeography of Jaffuelobryum (Grimmiaceae). – *Mem. New York Bot. Gard.* **45**: 691-708.
120. CORLEY, M.F.V. & A.C. CRUNDWELL 1991. Additions and amendments to the mosses of Europe and the Azores. – *J. Bryol.* **16**: 337-356.
121. CORLEY, M.F.V., A.C. CRUNDWELL, R. DÜLL, M.O. HILL & A.J.E. SMITH 1981. Mosses of Europe and the Azores: an annotated list of species, with synonyms from the recent literature. – *J. Bryol.* **11**: 609-689.
122. CRUM, H.A. & L.E. ANDERSON 1981. Mosses of Eastern North America (Vol. 1-2). – *New York, Colombia University Press*, 1328 pp.
123. CRUM, H., W.C. STEERE & L.E. ANDERSON 1979. A new list of mosses of North America north of Mexico. – *Bryologist* **76**: 85-130.
124. CRUNDWELL, A.C., E. NYHOLM 1962. A study of *Campyllum hispidulum* and related species. – *Trans. Brit. Bryol. Soc.* **4**: 194-200.
125. CRUNDWELL, A.C. & E. NYHOLM 1974. Funaria muhlenbergii and related European species. – *Lindbergia* **2**: 222-229.
126. [CZERNYADJEVA, I.V.] ЧЕРНЯДЬЕВА И.В. 1992. Анализ активности видов бриофлоры северо-запада плато Путорана. – [Analysis of species activity in bryoflora of North-West of Putorana Plateau] *Новости Сист. Низш. Раст.* **28**: 161-165.
127. [CZERNYADJEVA, I.V.] ЧЕРНЯДЬЕВА И.В. 1994a. Флора листостебельных мхов окрестностей стационара "Собь" (Полярный Урал). – [The moss flora of the region of Sob Station (Polar Ural)] *Arctoa* **3**: 133-138.
128. [CZERNYADJEVA, I.V.] ЧЕРНЯДЬЕВА И.В. 1994b. Листостебельные мхи низовьев реки Чугорьяха (Юго-западная часть Гыданского полуострова, Западно-сибирская Арктика). – [Mosses of the lower reaches of the Chugor'yakha River (south-western part of the Gydan Peninsula, West Siberian Arctic)] *Бот. Журн. [Bot. Zhurn.]* **79**(8): 57-67.
129. CZERNYADJEVA, I.V. 1995a. *Philonotis yezoana* Besch. et Card. ex Card. (Bartramiaceae, Musci) new to Russia. – *Arctoa* **4**: 15-16.
130. CZERNYADJEVA, I.V. 1995b. *Pohlia cardotii* (Bryaceae, Musci) found in Eurasia (Russia, Kamtchatka Peninsula). – *Ann. Bot. Fennici* **32**: 137-139.
131. [CZERNYADJEVA, I.V.] ЧЕРНЯДЬЕВА И.В. 1997. Виды рода *Pohlia* (Musci) с выводковыми почками. – [The species of the genus *Pohlia* (Musci) with propagula] *Бот. Журн. [Bot. Zhurn.]* **82**(1): 102-122.
132. CZERNYADJEVA, I.V. 1999a. On the distribution of propaguliferous species of *Pohlia* (Bryaceae, Musci) in Russia. – *Arctoa* **8**: 51-56.
133. CZERNYADJEVA, I.V. 1999b. New record of *Dicranella riparia* (H. Lindb.) Mårt. et Nyh. (Dicranaceae, Musci) in Russia. – *Arctoa* **8**: 71-72.
134. CZERNYADJEVA, I.V. 2000. *Fissidens arcticus* Bryhn in Russia. – *Arctoa* **9**: 25-28.
135. [CZERNYADJEVA, I.V.] ЧЕРНЯДЬЕВА, И.В. 2001a. Листостебельные мхи заповедника Большая Кокшага (Республика Марий Эл). – [Mosses of Bol'shaya Kokshaga Reserve (Mari El Republic, European Part Russia)] *Новости сист. низш. раст. [Novosti Sist. Nizch. Rast.]* **35**: 266-278.
136. CZERNYADJEVA, I.V. 2001b. Moss flora of Yamal Peninsula (West Siberian Arctic). – *Arctoa* **10**: 121-150.
137. CZERNYADJEVA, I.V. 2002. *Dichelyma capillaceum* (Dicks.) Myr. (Musci) in Russia – *Arctoa* **11**: 87-89.
138. [CZERNYADJEVA, I.V.] ЧЕРНЯДЬЕВА И.В. 2003 [2004]. Род *Hygrohypnum* (Amblystegiaceae, Musci) в России. – [The genus *Hygrohypnum* (Amblystegiaceae, Musci) in Russia] *Arctoa* **12**: 25-58.
139. CZERNYADJEVA, I.V. 2004. *Anacamptodon kamchaticum*, a new species of Amblystegiaceae (Musci) from Far East. – *Arctoa* **13**: 5-8.
140. CZERNYADJEVA, I.V. 2005. A check-list of the mosses of Kamchatka Peninsula (Far East). – *Arctoa* **14**: 13-34.
141. [CZERNYADJEVA, I.V.] ЧЕРНЯДЬЕВА, И. В. 2006. Новые находки мхов в Камчатской области. 1. – [New moss records from Kamchatskaya Province. 1] *Arctoa* **15**: 268-270.
142. CZERNYADJEVA, I.V., V.YA. CHERDANTSEVA, M.S. IGNATOV & I.A. MILYUTINA 2006. *Thuidium thermophilum* (Thuidiaceae, Bryophyta), a new species from Kamchatka. – *Arctoa* **15**: 195-202.
143. CZERNYADJEVA, I. V. & M.S. IGNATOV 2006. The first record of *Sciurohypnum uncinifolium* (Brachytheciaceae, Musci) in Russia. – *J.Hattori Bot. Lab.* **99**: 271-274.
144. CZERNYADJEVA, I.V. & E.A. IGNATOVA 2004. *Pohlia tundrae* Shaw (Bryaceae, Musci) in Russia. – *Arctoa* **13**: 29-32.

145. [CZERNYADJEVA, I.V. & L.E. KURBATOVA] ЧЕРНЯДЬЕВА И.В., Л.Е. КУРБАТОВА 1995. К флоре листостебельных мхов долины реки Поной (Кольский полуостров). – [On the flora of mosses of the River Ponoу (Kola Peninsula)] *Вестн. СПбГУ. Сер. 3, вып. 2* [Vestnik Sankt-Peterburg. Univ., Ser. 3, vyp. 2] **10**: 56-62.
146. [CZERNYADJEVA, I.V. & E.YU. KUZMINA] ЧЕРНЯДЬЕВА И.В., Е.Ю. КУЗЬМИНА 2002. Мхи окрестностей города Сургут (Западная Сибирь). – [Mosses of Surgut environs (Western Siberia)] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **14**: 254-269.
147. [CZERNYADJEVA, I.V. & A.D. ПОТЕМКИН] ЧЕРНЯДЬЕВА, И.В., А.Д. ПОТЕМКИН 2002. Флора мохообразных заповедника. – [The bryoflora of the Reserve] *В кн.: Растительность, флора и почвы Верхне-Тазовского Государственного заповедника (ред. В.Ю. Нешатаев). С.-Петербург [In: V.Yu. Neshataev. Vegetation, flora and soils of the Verhne-Tazovskii State Reserve. Sankt-Petersburg]: 35-46.*
148. [DANILKIV, I.S., O.V. LOBOCHESKA, Z.I. MAMCHUR & M.I. SOROKA] ДАНИЛКІВ І.С., О.В. ЛОБАЧЕВСЬКА, З.І. МАМЧУР, М.І. СОРОКА 2002. Мохоподібні Українського Розточчя. – [Bryophytes of Ukrainian Roztochchya] *Львів, Інст. Екол. Карпат [Lviv, Inst. Ekol. Karpat], 320 pp.*
149. [DRUGOVA, T.P.] ДРУГОВА Т.П. 2005. Флора листостебельных мхов г. Кировска (Мурманская область, север европейской России). – [Moss flora of Kirovsk Town, north of European Russia] *Arctoa* **14**: 203-209.
150. [DYACHENKO, A.P.] ДЬЯЧЕНКО А.П. 1997. Флора листостебельных мхов Урала. Ч. 1. – [The moss flora of the Urals. Pt. 1.] *Екатеринбург, Изд-во Уральск. ун-та [Ekaterinburg, Izd-vo Uralsk. Univ.]: 264.*
151. [DYACHENKO, A.P.] ДЬЯЧЕНКО А.П. 2001. *Bryum stirtonii* Bruch et Schimp. in Bruch et al. (сем. Bryaceae Schwaegr. in Willd.) и *Pseudocalliergon trifarium* (Web. et Mohr) Loeske (сем. Amblystegiaceae G. Roth) – новые для Урала виды мхов (кл. Musci). – [Bryum stirtonii Bruch et Schimp. in Bruch et al. (сем. Bryaceae Schwaegr. in Willd.) and Pseudocalliergon trifarium (Web. et Mohr) Loeske (Amblystegiaceae G. Roth) – new species of mosses (Musci) for Urals] *В кн.: Флора и растительность Сибири и Дальнего Востока. Чтения памяти Л.М. Черепнина: Материалы III Российской конф. Красноярск: КГПУ. [In: Flora i rastitel'nost' Sibirii i Dal'nego Vostoka. Chteniya pamyati L.M. Cherepnina: Materialy III Rossijskoj konferencii. Krasnoyarsk: KGPU] : 65-66.*
152. [DYACHENKO, A.P., M.N. BYSTRUSHKINA, A.G. BYSTRUSHKIN & N.A. STAFEEVA] ДЬЯЧЕНКО А.П., М.Н. БЫСТРУШКИНА, А.Г. БЫСТРУШКИН, Н.А. СТАФЕЕВА 2005. К флоре мхов национального парка «Таганай» (Южный Урал). – [On moss flora of National Park "Taganay" (South Urals)] *В кн.: Исследования природных и социально-экономических систем Урала. Екатеринбург [In: Issledovaniya prirodnykh i sotsialno-ekonomicheskikh sistem Urala, Ekaterinburg]: 5-14.*
153. [DYLEVSKAYA, I.V.] ДЫЛЕВСКАЯ И.В. 1963. *Leptobarbula* Schimp. – новый род для СССР. – [Leptobarbula Schimp. – new genus for the USSR] *Бот. матер. Otd. snop. rast. Bot. un-ma AH СССР [Bot. Mat. Otd. Snop. Rast. Bot. Inst. Akad. Nauk SSSR]* **16**: 199-202.
154. DÜLL, R. 1984-1985. Distribution of the European and Macaronesian mosses (Bryophytina), Pts. 1-2. – *Bryol. Beitr.* Pt. 1 (1984) **4**: 1-109; Pt. 2 (1985) **5**: 110-232.
155. [EREMINA, N.Kh.] ЕРЕМИНА Н.Х. 1964. Новые виды для бриофлоры СССР – *Funaria attenuata* (Dicks.) Lindb. и *Orthotrichum laevigatum* Zett. – [New species for bryoflora of the USSR – *Funaria attenuata* (Dicks.) Lindb. and *Orthotrichum laevigatum* Zett.] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **1964**: 318-324.
156. [EREMINA, N.Kh.] ЕРЕМИНА Н.Х. 1965а. Материалы к бриофлоре северного Тянь-Шаня – [Materials on bryoflora of Northern Tian-Shan] *В кн.: Споровые растения Средней Азии и Казахстана. Ташкент [In: Sporovye raseniya Srednej Azii i Kazakhstana. Tashkent]: 209-213.*
157. [EREMINA, N.Kh.] ЕРЕМИНА Н.Х. 1965б. Материалы к флоре акрокарпных мхов Заилийского Алатау. – [Materials on flora of acrocarpous mosses of Zailiisky Alatau] *Бот. матер. Гербария ун-та ботаники АН Каз ССР [Bot. Mat. Gerb. Inst. Bot. Akad. Nauk Kazakhskoj SSR]* **3**: 115-125.
158. [EREMINA, N.Kh.] ЕРЕМИНА Н.Х. 1966. Поясное распределение некоторых видов мхов в Заилийском Алатау. – [Altitudinal distribution of some moss species in Zailiisky Alatau] *Бот. матер. Гербария ун-та ботаники АН Каз ССР [Bot. Mat. Gerb. Inst. Bot. Akad. Nauk Kazakhskoj SSR]* **4**: 155-161.
159. [EREMINA, N.Kh., U.Kh. SUYUNSHALIEVA & L.N. PRUS] ЕРЕМИНА Н.Х., У.Х. СУЮНШАЛИЕВА, Л.Н. ПРУС 1970. К бриофлоре Алма-Атинского государственного заповедника. – [On bryoflora of Alma-Atinsky State Reserve] *Труды Алма-Атинского гос. заповедн. [Trudy Alma-Atinskogo Gos. Zapov.]* **9**: 46-50.
160. [EREMINA, N.Kh. & T.P. YURCHENKO] ЕРЕМИНА Н.Х., Т.П. ЮРЧЕНКО 1968 [1970]. К бриофлоре ущелья Большой Киргизсай Кетменского хребта. – [On bryoflora of Bolshoj Kyrgyzsaj Canyon of Ketmensky Range] *Биология и география [Biologia i Geografija]* **5**: 26-29.
161. [FEDOSOV, V.E.] ФЕДОСОВ В.Э. 2006а. Новые находки мхов в Камчатской области. 2. – [New moss records from Kamchatskaya Province. 2] *Arctoa* **15**: 270.
162. [FEDOSOV, V.E.] ФЕДОСОВ В.Э. 2006б. Новые находки мхов в Таймырском автономном округе. 1. – [New moss records from Taimyr Autonomous District. 1] *Arctoa* **15**: 258-260.
163. [FEDOSOV, V.E.] ФЕДОСОВ В.Э. 2006с. Мхи Анабарского плато (рукопись, сборы MW). – Mosses of Anabar Plateau (manuscript, collections in MW).
164. FEDOSOV, V.E. & E.A. IGNATOVA 2005а. Bryophyte flora of the "Ledyanaya Bay" Key plot (Byrranga Range, Taimyr, Siberian Arctic). – *Arctoa* **14**: 71-94.
165. FEDOSOV, V.E. & E.A. IGNATOVA 2005б. The genus *Pseudocrossidium* (Pottiaceae, Musci) in Russia. – *Arctoa* **15**: 203-210.
166. [FEDOSOV, V. E. & E.A.IGNATOVA.] ФЕДОСОВ В.Э., Е.А. ИГНАТОВА 2006. Новые находки мхов в республике Коми. 2. – [New moss records from Komi Republic. 2] *Arctoa* **15**: 252-253.

167. [FEDOSOV, V.E. & S.YU. POPOV] ФЕДОСОВ В. Э., С.Ю. ПОПОВ 2006. Новые находки мхов в Красноярском крае. 1. – [New moss records from Krasnoyarsk Territory. 1] *Arctoa* **15**: 260-261.
168. FLATBERG, K.I. 1984. A taxonomic revision of the Sphagnum imbricatum complex. – *Det K. Norske Vidensk. Selsk. Skrift.* '1984'(3): 1-80.
169. FLATBERG, K.F. 1988. Taxonomy of Sphagnum annulatum and related species. – *Ann. Bot. Fennici* **25**(4): 303-350.
170. FLATBERG, K.I. 2005. Taxonomy, geography and possible origin of Sphagnum inexpectatum (sect. Subsecunda) sp. nov. – *Lindbergia* **30**: 59-78.
171. FRISVOLL, A.A. 1985. Lectotypifications including nomenclatural and taxonomical notes on Ditrichum flexicaule sensu lato. – *Bryologist* **88**: 31-40
172. FRISVOLL, A.A. 1988. A taxonomic revision of the Racomitrium heterostichum group (Bryophyta, Grimmiaceae) in N. and C. America, N. Africa, Europe and Asia. – *Gunneria* **59**: 5-289.
173. GALLEGO, M.T. 2005. A taxonomic study of the genus Syntrichia Brid. (Pottiaceae, Musci) in the Mediterranean region and Macaronesia. – *J. Hattori Bot. Lab.* **98**: 47-122.
174. [GAMBARYAN, S.K. & V.Я. ЧЕРДАНТСЕВА] ГАМБАРЯН С.К., В.Я. ЧЕРДАНЦЕВА 2002. Мохообразные. – [Bryophytes] В кн.: Каоастр растений и грибов заповедника "Кедровая падь". Владивосток [In.: Kadastr rastenii i gribov zapovednika "Kedrovaya pad". Vladivostok]: 21-30.
175. GOFFINET, B. 2002. *Orthotrichum sprucei* Mont. (Musci), a European endemic discovered in Kazakhstan – *Arctoa* **11**: 27-30.
176. GOFFINET, B. & W.R. BUCK 2004. Systematics of the Bryophyta (mosses): from molecules to a revised classification. – *Monographs in Systematic Botany from the Missouri Botanical Garden* **98**: 205-239.
177. GOLDBERG, I.L. 2002. The saxicolous moss flora of the Middle Urals. – *Arctoa* **11**: 63-80.
178. [GOROBETS, K.V.] ГОРОБЕЦ К.В. 2004. Флора листостебельных мхов п-ова Муравьева-Амурского и островов Залива Петра Великого (Приморский край). – [Moss flora of Muravjov-Amursky's Peninsula and islands of the Petra Velikogo Bay] Автореф. дисс... канд. биол. наук. Владивосток, ТИБОХ ДВО РАН [Thesis Ph. D.. Vladivostok, Tikhookeansky Inst. Bioorg. Chimii Dalnevost. Otd. Ross. Akad. Nauk], 22 pp.
179. GRANZOW-DE LA CERDA, I. 1997. Revision and phylogenetic study of Anomodon and Herpetineuron (Anomodontaceae, Musci). – *Contr. Univ. Michigan Herb.* **21**: 205-275.
180. GREVEN, H.C. 1995. Grimmia Hedw. (Grimmiaceae, Musci) in Europe. – *Leiden: Backhuys Publishers.* 160 pp.
181. HE, S. 1997. A revision of Homalia (Musci: Neckeraaceae). – *J. Hattori Bot. Lab.* **81**: 1-52.
182. HE, S. 2005. A revision of the genus *Leptopterigynandrum* (Bryopsida, Leskeaceae). – *J. Hattori Bot. Lab.* **95**: 71-154.
183. HEDENÄS, L. 1989. *Amblystegium longicuspis* Lindb. & H. Arn., its status and taxonomic position. – *Lindbergia* **14**: 142-146.
184. HEDENÄS, L. 1989. The genus Sanionia (Musci) in northwestern Europe, a taxonomic revision. – *Ann. Bot. Fenn.* **26**: 399-416.
185. HEDENÄS, L. 1990. Taxonomic and nomenclatural notes on the genera *Calliergonella* and *Breidleria*. – *Lindbergia* **16**: 161-168.
186. HEDENÄS, L. 1996. On the identity of *Brachythecium campestre* (C. Mull.) B., S. & G. in Sweden, Norway and Finland. – *Lindbergia* **20**: 94-101.
187. HEDENÄS, L. 1997. A partial generic revision of *Campyllum* (Musci). – *Bryologist* **100**: 65-88.
- 187a. HEDENÄS, L. 1997. The *Drepanocladus* s. str. species with excurrent costae (Amblystegiaceae). – *Nova Hedwigia* **64**(3-4): 535-547.
- 187b. HEDENÄS, L. 1998. An overview of the *Drepanocladus sendtneri* complex. – *J. Bryol.* **20**: 83-102.
188. HEDENÄS, L. 2006. Additional insights into the phylogeny of Calliergon, Loeskyppnum, Straminergon, and Warnstorfia (Bryophyta: Calliergonaceae). – *J. Hattori Bot. Lab.* **100**: 125-134.
189. HEDENÄS, L. & N. PEDERSEN 2002. Nomenclatural consequences of a phylogenetic study of the Plagiotheciaceae. – *Bryologist* **105**: 325-326.
190. HILL, M.O., N. BELL, M.A. BRUGGEMAN-NANNENGA, M. BRUGUÉS, M.J. CANO, J. ENROTH, K.I. FLATBERG, J.-P. FRAHM, M.T. GALLEGO, R. GARILLETI, J. GUERRA, L. HEDENAS, D.T. HOLYOAK, J. HYVÖNEN, M.S. IGNATOV, F. LARA, V. MAZIMPAKA, J. MUÑOZ & L. SÖDERSTRÖM 2006. An annotated checklist of the mosses of Europe and Macaronesia. – *J. Bryol.* **28**: 198-267.
191. HOFFMANN, H. 1998. A monograph of the genus Homalothecium (Brachytheciaceae, Musci). – *Lindbergia* **23**: 119-159.
192. HOLYOAK, D.T. 2004. Taxonomic notes on some European species of Bryum (Bryopsida: Bryaceae). – *J. Bryol.* **26**: 247-264.
193. HORTON, D.G. 1983. A revision of the Encalyptaceae (Musci), with particular reference to the North American taxa. Part 2. – *J. Hattori Bot. Lab.* **54**: 353-532.
194. HUTTUNEN, S., A. GARDINER & M.S. IGNATOV 2006. Additional comments on the phylogeny of the Brachytheciaceae (Bryophyta). – In: Newton, A.E. & R. Tangney (eds.), *Pleurocarpous mosses: systematics and evolution.* CRC Press, Boca Rota (Florida): 111-137.
195. HYVÖNEN, J. 1989. A synopsis of the genus *Pogonatum* (Polytrichaceae, Musci). – *Acta Bot. Fenn.* **138**: 1-87.
196. IGNATOV, M.S. 1992. On the occurrence of *Barbula inaequalifolia* Tayl. (Pottiaceae, Musci) in Altai Mountains. – *Укр. Бот. Журн.* [Ukr. Bot. Zhurn.] **49**(1): 95-97.
197. IGNATOV, M.S. 1994. Bryophytes of Altai Mountains. I. Study area and history of its bryological exploration. – *Arctoa* **3**: 13-27.
198. IGNATOV, M.S. 1998. Bryophyte flora of Altai Mountains. VIII. Brachytheciaceae. – *Arctoa* **7**: 85-152.

199. IGNATOV, M.S. & O.M. AFONINA (eds.) 1992. Check-list of mosses of the former USSR. – *Arctoa* **1**: 1-85.
200. IGNATOV, M.S., H. ANDO & E.A. IGNATOVA 1996. Bryophyte flora of Altai Mountains. VII. Hypnaceae and related pleurocarps with bi- or ecostate leaves. – *Arctoa* **6**: 21-112.
201. IGNATOV, M., A. BERSANOVA, Z. KHARZINOV & E. IGNATOVA 2005 [2006] *Leptodontium* (Pottiaceae, Bryophyta), a new genus for Caucasus. – *Arctoa* **14**: 35-38.
202. IGNATOV, M.S. & CAO TONG 1994. Bryophytes of Altai Mountains. IV. The family Grimmiaceae (Musci). – *Arctoa* **3**: 67-122.
203. IGNATOV, M.S. & V.Ya. CZERDANTSEVA 1995. The families Cryphaeaceae, Leucodontaceae and Leptodontaceae (Musci) in Russia. – *Arctoa* **4**: 65-104.
204. IGNATOV, M., A. GARDINER, V. BOBROVA, I. MILYUTINA, S. HUTTUNEN & A. TROITSKY 2006. On relationships of mosses of the order Hypnales, with the special reference to taxa traditionally classified in Leskeaceae. – In: Newton, A.E. & R. Tangney (eds.), *Pleurocarpus mosses: systematics and evolution*. CRC Press, Boca Rota (Florida): 171-207.
205. IGNATOV, M.S. & S. HUTTUNEN 2002. Brachytheciaceae (Bryophyta) – a family of sibling genera. – *Arctoa* **11**: 245-296.
- 205a. [IGNATOV, M.S. & E.A. IGNATOVA] ИГНАТОВ М.С., Е.А. ИГНАТОВА 1989. Мхи Холодной речки (Абхазская ССР). – [Mosses of Kholodnaya Reczka (Abkhazskaya SSR)] *Бюлл. Гл. Бот. Сада [Byull. Galavnogo Bot. Sada]* **152**: 63-67.
206. IGNATOV, M.S. & E.A. IGNATOVA 2003. *Brachythecium buchananii* (Brachytheciaceae, Musci) – a new species for Uzbekistan. – *Arctoa* **12**: 113-114.
207. [IGNATOV, M.S. & E.A. IGNATOVA] ИГНАТОВ М.С., Е.А. ИГНАТОВА 2003-2004. Флора мхов средней части европейской России. Т. 1-2. – [Moss flora of the Middle European Russia. Vols. 1-2] *М., КМК [Moscow, KMK]*: **1** (2003): 1-608; **2** (2004): 609-960.
208. IGNATOV, M.S., E.A. IGNATOVA, T.V. AKATOVA & N.A. KONSTANTINOVA 2002. Bryophytes of the Khoshta' Taxus and Buxus Forest (Western Caucasus, Russia). – *Arctoa* **11**: 205-214.
209. IGNATOV, M.S., E.A. IGNATOVA & V.Ya. CZERDANTSEVA 2006. *Oedipodium griffithianum* (Dicks.) Schwägr. (Oedipodiopsida, Bryophyta), a new species and class for Russia. – *Arctoa* **15**: 211-214.
210. IGNATOV, M.S., E.A. IGNATOVA, Z. IWATSUKI & B.C. TAN 1999. Two new moss taxa from the Bureya River, Russian Far East. – *Arctoa* **8**: 59-68.
211. IGNATOV, M.S., E.A. IGNATOVA & N.A. KONSTANTINOVA 2005. Bryophyte flora of the Völzhsko-Kamskiy Nature Reserve (Tatarstan, European Russia). – *Arctoa* (2005) **14**: 49-66.
212. [IGNATOV, M. S., E. A. IGNATOVA & G. A. PRONKINA] ИГНАТОВ М.С., Е.А. ИГНАТОВА, Г.А. ПРОНЬКИНА. 2004. Мхи заповедников России. – [Mosses of State Reserves of Russia] *Современное состояние биологического разнообразия на заповедных территориях России. Том 3. Лишайники и мохообразные. М., МСОП [Sovremennoe sostoyanie biologicheskogo raznoobraziya na zapovednykh territoriyakh Rossii. Vol. 3. Lishainiki i mokhoobraznye. Moscow, IUCN]*: 274-366.
213. IGNATOV, M.S., E.A. IGNATOVA & S.A. SURAGINA 2002. A new variety of *Syntrichia caninervis* (Pottiaceae, Musci). – *Arctoa* **11**: 333-336.
214. IGNATOV, M.S. & J. LEWINSKY-HAAPASAARI 1994. Bryophytes of Altai Mountains. II. The genera *Amphidium* Schimp., *Orthotrichum* Hedw. and *Zygodon* Hook. & Tayl. (Orthotrichaceae, Musci). – *Arctoa* **3**: 29-57.
215. IGNATOV, M.S., I.A. MILYUTINA & S. HUTTUNEN 2006. On two East Asian species of *Brachythecium* (Brachytheciaceae, Musci). – *J. Hattori Bot. Lab.* **100**: 191-199.
216. IGNATOV, M.S., I.A. MILYUTINA, T. KOPONEN, D.C. LONG & E. IGNATOVA 2006. Taxonomy of *Struckia* (Plagiotheciaceae, Bryophyta) based on molecular and morphological data. – *Chenia*, Vol. **9**.
217. IGNATOV, M.S. & R. OCHYRA 1994. Bryophytes of Altai Mountains. III. The genus *Ulota* (Orthotrichaceae, Musci). – *Arctoa* **3**: 59-66.
218. IGNATOV, M.S. & R. OCHYRA 1995. On the systematic position of *Myurella* and *Bardunovia*, genus novus (Plagiotheciaceae, Musci). – *Arctoa* **5**: 45-59.
219. IGNATOV, M.S. & G.L. SMITH MERRILL 1995. Bryophytes of Altai Mountains. VI. The Family Polytrichaceae (Musci). – *Arctoa* **5**: 61-97.
220. IGNATOV, M.S. & B.C. TAN 1991. Orthodontopsis, a new genus of Bryaceae (Musci) from southern Siberia, USSR. – *J. Hattori Bot. Lab.* **71**: 165-173.
221. IGNATOV, M.S., B.C. TAN, Z. IWATSUKI & E.A. IGNATOVA 2000. Moss flora of the Upper Bureya River (Russian Far East). – *J. Hattori Bot. Lab.* **88**: 147-178.
222. IGNATOV, M.S. & R.H. ZANDER 1993. *Barbula amplexifolia* from the Altai Mountains of Russia. – *Bryologist* **96**(4): 638-639.
223. IGNATOVA, E.A. 2001. A new species of *Barbula* (Pottiaceae, Musci) from Siberia. – *Arctoa* **10**: 161-164.
224. [IGNATOVA, E.A.] ИГНАТОВА Е.А. 2005. О распространении видов *Dicranum* с трубчато свернутыми листьями в России. – [On the distribution of *Dicranum* species with tubulose leaves in Russia] *В кн.: «Актуальные проблемы бриологии», Тр. междунар. сов. повс. 90-летию со дня рожд. А.Л. Абрамовой. СПб, 22-25 ноября 2005. [In: Proc. Int. Conf. "Actual Problems of Bryology" devoted to 90<sup>th</sup> Anniversary of A.L. Abramova. St. Petersburg, 22-25 November 2005]*: 95-101.
225. IGNATOVA, E., H. BEDNAREK-OCHYRA, O. AFONINA & J. MUÑOZ 2003 [2004]. A new species of *Grimmia* (Grimmiaceae, Musci) from north-east Asia and Alaska. – *Arctoa* **12**: 1-8.
226. [IGNATOVA, E.A. & V.B. GOLUB] ИГНАТОВА Е.А., В.Б. ГОЛУБ 2006. Новые находки мхов в Краснодарском крае. 1. – [New moss records from Краснодар Territory. 1] *Arctoa* **15**: 256.
227. IGNATOVA, E.A. & M.S. IGNATOV 2001. Bryoeryth-



- rophyllum ferruginascens (Stirt.) Giac. (Pottiaceae, Musci) in Russia. – *Arctoa* **10**: 151-154.
228. IGNATOVA, E.A. & M.S. IGNATOV 2003. Habrodon perpusillus (Habrodontaceae, Musci) – a new family, genus and species for Russia. – *Arctoa* **12**: 133-136.
229. IGNATOVA, E.A. & M.S. IGNATOV 2005. On the identity of Physcomitrium martianovii (Funariaceae, Bryophyta). – *Arctoa* **14**: 67-70.
230. [IGNATOVA, E.A., M.S. IGNATOV & A.G. BEZ-GODOV] ИГНАТОВА Е.А., М.С. ИГНАТОВ, А.Г. БЕЗГОДОВ 1996. Мхи Вишерского заповедника (Пермская область, Северный Урал). – [Mosses of the Vishera State Reserve (Perm Province, Northern Ural Mountains)] *Arctoa* **6**: 7-19.
231. [IGNATOVA, E.A., M.S. IGNATOV, V.G. ONIPCHENKO, V.I. ZOLOTOV & N.A. KONSTANTINOVA] ИГНАТОВА Е.А., М.С. ИГНАТОВ, В.Г. ОНИПЧЕНКО, В.И. ЗОЛОТОВ, Н.А. КОНСТАНТИНОВА 2007. Бриофлора Тебердинского заповедника. – [Bryoflora of the Teberda Reserve] *Флора и фауна заповедников. Москва [Flora i fauna zapovednikov. Moscow]* (in press).
232. IGNATOVA, E.A., M.S. IGNATOV, A.P. SEREGIN, T.V. AKATOVA, N.A. KONSTANTINOVA 2005. Bryophyte flora of the projected Utrish Nature Reserve (North-West Caucasus, Russia). – *Arctoa* **14**: 39-48.
233. IGNATOVA, E., A. MAKSIMOV, T. MAKSIMOVA & O. BELKINA 2006. Notes on distribution of Schistidium species (Grimmiaceae, Bryophyta) in Murmansk Province and Karelia. – *Arctoa* **15**: 237-247.
234. IGNATOVA, E. & J. MUÑOZ 2004. The genus Grimmia (Grimmiaceae, Musci) in Russia. – *Arctoa* **13**: 100-182.
235. IGNATOVA, E.A., T.YU. SAMKOVA 2006. Campylopus umbellatus (Arnell) Paris (Leucobryaceae, Bryophyta), a new species for Russia. – *Arctoa* **15**: 215-218.
236. INGERPUU, N., A. KALDA, L. KANNUKENE, H. KRALL, M. LEIS & K. VELLAK 1994 List of the Estonian bryophytes. – *The Naturalist's Notebook* **94**: 1-175.
237. INGERPUU, N., A. KALDA, L. KANNUKENE, H. KRALL, M. LEIS & K. VELLAK 1998. Eesti sammalde määraja. – [Handbook of Estonian bryophytes] *Tartu, ERMÜ ZBI Eesti Loodusfoto*, 239 pp.
238. IVANOVA, E.I., M.S. IGNATOV, I.A. MILYUTINA & V.K. BOBROVA 2005. On the morphological and molecular differences between Oligotrichum hercynicum and O. falcatum (Polytrichaceae, Bryophyta). – *Arctoa* **14**: 1-11.
239. [IVANOVA, E.I., E.A. IGNATOVA, M.S. IGNATOV, V.I. ZOLOTOV, K.K. KRIVOSHARKIN] ИВАНОВА Е.И., Е.А. ИГНАТОВА, М.С. ИГНАТОВ, В.И. ЗОЛОТОВ, К.К. КРИВОШАПКИН 2005. Листостебельные мхи. – [Mosses] *В кн.: Разнообразие растительного мира Якутии (ред. Н.С.Данилова) Новосибирск, Изд-во СО РАН [In: Danilova, N.S. (ed.), Raznoobrazie rastitel'nogo mira Yakutii, Novosibirsk, Sib. Otd. Ross Akad. Nauk]*: 105-125.
240. IWATSUKI, Z. & A. NOGUCHI 1973. Index muscorum japonicarum. – *J. Hattori Bot. Lab.* **37**: 299-418.
241. IWATSUKI, Z. 1991. Catalog of the Mosses of Japan. – *Nichinan, Hattori Botanical Laboratory*, 182 pp.
242. IWATSUKI, Z. 2004. New catalog of the mosses of Japan. – *J. Hattori Bot. Lab.* **96**: 1-182.
243. JIMÉNEZ, J.A. 2006. Taxonomic revision of the genus Didymodon Hedw. (Pottiaceae, Bryophyta) in Europe, North Africa and Southwest and Central Asia – *J. Hattori Bot. Lab.* **100**: 211-292.
244. JUKONIENE, I. 2003. Lietuvos kiminai ir zaliosios samanos. – [Mosses of Lithuania] *Vilnius, Botanikos instituto leidykla*, 402 pp.
245. KANDA, H. 1976 [1977]. A revision of the family Amblystegiaceae of Japan. II. – *J. Sci. Hiroshima Univ., ser. B, Div. 2*, **16**: 47-119.
246. KANNUKENE, L. & N.V. MATVEJEVA 1996. Mosses from the arctic tundra of the Taimyr Peninsula, Siberia. – *Proc. of Estonian Acad. Sci. Biol.* **45**(1/2): 51-67.
247. [KAZANOVSKY, S.G.] КАЗАНОВСКИЙ С.Г. 1991. К бриофлоре Байкальского заповедника. – [On the bryoflora of Baikal Reserve]. *Бриология в СССР, ее достижения и перспективы (Мат. конф., Львов, 10-12 сент. 1991) (ред. Демкив, О. Т.), Львов, АН СССР, АН УССР [In: Demkiv, O. T. (ed.), Briologia v SSSR, ee dostizheniya i perspektivy (Proc. Conf., Lvov, 10-12 Sept. 1991). Lvov, Akad. Nauk SSSR & Akad. Nauk Ukr. SSR]*: 94-98.
248. KHARZINOV, Z., N. PORTENIER, E. IGNATOVA, S. SHHAGAPSOEV & M. IGNATOV 2004. Rare species and preliminary list of mosses of the Kabardino-Balkaria (Caucasus). – *Arctoa* **13**: 33-40.
249. [KHARZINOV, Z.Kh., A.N. BERSANOVA, S.H. SHHAGAPSOEV, E.A. IGNATOVA & M.S. IGNATOV] ХАРЗИНОВ З.Х., А.Н. БЕРСАНОВА, С.Х. ШХАГАПСОЕВ, Е.А. ИГНАТОВА, М.С. ИГНАТОВ 2005. Еще раз об азиатских связях флоры мхов Центрального Кавказа. – [Once more about Asian relationships of moss flora of the Central Caucasus] *В кн.: «Актуальные проблемы бриологии», Тр. междунар. сов. посв. 90-летию со дня рожд. А.Л. Абрамовой. СПб, 22-25 ноября 2005. [Proc. Int. Conf. "Actual Problems of Bryology" devoted to 90th Anniversary of A.L. Abramova. St. Petersburg, 22-25 November 2005]*: 182-188.
250. [KHARZINOV, Z.Kh., M.S. IGNATOV, E.A. IGNATOVA & N.N. PORTENIER] ХАРЗИНОВ З.Х., Е.А. ИГНАТОВА, М.С. ИГНАТОВ, Н.Н. ПОРТЕНИЕР 2006. Новые находки мхов в Кабардино-Балкарской Республике. 1. – [New moss records from Kabardino-Balkarian Republic. 1] *Arctoa* **15**: 256-258.
251. [KONSTANTINOVA, N.A., A.Yu. LIKHACHEV & O.A. BELKINA] КОНСТАНТИНОВА Н.А., А.Ю. ЛИХАЧЕВ, О.А. БЕЛКИНА 1993. Дополнения и уточнения к "Конспекту флоры мохообразных Мурманской области". – [Additions and refinements to "Synopsis of the Bryophytes of the Murmansk region"] *В кн.: Флористические и геоботанические исследования в Мурманской области (ред. Константинова Н.А.), Анапты [In: Konstantinova, N. A. (ed.), Floristicheskie i geobotanicheskie issledovaniya v Murmanskoy oblasti. Apatity]*: 6-44.
252. KOPONEN, T. 1971. A monograph of Plagiomnium sect. Rosulata (Mniaceae). – *Ann. Bot. Fennici* **8**: 305-367.
253. KOPONEN, T. 1996. Notes on Philonotis (Bartrami-

- aceae, Musci). 1. Status and distribution of *Philonotis falcata* (Hook.) Mitt. – *Arctoa* **6**: 113-117.
- 253a. KOPONEN, T. 1980. A synopsis of Mniaceae (Bryophyta). IV. Taxa in Europe, Macaronesia, NW Africa and the Near East. – *Ann. Bot. Fennici* **17**: 125-162.
- 253b. KOPONEN, T. 1994. Cinclidiaceae, Mniaceae and Plagiomniaceae from Minshan Range, northwestern Sichuan, China. – *Hikobia* **11** (4): 387-406.
- 253c. KOPONEN, T. & O.M. AFONINA 1992. Miscellaneous notes on Mniaceae (Bryophyta). XV. Genus *Rhizomnium* in the Russia east of Ural Mts. – *Bryobrothera* **1**: 245-250.
254. KOPONEN, T. & I.V. CZERNYADJEVA 2006. *Rhizomnium tuomikoskii* (Mniaceae, Musci) on the Kamchatka Peninsula, Russian Far East. – *Arctoa* **15**: 183-186.
255. [KOSSOVICH, E.I.] КОСОВИЧ Е.И. 1989. Находка *Tomenthyrnum falcifolium* (Brachytheciaceae) – нового для флоры Евразии вида. – [Finding of *Tomenthyrnum falcifolium* (Brachytheciaceae) – a new species for Eurasian bryoflora] *Бот. журн. [Bot. Zhurn.]* **74**: 250-253.
256. [KOVALSKY, S.V.] КОВАЛЬСКИЙ С.В. 1998. *Pogonatum nanum* (Polytrichaceae, Bryopsida) в Средней России. – [*Pogonatum nanum* (Polytrichaceae, Bryopsida) in Central Russia] *Arctoa* **7**: 83-84.
257. KRAMER, W. 1980. *Tortula* Hedw. sect. *Rurales* De Not. (Pottiaceae, Musci) in der Östlichen Holarktis. – *Bryoph. Bibl.* **21**: 1-165+29 tabs.
258. KRIVOSHAPKIN, K.K. 1998. Moss flora of the Olekminsky Nature Reserve (Jakutia). – *Arctoa* **7**: 9-20.
259. KRUIJER, H. 2002. Hypopterygiaceae of the world. – *Blumea, suppl.* **13**: 1-388.
260. [KURBATOVA, L.E.] КУРБАТОВА Л.Е. 1998. Род *Scouleria* Hook. в России. – [Genus *Scouleria* Hook. in Russia] *Новости сист. низш. раст. [Novosti Sist. Nizsh. Rast.]* **32**: 162-169.
261. [KURBATOVA, L.E. & G.YA. DOROSHINA] КУРБАТОВА Л.Е., Г.Я. ДОРОШИНА 2006. Новые находки мхов в Ленинградской области. 1. – [New moss records from Leningrad Province] *Arctoa* **15**: 249.
262. [KURBATOVA, L.E., G.YA. DOROSHINA-UKRAINSKAYA & E.O. KUZMINA] КУРБАТОВА Л.Е., Г.Я. ДОРОШИНА-УКРАИНСКАЯ, Е.О. КУЗЬМИНА 1999. Листостебельные мхи Ленинградской области. – [Mosses of the Leningrad Province (European Russia)] В кн.: *Биоразнообразие Ленинградской области (Водоросли. Грибы. Лишайники. Мохообразные. Беспозвоночные животные. Рыбы и рыбообразные)* (ред. Балашова Н.Б., А.А. Заварзин), СПб, изд-во СПб ун-та [In: *Balashova N.B., A.A. Zavarzin (eds.), Biodiversity of Leningrad Province (Algae, fungi, lichens, bryophytes, invertebrates, fishes and pisciformes)* St.-Petersburg, Izd. Spb. Univ.]: 271-302.
263. [KUBAEV, V.B.] КУБАЕВ В.Б. 1996. К флоре листостебельных мхов острова Сибирякова. – [On moss flora Sibiriyakov Island] *Новости сист. низш. раст. [Novosti Sist. Nizsh. Rast.]* **31**: 167-170.
264. [KUZMINA, E. YU & I.V. CZERNYADJEVA] КУЗЬМИНА Е.Ю., И.В. ЧЕРНЯДЬЕВА 2005. Листостебельные мхи бассейна р. Сабун (Среднее течение р. Обь, Западная Сибирь). – [Mosses of Sabun River basin, middle course of Ob River, West Siberia] *Новости сист. низш. раст. [Novosti Sist. Nizsh. Rast.]* **38**: 340-356.
265. LAPSHINA, E.D. & E.Ya. MULDIYAROV 1998. The bryophyte flora of the Middle Western Siberia. – *Arctoa* **7**: 25-32.
266. [LAPSHINA, E.D.] ЛАПШИНА Е.Д. 2003. Флора болот юго-востока Западной Сибири. – [Flora of mires of southern-east West Siberia] *Томск, изд-во Томского Унив. [Tomsk, izd. Tomsk Univ.]*: 1-296.
267. [LAZARENKO, A.S.] ЛАЗАРЕНКО А.С. 1938. Материалы до бриофлоры Средней Азии. – [Materials on brioflora of Middle Asia] *Журн. Инст. Бот. АН УССР [Zhurn. Inst. Bot. Akad. Nauk Ukr.SSR]* **26-67**: 191-216.
268. [LAZARENKO, A.S.] ЛАЗАРЕНКО А.С. 1940-1945. Листяні мхи Радянського Далекого Сходу. I-IV. – [Mosses of the Soviet Far East. I-IV]. *Бот. Журн. АН УССР [Bot. Zhurn. Akad. Nauk Ukr. RSR]* Pt. I (1940): **1**(3-4): 59-100; Pt. II (1941): **2**(1): 51-95; Pt. III (1941): **2**(2): 271-308; Pt. IV (1945): **2**(3-4): 185-216.
269. [LAZARENKO, A.S.] ЛАЗАРЕНКО А.С. 1955. Определитель лиственных мхов Украины. – [Handbook of mosses of Ukraine] *Киев, Изд-во АН УССР [Kiev, Izd. Akad. Nauk Ukr.SSR]*, 468 pp.
270. LEWINSKY, J. 1993. A synopsis of the genus *Orthotrichum* Hedw. (Musci, Orthotrichaceae). – *Bryobrothera* **2**: 1-59.
271. LEWINSKY-HAAPASAARI, J. 1994. Miscellaneous notes on *Orthotrichum* 5. *Orthotrichum vicarium* Laz. – *Lindbergia* **19**: 37-39.
272. LEWINSKY-HAAPASAARI, J. 1996. *Orthotrichum holmenii*, a new corticolous species from Kazakhstan with comments on *Orthotrichum hallii* in Asia. – *Bryologist* **99**: 1-5.
273. [LIKHACHEV, A.Yu. & O.A. BELKINA] ЛИХАЧЕВ А.Ю., О.А. БЕЛКИНА 1999. Листостебельные мхи горного массива Лавна-тундра (Мурманская область, Россия). – [Mosses of Lavna-Tundra mountains (Murmansk Province, Russia)] *Arctoa* **8**: 5-16.
274. LINDBERG, S.O. 1872. *Contributio ad floram cryptogamam Asiae boreali-orientalis*. – *Acta Soc. Sci. Fennicae* **10**: 221-280.
275. LINDBERG, S.O. & H.W. ARNELL 1890. *Musci Asiae Borealis*. – *Kongl. Svenska Vetensk.-Akad. Handl.* **23**(10): 1-163.
276. LÜTH, M. 2006. Neue Moosfunde aus Sudbaden und Bemerkungen zu einigen kritischen Arten. – *Herzogia* **19**: 323-339.
277. [LYUBARSKAYA, L.B.] ЛЮБАРСКАЯ Л.Б. 1986. Конспект флоры листостебельных мхов Азербайджана. – [Conspect of mosses of Azerbaijan] *Баку, Инст. Бот. АН АзССР, рукопись деп в ВИНИТИ [Baku, Inst. Bot. Akad. Nauk Azerb. SSR (msc)]*, 178 pp.
278. MAGILL, R.E. & V.Ya. SHERDANTSEVA 1995. *Meteorium* (Musci, Meteoraceae) in the Russian Far East. – *Fragm. Florist. et Geobot.* **40**(1): 223-227.
279. MAIER, E. 1998. Zur systematischen Stellung von *Grimmia pitardii* Corb. (Musci). – *Candollea* **53**: 301-308.
280. MAKSIMOV, A. 1995. New data on the distribution of *Sphagnum molle* in Karelia (Russia). – *Memoranda Soc.*

*Fauna Flora Fennica* 71(1-2): 1-2.

281. [MAKSIMOV, A.I.] МАКСИМОВ А.И. 2000. Редкие листостебельные мхи Карелии. – [The rare mosses of Karelia (Russia)] *Бот. Журн. [Bot. Zhurn.]* 85(4): 67-80.
282. [MAKSIMOV, A.I.] МАКСИМОВ А.И. 2003. Дополнение к флоре листостебельных мхов национального парка «Паанаярви». – [Additions to moss flora of the Paanajarvi National Park] *Труды Карельского НЦ РАН. Природа и экосистемы национального парка «Паанаярви». Серия Б. Биология. Вып. 3. [Proceedings of Karelin Research Centre RAS. Priroda i ekosistemy Natsional'nogo Parka Paanajarvi. Seria B. Biologia]* 3: 68-70.
283. [MAKSIMOV, A.I.] МАКСИМОВ А.И. 2006. Листостебельные мхи Карелии – [Mosses of Karelia] *В кн.: Северная Европа в XXI веке: природа, культура, экономика. Материалы Международной конференции, посвященной 60-летию КарНЦ РАН. Секция «Биологические науки». Секция «Науки о земле». Петрозаводск, Карельский НЦ РАН [In: Severnaya Evropa v XXI veke: priroda, kul'tura, ekonomika. Materialy Mezhduнародной konferentsii, posvyashchennoj 60-letiyu Karelian Research Centre RAS. Sektsiya "Biologicheskie nauki". Sektsiya "Nauki o zemle". Petrozavodsk, Karelian Research Centre]: 140-142.*
284. [MAKSIMOV, A.I. & E.I. IVANOVA] МАКСИМОВ А.И., Е.И. ИВАНОВА 2006. Сфагновые мхи низовьев реки Индигирка. – [Sphagnum mosses in the Lower of Indigirka River] *Биоразнообразие растительного покрова Крайнего севера: инвентаризация, мониторинг, охрана. Материалы Всероссийской конференции. Сыктывкар [Bioraznoobrazie rastitel'nogo pokrova Krajnego Severa: inventarizatsiya, monitoring, okhrana. Materialy Vserossiyskoj konferentsii. Syktyvkar]: 67-68.*
285. [MAKSIMOV, A.I. & T.A. MAKSIMOVA] МАКСИМОВ А.И., Т.А. МАКСИМОВА 1998. Первая находка *Fissidens pusillus* (Fissidentaceae, Musci) в Карелии – [The first record of *Fissidens pusillus* (Fissidentaceae, Musci) in Karelia] *Бот. журн. [Bot. Zhurn.]* 83 (6): 123-127.
286. [MAKSIMOV, A.I. & T.A. MAKSIMOVA] МАКСИМОВ А.И., Т. А. МАКСИМОВА 2001. 3.2. Листостебельные мхи – [3.2. Mosses] *Инвентаризация и изучение биологического разнообразия на территории центральной Карелии (оперативно-информационные материалы). Петрозаводск: Карельский научный центр РАН. [Inventarizatsiya i izuchenie biologicheskogo raznoobraziya na territorii central'noj Karelii (operativno-informatsionnye materialy). Petrozavodsk, Karelian Research Centre]: 94-101.*
287. [MAKSIMOV, A.I. & T.A. MAKSIMOVA] МАКСИМОВ А.И., Т.А. МАКСИМОВА 2003. 4.2. Листостебельные мхи – [4.2. Mosses] *В кн.: Материалы инвентаризации природных комплексов и научное обоснование ландшафтного заказника «Сыроватка». (ред. А.Н. Громцев). Петрозаводск [In: Gromtsev, A. N. (ed.), Materialy inventarizatsii prirodnykh kompleksov i nauchnoe obosnovanie landshaftnogo zakaznika "Syrovatka". Petrozavodsk]: 46-50.*
288. [MAKSIMOV, A.I. & T.A. MAKSIMOVA] МАКСИМОВ А.И., Т.А. МАКСИМОВА. 2005а. Материалы к флоре листостебельных мхов планируемого природного парка «Кожозерский» (Архангельская область). – [Note to moss flora of the proposed Kozhozerskij National Park (Archangelsk district)] *Труды Карельского НЦ РАН. Биогеография Карелии. Петрозаводск [Proceedings of Karelian Research Centre RAS. Biogeografiya Karelii. Petrozavodsk]* 7: 157-167.
289. [MAKSIMOV, A.I. & T.A. MAKSIMOVA] МАКСИМОВ А.И., Т.А. МАКСИМОВА. 2005b. Листостебельные мхи. – [Mosses]. *В кн.: Природные комплексы Вепской волости: особенности, современное состояние, охрана и использование (Ред. А.Н. Громцев). Карельский НЦ РАН. Петрозаводск [In: Gromtsev (ed), Prirodnye komplekсы Vepsskoj volosti, sovremennoe sostoyanie, okhrana i ispol'zovanie. Petrozavodsk, Karelia Research Centre RAS]: 127-134.*
290. [MAKSIMOV, A.I. & T.A. MAKSIMOVA] МАКСИМОВ А.И., Т.А. МАКСИМОВА 2006. К флоре листостебельных мхов бывшего национального парка Хиисъярви и его окрестностей (Карелия) – [Note to moss flora of the Former Hiisjarvi National Park and their vicinity] *Устойчивость экосистем и проблема сохранения биоразнообразия на Севере. Материалы Международной конференции. Кировск. [Ustoichivost' ekosistem i problemu sokhraneniya bioraznoobraziya na Severe. Materialy Mezhduнародной konferentsii. Kirovsk]* 1: 116-119.
291. MAKSIMOV, A.I., T.A. MAKSIMOVA & M.A. VOICHUK. 2003. 3.2. Mosses in protected areas. – *In: Gromtsev A. N. & al., eds. Biotic diversity of Karelia: conditions of formation, communities and species. Petrozavodsk: Karelian Research Centre of RAS: 89-102.*
292. [MAKSIMOV, A.I., L.A. VOLKOVA & I.V. KUKSA] МАКСИМОВ А.И., Л.А. ВОЛКОВА, И.В. КУКСА 1995. Листостебельные мхи заповедника «Кивач». – [Mosses of the Kivach Reserve] *В кн.: Флористические исследования в Карелии. Вып. 2. Петрозаводск [In: Floristicheskie issledovaniya v Karelii. Pt. 2. Petrozavodsk]: 43-67.*
293. [MAMATKULOV, U.K.] МАМАТКУЛОВ У.К. 1967. Мхи заповедника «Рамит». – [Mosses of the Ramit Reserve] *Изв. отд. биол. наук АН Тадж ССР [Izv. Otd. Biol. Nauk Akad. Nauk Tadjikskoj SSR]* 3(28): 83-86.
294. [MAMATKULOV, U.K.] МАМАТКУЛОВ У.К. 1975. Лиственные мхи Дарвазского хребта. – [Mosses of Darvaz Range] *Душанбе, Дониш [Dushanbe, Donish]: 100 pp.*
295. [MAMATKULOV, U.K.] МАМАТКУЛОВ У.К. 1990. Флора мохообразных Таджикской ССР. Т. 1. – [The flora of the bryophytes of the Tadjik SSR, Vol. 1] *Dushanbe, Donish [Душанбе, Дониш], 320 pp.*
296. [MAMATKULOV, U.K., I.O. VAITULIN & S.G. NESTEROVA] МАМАТКУЛОВ У.К., И.О. БАЙТУЛИН, С.Г. НЕСТЕРОВА 1998. Мохообразные Средней Азии и Казахстана. – [Bryophytes of the Middle Asia and Kazakhstan] *Алматы [Almaty], 232.*
297. [MANAKYAN, V.A.] МАНАКЯН В.А. 1995. Итоги бриологических исследований в Армении. – [Results of bryological studies in Armenia] *Arctoa* 5: 15-33.
298. MATSUI, T. & Z. IWATSUKI 1990. A taxonomic revision of the family Ditrichaceae (Musci) of Japan, Korea and Taiwan. – *J. Hattori Bot. Lab.* 68: 317-366.
299. MINAMI, Yo., S. OKITSU, H. KANDA, V.Ya. CHERDANTSEVA & S.Yu. GRISHIN 2001. Occurrence of

- bryophytes on Paramushir Island, northern Kuriles, Far East Russia. – *Mem. Nat. Inst. Polar Res., Spec. Issue* **54**: 487-493.
300. MOGENSEN, G.S. 1973. A revision of the moss genus *Cinclidium* Sw. (Mniaceae Mitt.). – *Lindbergia* **2**: 49-80.
301. MOGENSEN, G.S. 2000. Encalypta rhaptoparpa Schwaegr. and E. leptodon Lindb. in Denmark are E. trachymitria Rip.: on their taxonomy and differences (Bryophyta, Musci). – *Lindbergia* **26**: 33-36.
302. MOGENSEN, G.S. & I. GOLDBERG 2003. The genus *Seligeria* in the Ural Mountains (Seligeriaceae, Bryophyta). – *Lindbergia* **28**: 59-74.
303. [MONAKHOV, A.K. & Z.N. SMIRNOVA] МОНАХОВ А.К., З.Н.СМИРНОВА 1968. О находке некоторых северных видов в Центральном Казахстане. – [On the finding of some northern species in the Central Kazakhstan] *Новосты сист. низш. раст. [Novosti Sist. Nizsh. Rast.] '1969'*: 274-278.
304. [MORDVINOV, A.N.] МОРДВИНОВ А.Н. 1994. Бриофлора Жигулевского заповедника. — [The bryoflora of Zigulyovsky Reserve] *Бот. журн. [Bot. Zhurn.]* **79**(4): 65-70.
305. MUÑOZ, J. 2002 *Grimmia exquisita* (Musci, Grimmiaceae), a new species from central Asia. – *J. Bryol.* **24**: 315-318.
306. MUÑOZ, J. & F. PANDO 2000. A world synopsis of the genus *Grimmia*. – *Monogr. Syst. Bot. Missouri Bot. Gard.* **83**: 133 pp.
307. [MULDIYAROV, E. Ya. & N.A. CHERNOVA] МУЛЬДИЯРОВ Е.Я., Н.А. ЧЕРНОВА 2002 [2003]. Новые виды мохообразных Томской области. – [New records of bryophytes in Tomsk Province] *Arctoa* **11**: 215-218.
308. [MULDIYAROV, E. Ya. & E.D. LAPSHINA] МУЛЬДИЯРОВ Е.Я., Е.Д. ЛАПШИНА 1990. Эколого-фитоценогическая характеристика бриофлоры района падения Тунгусского метеорита. – [Ecologo-phytocenotic characteristic of bryoflora of the area of the Fall of Tunguska Meteorite]. *Следы космических воздействий на землю. Новосибирск, АН СССР, СО, Ин-т геол. и геофиз. Sledy kosmicheskikh vozdeystvij na Zemlyu. Novosibirsk, Akad. Nauk SSSR, Sib. Otd., Inst. Geol. Geofiz.]: 133-139.*
309. [NAPREENKO, M.G.] НАПРЕЕНКО М.Г. 2006. Мхи Калининградской области. – [Mosses of Kaliningrad Province], рукопись [manuscript].
310. [NAPREENKO, M.G. & L.V. RAZGULJAJEVA] НАПРЕЕНКО М.Г., Л.В. РАЗГУЛЯЕВА 1999. Сфагновые мхи Калининградской области. – [Sphagna of Kaliningrad Province (European Russia)] *Arctoa* **8**: 27-34.
311. NEDOLUZHKO, V.A. & T.A. RUBTSOVA 1998. The first inland locality of *Bryoxyphium savatieri* (Husn.) Mitt. in the Russian Far East. – *Arctoa* **7**: 79-80.
312. NOGUCHI, A. 1989. Illustrated moss flora of Japan. Pt. 3 – *Hattori Botanical Laboratory, Nichinan*: 489-742.
313. [NOTOV, A.A., O.M. VOLKOVA, U.N. SPIRINA, L.V. KOLOSOVA & V.A. RYBKINA] НОТОВ А.А., О.М. ВОЛКОВА, У.Н. СПИРИНА, Л.В. КОЛОСОВА, В.А. РЫБКИНА 2005. О флористическом разнообразии некоторых физико-географических районов Тверской области. – [On floristic diversity of some geographical regions of Tver Province] *Вестн. ТвГУ. Сер. биология и экология. Вып. 1. [Vestnik TvGU. Ser. biologia I ekologiya. Вып. 1]* **4** (10): 122-150.
314. NYHOLM, E. & L. HEDENÅS 1986. A new species of *Gymnostomum*. – *Lindbergia* **12**: 41-42.
315. [NYPORKO, S.O.] НИПОРКО С.О. 2001. Листо-стеблові мохи природного заповідника «Горгани». – [Mosses of the nature reserve “Gorgany”] *Укр. Бот. Журн. [Ukr. Bot. Zhurn.]* **58**(2): 248-255.
316. OCHYRA, R., J. ŻARNOWIEC & H. BEDNAREK-OCHYRA 2003. Census catalogue of Polish mosses. – *Polish Acad. Sci., Inst. Bot., Krakow*: 372 pp.
317. OESAU, A. 2003 *Pterygoneurum papillosum* (Bryopsida: Pottiaceae), a new moss species from Germany. – *J. Bryol.* **25**: 247-252.
318. [ONIPCHENKO, V.G. & E.A. IGNATOVA] ОНИПЧЕНКО, В.Г., Е.А. ИГНАТОВА 1996. Новые виды сосудистых растений и мохообразных для флоры Тебердинского заповедника. – [New vascular plants and bryophytes for the flora of Teberda State Reserve] *Бюлл. Моск. о-ва испыт. природы. Отд. биол. [Bull. Mosk. Obshch. Isp. Prir. Otd. Biol.]* **101**(5): 92-98.
319. OTNYUKOVA, T.N. 1998. *Didymodon hedysarifomis*, a new species of Pottiaceae (Musci) from South Siberia (Tuva Republic, Russia). – *Arctoa* **7**: 206-210.
320. OTNYUKOVA, T.N. 2000. *Dicranum orientale* (Dicranaceae, Musci), a new species from South Siberia (Tuva Republic, Siberia, Russia). – *Бот. Журн. [Bot. Zhurn.]* **85**(10): 82-87.
321. OTNYUKOVA, T.N. 2001. A new species of *Orthotrichum* (Orthotrichaceae, Musci) from Tuva Republic, South Siberia. – *Arctoa* **10**: 155-156.
322. OTNYUKOVA, T.N. 2001. Notes on *Dicranum* (Dicranaceae, Musci) in Russia. 1. *Dicranum nipponense* found in Far East. – *Arctoa* **10**: 157-160.
323. OTNYUKOVA, T.N. 2002. A study of the *Didymodon* species (Pottiaceae, Musci) in Russia. I. Species with caducous leaf apices – *Arctoa* **11**: 337-349.
324. [OTNYUKOVA, T.N.] ОТНЮКОВА Т.Н. 2003. Материалы к флоре листостебельных мхов Тоджинской котловины (республика Тыва, Южная Сибирь). – [Contribution to the moss flora of Todzha Valley (Tuva Republic, South Siberia)] *Arctoa* **12**: 97-109.
325. OTNYUKOVA, T.N., E.A. IGNATOVA, M.S. IGNATOV & V.E. FEDOSOV 2004. New records of *Tortella alpicola* Dix. in Eurasia. – *Arctoa* **13**: 197-201.
326. OTNYUKOVA, T.N. & R. OCHYRA 2003. On *Dicranum dispersum* Engelmark and *D. orientale* Otnyukova. – *Arctoa* **12**: 115-116.
327. OTNYUKOVA, T.N. & R.H. ZANDER 1998. *Didymodon anserinocapitatus*, new to Russia from the Yenisey River, South Siberia. – *Arctoa* **7**: 33-35.
328. [PARTYKA, L. Ya.] ПАРТЫКА Л.Я. 2005. Бриофлора Крыма. – [Bryoflora of Crimea] Киев, *Институт ботаники*

НАН [Kiev, N.G. Kholodny' Inst. Bot. NAN], 170 pp.

329. [PARTYKA, L.Ya., RAITSI & K.O. ULYCHNA] ПАРТЬКА, Л.Я., М. РАЙЦИ & К.О.УЛЫЧНА 1990. Поширення видів роду *Rhodobryum* (Schimp.) Limpr. на Україні. – [Distribution of species of the genus *Rhodobryum* (Schimp.) Limpr. in Ukraine] *Укр. Бот. Журн.* [Ukr. Bot. Zhurn.] **47**(3): 28-31.
330. PEDERSEN, N. 2005. Validation of *Imbribryum* (Bryaceae). – *Bryologist* **108**: 449.
331. PEDERSEN, N. & L. HEDENÄS 2002. Phylogenetic relationships between *Bryum* and supposedly closely related genera. – *J. Bryol.* **24**: 277-289.
332. PEDERSEN, N. & L. HEDENÄS 2005. Taxonomic and nomenclatural implications of phylogenetic studies of the Bryaceae based on molecular data and morphology. – *Bryologist* **108**: 123-128.
333. [PIDOPLICHKO, A.P.] ПИДОПЛИЧКО А.П. 1948. Флора сфагновых (торфяных) мхов Белорусской ССР. – [Flora of Sphagna of Belorussian SSR] Минск, Изд. Академии наук БССР [Minsk, Izd. Akad. Nauk BSSR], 70 pp.
334. [PISARENKO, O.Yu.] ПИСАРЕНКО, О.Ю. 2001. Мохообразные. – [Bryophytes] В кн.: *Флора и растительность Катунского заповедника (Горный Алтай) (ред. В.П. Седельников). Новосибирск* [In: Sedelnikov, V.P. Flora and vegetation of Katunskii Reserve (Altai mountainous). Novosibirsk]: 206-227.
335. [PISARENKO, O.Yu.] ПИСАРЕНКО О.Ю. 2004a. Мохообразные – [Bryophytes] В кн.: *Флора и растительность Елизаровского государственного заказника (нижняя Обь). Новосибирск* [In: Flora i rastitelnost Elizarovskogo zakaznika (Nizhnyaya Ob). Novosibirsk]: 49-61.
336. PISARENKO, O.Yu. 2004b. Mosses of the central part of Kuznetskiy Alatau (Southern Siberia) – *Arctoa* **13**: 241-260.
337. PISARENKO, O.Yu. 2006a. On the variation and ecology of *Pterygoneurum subsessile* and *P. kozlovii* (Pottiaceae, Bryophyta). – *Arctoa* **15**: 169-182.
338. [PISARENKO, O.Yu.] ПИСАРЕНКО О.Ю. 2006b. Редкие и интересные виды мхов бриофлоры Сибири в гербарии ЦСБС СО РАН. – [Rare and interesting moss species of Siberia in herbarium of Central Siberian Botanical Garden] В кн.: *Роль ботанических садов в сохранении биоразнообразия растительного мира Азиатской России: настоящее и будущее. Материалы Всероссийской конференции, посвященной 60-летию Центрального сибирского ботанического сада. Новосибирск* [In: Rol botanicheskikh sadov v sohranении bioraznootsrazheniya rastitel'nogo mira Aziatskoy Rossii: nastoyashee i budushee. Materialy vserossiyskoy konferentsii, posvyaschennoy 60-letiyu Centralnogo Sibirskogo botanicheskogo sada. Novosibirsk]: 218-220.
339. PISARENKO, O.Yu., E.A. IGNATOVA & M.S. IGNATOV 2001. *Entostodon hungaricus* (Boros) Loeske (Funariaceae, Musci) in Altai territory, South Siberia. – *Arctoa* **10**: 97-102.
340. PODPERA, J. 1929. Musci insulae Rossicae prope Vladivostok. – *Publ. Fac. Sci. Univ. Masaryk* **116**: 3-40.
341. PODPERA, J. 1954. *Conspectus Muscorum Europaeorum*. – *Praha, Nakladatelstvi Cesk. Akad. Ved.*, 699 pp.
342. [POGOSYAN, A.V.] ПОГОСЯН А.В. 2003. Бриофлора вулканического массива Араилер (Республика Армения). – [Bryoflora of volcanic massif Arailer (Republic of Armenia)] *Arctoa* **12**: 187-190.
343. [POPOV, S.Yu., V.E. FEDOSOV, S.A. MOSHKOVSKY & M. S. IGNATOV] ПОПОВ С.Ю., В.Э. ФЕДОСОВ, С.А. МОШКОВСКИЙ, М.С. ИГНАТОВ 2004 [2005]. Флора мхов Керженского заповедника (Нижегородская область, европейская часть России). – [Moss flora of Kerzhensky State Reserve (Nizhniy Novgorod Province, European Russia)] *Arctoa* **13**: 57-66.
344. [POPOVA, N.N.] ПОПОВА Н.Н. 1988. Конспект мхов. – [Conspect of mosses] В кн.: *Цвелев Н.Н. Флора Хоперского государственного заповедника. Л.: Наука* [In: Tzvelev, N.N. Flora of Khopersky State Reserve. Leningrad, Nauka]: 173-184.
345. [POPOVA, N.N.] ПОПОВА Н.Н. 2002 [2003]. Бриофлора Среднерусской возвышенности. I. – [Bryoflora of the Central Russian Upland. I] *Arctoa* **11**: 101-168.
346. [PUSHKINA, N.M.] ПУШКИНА Н.М. 1960. Лишайники и мхи Лапландского заповедника. – [Lichens and bryophytes of Laplandsky Reserve] *Тр. Лапландск. гос. зап. ка* [Trudy Laplandskogo Gos.Zapovednika] **4**: 189-248.
347. [RAKHMATULINA, E.K.] РАХМАТУЛИНА Э.К. 1964. Некоторые данные о бриофлоре увлажненных местообитаний западного Тянь-Шаня (средний пояс). – [On the bryoflora of wet habitats of Western Tian-Shan (middle mountain belt)] *Узбекск. биолог. журн.* [Uzbek. Biol. Zhurn.] **5**: 67-70.
348. [RAKHMATULINA, E.K.] РАХМАТУЛИНА Э.К. 1968. Эпифитная флора мхов Бостандыка. – [Epiphyte moss flora of Bostandyk] *Узбекск. биолог. журн.* [Uzbek. Biol. Zhurn.] **3**: 51-54.
349. [RAKHMATULINA, E.K.] РАХМАТУЛИНА Э.К. 1969. К бриофлоре Киргизского хребта (бассейн р. Джарлы-Каиды). – [On bryoflora of Kyrgyzsky Range (Dzharly-Kaida River Basin)] В кн.: *Растительные ресурсы Киргизии. Фрунзе* [In: Rastitelnye resursy Kyrgyzii. Frunze]: 33-38.
350. [RAKHMATULINA, E.K.] РАХМАТУЛИНА Э.К. 1970. Мхи ельников северного склона хребта Терской Ала-Тоо. – [Mosses of spruce forest of northern slope of Terskei Ala-Too] *Флора Киргизской ССР. Доп. 2. Фрунзе* [Flora Kyrgyzskoy SSR. Dopolnenie 2. Frunze]: 50-59.
351. [RAKHMATULINA, E.K.] РАХМАТУЛИНА Э.К. 1990. Мхи гербария института биологии АН Киргизской ССР. – [Mosses of Herbarium of Institute of Biology of Academy of Sciences of Kyrgyz SSR] *Известия АН Киргизской ССР, сер. Химико-технологические и биологические науки* [Izv. Akad. Nauk Kyrgyzskoy SSR, ser. Khimiko-tekhnologicheskies i biologicheskies nauki] **4**: 48-56.
352. RAZGULYAeva, L.V., M.G. NAPREENKO, CH. WOLFRAM & M.S. IGNATOV 2001. *Campylopus introflexus* (Dicranaceae, Musci) – an addition to the moss flora of Russia. – *Arctoa* **10**: 185-188.
353. REDFEARN, P. L., JR. & P.-C. WU 1986. Catalog of the mosses of China. – *Ann. Missouri Bot. Gard.* **73**: 177-208.

354. REDFEARN, P.L., JR., B.C. TAN & S. HE 1996. A newly updated and annotated checklist of Chinese mosses – *J. Hattori Bot. Lab.* **79**: 163-357
355. [RYKOVSKY, G.F. & O.M. MASLOVSKY] РЫКОВСКИЙ Г.Ф., О.М. МАСЛОВСКИЙ 2004. Флора Беларуси, мохообразные. Том 1 Andreeopsida-Бryoopsida. – [Flora of Belarus, Bryophyta. Vol. 1 Andreeopsida-Bryoopsida] Минск, *Tekhnologiya* [Minsk, *Tekhnologiya*], 439 pp.
356. [SAKAUOVA, G.B.] САКАУОВА Г.Б. 1992. Мохообразные Южного Алтая. – [Bryophytes of South Altai] Автореф. дисс... канд. биол. наук Душанбе, *АН Респ. Таджикистан, Инст. Бот.* [Thesis Ph. D. Dushanbe, *Akad. Nauk. Resp. Tadzhikistan, Inst. Bot.*], 22.
357. [SAVICZ, L.] САВИЧ Л.И. 1922. Критический обзор новейшей литературы по мхам России (за 1921-1922 г.). – [Critical review of recent literature on mosses, 1921-1922] *Изв. Главн. бот. сада* [Izv. Glavn. Bot. Sada] **21**(2): 1-9.
358. [SAVICZ, L.I.] САВИЧ Л.И. 1936. Материалы к флоре мхов острова Сахалин. – [Contributions to the moss flora of Sakhalin] *Вестник ДВФ АН СССР* [Vestnik Dalnevostochn. Fil. Akad. Nauk SSSR] **19**: 68-85.
359. [SAVICZ-LYUBITSKAYA, L.I.] САВИЧ-ЛЮБИЦКАЯ Л.И. 1954. Обзор рода *Bryum* Hedw. в СССР. – [An overview of genus *Bryum* Hedw. in the USSR] *Тр. бот. ин-та АН СССР, сер. 2. Споровые растения* [Trudy Bot. Inst. Akad. Nauk SSSR, ser. 2. Sporovye Rasteniya] **9**: 495-634.
360. [SAVICZ-LYUBITSKAYA, L.I.] САВИЧ-ЛЮБИЦКАЯ Л.И. 1966. Об изменении названий у некоторых мхов. – [On the name changes of certain mosses] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **1966**: 330-332.
361. [SAVICZ-LYUBITSKAYA, L.I. & Z.N. SMIRNOVA] САВИЧ-ЛЮБИЦКАЯ Л.И., З.Н. СМІРНОВА 1970. Определитель листостебельных мхов СССР. Верхоплодные мхи. – [Handbook of mosses of the USSR. The ascocarpous mosses] *Л., Наука* [Leningrad, Nauka], 822.
362. [SCHLJAKOV, R.N.] ШЛЯКОВ Р.Н. 1951. Два новых вида мхов. – [Two new bryophyte species] *Бот. матер. Отд. спор. раст. Бот. ин-та АН СССР* [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR] **7**: 227-234.
363. [SCHLJAKOV, R.N.] ШЛЯКОВ Р.Н. 1999. Новые названия некоторых таксонов мхов России. – [The new names of some taxons of Russian mosses] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **33**: 196-198.
364. [SCHLYAKOV, R.N. & N.A. KONSTANTINOVA] ШЛЯКОВ Р.Н., Н.А. КОНСТАНТИНОВА 1982. Конспект флоры мохообразных Мурманской области. – [Conspectus of bryophyte flora of Murmansk Province] *Апатиты, Полярно-Альпийский бот. сад* [Apatity, Polar-alpine Bot. Gard.], 228 pp.
365. [SEMENOV, B.S.] СЕМЕНОВ Б.С. 1929. Сфагны Алтая. – [Sphagna of Altai] *Труды Алтайского подотдела Русск. Геогр. О-ва* [Trudy Altaisk. Pod. Russ. Geogr. Obsc.] **1**: 1-44.
366. [SEREDA, V.A.] СЕРЕДА В.А. 2006. Новые находки мхов в Ростовской области. 1. – [New moss records from Rostov-na-Donu Province] *Arctoa* **15**: 255-256.
- 366a. [SHUBINA T.P. & G.V. ZHELEZNOVA] ШУБИНА Т.П., Г.В. ЖЕЛЕЗНОВА 2002. Листостебельные мхи равнинной части средней тайги европейского Северо-Востока. – [Mosses of the plain landscapes of the middle taiga of the European North-East] *Екатеринбург: УрО РАН* [Ekaterinburg, UrO RAN]: 157 pp..
367. [SIMONOV, G.P.] СИМОНОВ Г.П. 1978. Определитель листостебельных мхов Молдавской ССР. – [Handbook of mosses of Moldavian SSR] *Кишинев, Штиунца* [Kishinev, Schtiunza], 168 pp.
368. [SIROTINA, I.V.] СИРОТИНА И.В. 1987. Мхи Копетдага. – [Mosses of Kopet Dagh] *Дис. ... канд. биол. Наук. Л. БИН АН СССР* [Ph. D. Thesis. Leningrad, Botanical Inst. Akad. Nauk SSSR], 191 pp.
369. [SMIRNOVA, Z.N.] СМІРНОВА З.Н. 1952. Новый вид рода *Drepanocladus* с Курильских островов. – [New species of the genus *Drepanocladus* from Kuril Islands] *Бот. мат. Отд. споровых раст. Бот. ин-та АН СССР* [Bot. Mat. Otd. Spor. Rast. Bot. Inst. Akad. Nauk SSSR] **8**: 210-213.
370. [SMIRNOVA, Z.N.] СМІРНОВА З.Н. 1966. О *Mnium andrewsianum* Steere в СССР. – [On *Mnium andrewsianum* Steere in USSR] *Новости сист. низш. раст.* [Novosti Sist. Nizsh. Rast.] **1966**: 332-338.
371. SMITH, A.J.E. 2004. The moss flora of Britain and Ireland. 2 ed. – Cambridge, Cambridge University Press, 1012 pp.
372. SOLDAN, Z. 1991-1992 [1993]. Distribution of *Iwatsukiella leucotricha* (Musci, Leskeaceae), with notes on a new disjunction in Caucasus. – *Novit. Bot. Univ. Carolinae* **7**: 35-43.
373. [SPIRINA, U.N. & V.I. ZOLOTOV] СПИРИНА, У.Н., В.И. ЗОЛОТОВ 2004 [2005] Мхи Оренбургского государственного природного заповедника (Юго-восток европейской части России). – [Mosses of the Orenburg State Nature Reserve (South-Eastern European Russia)] *Arctoa* **13**: 51-56.
374. STARK, L.R. 1987. A taxonomic monograph of *Forsstroemia* Lindb. (Bryopsida: Leptodontaceae). – *J. Hattori Bot. Lab.* **63**: 133-218.
375. STECH, M. 1999. *Dichodontium palustre* (Dicks.) Stech comb. nov., a new name for *Dicranella palustris* (Dicks.) Crundw. ex Warb. (Dicranaceae, Bryopsida). – *Nova Hedwigia* **69**: 237-240.
376. SUGAWARA, Sh. 1956. Bryophyta sachalinensis.
377. [SURAGINA, S.A., E.A. IGNATOVA, M.S. IGNATOV & V.I. ZOLOTOV] СУРАГИНА С.А., Е.А. ИГНАТОВА, М.С. ИГНАТОВ, В.И. ЗОЛОТОВ 2003 '2002'. Материалы к флоре мхов Астраханской области (юг европейской России). – [Contribution to the Moss Flora of Astrakhan Province (South European Russia)] *Arctoa* **11**: 169-174.
378. TAN, B.C. 1991. Miscellaneous notes on Asiatic mosses, especially Malasian Sematophyllaceae (Musci) and others. – *J. Hattori Bot. Lab.* **70**: 91-106.
379. TAN, B.C., W.R. BUCK & M.S. IGNATOV 1990. On the Hymalayan *Struckia* C. Muell. and Russian *Cephalocladium Lazar.* (Musci, Hypnaceae). – *Lindbergia* **16**(3): 100-104.
380. TAN, B.C. & JIA YU 1999 A preliminary revision of Chinese Sematophyllaceae. – *J. Hattori Bot. Lab.* **86**: 1-70.

381. [TELEGANOVA V.V. & M.S. IGNATOV] ТЕЛЕГАНОВА В. В., М.С. ИГНАТОВ 2006. Новые находки мхов в Калужской области. 1. – [New moss records from Kaluga Province. 1] *Arctoa* **15**: 249-250.
382. THÉRIOT, I. 1918. Mousses du Caucase. – *Bull. Acad. Int. Géogr., Bot.* **28**: 96-105.
383. TOUW, A. 2001. A review of the Thuidiaceae (Musci) and a realignment of taxa traditionally accommodated in Thuidium sensu amplo (Thuidium Schimp., Thuidiopsis (Broth.) M. Fleisch., and Pelekium Mitt.) including Aequatoriella gen. nov., and Indotheidium gen. nov. – *J. Hattori Bot. Lab.* **90**: 167-209.
384. TOWNSEND, C.C. 1991. Two mosses of interest in the Soviet Union. – *J. Bryol.* **16**: 648-649.
385. TOWNSEND, C.C. 1992. Four more interesting mosses in Uzbekistan. – *J. Bryol.* **17**: 374-376.
386. [TUBANOVA, D.Ya.] ТУБАНОВА Д.Я. 2004. Мхи Джергинского заповедника. – [Mosses of Dzherginsky Reserve] *В ст.: Игнатов М.С., Е.А.Игнатова, Г.А.Пронькина, Мхи заповедников России. Современное состояние биологического разнообразия на заповедных территориях России. Том. 3. Лишайники и мохообразные. М., МСОП [In: Ignatov, M.S., E.A. Ignatova & G.A. Pronkina, Mosses of State Reserevs of Russia. Sovremennoe sostoyanie biologicheskogo raznoobraziya na zapovednykh territoriyakh Rossii. Vol. 3. Lishainiki i mokhoobraznye. Moscow, IUCN]: 274-366.*
387. TUBANOVA D.YA., O.A. ANENKHONOV 2004. The epiphytic mosses in Northern Buryatia (Eastern Siberia). – *Arctoa* **13**: 85-88.
388. [TUBANOVA, D.YA., E.A. IGNATOVA & V.I. ZOLOTOV] ТУБАНОВА Д.Я., Е.А. ИГНАТОВА, В.И. ЗОЛОТОВ 2006. Новые находки мхов в Республике Бурятия. 1. – [New moss records from Republic Buryatiya. 1] *Arctoa* **15**: 261-263.
389. [UKRAINSKAYA, G.Ya.] УКРАИНСКАЯ Г.Я. 1996a. О сходстве и различии *Plagiothecium piliferum* (Sw.) Bruch et al. и *Isoterygiopsis muelleriana* (Schimp.) Iwats. – [On the similarity and difference of *Plagiothecium piliferum* (Sw.) Bruch et al. and *Isoterygiopsis muelleriana* (Schimp.) Iwats.] *Новості ісупт. низш. раст. [Novosti Sist. Nizsh. Rast.]* **31**: 185-191.
390. [UKRAINSKAYA, G.Ya.] УКРАИНСКАЯ Г.Я. 1996b. *Plagiothecium berggrenianum* (Plagiotheciaceae, Musci) в России. – [Plagiothecium berggrenianum (Plagiotheciaceae, Musci) in Russia] *Бот. Журн. [Bot. Zhurn.]* **81**(2): 87-91.
391. ULVINEN, T. 1996. Bryophytes of the former Kutsa Nature Reserve. – *Oulanka Reports* **16**: 53-62.
392. [ULYCHNA, K.O. & N.M. VORONINA] УЛЫЧНА К.О., Н.М. ВОРОНИНА 1978 [1979]. Лиственные мохи. 3. – [Mosses. 3] *Каталог музейных фондов. Збірник наукових праць Львів. прир. муз. Київ [In: Katalog muzeinykh fondov. Zbirnik naukovikh praz Lvivskogo Prirodnoho Muzeya. Kyiv]: 4-18.*
393. [UTEKHIN, V.D.] УТЕХИН В.Д. 1976. К флоре зеленых мхов заповедника Аксу-Джабаглы. – [On moss flora of Aksu-Dzhabagly Reserve] *В кн.: Заповеднику Аксу-Джабаглы 50 лет. Алма-Ата [In: Zapovedniku Aksu-Dzhabagly 50 let. Alma-Ata]: 56-65.*
394. VANDERPOORTEN, A. 2001. The *Syntrichia ruralis* complex in Belgium. – *Cryptogamie, Bryologie* **22**: 71-84.
395. [VASILYEV, A.N.] ВАСИЛЬЕВ А.Н. 1992. Конспект флоры мохообразных в заповедниках “Столбы” и Саяно-Шушенском. – [Bryophytes of Reserves “Stolby” and Sayano-Shushenskij] *Красноярск, Изд-во Красноярск. ун-та [Krasnoyarsk, Izd. Krasnoyarsk. Univ.], 112.*
396. VELLAK, K., L. KANNUKENE, N. INGERPUU & M. LEIS 2001. Additions to the list of the Estonian bryophytes, 1997-2001. – *Folia Cryptogamica Estonica* **38**: 71-78.
397. VELLAK, K., N. INGERPUU, L. KANNUKENE & M. LEIS 2006. New Estonian records. Liverworts and mosses. – *Folia Cryptogamica Estonica* **42**: 107-111.
398. [VIRCHENKO, V.M.] ВІРЧЕНКО В.М. 1989. Види секції *Erythrocarpa* Kindb. роду *Bryum* Hedw. у флорі УРСР. – [Species of *Bryum* sect. *Erythrocarpa* Kindb. in the flora of Ukraine]. *Укр. Бот. Журн. [Ukr. Bot. Zhurn.]* **46**(5): 51-55.
399. [VIRCHENKO, V.M.] ВІРЧЕНКО В.М. 1992. Чи знайдено *Atractylocarpus alpinus* (Schimp. ex Milde) Lindb. на Україні?. – [Is *Atractylocarpus alpinus* (Schimp. ex Milde) Lindb. found in Ukraine?] *Укр. Бот. Журн. [Ukr. Bot. Zhurn.]* **49**(3): 95-98.
400. [VIRCHENKO, V.M.] ВІРЧЕНКО В.М. 2000. Список бокоплідних мохів України. – [List of pleurocarpous mosses of Ukraine] *Київ, Знання [Kyiv, Znannya], 32 pp.*
401. [VIRCHENKO, V.M.] ВІРЧЕНКО В.М. 2001. Список верхоплідних мохів України. – [List of acrocarpous mosses of Ukraine] *Київ, Знання [Kyiv, Znannya], 56 pp.*
402. [VIRCHENKO, V.M.] ВІРЧЕНКО В.М. 2004. Нові знахідки рідкісних для України мохоподібних. – [New records of rare bryophyte species in Ukraine] *Укр. Бот. Журн. [Ukr. Bot. Zhurn.]* **61**(1): 106-110.
403. [VIRCHENKO, V.M.] ВІРЧЕНКО В.М. 2005. Рід *Zygodon* Hook. et Taylor (Orthotrichaceae, Bryophyta) в Україні. – [The genus *Zygodon* Hook. et Taylor (Orthotrichaceae, Bryophyta) in Ukraine] *Укр. Бот. Журн. [Ukr. Bot. Zhurn.]* **62**(5): 715-718.
404. [VIRCHENKO, V.M. & L.A. BABENKO] ВІРЧЕНКО В. М., Л.А. БАБЕНКО 2001. Знахідка *Rhynchostegium rotundifolium* (Brid.) Bruch et al. та *Myuroclada maximoviczii* [sic!] (Borszcz.) Steere & Schof. на сході Європи. – [Finding of *Rhynchostegium rotundifolium* (Brid.) Bruch et al. and *Myuroclada maximoviczii* (Borszcz.) Steere & Schof. in the eastern Europe] *Укр. бот. журн. [Ukr. Bot. Zhurn.]* **58**(1): 676-759.
405. [VIRCHENKO, V.M. & O.O. ORLOV] ВІРЧЕНКО В.М., О.О. ОРЛОВ 2005. Нові та рідкісні мохоподібні для Українського Полісся. – [New and rare bryophytes for Ukrainian Polesie] *Укр. Бот. Журн. [Ukr. Bot. Zhurn.]* **62**(3): 431-436.
406. [VIRCHENKO, V.M. & J. VÁŇA] ВІРЧЕНКО В.М., І. ВАНЯ 2000. Список печіночників, антоцерогів та сфагнових мохів України. – [List of hepatics, anthocerotites and sphagna of Ukraine] *Київ, Знання [Kyiv, Znannya], 31 pp.*

407. [VOLKOVA, L.A. & A.I. MAKSIMOV] ВОЛКОВА Л.А., А.И. МАКСИМОВ 1993. Список листостебельных мхов Карелии. – [Checklist of mosses of the Karelia] В кн.: *Растительный мир Карелии и проблемы его охраны* (ред. Г.А. Елина, А.Д. Волков) Петрозаводск, Карельский научный центр РАН [In: *Elina, G.A. & A.D. Volkov (eds.), Rastitel'nyj mir Karelii i problemy ego okhrany. Petrozavodsk, Karel'skij nauchnyj tsentr Ross. Akad. Nauk*]: 57-91.
408. WARNSTORE, C. 1906. Kryptogamenflora der Mark Brandenburg. Laubmoose. 2 Bd. – Berlin, Verlag von Gebrüder Bornträger, xii+1160.
409. WERNER, J. 2002. A comparison of *Dichodontium flavescens* (Dicks.) Lindb. and *D. pellucidum* (Hedw.) Lindb. (Bryopsida). – *J. Bryol.* **24**: 215-221.
410. WILBRAHAM, J. & D.G. LONG 2005. *Zygodon* Hook. & Taylor and *Bryomaltaea Goffinet* (Bryopsida: Orthotrichaceae) in the Sino-Himalaya. – *J. Bryol.* **27**: 329-342.
411. ZANDER, R.H. 1993. Genera of the Pottiaceae: mosses of harsh environments. – *Bull. Buffalo Soc. Nat. Sci.* **32**: 1-378.
412. [ZEROV, D.K.] ЗЕРОВ Д.К. 1964. Флора печіночних і сфагнових мохів України. – [Flora of hepatics and Sphagna of Ukraine] *Kuiv, Naukova Dumka* [Kyiv, Naukova Dumka], 356 pp.
413. [ZEROV, D.K. & L.Ya. PARTYKA] ЗЕРОВ Д.К., Л.Я. ПАРТЫКА 1975. Мохоподібні Українських Карпат. – [Mosses of Ukrainian Carpatians] *Kuiv, Naukova Dumka* [Kyiv, Naukova Dumka], 231 pp.
414. [ZHELEZNOVA, G.V.] ЖЕЛЕЗНОВА Г.В. 2006. Новые находки мхов в республике Коми. 1. – [New moss records from Komi Republic. 1] *Arctoa* **15**: 251-252.
415. ZHELEZNOVA, G.V.] ЖЕЛЕЗНОВА Г.В. 1994. Флора листостебельных мхов Европейского Северо-Востока. – [Moss flora of European North-East] *СПб., Наука* [St.-Petersburg, Nauka], 148.
416. [ZHELEZNOVA, G.V. & Т.Р. SHUBINA] ЖЕЛЕЗНОВА Г.В., Т.П. ШУБИНА 1998а. Новые находки мохообразных в Республике Коми (Северо-Восточная Европа). – [New records of bryophytes from Komi Republic (North-East Europe)] *Arctoa* **7**: 189-190.
417. [ZHELEZNOVA, G.V. & Т.Р. SHUBINA] ЖЕЛЕЗНОВА Г.В., Т.П. ШУБИНА 1998b. Мохообразные Печоро-Ильчского заповедника. – [Bryophytes of Pechoro-Ilych Reserve] *Флора и фауна заповедников. Вып. 65. Москва* [Flora i fauna zapovednikov. 65. Moscow]: 34 pp.
- 417a. [ZHELEZNOVA G.V., Т.Р. SHUBINA] ЖЕЛЕЗНОВА Г.В., Т.П. ШУБИНА 2005. Видовой состав мхов техногенно нарушенных ландшафтов Республики Коми. – [The species composition of mosses in the technogenically disturbed areas of the Komi Republic] *Бот. журн.* [Bot. Zhurn.] **90**(2): 215-222.
418. ZOLOTOV, V.I. 2000. The genus *Bryum* (Bryaceae, Musci) in the Middle European Russia. – *Arctoa* **9**: 155-232.
419. [ZOLOTOV, V.I.] ЗОЛОТОВ В.И. 2003. *Bryum sauterii* Bruch et al. в средней части Европейской России. – [*Bryum sauterii* Bruch et al. in Middle European Russia] *Arctoa* **12**: 117-120.
420. ZOLOTOV, V.I. 2006a. On systematics and distribution of some species of *Bryum* (Bryaceae, Bryophyta) in Russia. – *Arctoa* **15**: 155-162.
421. [ZOLOTOV, V.I.] ЗОЛОТОВ В.И. 2006b. Новые находки мхов в Республике Северная Осетия – Алания. 1. – [New moss records from Republic North Ossetiya – Alania. 1] *Arctoa* **15**: 256.
422. [ZOLOTOV, V.I. & E.Z. VAISHEVA] ЗОЛОТОВ В.И., Э.З. БАИШЕВА 2003. Флора листостебельных мхов заповедника «Шульган-Таш» (Республика Башкортостан, Россия). – [Moss flora of “Shulgan-Tash” nature reserve (Republic Bashkortostan, Russia)] *Arctoa* **12**: 121-132.
423. [ZOLOTOV, V. I. & N.R. SHAFIGULLINA] ЗОЛОТОВ В. И., Н.Р. ШАФИГУЛЛИНА 2006. Новые находки мхов в республике Татарстан. 1. – [New moss records from Tatarstan Republic. 1] *Arctoa* **15**: 250.
424. “*Tortula modica*, Irkutsk, Akademgorodok, Bardunov, 10.X.1957; 22.IX.1969 (IRK, sub *Pottia truncata*)”
425. *Hypnum imponens* in Caucasus (confirmed by Afonina.): (1) Caucasian Reserve, Guzeripl, beech forest, on rotten trunk, 19.VIII.1928, coll. Z. Smirnova (LE); (2) same, Guzeripl, 1 km to Goreloe, beech-fir forest, on rotten beech, 28.VII.1935, coll. L.N. Vasileva (LE); (3) same, near Ternovaya Village, Belaya River, Kisha Creak, alt. 600 m, on remains of beech, 28.VII.1951, coll. Senicheva (LE).
426. “*Philonotis falcata*, Altai Republic, Chemal, Ignatov, 29/33 (МНА), det T. Koponen.”
427. “*Fissidens exilis*, Altai Territory, Kolyvan, Ignatov, 17.VIII.2004 (МНА)”.
428. *Sphagnum perfoliatum* L.I.Savicz was described with inexact type locality, called just “NW Siberia”. There are three collections in LE labelled by Savicz with Notae criticae “*Sphagnum perfoliatum* nov. sp.”, two from Salekhard, or from Novyj Port. Only one of them is labelled with Notae criticae “typus” by Savicz and obviously it has to be designated as the holotype: “Вычегодско-Печерская геоботаническая экспедиция, Н.Я. и С.В.Кац, *Sphagnum jamalense* Lyd. Savicz spec. nov., окрестности Сале-Харда Ямало-Ненецкого округа, сфагновое болото, в мочезинах 9.VIII.1939 leg. Н. и С. Кац, det. L. Savicz” [Vychedogsko-Pecherskaya Geobotanical Expedition of N.Ya. & S. V. Katz, vicinity of Salekhard of Yamalo-Nenetsky District, *Sphagnum* bog, in hollows, 9.VIII.1938 leg. N. & S. Katz, det. L. Savicz], with Notae criticae 1947: *Sphagnum perfoliatum* Lyd. Sav. nov. sp. and additional Notae criticae: “*Sphagnum perfoliatum* (typus)”. This locality is outside Arctic according to the present subdivision of Siberia (Fig. 1, page 5), although very close to it border.
429. “In plantie Elisabethopolous, Dr. Kolenai LE”.
430. “*Hamatocaulis lapponicus*, Vologodskaya Province, Totemsky Distr., Nikolaevskaya, 11.VII.1926. O. Gaze & A. Korchagin (LE).”
431. “*Tortula truncata*, Altaysky Territory, Barnaul, Ignatova, 10.VI.1988 E.Ignatova (МНА)”.
432. “*Pseudoleskeella rupestris*, Komi Republic, Pecherolychskiy Nature Reserve, Pechora River Valley, Kameshok (62°03'N–58°13'E), alt. 200 m, limestone outcrops, on dry tops and ledges, A.G.Bezgodov & I.B.Kucherov (MW, LE)”



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