

MOSSES OF THE RUSSIAN ARCTIC: CHECK-LIST AND BIBLIOGRAPHY МХИ РОССИЙСКОЙ АРКТИКИ: СПИСОК ВИДОВ И БИБЛИОГРАФИЯ

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Abstract

In the Russian Arctic 530 moss species of 154 genera and 43 families are now known. Their distribution is listed according to 15 subdivisions of the Russian Arctic, with the indication of species frequency for the whole territory. The complete list of synonyms and bibliography are also provided.

Резюме

На территории Российской Арктики в настоящее время известно 536 видов мхов, относящихся к 154 родам и 43 семействам. Приведен их список с указанием их распространения в 15 районах Российской Арктики и частоты встречаемости (оцениваемой в целом для всей территории). Кроме того дан полный список синонимов и аннотации для видов, указанных в Арктике лишь один раз, а также некоторые таксономические замечания. Библиография включает все публикации, в которых содержится существенная информация по мхам Российской Арктики.

INTRODUCTION

The first data on mosses of the Russian Arctic appeared in the middle of XIX century. Schrenk (1854), Blytt (1872) and Ruprecht (1856) published the results of their studies of mosses in the Polar Ural. Middendorf undertook an expedition in Taimyr Peninsula and collected numerous specimens, which have been studied by Borszczow (1856). In 1878-1880 the Asian coast of the Arctic Ocean was studied by the Swedish expedition on the "Vega". The botanist of this expedition, Kjellman, collected mosses in many places. This collection was described by Arnell (1917). Arnell himself collected mosses in 1876 all along Yenisey River, mostly in the forest zone, but also at two localities within the Arctic (Dudinka and Tolstoi Nos); this collection is described in "Musci Asiae Borealis" by Lindberg & Arnell (1890). Arnell also described an interesting collection of Nilsson-Ehle from the Lower Lena River (Arnell, 1913). In 1881 Ar. Krause and A. Krause collected in Chukotka (expedition of the Bremen Geographic Society) many moss specimens, which have been described by C. Mueller (1883). In 1900-1903 Byalynizkij-Biruli, a participant of the First Russian Polar expedition, collected mosses on the Novosibirskiy Islands, which have been identified by Brotherus (1910). At the beginning of XX century Pole (1915) studied the flora of the European Russian North and published an extensive list of plants, including mosses. So in

the 1910s, the moss flora of Russian Arctic already included about 300 species.

From 1920 to the 1960s the Russian Arctic was extensively explored by geobotanists. In the course of these studies V. D. Alexandrova, V. N. Andrejev, I. D. Bogdanovskaya-Guiheneuf, B. N. Gorodkov, B. A. Tikhomirov and many other botanists collected numerous bryophyte specimens (especially for relevés). These collections were supplied for identification to Savicz-Lyubitskaya, Smirnova and Abramova and therefore accumulated mostly in the Komarov Botanical Institute in Leningrad (St.-Petersburg). These new data provide the basis for the "Handbook of mosses of Arctic of the USSR" (Abramova & al., 1961). The handbook includes 467 species for the territory which is however somewhat more broad than accepted here (Fig. 1).

Since late 1960s, studies of Russia became more intensive. In these years many professional bryologists participated in the field investigation in the Arctic. Zheleznova studied bryophytes in the European Arctic; Czernyadjeva - in the Yamal and Gydan Peninsulas; Dyachenko and Czernyadjeva - in the Polar Ural; Blagodatskich, Kannukene, Bardunov, and Afonina - in the Taimyr Peninsula, Stepanova and Afonina - in the Arctic Yakutia, Afonina - in Chukotka. At the same time geobotanists continued to collect bryophytes during their numerous expeditions and sent them for the identification to the Komarov Botanical Institute, where they were studied mostly by Abramova, Volkova, Afonina, and

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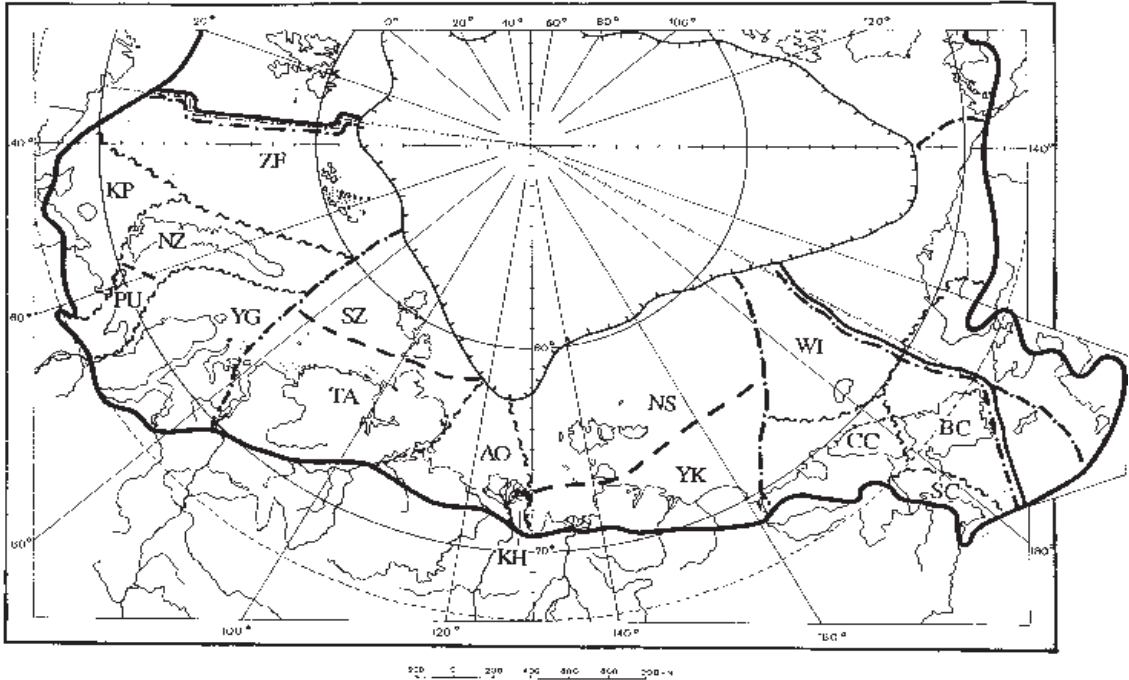


Fig. 1. Phytogeographic subdivision of the Russian Arctic (according to Yurtsev & al., 1978)
Рис. 1. Фитогеографическое подразделение Российской Арктики (согласно Юрцеву и др., 1978).

Земля Франца Иосифа	ZF	Franz Josef Land
Канино-Печерский регион	KP	Kanin-Pechora Region
Полярный Урал	PU	Polar Ural
Новая Земля	NZ	Novaya Zemlya
Ямало-Гыданский регион	YG	Yamal-Gydan Region
Таймыр	TA	Taimyr
Северная Земля	SZ	Severnaya Zemlya
Анабаро-Оленекский регион	AO	Anabar-Olenek Region
Хараулахский регион	KH	Kharaulakh Region
Яно-Кольмский регион	YK	Yana-Kolyma Region
Новосибирские острова	NS	Novosibirskiye Islands
Континентальная Чукотка	CC	Continental Chukotka
Остров Врангеля	WI	Wrangel Island
Южная Чукотка	SC	South Chukotka
Берингийская Чукотка	BC	Beringian Chukotka

Czernyadjeva. These investigation revealed many new species for the Russian Arctic and many new regional records. Unfortunately publications on bryophytes of the Russian Arctic are scattered and many of them are difficult to obtain. This information was summarized in the Checklist of mosses of the former USSR (Ignatov & Afonina, 1992), but the format of that publication did not provide the possibility to include many important details. In the present checklist we summarize information on mosses of the Russian Arctic, based on published literature. We have also studied some specimens at LE, concentrating principally of rare or questionable species. Collections from Franz Josef Land, the Yamal and Gydan Peninsulas, and from the Polar Ural were studied by Czernyadjeva; moss collections from

Chukotka and from the Arctic Yakutia and the Taimyr Peninsula - by Afonina.

As a result, 530 species and 17 varieties of 154 genera and 43 families are known now in the Russian Arctic. The delimitation and subdivision of the latter are accepted here according to Yurtsev & al. (1978), see also Fig. 1. In the list of species the following marks are used: ● - specimens seen, ○ - literature data, ? - doubtful records (doubt if an identification is correct, or if the record belong to Arctic). The frequency ("frq" column in the list) indicates our general evaluation of the frequency of a taxa in the Russian Arctic as a whole. The following gradations are used: U - unique, known from one locality; R - rare; S - sporadic; C - common; W - widespread.

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>reflexum</i> (Starke) B.S.G.		*	+		+			*						+	+	R-S
<i>rivulare</i> B.S.G.		*	*		*	*										R
<i>salebrosum</i> (Web. & Mohr) B.S.G.	*	*	+	*	+	+		*	*	+		+	+	+	+	S-C
<i>starkei</i> (Brid.) B.S.G.		*	*											+	+	R
<i>trachypodium</i> (Brid.) B.S.G.						+			*	*					+	R
<i>turgidum</i> (Hartm.) Kindb.	+	*	+	+	+	+	+	*	*	+	+	+	+	+	+	W
<i>udum</i> (Hag.) Hag. (9)					*	+	*	*	*	+	*			*	+	S
<i>velutinum</i> (Hedw.) B.S.G.		*	*										+	+	+	R-S
Breidleria Loeske [HYPNACEAE]																
<i>pratensis</i> (Koch ex Spruce) Loeske (10)		*	*	*	+	+								+	+	R-S
Bryobrittonia Williams [ENCALYPTACEAE]																
<i>longipes</i> (Mitt.) Horton						+		*	*	+			+		+	R
Bryoerythrophyllum Chen [POTTIACEAE]																
<i>alpigenum</i> (Venturi) Chen (11)															?	?
<i>ferruginascens</i> (Stirt.) Giacom (12)	*												+			R
<i>recurvirostrum</i> (Hedw.) Chen	+	*	+	*	+	+	+	+	*	+	+	+	+	+	+	C
var. <i>brevifolium</i> (Lindb. & H.Arnell) Chen (13)																U
<i>rotundatum</i> (Lindb. & H.Arnell) Kindb. (14)						*										U
<i>rubrum</i> (Jur. ex Geh.) Chen (15)															*	?
Bryoxiphium Mitt. [BRYOXIPHACEAE]																
<i>norvegicum</i> (Brid.) Mitt.														+	+	R
Bryum Hedw. [BRYACEAE]																
<i>algovicum</i> Sendtn. ex C.Muell.		*	*	*					*		*		*		*	R
<i>archangelicum</i> B.S.G.		*	*		+	*			*							R
<i>arcticum</i> (R.Br.) B.S.G.	+	*	*	*		*		*	*	*	*	*	*		*	S
<i>argenteum</i> Hedw.	+	*	*	*	+	+		*	+	+	+	+	+	+	+	C
<i>axel-blyttii</i> Kaurin ex Philib.			*		+	*			*		*					R
<i>caespiticium</i> Hedw.		*	+		+	*									+	S-C
<i>calicicola</i> H.Arnell (16)									*							U
<i>calophyllum</i> R.Br.		*		*		*		*	*	*	*	*	*		+	S
<i>capillare</i> Hedw.				*										+		R
<i>creberrimum</i> Taylor		*	*	*	+	*									*	R
<i>cyclophyllum</i> (Schwaegr.) B.S.G.	+	*	*	*	+	+	+	*	*	+	*	+	+	+	+	C
<i>ehlei</i> H.Arnell (17)									*							U
<i>ekstamii</i> L.Savicz (18)				*?												?
<i>funkii</i> Schwaegr. (19)					+											U
<i>imbricatum</i> (Schwaegr.) B.S.G.		*	*			*			*		+		*		*	R-S
<i>intermedium</i> (Brid.) Blandow		*				*			*			*				R
<i>labradorensis</i> Philib.		*	*													R
<i>microblastum</i> C.Muell. (20)				*	*				*						*	U
<i>mirabile</i> C.Muell. (21)													?			?
<i>neodamense</i> Itzigs.				*	*				*				+		+	R
<i>nitidulum</i> Lindb.	*				*	*			*		*		*			R
<i>obtusidens</i> H.Arnell (22)									*							U
<i>pallens</i> (Brid.) Sw. ex Roehl.		*	*	*		*			*		*				*	R-S
<i>pallescens</i> Schleich. ex Schwaegr.	*	*	+	*	+	*			*							S
<i>pootenianum</i> Paris (20)															*	U
<i>pseudotriquetrum</i> (Hedw.) Gaertn. & al.	*	*	+	*	+	+	+	*	*			+	+	+	+	C
var. <i>bimum</i> (Schreb.) Lilj.		*	*			*			*							R
<i>purpurascens</i> (R.Br.) B.S.G.			*	*		*			*	*	*	*				R
<i>rutilans</i> Brid.	+	*	*	*		*	+	*	+	+	+	+		+		R-S
<i>salinum</i> Hag. ex Limpr. (23)			*													U
<i>schleicheri</i> Schwaegr.			*													U
<i>serotinum</i> Lindb. (24)						*										U
<i>subneodamense</i> Kindb. (25)				*		*					+		+			R
<i>taimyrense</i> Broth. & Bryhn (26)						+		*		*						R

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>teres</i> Lindb.	+			*	+	+	+	*	*	*	+		+		+	R-S
<i>turbinatum</i> (Hedw.) Turner (27)			*													U
<i>utriculatum</i> C.Muell. (20)															*	U
<i>weigeli</i> Spreng.		*	*		*		+		*						+	R
<i>wrightii</i> Sull. & Lesq.			*	*		+			*		*		+	+	+	R
<i>zemliae</i> H.Arnell (28)				*												U
Buxbaumia Hedw. [BUXBAUMIACEAE]																
<i>aphylla</i> Hedw.		*	+		+	*									+	R
Callialaria Ochyra [AMBLYSTEGIACEAE]																
<i>curvicaulis</i> (Jur.) Ochyra	*	*				*	+		*		*		+		+	S
Callicladium Crum [HYPNACEAE]																
<i>haldanianum</i> (Grev.) Crum				*											*	R
Calliergon (Sull.) Kindb. [AMBLYSTEGIACEAE]																
<i>cordifolium</i> (Hedw.) Kindb.		*	+	*	+	+		*	*	+	*		+	+	+	S-C
<i>giganteum</i> (Schimp.) Kindb.	*	*	*	*	*	+	+	*	*	+	*	*	+	+	+	S-C
<i>megalophyllum</i> Mikut.			+	+	+				*						+	R
<i>richardsonii</i> (Mitt.) Kindb.		*	+	*	+	+	+	*	*	+	*	*	+	+	+	S
<i>stramineum</i> (Brid.) Kindb. (29)	+	*	+	*	+	+		*	*	+	*	+	+	+	+	C-W
Calliergonella Loeske [HYPNACEAE]																
<i>cuspidata</i> (Hedw.) Loeske		*	*	*		*									+	R
<i>lindbergii</i> (Mitt.) Hedenaes (30)		*	+	*	+	+		*	*			+	+	+	+	C
Campylium (Sull.) Mitt. [AMBLYSTEGIACEAE]																
<i>calcareum</i> Crundw. & Nyholm															+	R
<i>chrysophyllum</i> (Brid.) Lange	+	*	*		+	*			*				+		+	R
<i>halleri</i> (Hedw.) Lindb. (31)						+										U
<i>hispidulum</i> (Brid.) Mitt. (32)			*						*							R
<i>longicuspis</i> (Lindb. & H.Arnell) Hedenaes (33)						*			+							R
<i>polygamum</i> (B.S.G.) C.Jens.	*		*		+	+	+	*	+	+	+	+	+	+	+	S-C
<i>sommerfeltii</i> (Myrin) Lange		*			+											R
<i>stellatum</i> (Hedw.) C.Jens.	+	*	+	*	+	+	+	*	*	+	+	+	+	+	+	W
var. <i>protensum</i> (Brid.) Bryhn ex Grout				*		+		*	*	*	*		+		+	S
<i>zemliae</i> C.Jens.	*	*	*	*	+	+	+	*		*	*	*	+		+	S
Campylopus Brid. [DICRANACEAE]																
<i>schimper</i> Milde						*									+	R
<i>subulatus</i> Schimp.														+		U
Catoscopium Brid. [CATOSCOPIACEAE]																
<i>nigratum</i> (Hedw.) Brid.		+		*		+			+		*	+	+	+	+	S
Ceratodon Brid. [DITRICHACEAE]																
<i>purpureus</i> (Hedw.) Brid.	+	*	+	*	+	+	+	*	*	+	+	+	+	+	+	W
var. <i>rotundifolius</i> Berggr.					+	*	+			*	*					R
Cinclidium Sw. [MNIACEAE]																
<i>arcticum</i> B.S.G.		*		*	*	+	+	*	*	+	*	+	+	+	+	C
<i>latifolium</i> Lindb.					+	+		*	*	+	*	*	+	+	+	S-C
<i>minutifolium</i> Broth. (34)						+							+			R
<i>stygium</i> Sw.		*	*		+	*		*	*		*			+	+	S
<i>subrotundum</i> Lindb.		*	+	*	+	+		*		+	+	*	+	+	+	S-C
Cirriphyllum Grout [BRACHYTHECIACEAE]																
<i>cirrosum</i> (Schwaegr.) Grout	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	S-C
Climacium Web. & Mohr [CLIMACIACEAE]																
<i>dendroides</i> (Hedw.) Web. & Mohr		+	+	*	+	+		+	*	+		+		+	+	S-C
Cnestrum Hag. [DICRANACEAE]																
<i>alpestre</i> (Wahlenb.) Nyholm ex Mogensen			+	*	+	*			*	*			+		+	R
<i>glaucescens</i> (Lindb. & H.Arnell)																
Holmen ex Mogensen & Steere									*			+			+	R
<i>schistii</i> (Web. & Mohr) Hag.			*											+	+	R

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
Conostomum Sw. [BARTRAMIACEAE]																
<i>tetragonum</i> (Hedw.) Lindb.		+	+	+	+	+		*	*	+	*	+	+	+	+	C
Coscinodon Spreng. [GRIMMIACEAE]																
<i>cribrosus</i> (Hedw.) Spruce			+							*				+	+	R
Cratoneuron (Sull.) Spruce [CRATONEURACEAE]																
<i>filicinum</i> (Hedw.) Spruce			*	*		+		*	*	*	*		+	+	+	S
Ctenidium (Schimp.) Mitt. [HYPNACEAE]																
<i>molluscum</i> (Hedw.) Mitt.					+	+			*		*		+			R
<i>procerrimum</i> (Molendo) Lindb.			*	*	+	*	+		*		*	+	+	+	+	S
Cynodontium Bruch & Schimp. [DICRANACEAE]																
<i>fallax</i> Limpr.			*						*	*						R
<i>polycarpon</i> (Hedw.) Schimp.									*		+				+	R
<i>strumiferum</i> (Hedw.) Lindb.		*	+		+	+		*	*	*				+	+	S
<i>tenellum</i> (B.S.G.) Limpr.		*	+			+			*	*				+	+	S
Cyrtomnium Holmen [MNIACEAE]																
<i>hymenophylloides</i> (Hueb.) Nyholm ex T.Kop.		*	*		+	+			*	+	*	*		+	+	S
<i>hymenophyllum</i> (B.S.G.) Holmen		*	+	*	+	+		*	*	+	*	*	+	+	+	S
Dichelyma Myrin [FONTINALIACEAE]																
<i>falcatum</i> (Hedw.) Myrin		*	*											+	+	R
Dichodontium Schimp. [DICRANACEAE]																
<i>pellucidum</i> (Hedw.) Schimp.		*	+		?	*	+		*				+	+	+	R-S
Dicranella (C. Muell.) Schimp. [DICRANACEAE]																
<i>cerviculata</i> (Hedw.) Schimp.		*	+		+	*		*	*	*		*		+	+	S
<i>crispa</i> (Hedw.) Schimp.		+	+	+	+	+		*	+	+		+	+	+	+	S
<i>grevilleana</i> (Brid.) Schimp.		*	*		+								+	+		R
<i>palustris</i> (Dicks.) Crundw. ex Warb.															+	U
<i>rufescens</i> (Dicks.) Schimp.					+										+	R
<i>schreberiana</i> (Hedw.) Hilp. ex Crum & Anderson			+		+	*			*				+		+	R
<i>subulata</i> (Hedw.) Schimp.		*	+	*	+	*		*	+				+	+	+	S
<i>varia</i> (Hedw.) Schimp.					*	+					*					R
Dicranodontium B.S.G. [DICRANACEAE]																
<i>denudatum</i> (Brid.) E. Britton (35)														+		U
Dicranoweisia Lindb. ex Milde [DICRANACEAE]																
<i>crispula</i> (Hedw.) Lindb.	+	+	+	+	+	+	+	*	+	+	+	+	+	+	+	C-W
<i>intermedia</i> Amman													+	+	+	R
Dicranum Hedw. [DICRANACEAE]																
<i>acutifolium</i> (Lindb. & H. Arnell)																
C. Jens. ex Weinm.		*	+		+	*			*	+		+	+	+	+	S-C
<i>angustum</i> Lindb.	+	*	+	*	+	+	+	*	*	+	*	+	+	+	+	W
<i>bergeri</i> Blandow		*	+		*	*			*			*		+		S
<i>bonjeanii</i> De Not.		*	+	*	+	*			*			+	+	+	+	S-C
<i>brevifolium</i> (Lindb.) Lindb.			+	*	+	+			*	*	*				+	R-S
<i>congestum</i> Brid. (36)	+	*	+	*	+	+	*	*	*	+	*	+	+	+	+	W
<i>drummondii</i> C. Muell.					*											U
<i>elongatum</i> Schleich. ex Schwaegr.	*	*	+	*	+	+	+	*	*	+	+	+	+	+	+	W
<i>fragilifolium</i> Lindb.			*													U
<i>fuscescens</i> Turner		*	*	*	*	+		*	*						+	R
<i>groenlandicum</i> Brid.		*	*		+	*			*	*				+	+	S
<i>leioneuron</i> Kindb.					+								+	+	+	R
<i>majus</i> Sm.		*	+	*	+	+		*	*	*		+	+	+	+	C
<i>muehlenbeckii</i> B.S.G. (37)		*	*		*	*		*	*	*	*			*		?
<i>scoparium</i> Hedw. (38)	*	*	*	*	*	*	*	*	*	*	*	*		*	+	?
<i>spadiceum</i> Zett.		*	+	*	+	+	+	*	*	+	+	+	+	+	+	C-W
Didymodon Hedw. [POTTIACEAE]																
<i>asperifolius</i> (Mitt.) Crum, Steere & Anderson			*	*			+		*	+	+		+		+	R-S
<i>fallax</i> (Hedw.) Zander (39)								*	*							R

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>ferrugineus</i> (Schimp. ex Besch.) M.O.Hill						*				*			+	+	+	R
<i>giganteus</i> (Funck) Jur. (40)								+								U
<i>johansenii</i> (Williams) Crum									+				+		+	R
<i>maximus</i> (Syed & Crundw.) M.O.Hill (41)													+			U
<i>rigidulus</i> Hedw.	+	*				*	+		*		*				+	R
var. <i>gracilis</i> (Schleich. ex Hook. & Grev.) Zander													+	+	+	+
R																
var. <i>icmadophilus</i> (Schimp. ex C.Muell.) Zander							*	+		*	*	*		+	+	+
R-S																
<i>subandreaeoides</i> (Kindb.) Zander (42)															+	U
<i>vinealis</i> (Brid.) Zander (43)									*							U
Discelium Brid. [DISCELIACEAE]																
<i>nudum</i> (Dicks.) Brid.			*	*		+										R
Distichium B.S.G. [DITRICHACEAE]																
<i>capillaceum</i> (Hedw.) B.S.G.	+	+	+	+	+	+	+	*	+	+	+	+	+	+	+	II-U
<i>hagenii</i> Ryan	*			*	+	+		*			*					R
<i>inclinatum</i> (Hedw.) B.S.G.		*	*	*	+	+	+	*	+	+	*	*	+	+	+	S
Ditrichum Hampe [DITRICHACEAE]																
<i>cylindricum</i> (Hedw.) Grout				+		+			+	+	*			+	+	R-S
<i>flexicaule</i> (Schwaegr.) Hampe	+	*	+	*	+	+	+	*	*	+	+	+	+	+	+	W
<i>heteromallum</i> (Hedw.) E.Britton		*	*													R
<i>pusillum</i> (Hedw.) Hampe		*	+													R
Drepanocladus (C.Muell.) G.Roth [AMBLYSTEGIACEAE]																
<i>aduncus</i> (Hedw.) Warnst.		*	*	*	+	+			*	+	*		+	+	+	S
var. <i>kneffii</i> (Schimp.) Moenk.		*	*			*				*					*	R
var. <i>polycarpus</i> (Blandow ex Voit) G.Roth		*	*			*									+	R
<i>brevifolius</i> (Lindb.) Warnst. (44)	+		*	*	*	+	+	*	*	+	*	+	+	+	+	S-C
<i>lycopodioides</i> (Brid.) Warnst. (45)			?			?			?	?						?
<i>sendtneri</i> (Schimp. ex C.Muell.) Warnst.	*	*	*	*	+	*	*	*	*	+	*		+	+	+	S
Encalypta Hedw. [ENCALYPTACEAE]																
<i>affinis</i> Hedw.f.				+		*				*		+	+	+	+	R-S
<i>alpina</i> Sm.	+	*		*	+	+	+	+	+		+		+	+	+	R-S
<i>brevicollis</i> (B.S.G.) Bruch ex Aongstr.				+					*	+		+	+	+	+	R
<i>brevipes</i> Schljakov										*			+	+	+	R
<i>ciliata</i> Hedw. (46)		?	*							*			+	+	+	R
<i>longicollis</i> Bruch									*				+	+	+	R
<i>mutica</i> Hag. (47)						+										U
<i>procera</i> Bruch		*	*	*	+	+	+	*	*	+	*		+	+	+	S
<i>rhaptocharpa</i> Schwaegr.	*	*	+	*	+	+	+		+	+	*	+	+	+	+	C
var. <i>leptodon</i> (Bruch.) Lindb.	*	*		*		*				*	*		*		*	R
<i>vulgaris</i> Hedw.		*													*	R
Entodon C.Muell. [ENTODONTACEAE]																
<i>concinus</i> (De Not.) Paris						+		+	+				+	+	+	R
Eurhynchium B.S.G. [BRACHYTHECIACEAE]																
<i>hians</i> (Hedw.) Sande Lac. (48)										*						U
<i>pulchellum</i> (Hedw.) Jenn.	+		+	*	+	+			*	+	*	+	+	+	+	S-C
var. <i>diversifolium</i> (B.S.G.) C.Jens.	*		*	*		*		*		+	*		+	+		S
var. <i>praecox</i> (Hedw.) Dixon				*		*			*							R
Fissidens Hedw. [FISSIDENTACEAE]																
<i>adianthoides</i> Hedw.									*				+	+	+	R
<i>arcticus</i> Bryhn (49)									*							U
<i>bryoides</i> Hedw.		*	+		+	+				*				+	+	R
<i>minutus</i> Sull. (50)									*							U

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>osmundoides</i> Hedw.		*	+	*	*	+			*	+		+	+	+	+	S
<i>viridulus</i> (Sw.) Wahlenb.						+				+			+			R
Fontinalis Hedw. [FONTINALIACEAE]																
<i>antipyretica</i> Hedw.		*	*							*				+		R
var. <i>gracilis</i> (Lindb.) Schimp. (51)			?													U
<i>dalecarlica</i> B.S.G. (51)			?													U
<i>hypnoides</i> Hartm.		*	*							*						R
var. <i>duriaei</i> (Schimp.) Husn.		*				*										R
Funaria Hedw. [FUNARIACEAE]																
<i>arctica</i> (Berggr.) Kindb.						*			*						*	R
<i>hygrometrica</i> Hedw.		*	+		+	+			+	+		+	+	+	+	S-C
<i>polaris</i> Bryhn													+		+	R
Grimmia Hedw. [GRIMMIACEAE]																
<i>affinis</i> Hornsch.				+								+	+	+	+	R-S
<i>anodon</i> B.S.G.												+	+		+	R
<i>apiculata</i> Hornsch.														+		R
<i>caespiticia</i> (Brid.) Jur.				*		*										R
<i>domniana</i> Sm.				*										+	+	R
<i>elatior</i> Bruch ex Bals. & De Not.									*						+	R
<i>elongata</i> Kaulf.				*					*	*					+	R
<i>funalis</i> (Schwaegr.) B.S.G.									*					+		R
<i>incurva</i> Schwaegr.				*											+	R
<i>montana</i> B.S.G.														+	+	R
<i>muehlenbeckii</i> Schimp.				*												U
<i>ovalis</i> (Hedw.) Lindb.				*					*						+	R
<i>pilifera</i> P.Beauv.														+		R
<i>sessitana</i> De Not.														+		R
<i>torquata</i> Hornsch.				+			+						+	+	+	R-S
Gymnostomum Nees & Hornsch. [POTTIACEAE]																
<i>aeruginosum</i> Sm. (52)									*						*	R
Hamatocaulis [AMBLYSTEGIACEAE]																
<i>lapponicus</i> (Norrh.) Hedenaes (53)		*	*		+	+		*	*	+	*			+		R-S
<i>vernicosus</i> (Mitt.) Hedenaes		*	*		+	+		*	*	*	*			+	+	S
Hedwigia P.Beauv. [HEDWIGIACEAE]																
<i>ciliata</i> (Hedw.) P.Beauv.				*										+		R
Helodium Warnst. [HELODIACEAE]																
<i>blandowii</i> (Web. & Mohr) Warnst.		+	+		*	+								+	+	R-S
Hennediella Paris [POTTIACEAE]																
<i>heimii</i> (Hedw.) Zander				*		*			*	+	*		+		+	R
var. <i>arctica</i> (Lindb.) Crum	*	*	*	*	+	+		*	*	+	*		+		+	S
Herzogiella Broth. [HYPNACEAE]																
<i>adscendens</i> (Lindb.) Iwats. & Schofield												*			+	R
<i>striatella</i> (Brid.) Iwats.				*										*		R
<i>turfacea</i> (Lindb.) Iwats. (54)										*						U
Heterocladium B.S.G. [THUIDIACEAE]																
<i>dimorphum</i> (Brid.) B.S.G. (55)				*												U
<i>procurrens</i> (Mitt.) Jaeger (56)															*	U
Hydrogrimmia (Hag.) Loeske [GRIMMIACEAE]																
<i>mollis</i> (B.S.G.) Loeske														+	+	R
Hygrohypnum Lindb. [AMBLYSTEGIACEAE]																
<i>alpestre</i> (Hedw.) Loeske	+			*	+	*			*					+	+	R
<i>cochlearifolium</i> (Venturi ex De Not.) Broth.						*								+	+	R
<i>duriusculum</i> (De Not.) Jamieson				+											+	R
<i>luridum</i> (Hedw.) Jenn.				+	+	*			*	*				+	+	S
<i>ochraceum</i> (Turner ex Wilson) Loeske				+		*			*	*				+	+	R

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>polare</i> (Lindb.) Loeske	+		*	*		+	+		*	*	*		+	+	+	S-C
var. <i>falcatum</i> Broth.									*		*				+	S
Hylocomiastrum Fleisch. [HYLOCOMIACEAE]																
<i>pyrenaicum</i> (Spruce) Fleisch.				+		+								+	+	R-S
Hylocomium B.S.G. [HYLOCOMIACEAE]																
<i>splendens</i> (Hedw.) B.S.G.	+	*	+	*	+	+		*	*			+		+	+	C
var. <i>obtusifolium</i> (Geh.) Paris	+	+	+	*	+	+	+	+	+	+	*	+	+	+	+	W
Hymenostylium Brid. [POTTIACEAE]																
<i>recurvirostre</i> (Hedw.) Dixon				*	*		+		*			+			+	R
Hypnum Hedw. [HYPNACEAE]																
<i>bambergeri</i> Schimp.	+	*	*	*	+	+	+	*	*	*	*	+	+	+	+	S-C
<i>callichroum</i> Funck ex Brid.			*	+	+	+			*		*		+	+	+	S-C
<i>cupressiforme</i> Hedw.	+	*	+	+	+	+	+		*	+	*	+	+	+	+	S-C
<i>hamulosum</i> B.S.G.				*	*				*		*	+	+		+	S
<i>imponens</i> Hedw. (57)									*	*						R
<i>pallescens</i> (Hedw.) P.Beauv. (58)										*						U
<i>plicatulum</i> (Lindb.) Jaeger			*	+		+		*			+	*	+	+	+	S
<i>recurvatum</i> (Lindb. & H.Arnell) Kindb.				*	*				*						+	R
<i>revolutum</i> (Mitt.) Lindb.	+		*	*	+	+	+	*	*	+	+	+	+	+	+	S-C
<i>subimponens</i> Lesq.					+	+		*	*	+			+	+	+	S
<i>vaucheri</i> Lesq.				*	*			*	*	*	*	+	+	+	+	S
Isopterygiopsis Iwats. [HYPNACEAE]																
<i>alpicola</i> (Lindb. & H.Arnell) Hedenaes									*	*	*	*				R
<i>muelleriana</i> (Schimp.) Iwats.				+		+								+	+	R
<i>pulchella</i> (Hedw.) Iwats.	+	*	+	*	+	+	+	*	*	+	*	+	+	+	+	C
Kiaeria Hag. [DICRANACEAE]																
<i>blyttii</i> (Schimp.) Broth.				*											+	R
<i>falcata</i> (Hedw.) Hag. (59)				*												U
<i>glacialis</i> (Berggr.) Hag.		+	+	+	+	+	+	*			+	+	+	+	+	S
<i>starkei</i> (Web. & Mohr) Hag.	*	*	+		+								+		+	R
Leptobryum (B.S.G.) Wilson [BRYACEAE]																
<i>pyriforme</i> (Hedw.) Wilson		+	+	*	+	+		+	+	+		+	+	+	+	C
Leptodictyum (Schimp.) Warnst. [AMBLYSTEGIACEAE]																
<i>humile</i> (P.Beauv.) Ochyra				*		+	*		*		*					R
<i>riparium</i> (Hedw.) Warnst.	+	*	*			+		*	*	*				+	*	R
Leptopterigynandrum C.Muell. [LESKEACEAE]																
<i>austro-alpinum</i> C.Muell.														+	+	R
Lescuraea B.S.G. [LESKEACEAE]																
<i>saxicola</i> (B.S.G.) Milde			*	+											+	R
Leskea Hedw. [LESKEACEAE]																
<i>polycarpa</i> Hedw.				*			*									R
Leucodon Schwaegr. [LEUCODONTACEAE]																
<i>sciuroides</i> (Hedw.) Schwaegr. (60)				*												U
Limprichtia Loeske [AMBLYSTEGIACEAE]																
<i>cossoni</i> (Schimp.) Anderson & al.		*	*	*	*	+	*	*	*	+	+		+	+	+	S-C
<i>revolvens</i> (Sw.) Loeske	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	W
Loeskypnum Paul [AMBLYSTEGIACEAE]																
<i>badium</i> (Hartm.) Paul (61)		+	+	+	+	+		*	*	*		+	+	+	+	S-C
<i>wickesii</i> (Grout) Tuom. (61)															*	U
Lyellia R.Br. [POLYTRICHACEAE]																
<i>aspera</i> (Hag. & C.Jens.) Fraye (62)						+		*	+	+			+	+	+	R
Meesia Hedw. [MEESIACEAE]																
<i>longiseta</i> Hedw.					+	+		*	+	+				+	+	S
<i>triquetra</i> (Richter) Aongstr.	+	+	+	+	+	+	+	+	*	+	*	+	+	+	+	W
<i>uliginosa</i> Hedw.		+	+	*	+	+			+	+		+	+	+	+	C

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>enerve</i> (Thed.) Loeske			+												+	R
<i>longifolium</i> (Hedw.) Loeske			*												*	R
Philonotis Brid. [BARTRAMIACEAE]																
<i>arnellii</i> Husn.			* *												+	R
<i>caespitosa</i> Jur.			*					*	*	*	*		+	+	+	S
<i>fontana</i> (Hedw.) Brid.	+	+	+	+	+	+	+	*	*	+	*		+	+	+	C
<i>seriata</i> Mitt.			*	*				*								R
<i>tomentella</i> Molendo	+	*	+	*	+	+		*	*	*	+		+		+	C
Plagiobryum Lindb. [BRYACEAE]																
<i>demissum</i> (Hook.) Lindb.						*			*			+	+	+	+	R
<i>zieri</i> (Hedw.) Lindb.				*												U
Plagiomnium T.Kop. [MNIACEAE]																
<i>affine</i> (Blandow ex Funck) T.Kop.	*	*	*	*	*	*			*		*	*	*		*	R
<i>confertidens</i> (Lindb. & H.Arnell) T.Kop. (72)			*													U
<i>curvatulum</i> (Lindb.) Schljakov		*	+		+	+		*		+	*		+	+	+	S
<i>cuspidatum</i> (Hedw.) T.Kop.		*	*	*	*	*			*		*				+	R
<i>elatum</i> (B.S.G.) T.Kop.		*	*	*												R
<i>ellipticum</i> (Brid.) T.Kop.	*	*	+	*	+	+	+		*	+	*	*	+	+	+	C
<i>medium</i> (B.S.G.) T.Kop..			*	*		+			*	*		*		+	+	R
<i>rostratum</i> (Schrad.) T.Kop.		*	*		+				*					*		R
Plagiopus Brid. [BARTRAMIACEAE]																
<i>oederiana</i> (Sw.) Crum & Anderson (73)		*	*			+		*		*		+	+	+	+	S
Plagiothecium B.S.G. [PLAGIOTHECIACEAE]																
<i>berggrenianum</i> Frisvoll (74)	+				+	+	+		+	+		+	+		+	R
<i>cavifolium</i> (Brid.) Iwats.			*	*	*	*		*	*	+		*	+	+	+	S
<i>denticulatum</i> (Hedw.) B.S.G.	*	+	*	+	+			*	*				+	+	+	S-C
<i>laetum</i> B.S.G.		+		+	+					+	*		*	+	+	S
<i>undulatum</i> (Hedw.) B.S.G. (75)															+	U
Platydictya Berk. [Hypnaceae]																
<i>jungermannii</i> (Brid.) Crum	+		+			+			+	*	*		+	+	+	S
<i>subtilis</i> (Hedw.) Crum		*	+	+												R
Platygyrium B.S.G. [HYPNACEAE]																
<i>repens</i> (Brid.) B.S.G. (76)			*		*											R
Pleurozium Mitt. [HYLOCOMIACEAE]																
<i>schreberi</i> (Brid.) Mitt.	+	+	*	+	+			*	*	*		*		+	+	S-C
Podperaea Iwats. & Glime [HYPNACEAE]																
<i>krylovii</i> (Podp.) Iwats. & Glime (77)															+	U
Pogonatum P.Beauv. [POLYTRICHACEAE]																
<i>dentatum</i> (Brid.) Brid.	*	+	*	+	*			*	*	+	*	+	+	+	+	C
<i>urnigerum</i> (Hedw.) P.Beauv.	*	*	+		+	+	+	*	*	*	*	+	+	+	+	C
var. <i>subintegrifolium</i> (H.Arnell & C.Jens.) H.Moelert.	*	*									*	*			+	R
Pohlia Hedw. [BRYACEAE]																
<i>andalusica</i> (Hoehnel) Broth.					+										+	R
<i>andrewsii</i> Shaw (78)			+		+	+				+			+	+	+	S
<i>annotina</i> (Hedw.) Lindb. (79)			?		?	?										?
<i>atropurpurea</i> (Wahlenb. ex Fuernr.) Lindb.		*			+											R
<i>beringensis</i> Shaw							+						+	+	+	R
<i>bulbifera</i> (Warnst.) Warnst.			+		+	+			*	*			+		+	R
<i>cruda</i> (Hedw.) Lindb.	+	*	+	*	+	+	+	*	+	+	+	+	+	+	+	W
<i>crudoides</i> (Sull. & Lesq.) Broth.		*	+	*	+	+	+			+	*	*	+		+	S
<i>drummondii</i> (C.Muell.) A.L.Andrews	+	+	+	*	+	+	+	*	+	*	*	*	+		+	S
<i>elongata</i> Hedw.			*			*										R
var. <i>greenii</i> (Brid.) Shaw			*		+										*	R
<i>filum</i> (Schimp.) Maortenson	+		+	*	+	*				+			+		+	R

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>lescuriana</i> (Sull.) Grout		*	+		+	*				*				+		R
<i>longicollis</i> (Hedw.) Lindb.			*						*						+	R
<i>ludwigii</i> (Spreng ex Schwaegr.) Broth. (80)				*												U
<i>nutans</i> (Hedw.) Lindb.	+	*	+	*	+	+		*	*	+	*	+	+	+	+	C-W
<i>obtusifolia</i> (Brid.) Koch	*	*	*	*		*					*				*	R
<i>proligera</i> (Kindb. ex Breidl.) Lindb. ex H.Arnell	+	+	+	+	+	+		*	*	+	+	+	+	+	+	S-C
<i>schimperii</i> (C.Muell.) A.L.Andrews (81)			+									+				R
<i>sphagnicola</i> (Bruch & Schimp.) Lindb. & H.Arnell			+			*										R
<i>wahlenbergii</i> (Web. & Mohr) A.L.Andrews	+	*	*	*	*	*		*	*	*			+	+	+	S
var. <i>glacialis</i> (Brid.) Warb.		*		*		*			*							R
Polytrichastrum G.L.Sm. [POLYTRICHACEAE]																
<i>alpinum</i> (Hedw.) G.L.Sm.	+	+	+	+	+	+	+	*	*	+	*	+	+	+	+	W
var. <i>fragile</i> (Bryhn) Long	+	*	*	*	*	*		*	*	+		+	+	+	+	S-C
<i>formosum</i> (Hedw.) G.L.Sm.															+	U
<i>longisetum</i> (Sw. ex Brid.) G.L.Sm.			*	+		*			*	+		+		+	+	S
<i>norwegicum</i> (Hedw.) Schljakov	+		*	*		*					*			+	+	S
<i>sexangulare</i> (Floerke ex Brid.) G.L.Sm.	+	*	+	*	+								+	+	+	R
Polytrichum Hedw. [POLYTRICHACEAE]																
<i>commune</i> Hedw.		*	+	*	+	*			*	+		+		+	+	S-C
<i>hyperboreum</i> R.Br.		+	+	+	+	+	+	*	+	+	+	+	+	+	+	W
<i>jensenii</i> Hag.	*	*	+	*	+	+		*	*	+	+	+	+	+	+	C
<i>juniperinum</i> Hedw.	*	+	+	+	+	+		+	+	+		+	+	+	+	C-W
<i>piliferum</i> Hedw.	+	+	+	+	+	+		*	*	+		+	+	+	+	W
<i>strictum</i> Brid.	+	+	+	+	+	+	+	*	*	+	+	+	+	+	+	W
<i>swartzii</i> Hartm.		*	*	*	*			*	*					*	*	R
Pseudobryum (Kindb.) T.Kop. [MNIACEAE]																
<i>cinclidioides</i> (Hueb.) T.Kop.		+	+	*	+	+		+	*	+		+	+	+	+	S-C
Pseudocalliergon (Limpr.) Loeske [AMBLYSTEGIACEAE]																
<i>trifarum</i> (Web. & Mohr) Loeske					+	+		*	*	*	*	*	+	+	+	R
<i>turgescens</i> (T.Jens.) Loeske	+	*	*	*	+	+	+	*	*	*	*	+	+	+	+	R-S
Pseudocrossidium Williams [POTTIACEAE]																
<i>revolutum</i> (Brid.) Zander (82)										*						U
Pseudoleskea B.S.G. [LESKEACEAE]																
<i>chilensis</i> (Lorentz) Ochyra (83)						*							+		+	R
<i>incurvata</i> (Hedw.) Loeske				+												U
<i>radicosa</i> (Mitt.) Kindb.				+						*					+	R
Pseudoleskeella Kindb. [LESKEACEAE] (84)																
<i>catenulata</i> (Brid. ex Schrad.) Kindb.			*						*				+	+	+	R
<i>nervosa</i> (Brid.) Nyholm		*			+	+	+	*	*				+	+	+	S
<i>papillosa</i> (Lindb.) Kindb.									*					+	+	R
<i>rupestris</i> (Berggr.) Hedenaes & Soederstroem (85)									*	*						R
<i>tectorum</i> (Funck ex Brid.) Kindb.									*	*	+	*	+	+	+	R-S
Pseudotaxiphyllum Iwats. [HYPNACEAE]																
<i>elegans</i> (Brid.) Iwats.													+	+	+	R
Psilopilum Brid. [POLYTRICHACEAE]																
<i>cavifolium</i> (Wilson) Hag.	*	*	*	*	+	+	+		+	+	+	*	+	+	+	S-C
<i>laevigatum</i> (Wahlenb.) Lindb.		*	+		+	+			+	+	*			+	+	S-C
Pterigynandrum Hedw. [PTERIGYNANDRACEAE]																
<i>filiforme</i> Hedw.			*						*	*		+	*	+	+	R
Pterygoneurum Jur. [POTTIACEAE]																
<i>lamellatum</i> (Lindb.) Jur.						+								+		R
<i>ovatum</i> (Hedw.) Dixon (86)													+			U
Ptilium De Not. [HYPNACEAE]																
<i>crista-castrensis</i> (Hedw.) De Not.		+	+		+	+		*	+	+				+	+	R-S
Pylaisiella Kindb. [HYPNACEAE]																
<i>polyantha</i> (Hedw.) Grout		*	*					*						+		R

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>oelandica</i> C.Jens. & Medelius (100)															+	U
<i>polaris</i> Berggr. (101)	*					+			+		*		+		+	R
Sphagnum L. [SPHAGNACEAE]																
<i>angustifolium</i> (Russow) C.Jens.		*	+		+	+			*	+		+		+		R-S
<i>aongstroemii</i> Hartm.		*	+	*	+	+		*	*	+		+	+	+	+	S-C
<i>arcticum</i> Flatberg & Frisvoll (102)													+			U
<i>balticum</i> (Russow) Russow ex C.Jens.		*	*	*	+	+		*	*	+		*	+	+	+	S-C
<i>capillifolium</i> (Ehrh.) Hedw.		*	+	*	+	+				+				*	+	S
<i>centrale</i> H.Arnell & C.Jens.		*	*		*										+	R
<i>compactum</i> DC.		*	*		+	+		*	*	+			+	+	+	S
<i>contortum</i> Schultz		*	*	*	+	+		*	*	+	*		+	+	+	S-C
<i>cuspidatum</i> Ehrh. ex Hoffm.		*	*													R
<i>fallax</i> (Klinggr.) Klinggr.		*	*	*	*					*				+		R
<i>fimbriatum</i> Wilson		*	*	*	+	+		*	*	+	*	+	+	+	+	C-W
<i>flexuosum</i> Dozy & Molk.		*	*		+	*				+				+	*	R
<i>fuscum</i> (Schimp.) Klinggr.		*	*		*	*				*				+	+	S
<i>girgensohnii</i> Russow		*	+	*	+	+		*	*	+	*	*	+	*	+	C-W
<i>imbricatum</i> Hornsch. ex Russow		*			+			*	*			+		+	+	S
<i>inundatum</i> Russow				+												R
<i>jensenii</i> H.Lindb.		*	*		*											R
<i>lenense</i> H.Lindb. ex Pohle		*	+		+	+		*	*	+		+	+	+	+	C
<i>lindbergii</i> Schimp. ex Lindb.		*	+	*	*	*			*					*	+	S
<i>magellanicum</i> Brid.		*	*		*				*					+	+	S
<i>majus</i> (Russow) C.Jens.		*	*		*					*				*		R
<i>obtusum</i> Warnst.		*	*		+	+		*	*	+		*		+	+	S
<i>orientale</i> L.Savicz					+	*			*	+	*	*	+	+	+	S
<i>papillosum</i> Lindb.														*		U
<i>perfoliatum</i> L.Savicz					*			*		+				*	+	R
<i>platyphyllum</i> (Lindb. ex Breithw.) Sull. ex Warnst.		*	*	*	*	*		*	*	+		+	+			S
<i>pulchrum</i> (Lindb. ex Braithw.) Warnst.					*					*						R
<i>riparium</i> Aongstr.		*	+		+	*		*		*				*	+	S
<i>rubellum</i> Wilson		*	+	*	+	+		*	*	+			+		+	S
<i>russowii</i> Warnst.		*	+	*	*	+		*	*	+		*	+	+	+	S
<i>squarrosum</i> Crome		*	+	*	+	+		*	*	+	*	+	+	+	+	C-W
<i>subfulvum</i> Sjoers												+			+	R
<i>subsecundum</i> Nees ex Sturm				*	*	+		*	*	*	*	*	+	+	+	S
<i>teres</i> (Schimp.) Aongstr. ex Hartm.		*	+	*	+	+		*	*	+	*	+	+	+	+	C
<i>warnstorffii</i> Russow		*	+	*	+	+		*	*	+	*	+	+	*	+	C
<i>wulfianum</i> Girg.				*	+											R
Splachnum Hedw. [SPLACHNACEAE]																
<i>luteum</i> Hedw.		*	*							*		+		+		R
<i>rubrum</i> Hedw.				*						*						R
<i>sphaericum</i> Hedw.		*	+	*	+	*			*	+				+	+	R
<i>vasculosum</i> Hedw.		*	*	*	*	*		*	*		*	+	+	+	+	R-S
Stegonia Venturi [POTTIACEAE]																
<i>latifolia</i> (Schwaegr.) Venturi ex Broth.		*	*	*	*	*			*		*	+	+	+	+	R-S
<i>pilifera</i> (Brid.) Crum & Anderson												+	+		+	R
Syntrichia Brid. [POTTIACEAE] (103)																
<i>norvegica</i> Web.		*	*	*		*	+	*		*				+	+	S
<i>ruralis</i> (Hedw.) Web. & Mohr	+	*	+	*	+	+	+	*	*	+	*	+	+	+	+	C
Tayloria Hook. [SPLACHNACEAE]																
<i>acuminata</i> Hornsch.		*		*						*					+	R
<i>froelichiana</i> (Hedw.) Mitt. ex Broth.															+	R
<i>hornschuchii</i> (Grev. & Arnott) Broth.													+		+	R
<i>lingulata</i> (Dicks.) Lindb.		*	+	*	+	*		*					+	+	+	S
<i>serrata</i> (Hedw.) B.S.G.													+			U

	ZF	KP	PU	NZ	YG	TA	SZ	AO	KH	YK	NS	CC	WI	SC	BC	frq
<i>splachnoides</i> (Schleich. ex Schwaegr.) Hook.										+					+	R
<i>tenuis</i> (Dicks.) Schimp.								*							*	R
Tetraphis Hedw. [TETRAPHIDACEAE]																
<i>pellucida</i> Hedw.		*	+											+		R
Tetraplodon B.S.G. [SPLACHNACEAE]																
<i>angustatus</i> (Hedw.) B.S.G.			*		*									+		R
<i>nnioides</i> (Hedw.) B.S.G.	*	*	+	*	+	+	+	*	*	+	*	+	+	+	+	C
<i>pallidus</i> Hag.					*									+	+	R
<i>paradoxus</i> (R.Br.) Hag.		*		*	+	*		*	*	+		+		+	+	S
<i>urceolatus</i> (Hedw.) B.S.G.					*			+					+		+	R
Thuidium B.S.G. [THUIDIACEAE]																
<i>philibertii</i> Limpr.					+	*		*	+	+			+	+	+	R
<i>recognitum</i> (Hedw.) Lindb.		*				*		*	+	*				+	+	R
Timmia Hedw. [TIMMIACEAE]																
<i>austriaca</i> Hedw.	*	*	+	*	+	+	+	*	*	+	*	+	+	+	+	C
var. <i>arctica</i> (Lindb.) H.Arnell	+			*	+	+	+			+	*	+	+	+	+	S-C
<i>bavarica</i> Hessel. (104)					+				*	+	*		+	+	+	S
<i>comata</i> Lindb. & H.Arnell (104)			*		+			*	+	+			+		+	S
<i>megapolitana</i> Hedw.					*					*						R
<i>norvegica</i> Zett.	+		*	*	*			*	*	+	*		+	+	+	S
<i>sibirica</i> Lindb. & H.Arnell							+						+		+	R
Tomentypnum Loeske [BRACHYTHECIACEAE]																
<i>falcifolium</i> (Renauld ex Nichols) Tuom. (105)													+			U
<i>nitens</i> (Hedw.) Loeske	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	W
Tortella (Lindb.) Limpr. [POTTIACEAE]																
<i>arctica</i> (H.Arnell) Crundw. & Nyholm					*	+	+	*	*				+	+	+	S
<i>fragilis</i> (Hook. & Wilson) Limpr.		*	*		+	+		*	*	*	*	+	+	+	+	S
<i>inclinata</i> (Hedw.f.) Limpr.										*						U
<i>tortuosa</i> (Hedw.) Limpr.		*	+	*	+	+	+	*	*	*	*	+	+	+	+	S
Tortula Hedw. [POTTIACEAE] (103)																
<i>atherodes</i> Zander (106)												+				U
<i>cernua</i> (Hueb.) Lindb.									+							U
<i>euryphylla</i> Zander			+	*				*		*	+	+	+	+	+	S
<i>lanciolata</i> Zander								*								U
<i>laureri</i> (Schultz) Lindb.					*			*					+		+	R
<i>leucostoma</i> (R.Br.) Hook. & Grev.	*	*	*	*	+	+	+	*	*	+	*	+	+	+	+	S
<i>mucronifolia</i> Schwaegr.	*	*	*	*	+	+	+	*	*	+	*	+	+	+	+	S
<i>obtusifolia</i> (Schwaegr.) Mathieu															+	U
<i>systylia</i> (Schimp.) Lindb.					*			*				+	+	+	+	R
Trachycystis Lindb. [MNIACEAE]																
<i>ussuriensis</i> (Maak & Regel) T.Kop.															+	U
Trichostomum Bruch [POTTIACEAE]																
<i>arcticum</i> Kaal.						+	+	*	*	*				+	+	R-S
<i>crispulum</i> Bruch					+	+									+	R
Ulota Mohr [ORTHOTRICHACEAE]																
<i>curvifolia</i> (Wahlenb.) Lilj.			*											+	+	R
Voitia Hornsch. [SPLACHNACEAE]																
<i>hyperborea</i> Grev. & Arnott				*											+	R
Warnstorfia Loeske [AMBLYSTEGIACEAE]																
<i>exannulata</i> (B.S.G.) Loeske	*	*	+	*	+	+		*	+	*	+	+	+	+	+	C-W
<i>fluitans</i> (Hedw.) Loeske		*	+	*	+	+		*	*	+	*	+	+	+	+	C
<i>pseudostraminea</i> (C.Muell.) Tuom. & T.Kop.			*		+	*				*					+	R
<i>sarmentosa</i> (Wahlenb.) Hedenaes (107)	+	*	+	*	+	+	+	*	+	+	*	+	+	+	+	W
<i>tundrae</i> (H.Arnell) Loeske	*			*	*	*										R
Weissia Hedw. [POTTIACEAE]																
<i>controversa</i> Hedw.												+				U

Number of species

103 329 247 94 271 163 238 378
242 190 292 183 243 163 293

SYNONYMS AND EXCLUDED TAXA

- Acrocladium cuspidatum* (Hedw.) Lindb. = *Calliergonella cuspidata*
Amblystegiella alpicola (Lindb. ex H.Arnell) Broth. = *Isopterygiopsis alpicola*
 – *jungermannioides* (Brid.) Giacom. = *Platydictya jungermannioides*
 – *sprucei* (Bruch) Loeske = *Platydictya jungermannioides*
 – *subtilis* (Hedw.) Loeske = *Platydictya subtilis*
Amblystegium aduncum (Hedw.) De Not. = *Drepanocladus aduncus*
 – *aduncum* Lindb. = *Sanionia uncinata*
 – *aduncum* var. *letinum* Sanio = *Drepanocladus sendtneri*
 – *alaskanum* (Lesq. & James) Lindb. & H.Arnell = *Hylocomium splendens* var. *obtusifolia*
 – *argillicola* Lindb. ex Broth. = *Leptodictyum humile*
 – *badium* (Hartm.) Lindb. = *Loeskyppnum badium*
 – *boreale* Dix. = *Cratoneuron filicinum*
 – *brunneo-fuscum* (C.Muell.) Lindb. & H.Arnell = *Warnstorfia sarmentosa*
 – *chrysophyllum* (Brid.) De Not. = *Campylium chrysophyllum*
 – *chrysophyllum* var. *zemliae* C.Jens. = *Campylium zemliae*
 – *cochlearifolium* (Vent.) Lindb. = *Hygrohypnum cochlearifolium*
 – *cordifolium* (Hedw.) De Not. = *Calliergon cordifolium*
 – *curvipes* B.S.G. = *Leptodictyum humile*
 – *dilatatum* (Wils.) Lindb. = *Hygrohypnum duriusculum*
 – *ehlei* H.Arnell = *Hygrohypnum polare* var. *falcatum*
 – *examulatum* (B.S.G.) De Not. = *Warnstorfia examulata*
 – *filicinum* (Hedw.) De Not. = *Cratoneuron filicinum*
 – *filicinum* var. *curvicaule* (Jur.) Molendo = *Callialaria curvicaule*
 – *fluitans* (Hedw.) De Not. = *Warnstorfia fluitans*
 – *fluitans* var. *examulatum* (B.S.G.) H.Arnell & C.Jens. = *Warnstorfia examulata*
 – *giganteum* (Schimp.) De Not. = *Calliergon giganteum*
 – *hispidulum* (Brid.) Kindb. = *Campylium hispidulum*
 – *humile* (P.Beauv.) Crundw. = *Leptodictyum humile*
 – *inflatum* (C.Muell.) Lindb. & H.Arnell = *Warnstorfia sarmentosa*
 – *intermedium* (Lindb.) Lindb. = *Limprichtia cossoni*
 – *intermedium* var. *revolvens* (Sw. ex Anonymo) Vent. & Botini = *Limprichtia revolvens*
 – *juratzkanum* Schimp. = *Amblystegium serpens* var. *juratzkanum*
 – *kneiffii* B.S.G. = *Drepanocladus aduncus* var. *kneiffii*
 – *kochii* B.S.G. = *Leptodictyum humile*
 – *kochii* var. *curvipes* (B.S.G.) Husn. = *Leptodictyum humile*
 – *latifolium* Lindb. & H.Arnell = *Drepanocladus brevifolius*
 – *latifolium* var. *jenisseiense* (Sanio) Lindb. & H.Arnell = *Drepanocladus sendtneri* [f. *latifolius* (H.Arnell) Moenk.]
 – *longicuspis* Lindb. & H.Arnell = *Campylium logicuspis*
 – *lycopodioides* (Brid.) De Not. = *Drepanocladus lycopodioides*
 – *lycopodioides* var. *brevifolium* (Lindb.) H.Arnell = *Drepanocladus brevifolius*
 – *lycopodioides* var. *vernicosum* (Lindb.) Lindb. & H.Arnell = *Hamatocaulis vernicosus*
 – *ochraceum* (Turn. ex Wils.) Lindb. = *Hygrohypnum ochraceum*
 – *palustre* (Huds. ex Brid.) Lindb. = *Hygrohypnum luridum*
 – *polare* (Lindb.) Lindb. = *Hygrohypnum polare*
 – *polygamum* B.S.G. = *Campylium polygamum*
 – *protensum* (Brid.) Lindb. = *Campylium stellatum* var. *protensum*
 – *radicale* auct. = *Campylium polygamum*
 – *revolvens* (Sw. ex Anonymo) De Not. = *Limprichtia revolvens*
 – *richardsonii* (Mitt.) Lindb. = *Calliergon richardsonii*
 – *richardsonii* var. *robustum* Lindb. & H.Arnell = *Calliergon richardsonii* var. *robustum*
 – *riparium* (Hedw.) B.S.G. = *Leptodictyum riparium*
 – *rivulare* Lindb. = *Hygrohypnum alpestre*
 – *sarmentosum* (Wahlenb.) De Not. = *Warnstorfia sarmentosa*
 – *scorpioides* (Hedw.) Lindb. = *Scorpidium scorpioides*
 – *sendtneri* (Schimp.) De Not. = *Drepanocladus sendtneri*
 – *sprucei* (Bruch) B.S.G. = *Platydictya jungermannioides*
 – *stellatum* (Hedw.) Lindb. = *Campylium stellatum*
 – *stramineum* (Dicks. ex Brid.) De Not. = *Calliergon stramineum*
 – *stramineum* var. *acutifolium* Lindb. & H.Arnell = *Calliergon stramineum*
 – *subtile* (Hedw.) B.S.G. = *Platydictya subtilis*
 – *trichopodium* (K.F.Schultz) Hartm. = *Leptodictyum humile*
 – *trichopodium* var. *curvipes* (B.S.G.) Broth. = *Leptodictyum humile*
 – *trichopodium* var. *kochii* (B.S.G.) Lindb. = *Leptodictyum humile*
 – *trifarium* (Web. & Mohr) De Not. = *Pseudocalliergon trifarium*
 – *tundrae* H.Arnell = *Warnstorfia tundrae*
 – *turgescens* (T.Jens.en) Lindb. = *Pseudocalliergon turgescens*
 – *uncinatum* (Hedw.) De Not. = *Sanionia uncinata*
 – *vernicosum* (Lindb.) Lindb. = *Hamatocaulis vernicosus*
 – *zemliae* (C.Jens.) H.Arnell = *Campylium zemliae*
Amphidium lapponicum (Hedw.) Schimp. = *Amphidium lapponicum*
Anacalypta lanceolata var. *sibirica* E.G.Borszcz. & G.G.Borszcz. = *Stegonia latifolia*
 – *latifolia* (Schwaegr.) Fuernr. = *Stegonia latifolia*
Andreaea assimilis C.Muell. = *Andreaea rupestris* var. *papillosa*
 – *compacta* C.Muell. = *Andreaea rupestris* var. *papillosa*
 – *cuspidata* C.Muell. = *Andreaea rupestris* var. *papillosa*
 – *fauriei* Besch. = *Andreaea alpestris*
 – *filiformis* C.Muell. = *Andreaea alpestris*
 – *hartmanii* Thed. = *Andreaea obovata*
 – *krauseana* C.Muell. = *Andreaea obovata*
 – *obovata* Thed. var. *thedenii* (Schimp.) C.Jens. = *Andreaea obovata*
 – *papillosa* Lindb. = *Andreaea rupestris* var. *papillosa*
 – *patens* C.Muell. = *Andreaea rupestris* var. *papillosa*
 – *petrophila* Ehrh. ex Fuernr. = *Andreaea rupestris*
 – *rothii* Web. & Mohr - excluded (108)
 – *rupestris* var. *acuminata* (B.S.G.) Sharp = *Andreaea rupestris* var. *papillosa*
 – *rupestris* var. *alpestris* (Thed.) Sharp = *Andreaea alpestris*
 – *rupestris* var. *thedenii* (B.S.G.) C.Jens. = *Andreaea obovata*
Anictangium ciliatum Hedw. = *Hedwigia ciliata*
 – *lapponicum* Hedw. = *Amphidium lapponicum*
 – *mougeotii* (B.S.G.) Lindb. = *Amphidium mougeotii*
Anisothecium crispum (Hedw.) C.Jens. = *Dicranella crispa*
 – *grevilleanum* (Brid.) H.Arnell & C.Jens. = *Dicranella grevilleana*
 – *palustre* (Dicks.) Hag. = *Dicranella palustris*
 – *rubrum* Lindb. = *Dicranella varia*

- *rufescens* (With.) Lindb. = *Dicranella rufescens*
- *schreberianum* (Hedw.) Dix. = *Dicranella schreberiana*
- *vaginale* (Dicks. ex With.) Loeske = *Dicranella crispa*
- *varium* (Hedw.) Mitt. = *Dicranella varia*
- Anoetangium compactum* var. *brevifolium* Jur. = *Molendoa sendtneriana*
- *lapponicum* (Hedw.) Schwaegr. = *Amphidium lapponicum*
- *sendtnerianum* B.S.G. = *Molendoa sendtneriana*
- *sendtnerianum* var. *temuinerve* (Limpr.) Moenk. = *Molendoa sendtneriana*
- *temuinerve* (Limpr.) Paris = *Molendoa sendtneriana*
- Anomobryum concinnatum* (Spruce) Lindb. = *Anomobryum julaceum*
- *filiforme* (Dicks.) Solms = *Anomobryum julaceum*
- Anomodon viticulosus* (Hedw.) Hook. & Taylor - excluded (109)
- Aongstroemia cerviculata* (Hedw.) C.Muell. = *Dicranella cerviculata*
- *virens* (Hedw.) C.Muell. = *Oncophorus virens*
- *wahlenbergii* (Brid.) C.Muell. = *Oncophorus wahlenbergii*
- Arctoa blyttii* (B.S.G.) Loeske = *Kiaeria blyttii*
- *falcata* (Hedw.) Loeske = *Kiaeria falcata*
- *fulvella* var. *anderssonii* (Wich.) Grout = *Arctoa anderssonii*
- *starkei* (Web. & Mohr) Loeske = *Kiaeria starkei*
- Astrophyllum affine* (Bland. ex Funck) Lindb. = *Plagiomnium affine*
- *blyttii* (B.S.G.) Lindb. = *Mnium blyttii*
- *ciliare* (C.Muell.) Lindb. = *Plagiomnium affine*
- *cinclidioides* (Hueb.) Lindb. = *Pseudobryum cinclidioides*
- *confertidens* Lindb. & H.Arnell = *Plagiomnium confertidens*
- *curvatulum* Lindb. = *Plagiomnium curvatulum*
- *cuspidatum* Lindb. = *Plagiomnium affine*
- *hymenophylloides* (Hueb.) Lindb. = *Cyrtomnium hymenophylloides*
- *lycopodioides* (Schwaegr.) Lindb. = *Mnium ambiguum*
- *magnirete* Lindb. & H.Arnell = *Mnium ambiguum*
- *marginatum* (Dicks. ex With.) Lindb. = *Mnium marginatum*
- *medium* (Bruch & Schimp.) Lindb. = *Plagiomnium medium*
- *medium* ssp. *curvatulum* (Lindb.) Kindb. = *Plagiomnium curvatulum*
- *orthorhynchum* (Hartm.) Lindb. = *Mnium thomsonii*
- *pseudopunctatum* (Bruch & Schimp.) Lindb. = *Rhizomnium pseudopunctatum*
- *punctatum* Lindb. = *Rhizomnium punctatum*
- *riparium* (Mitt.) Lindb. = *Mnium ambiguum*
- *rostratum* (Schwaegr.) Lindb. = *Plagiomnium rostratum*
- *rugicum* (Laurer) Kindb. = *Plagiomnium ellipticum*
- *seligeri* (Jur.) Lindb. = *Plagiomnium elatum*
- *silvaticum* Lindb. = *Plagiomnium cuspidatum*
- *spinosum* (Voit) Lindb. = *Mnium spinosum*
- *stellare* (Hedw.) Lindb. = *Mnium stellare*
- Atrichum undulatum* (Hedw.) P.Beauv. - excluded (109)
- Barbula aciphylla* Bruch & Schimp. = *Syntrichia norvegica*
- *acuta* (Brid.) Brid. = *Didymodon rigidulus* var. *gracilis*
- *acuta* var. *icmadophila* (Schimp. ex C.Muell.) Crum = *Didymodon rigidulus* var. *icmadophilus*
- *alpigena* (Vent.) Lindb. & H.Arnell = *Bryoerythrophyllum alpigenum*
- *andreaeoides* Kindb. = *Didymodon subandreaeoides*
- *asperifolia* Mitt. = *Didymodon asperifolius*
- *botelligera* Moenk. = *Bryoerythrophyllum ferruginascens*
- *convoluta* Hedw. - excluded (110)
- *curvirostris* Lindb. = *Hymenostylium recurvirostre*
- *cylindrica* (Taylor) Schimp. = *Didymodon vinalis*
- *fallax* Hedw. = *Didymodon fallax*
- *fallax* var. *reflexa* (Brid.) Brid. = *Didymodon ferrugineus*
- *ferruginascens* Stirt. = *Bryoerythrophyllum ferruginascens*
- *fragilis* (Hook. & Wils.) B.S.G. = *Tortella fragilis*
- *gigantea* Funck = *Didymodon gigantea*
- *gracilis* Schwaegr. = *Didymodon rigidulus* var. *gracilis*
- *gracilis* ssp. *icmadophila* (Schimp. ex C.Muell.) J.J.Amann = *Didymodon rigidulus* var. *icmadophilus*
- *gracilis* var. *icmadophila* (Schimp. ex C.Muell.) Moenk. = *Didymodon rigidulus* var. *icmadophilus*
- *icmadophila* Schimp. ex C.Muell. = *Didymodon rigidulus* var. *icmadophilus*
- *johansenii* Williams = *Didymodon johansenii*
- *leptopixis* C.Muell. = *Tortula mucronifolia*
- *leucostoma* R.Br. = *Tortula leucostoma*
- *mucronifolia* (Schwaegr.) Garov. = *Tortula mucronifolia*
- *recurvirostris* (Hedw.) Dix. = *Bryoerythrophyllum recurvirostrum*
- *recurvirostris* var. *dentata* (Schimp.) C.Jens. = *Bryoerythrophyllum alpigenum*
- *reflexa* (Brid.) Brid. = *Didymodon ferrugineus*
- *revoluta* Brid. = *Pseudocrossidium revolutum*
- *rigidula* (Hedw.) Milde = *Didymodon rigidulus*
- *rotundata* Lindb. & H.Arnell = *Bryoerythrophyllum rotundatum*
- *rubella* (Hueb.) Mitt. = *Bryoerythrophyllum recurvirostrum*
- *rubella* var. *ruberrima* Fergusson ex Braithw. = *Bryoerythrophyllum ferruginascens*
- *rubra* (Jur. ex Geheeb) Lindb. = *Bryoerythrophyllum rubrum*
- *rufa* (Lorentz) Jur. = *Didymodon asperifolius*
- *ruralis* Hedw. = *Syntrichia ruralis*
- *tortuosa* (Hedw.) Web. & Mohr = *Tortella tortuosa*
- *unguiculata* Hedw. - excluded (110)
- Bartramia crispa* Brid. = *Bartramia pomiformis*
- *deciduaefolia* Broth. & Yasuda = *Bartramia ithyphylla*
- *fontana* (Hedw.) Turn. = *Philonotis fontana*
- *ithyphylla* var. *brevisetata* (Lindb.) Kindb. = *Bartramia ithyphylla*
- *ithyphylla* var. *strigosa* (Wahlenb.) Kindb. = *Bartramia ithyphylla*
- *krauseana* C.Muell. = *Bartramia subulata*
- *nano-subulata* C.Muell. = *Bartramia subulata*
- *oederi* Brid. = *Plagiopus oederiana*
- *pomiformis* var. *crispa* (Brid.) B.S.G. = *Bartramia pomiformis*
- *pomiformis* var. *strigosa* Wahlenb. = *Bartramia ithyphylla*
- *seriata* (Mitt.) Hobkirk = *Philonotis seriata*
- *viridissima* (Brid.) Kindb. = *Bartramia subulata*
- Blindia crispula* (Hedw.) C.Muell. = *Dicranoweisia crispula*
- *fulvella* (Dicks.) Kindb. = *Arctoa fulvella*
- *polaris* (Berggr.) Hag. = *Seligeria polaris*
- *seligerioides* Lindb. ex Broth. = *Blindia acuta*
- Brachythecium albicans* var. *groenlandicum* (C.Jens.) Paris = *Brachythecium coruscum*
- *brychmii* (Kaurin) Kindb. = *Brachythecium collinum*
- *cirrosum* (Schwaegr.) Schimp. = *Cirriphyllum cirrosum*
- *condensatum* (B.S.G.) Loeske & Herzog = *Brachythecium velutinum*
- *curtum* (Lindb.) Limpr. = *Brachythecium oedipodium*
- *flagellare* Hedw. = *Brachythecium plumosum*
- *glaciale* var. *dovrense* Limpr. = *Brachythecium dovrense*
- *groenlandicum* (C.Jens.) Schljakov = *Brachythecium coruscum*
- *mildeanum* var. *udum* (Hag.) Moenk. = *Brachythecium udum*
- *nelsonii* Grout = *Brachythecium latifolium*
- *salebrosum* ssp. *turgidum* (Hartm.) Hartm. = *Brachythecium turgidum*
- *salicinum* B.S.G. = *Brachythecium velutinum*

- *thedenii* B.S.G. = *Brachythecium erythrorrhizon*
- *velutinum* var. *condensatum* B.S.G. = *Brachythecium velutinum*
- Breidleria arcuata* (Molendo) Loeske = *Calliergonella lindbergii*
- Bryobrittonia pellucida* Williams = *Bryobrittonia longipes*
- Bryoerythrophyllum cavernarum* (Molendo) Podp. = *Bryoerythrophyllum rubrum*
- *recurvirostre* var. *dentatum* (Schimp.) Crum & al. = *Bryoerythrophyllum recurvirostrum*
- Bryum acutiforme* Limpr. = *Bryum axel-blyttii*
- *acutum* Lindb. = *Bryum axel-blyttii*
- *affine* Lindb. & H.Arnell = *Bryum creberrimum*
- *alandicum* Bom. = *Bryum pallescens*
- *angustirete* Kindb. = *Bryum algovicum*
- *arenarium* C.Muell. = *Bryum pootenianum*
- *argenteum* var. *lanatum* (P.Beauv.) Hampe = *Bryum argenteum*
- *atropurpureum* Wahlenb. = *Pohlia atropurpurea*
- *bimum* (Schreb.) Turn. = *Bryum pseudotriquetrum* var. *bimum*
- *blindii* var. *oblongum* (Lindb.) Moenk. = *Bryum oblongum* - excluded
- *calobolax* C.Muell. = *Bryum teres*
- *calophyllum* var. *procerum* Lindb. & H.Arnell = *Bryum calophyllum*
- *cinclidioides* (Hueb.) Lindgr. = *Pseudobryum cinclidioides*
- *cirrhatum* Hoppe & Hornsch. = *Bryum pallescens*
- *cirrhatum* ssp. *flexisetum* Podp. = *Bryum pallescens*
- *cirrhatum* var. *affine* Podp. = *Bryum creberrimum*
- *concinatum* Spruce = *Anomobryum julaceum*
- *contextum* Hornsch. = *Bryum pallescens*
- *crispulum* Hampe = *Bryum pseudotriquetrum*
- *crudoides* Sull. & Lesq. = *Pohlia crudoides*
- *cryophilum* Maortensson = *Bryum cyclophyllum*
- *cusculatum* Schwaegr. = *Pohlia obtusifolia*
- *cuspidatum* (Bruch & Schimp.) Schimp. = *Bryum creberrimum*
- *drummondii* C.Muell. = *Pohlia drummondii*
- *duvalii* Voit = *Bryum weigelii*
- *filiiforme* Dicks. = *Anomobryum julaceum*
- *filum* Schimp. = *Pohlia filum*
- *flexisetum* Lindb. & H.Arnell = *Bryum pallescens*
- *fornicatum* C.Muell. = *Bryum calophyllum*
- *fulvellum* Dicks. = *Arctoa fulvella*
- *glaciale* Brid. = *Pohlia wahlenbergii* var. *glaciale*
- *globosum* Lindb. = *Bryum wrightii*
- *hagenii* Limpr. = *Bryum imbricatum*
- *inclinatum* (Sw. ex Brid.) Blandow = *Bryum imbricatum*
- *inclinatum* var. *labradorensis* Podp. = *Bryum labradorensis*
- *inclinatum* var. *zemliae* (H.Arnell & Jaederholm) Podp. = *Bryum zemliae*
- *julaceum* Gaertn. & al. = *Anomobryum julaceum*
- *laponicum* Kaurin = *Bryum salinum*
- *latifolium* B.S.G. = *Bryum calophyllum*
- *lisae* var. *cuspidatum* (B.S.G.) Margad. = *Bryum creberrimum*
- *lonchocaulon* C.Muell. = *Bryum pallescens*
- *longisetum* var. *labradorensis* (Philib.) G.Roth = *Bryum labradorensis*
- *ludwigii* Spreng. ex Schwaegr. = *Pohlia ludwigii*
- *ludwigii* var. *gracile* B.S.G. = *Pohlia filum*
- *lundstroemii* H.Arnell = *Bryum pallens*
- *luridum* R.Ruthe = *Bryum arcticum*
- *marginatum* With. = *Mnium marginatum*
- *neodamense* var. *ovatum* Lindb. & H.Arnell = *Bryum subneodamense*
- *nudum* Dicks. = *Discelium nudum*
- *nutans* (Hedw.) Turn. = *Pohlia nutans*
- *oblongum* Lindb. - excluded
- *obtusifolium* Brid. = *Pohlia obtusifolia*
- *oeneum* Blytt ex B.S.G. = *Bryum rutilans*
- *ovatum* Jur. = *Bryum subneodamense*
- *pallens* ssp. *lundstroemii* (H.Arnell) Podp. = *Bryum pallens*
- *pallens* ssp. *taimyrense* (Broth. & Bryhn) Podp. = *Bryum taimyrense*
- *pallescens* Schwaegr. var. *pootense* Podp. = *Bryum pootenianum*
- *pendulum* (Hornsch.) Schimp. = *Bryum algovicum*
- *polymorphum* (Hoppe & Hornsch.) Hartm. = *Pohlia elongata* var. *greenii*
- *pseudocrispulum* (Podp.) L.I.Savicz, nom. illeg. = *Bryum pseudotriquetrum*
- *pseudotriquetrum* ssp. *neodamense* (Itzigs.) Buse = *Bryum neodamense*
- *pulchellum* Hedw. = *Pohlia lescuriana*
- *purpurascens* var. *serotinum* (Lindb.) C.Jens. = *Bryum serotinum* Lindb.
- *pyriforme* (Hedw.) With. = *Leptobryum pyriforme*
- *schimperii* C.Muell. = *Pohlia schimperii*
- *sphagnicola* B.S.G. = *Pohlia sphagnicola*
- *spinosum* Voit = *Mnium spinosum*
- *squarrosum* Hedw. = *Paludella squarrosa*
- *subglobosum* C.Muell. = *Bryum pallescens*
- *subobtusifolium* C.Muell. = *Bryum cyclophyllum*
- *subrotundum* Brid. = *Bryum pallescens*
- *tetragonum* (Hedw.) Brid. = *Conostomum tetragonum*
- *tortifolium* Brid. = *Bryum cyclophyllum*
- *triquetrum* Hook. & Taylor = *Meesia triquetra*
- *turbinatum* ssp. *schleicheri* (Schwaegr.) Kindb. = *Bryum schleicheri*
- *ventricosum* Lindb. = *Bryum pseudotriquetrum*
- *ventricosum* var. *bimum* (Schreb.) Hampe = *Bryum pseudotriquetrum* var. *bimum*
- *zierii* Hedw. = *Plagiobryum zierii*
- Buxbaumia vulgaris* Brid. = *Buxbaumia aphylla*
- Calliergon badium* (Hartm.) Kindb. = *Loeskypnum badium*
- *cuspidatum* (Hedw.) Kindb. = *Calliergonella cuspidata*
- *richardsonii* var. *megalophyllum* (Mikut.) Meyl. = *C. megalophyllum*
- *richardsonii* var. *robustum* (Lindb. & H.Arnell) G.Roth = *Calliergon megalophyllum*
- *sarmentosum* (Wahlenb.) Kindb. = *Warnstorfia sarmentosa*
- *scorpioides* (Hedw.) Kindb. = *Scorpidium scorpioides*
- *trifarium* (Web. & Mohr) Kindb. = *Pseudocalliergon trifarium*
- *turgescens* (T.Jens.) Kindb. = *Pseudocalliergon turgescens*
- *wickesii* Grout = *Loeskypnum wickesii*
- Calliergonella schreberi* (Willd. ex Brid.) Grout = *Pleurozium schreberi*
- Camptothecium nitens* (Hedw.) Schimp. = *Tomentypnum nitens*
- *trichoides* Broth. = *Tomentypnum nitens*
- Campyllum adscendens* (Lindb.) Perss. = *Herzogiella adscendens*
- *brachycarpum* G.Roth = *Warnstorfia fluitans*
- *chrysophyllum* var. *zemliae* (C.Jens.) Grout = *Campyllum zemliae*
- *krylovii* (Podp.) Wijk & Marg. = *Podperaea krylovii*
- *protensum* (Brid.) Kindb. = *Campyllum stellatum* var. *protensum*
- Campylophyllum halleri* (Hedw.) Fleisch. = *Campyllum halleri*
- Campylopus albicans* Kindb. = *Paraleucobryum enerce*
- *longifolius* (Hedw.) Kindb. = *Paraleucobryum longifolium*

- *subulatus* var. *schimperi* (Milde) Husn. = *Campylopus schimperi*
- Catharinaea hercynica* (Hedw.) Web. & Mohr = *Oligotrichum hercynicum*
- *tenella* Roehl. = *Atrichum tenellum*
- *tschuchtschica* C. Muell. = *Psilopilum cavifolium*
- Chrysohypnum chrysophyllum* (Brid.) Loeske = *Campylium chrysophyllum*
- *hispidulum* (Brid.) G. Roth = *Campylium hispidulum*
- *polygamum* (B.S.G.) Loeske = *Campylium polygamum*
- *polygamum* var. *zemliae* (C. Jens.) Moenk. = *Campylium zemliae*
- *protensum* (Brid.) Loeske = *Campylium stellatum* var. *protensum*
- *sommerfeltii* (Myr.) A. Roth = *Campylium sommerfeltii*
- *stellatum* (Hedw.) Loeske = *Campylium stellatum*
- Cinclidium hymenophyllum* (B.S.G.) Lindb. = *Cyrtomnium hymenophyllum*
- *virescens* Kindb. = *Cinclidium arcticum*
- Cirriphyllum apicaligerum* (Lindb. & H. Arnell) Broth. = *Scleropodium ornellanum*
- *ornellanum* (Molendo) Loeske = *Scleropodium ornellanum*
- *plumosum* (Hedw.) Loeske & Fleisch. = *Brachythecium plumosum*
- Conostomum arcticum* Sw. = *Conostomum tetragonum*
- *boreale* Sw. = *Conostomum tetragonum*
- Coscinodon pilifer* (Dicks.) Brid. = *Stegonia pilifera*
- *pulvinatus* Spreng. = *Coscinodon cribrerosus*
- Cratoneuron arcticum* Steere = *Pseudoleskea chilensis*
- *commutatum* (Hedw.) G. Roth = *Palustriella commutata*
- *curvicaule* (Jur.) G. Roth = *Callialaria curvicaule*
- *decipiens* (De Not.) Loeske = *Palustriella decipiens*
- *filicinum* var. *curvicaule* (Jur.) Moenk. = *Callialaria curvicaule*
- *glaucum* var. *falcatum* (Brid.) C. Jens. = *Palustriella commutata*
- Cynodontium alpestre* (Wahlenb.) Milde = *Cnestrum alpestre*
- *alpestre* Jur. = *Cynodontium fallax*
- *capillaceum* (Hedw.) Brid. = *Distichium capillaceum*
- *glaucescens* (Lindb. & H. Arnell) Paris = *Cnestrum glaucescens*
- *gracilescens* var. *alpestre* (Wahlenb.) Schimp. = *Cynodontium fallax*
- *gracilescens* var. *tenellum* Schimp. = *Cynodontium tenellum*
- *inclinatum* (Hedw.) Brid. = *Distichium inclinatum*
- *polycarpon* ssp. *fallax* (Limpr.) Kindb. = *Cynodontium fallax*
- *polycarpon* var. *strumiferum* (Hedw.) Schimp. = *Cynodontium strumiferum*
- *schistii* (Web. & Mohr) Lindb. = *Cnestrum schistii*
- *subulatum* Amann = *Cynodontium tenellum*
- *torquescens* Limpr. = *Cynodontium tenellum*
- *virens* (Hedw.) Schimp. = *Oncophorus virens*
- *virens* ssp. *wahlenbergii* (Brid.) Dix. = *Oncophorus wahlenbergii*
- *wahlenbergii* Hartm. = *Oncophorus wahlenbergii*
- Desmatodon arenaceus* Sull. & Lesq. = *Tortula obtusifolia*
- *cernuus* (Hueb.) B.S.G. = *Tortula cernua*
- *glacialis* Funck ex Brid. = *Tortula euryphylla*
- *latifolius* (Schwaegr.) Hueb. = *Stegonia latifolia*
- *latifolius* var. *gracilis* Husn. = *Tortula euryphylla*
- *latifolius* var. *systylius* (Schimp.) Hag. = *Tortula systylia*
- *obliquus* B.S.G. = *Tortula leucostoma*
- *obtusifolius* (Schwaegr.) Schimp. = *Tortula obtusifolia*
- *suberectus* (Hook.) Limpr. = *Tortula leucostoma*
- Dichodontium flavescens* (Dicks. ex With.) Lindb. = *Dichodontium pellucidum*
- *pellucidum* var. *flavescens* (Dicks. ex With.) J.W. Moore = *Dichodontium pellucidum*
- *schreberi* Schimp. = *Dicranella schreberiana*
- *schreberi* var. *grevilleana* (Brid.) Moenk. = *Dicranella grevilleana*
- *secunda* Lindb. = *Dicranella subulata*
- *squarrosa* (Starke) Schimp. = *Dicranella palustris*
- Dicranum aciculare* Hedw. = *Racomitrium aciculare*
- *affine* Funck = *Dicranum bergeri*
- *albicans* B.S.G. = *Paraleucobryum enerve*
- *alpestre* Wahlenb. = *Cnestrum alpestre*
- *arcticum* Schimp. = *Kiaeria glacialis*
- *bergeri* var. *acutifolium* Lindb. & H. Arnell = *Dicranum acutifolium*
- *blyttii* B.S.G. = *Kiaeria blyttii*
- *bonjeanii* ssp. *angustum* (Lindb.) Podp. = *Dicranum angustum*
- *bonjeanii* var. *anomalum* C. Jens. = *Dicranum leioneuron*
- *bonjeanii* var. *teninerve* Mikut. = *Dicranum leioneuron*
- *cerviculatum* Hedw. = *Dicranella cerviculata*
- *compactum* Funck = *Oncophorus compactus*
- *condensatum* Gorodkov, nom. invalid. = *Dicranum majus*
- *congestum* var. *cirratum* Schimp. = *Dicranum brevifolium*
- *congestum* var. *flexicaule* (Brid.) B.S.G. = *Dicranum congestum*
- *convolutum* Hampe = *Dicranum muehlenbeckii*
- *crispum* Hedw. = *Dicranella crispa*
- *elatum* Lindb. = *Dicranum drummondii*
- *elongatum* ssp. *groenlandicum* (Brid.) Moenk. = *Dicranum groenlandicum*
- *enerve* Thed. = *Paraleucobryum enerve*
- *falcatum* Hedw. = *Kiaeria falcata*
- *flexicaule* Brid. = *Dicranum congestum*
- *fulvellum* (Dicks.) Sm. = *Arctoa fulvella*
- *fuscescens* ssp. *spadiceum* (Zett.) C. Jens. = *Dicranum spadiceum*
- *fuscescens* var. *congestum* (Brid.) Husn. = *Dicranum congestum*
- *glaciale* Berggr. = *Kiaeria glacialis*
- *gracilescens* var. *tenellum* B.S.G. = *Cynodontium tenellum*
- *grevilleanum* (Brid.) B.S.G. = *Dicranella grevilleana*
- *intermedium* Crome = *Dicranum bergeri*
- *labradoricum* C. Muell. = *Dicranum groenlandicum*
- *laevidens* Williams = *Dicranum angustum*
- *latifolium* Hedw. = *Tortula euryphylla*
- *longifolium* Hedw. = *Paraleucobryum longifolium*
- *majus* var. *spadiceum* (Zett.) Hag. = *Dicranum spadiceum*
- *molle* (Wils.) Lindb. = *Kiaeria glacialis*
- *montanum* Hedw. = *Orthodicranum montanum*
- *muehlenbeckii* var. *brevifolium* Lindb. = *Dicranum brevifolium*
- *muehlenbeckii* var. *cirratum* (Schimp.) Lindb. = *Dicranum brevifolium*
- *muehlenbeckii* var. *neglectum* (De Not.) Pfeff. = *Dicranum spadiceum*
- *muehlenbeckii* var. *spadiceum* (Zett.) Podp. = *Dicranum spadiceum*
- *neglectum* Jur. ex De Not. = *Dicranum spadiceum*
- *ovale* Hedw. = *Grimmia ovale*
- *palustre* B.S.G. = *Dicranum bonjeanii*
- *pellucidum* Hedw. = *Dichodontium pellucidum*
- *polycarpum* (Hedw.) Web. & Mohr = *Cynodontium polycarpon*
- *purpureum* Hedw. = *Ceratodon purpureus*
- *robustum* Blytt ex B.S.G. = *Dicranum drummondii*
- *rugosum* Brid. = *Dicranum polysetum*
- *rupestre* Brid. = *Dicranum fuscescens*

- *schisti* Lindb. = *Kiaeria blyttii*
- *schraderi* Wahlenb. = *Dicranum bergeri*
- *schreberi* var. *grevilleanum* Brid. = *Dicranella grevilleana*
- *schreberianum* Hedw. = *Dicranella schreberiana*
- *scoparium* var. *integrifolium* Lindb. = *Dicranum scoparium*
- *sendtneri* Limpr. = *Dicranum elongatum*
- *sphagni* Wahlenb. = *Dicranum elongatum*
- *starkei* Web. & Mohr = *Kiaeria starkei*
- *subulatum* Hedw. = *Dicranella subulata*
- *tenuinerve* Zett. = *Dicranum groenlandicum*
- *tundrae* Lindb. & H.Arnell = *Dicranum elongatum*
- *undulatum* Web. & Mohr, non Brid. = *Dicranum polysetum*
- *undulatum* Brid., non Web. & Mohr = *Dicranum bergeri*
- *varium* Hedw. = *Dicranella varia*
- *virens* Hedw. = *Oncophorus virens*
- *virens* var. *compactum* B.S.G. = *Oncophorus compactus*
- Didymodon acutus* (Brid.) Saito = *Didymodon rigidulus* var. *gracilis*
- *alpigenus* Vent. = *Bryoerythrophyllum alpigenum*
- *asperifolius* var. *gorodkovii* (Abramova & I.I.Abramov) Afonina = *Didymodon asperifolius*
- *botelliger* (Moenk.) Hag. = *Bryoerythrophyllum ferruginascens*
- *fallax* var. *reflexus* (Brid.) Zander = *Didymodon ferrugineus*
- *flexicaule* (Schwaegr.) Roehl. = *Ditrichum flexicaule*
- *fragilis* Hook. & Wils. = *Tortella fragilis*
- *homomallus* Hedw. = *Ditrichum heteromallum*
- *icmadophilus* (Schimp. ex C.Muell.) Saito = *Didymodon rigidulus* var. *icmadophilus*
- *linearis* Sw. = *Ditrichum lineare*
- *pusillus* Hedw. = *Ditrichum pusillum*
- *reflexus* Brid. = *Didymodon ferrugineus*
- *rotundatus* (Lindb. & H.Arnell) Paris = *Bryoerythrophyllum rotundatum*
- *rubellus* B.S.G. = *Bryoerythrophyllum recurvirostrum*
- *rubellus* var. *cavernarum* Molendo = *Bryoerythrophyllum rubrum*
- *rubellus* var. *dentatus* Schimp. = *Bryoerythrophyllum alpigenum*
- *ruber* Jur. ex Geheeb = *Bryoerythrophyllum rubrum*
- *rufus* Lorentz = *Didymodon asperifolius*
- *rufus* var. *gorodkovii* Abramova & I.I.Abramov = *Didymodon asperifolius*
- Dissodon froelichianus* (Hedw.) Grev. & Arnott = *Tayloria froelichiana*
- *hornschuchii* Grev. & Arnott = *Tayloria hornschuchii*
- *splachmoides* Grev. & Arnott = *Tayloria lingulata*
- Distichium montanum* Hag. = *Distichium capillaceum*
- Ditrichum glaucescens* (C.Muell.) Hampe = *Saelania glaucescens*
- *tenuifolium* Lindb. = *Ditrichum cylindricum*
- *tortile* (Schr.) Brockm. = *Ditrichum pusillum*
- Dolichotheca striatella* (Brid.) Loeske = *Herzogiella striatella*
- Dorcadion cribrosum* (C.Muell.) Lindb. & H.Arnell = *Orthotrichum sordidum*
- *elegans* (Schwaegr.) Lindb. = *Orthotrichum speciosum*
- *imperfectum* (C.Muell.) Lindb. & H.Arnell = *Orthotrichum urnigerum*
- *perforatum* (C.Muell.) Lindb. & H.Arnell = *Orthotrichum sordidum*
- *platyblephare* Lindb. & H.Arnell = *Orthotrichum speciosum*
- *sibiricum* (Groenvall) Lindb. & H.Arnell = *Orthotrichum pallens*
- *speciosum* (Nees) Lindb. = *Orthotrichum speciosum*
- Drepanocladus aduncus* Warnst. = *Sanionia uncinata*
- *badius* (Hartm.) G.Roth = *Loeskympnum badium*
- *exannulatus* (B.S.G.) Warnst. = *Warnstorfia exannulata*
- *exannulatus* var. *tundrae* (H.Arnell) Dietz. = *Warnstorfia tundrae*
- *fluitans* (Hedw.) Warnst. = *Warnstorfia fluitans*
- *intermedius* (Lindb.) Warnst. = *Limprichtia cossoni*
- *kneffii* (B.S.G.) Warnst. = *Drepanocladus aduncus* var. *kneffii*
- *lapponicus* (Norrl.) Smirnova = *Hamatocaulis lapponicus*
- *latifolius* (Lindb. & H.Arnell) Warnst. = *Drepanocladus brevifolius*
- *polycarpus* (Bland. ex Voit) Warnst. = *Drepanocladus aduncus* var. *polycarpus*
- *procerus* (Renaud & H.Arnell) Warnst. = *Warnstorfia exannulata*
- *pseudostramineus* (C.Muell.) G.Roth = *Warnstorfia pseudostraminea*
- *revolvens* (Sw.) Warnst. = *Limprichtia revolvens*
- *revolvens* f. *dioica* Moenk. = *Limprichtia cossoni*
- *revolvens* var. *intermedius* (Lindb.) Wils. = *Limprichtia cossonii*
- *rothae* (De Not.) Warnst. = *Warnstorfia exannulata*
- *scorpioides* (Hedw.) Warnst. = *Scorpidium scorpioides*
- *tundrae* (H.Arnell) Loeske = *Warnstorfia tundrae*
- *turgescens* (T.Jens.) Broth. = *Pseudocalliergon turgescens*
- *uncinatus* (Hedw.) Warnst. = *Sanionia uncinata*
- *uncinatus* var. *subjulaceus* (B.S.G.) Warnst. = *Sanionia uncinata*
- *vernicosus* (Mitt.) Warnst. = *Hamatocaulis vernicosus*
- *vernicosus* var. *lapponicus* (Norrl.) G.Roth = *Hamatocaulis lapponicus*
- Dryptodon caespiticus* Brid. = *Grimmia caespiticia*
- *elator* (Bruch ex Bals. & De Not.) Loeske = *Grimmia elator*
- *funalis* (Schwaegr.) Brid. = *Grimmia funalis*
- *incurvus* (Hoppe & Hornsch.) Brid. = *Grimmia elator*
- *torquatus* (Grev.) Brid. = *Grimmia torquata*
- *trichophyllum* (Grev.) Brid. = *Grimmia trichophylla* - excluded
- Encalypta apophysata* Nees & Hornsch. = *Encalypta affinis*
- *caucasica* Rupr. = *Encalypta alpina*
- *commutata* Nees & Hornsch. = *Encalypta alpina*
- *contorta* Hoppe ex Lindb. = *Encalypta streptocarpa* - excluded
- *extinctoria* Sw. ex Lindb. = *Encalypta vulgaris*
- *laciniata* Lindb. = *Encalypta ciliata*
- *longicollis* var. *brevicollis* B.S.G. = *Encalypta brevicollis*
- *rhabdocarpa* Schwaegr. = *Encalypta rhabdocarpa*
- *streptocarpa* Hedw. - excluded (111)
- Entodon orthocarpus* (Brid.) Lindb. = *Entodon concinnus*
- *palatinus* Lindb. = *Platygyrium repens*
- *schreberi* (Brid.) Moenk. = *Pleurozium schreberi*
- Erythrophyllum alpigenum* (Vent.) Loeske = *Bryoerythrophyllum alpigenum*
- *recurvirostre* (Hedw.) Loeske = *Bryoerythrophyllum recurvirostrum*
- *rubellum* (Hedw.) Loeske = *Bryoerythrophyllum recurvirostrum*
- *rubellum* var. *ruberrimum* Fergusson ex Braithw. = *Bryoerythrophyllum ferruginascens*
- *rubrum* (Jur. ex Geheeb) Loeske = *Bryoerythrophyllum rubrum*
- Eucladium aeruginosum* (Smith) C.Jens. = *Gymnostomum aeruginosum*
- *recurvirostre* (Hedw.) C.Jens. = *Hymenostilium recurvirostre*
- Eurhynchium diversifolium* B.S.G. = *Eurhynchium pulchellum* var. *diversifolium*
- *strigosum* (Web. & Mohr) Schimp. = *Eurhynchium pulchellum*
- Fissidens bryoides* var. *gymmandrus* (Buse) Ruthe = *Fissidens*

- bryoides*
- *bryoides* var. *hedwigii* Limpr. = *Fissidens viridulus*
 - *bryoides* var. *intermedius* Ruthe = *Fissidens viridulus*
 - *bryoides* var. *viridulus* (Sw.) Broth. = *Fissidens viridulus*
 - *impar* Mitt. = *Fissidens viridulus*
 - *incurvus* Starke ex Roehl. = *Fissidens bryoides*
 - *marginatulus* Meln. = *Fissidens bryoides*
 - *polycarpus* Hedw. = *Cynodontium polycarpon*
 - *sciuroides* Hedw. = *Leucodon sciuroides*
 - *strumifer* Hedw. = *Cynodontium strumiferum*
 - Fontinalis falcata* Hedw. = *Dichelyma falcata*
 - *gracilis* Lindb. = *Fontinalis antipyretica* var. *gracilis*
 - *nitida* Lindb. & H. Arnell = *Fontinalis hypnoides* var. *duriarei*
 - Funaria hygrometrica* var. *arctica* Berggr. = *Funaria arctica*
 - *microstoma* Bruch ex Schimp. - excluded (112)
 - *obtusifolia* Weinm. = *Funaria hygrometrica*
 - Garismithia bifurcata* Steere = *Leptopteryginandrum australpinum*
 - Gehebia cataractarum* Schimp. = *Didymodon giganteus*
 - *gigantea* (Funck) Boulay = *Didymodon giganteus*
 - Georgia pellucida* (Hedw.) Rabenh. = *Tetraphis pellucida*
 - Grimmia acicularis* C. Muell. = *Racomitrium aciculare*
 - *agassizii* Jaeg. = *Schistidium agassizii*
 - *alpestris* var. *mutica* (Brid.) De Not. = *Grimmia caespiticia*
 - *alpestris* var. *sessitana* (De Not.) Hag. = *Grimmia sessitana*
 - *alpicola* auct. non Hedw. = *Schistidium rivulare*
 - *alpicola* Hedw. = *Schistidium agassizii*
 - *andreaeopsis* C. Muell. = *Schistidium andreaeopsis*
 - *angusta* (Hag.) Broth. = *Schistidium agassizii*
 - *apocarpa* Hedw. = *Schistidium apocarpum*
 - *apocarpa* var. *gracilis* Roehl. = *Schistidium strictum*
 - *bifrons* De Not. = *Grimmia domniana*
 - *canescens* (Hedw.) C. Muell. = *Racomitrium canescens*
 - *catenulata* (Brid. ex Schrad.) Web. & Mohr = *Pseudoleskeella catenulata*
 - *commutata* Hueb. = *Grimmia ovalis*
 - *conferta* Funck = *Schistidium apocarpum* var. *confertum*
 - *contorta* (Wahlenb.) Arnott = *Grimmia incurva*
 - *crassifolia* Lindb. ex Broth. = *Grimmia ovalis*
 - *cribrosa* Hedw. = *Coscinodon cribrosus*
 - *donii* Sm. ex Lindb. = *Grimmia domniana*
 - *ehlei* H. Arnell = *Schistidium tenerum*
 - *ericoides* (Hedw.) Lindb. = *Racomitrium canescens*
 - *ericoides* var. *canescens* (Hedw.) Lindb. = *Racomitrium canescens*
 - *ericoides* var. *robusta* Lindb. & H. Arnell = *Racomitrium panschii*
 - *fascicularis* (Hedw.) C. Muell. = *Racomitrium fasciculare*
 - *gigantea* (Funck) Schimp. = *Didymodon giganteus*
 - *gracilis* Schleich. ex Schwaegr. = *Schistidium strictum*
 - *hagenii* Kaurin = *Grimmia incurva*
 - *hypnoides* Lindb. = *Racomitrium lanuginosum*
 - *maritima* Turn. = *Schistidium maritimum*
 - *mollis* B.S.G. = *Hygrogrimmia mollis*
 - *obtusa* Schwaegr. = *Grimmia donniana*
 - *ovalis* auct. non (Hedw.) Lindb. = *Grimmia affinis*
 - *ovata* Web. & Mohr = *Grimmia ovalis*
 - *spiralis* Hook. = *Grimmia funalis*
 - *spitsbergensis* Bizot & Ther. = *Trichostomum arcticum*
 - *stricta* Turn. = *Schistidium strictum*
 - *sulcata* Saut. = *Grimmia caespiticia*
 - *tenera* Zett. = *Schistidium tenerum*
 - *trichophylla* Grev. - excluded (113)
 - *trichophylla* var. *muehlenbeckii* (Schimp.) Husn. = *Grimmia muehlenbeckii*
 - *trichophylla* var. *septentrionalis* Schimp. = *Grimmia muehlenbeckii*
 - *trichophylla* var. *tenuis* (Wahlenb.) Wijk & Margad. = *Grimmia muehlenbeckii*
 - Guembelia montana* (B.S.G.) Hampe = *Grimmia montana*
 - Gymnocybe palustris* (Hedw.) Fries = *Aulacomnium palustre*
 - *turgida* (Wahlenb.) Lindb. = *Aulacomnium turgidum*
 - Gymnostomum curvirostrum* Hedw. ex Brid. = *Hymenostylium recurvirostre*
 - *heimii* Hedw. = *Henediella heimii*
 - *obtusifolium* auct. = *Henediella heimii* var. *arctica*
 - *recurvirostrum* Hedw. = *Hymenostylium recurvirostre*
 - *rupestre* Schleich. ex Schwaegr. = *Gymnostomum aeruginosum*
 - Haplodon wormskjoldii* (Hornem.) Hag. = *Aplodon wormskjoldii*
 - Hedwigia albicans* Lindb. = *Hedwigia ciliata*
 - Helicodontium pulvinatum* (Wahlenb.) Lindb. = *Myrmycia pulvinata*
 - *rotundifolium* H. Arnell = *Myuroclada rotundifolia*
 - Helodium lanatum* (Brid.) Broth. = *Helodium blandowii*
 - Heterocladium heteropterum* (Brid.) B.S.G. - excluded (114)
 - *papillosum* (Lindb.) Lindb. = *Pseudoleskeella papillosa*
 - *squarrosulum* Lindb. = *Heterocladium dimorphum*
 - Heterophyllum adscendens* (Lindb.) Broth. = *Herzogiella adscendens*
 - *haldanianum* (Grev.) Kindb. = *Callicladium haldanianum*
 - Holmgrenia chrysea* (Schwaegr.) Lindb. = *Orthothecium chryseon*
 - *intricata* (Hartm.) Lindb. = *Orthothecium intricatum*
 - *stricta* (Lorentz) Grout = *Orthothecium strictum*
 - Homalothecium nitens* (Hedw.) Robins. = *Tomentypnum nitens*
 - Hookeria acuminata* Schleich. = *Tayloria acuminata*
 - Hygroamblystegium filicinum* (Hedw.) Loeske = *Cratoneuron filicinum*
 - *varium* (Hedw.) Moenk. = *Amblystegium varium*
 - Hygrohypnum dilatatum* (Wils. ex Schimp.) Loeske = *Hygrohypnum molle*
 - *dilatatum* auct. non (Wils. ex Schimp.) Loeske = *Hygrohypnum duriusculum*
 - *ehlei* (H. Arnell) Broth. = *Hygrohypnum polare* var. *falcatum*
 - *goulardii* (Schimp.) Loeske = *Hygrohypnum cochlearifolium*
 - *molle* auct. non (Hedw.) Loeske = *Hygrohypnum duriusculum*
 - *molle* ssp. *dilatatum* (Wils.) Grout = *Hygrohypnum duriusculum*
 - *palustre* Loeske = *Hygrohypnum luridum*
 - *palustre* var. *polare* (Lindb.) Moenk. = *Hygrohypnum polare*
 - *rivulare* Broth. = *Hygrohypnum alpestre*
 - *smithii* var. *cochlearifolium* Moenk. = *Hygrohypnum cochlearifolium*
 - Hylocomium alaskanum* (Lesq. & James) Austin = *Hylocomium splendens* var. *obtusifolium*
 - *calvescens* Lindb. = *Rhytidiadelphus subpinatus*
 - *parietinum* Lindb. = *Pleurozium schreberi*
 - *proliferum* (Brid.) Lindb. = *Hylocomium splendens*
 - *proliferum* var. *alaskanum* (Lesq. & James) C. Jens. = *Hylocomium splendens* var. *obtusifolium*
 - *pyrenaicum* (Spruce) Lindb. = *Hylocomiastrum pyrenaicum*
 - *rugosum* (Hedw.) De Not. = *Rhytidium rugosum*
 - *schreberi* (Brid.) De Not. = *Pleurozium schreberi*
 - *splendens* var. *alaskanum* (Lesq. & James) Limpr. = *Hylocomium splendens* var. *obtusifolium*
 - *squarrosum* (Hedw.) B.S.G. = *Rhytidiadelphus squarrosus*
 - *triquetrum* (Hedw.) B.S.G. = *Rhytidiadelphus triquetrus*
 - Hymenostylium recurvirostre* Mitt. = *Hymenostylium recurvirostre*
 - Hypnum abietinum* Hedw. = *Abietinella abietina*
 - *aduncum* Hedw. = *Drepanocladus aduncus*

- *alaskanum* Lesq. & James = *Hylocomium splendens* var. *obtusifolium*
- *albicans* Hedw. = *Brachythecium albicans*
- *alpestre* Sw. ex Hedw. = *Hygrohypnum alpestre*
- *arcuatum* Lindb. = *Calliergonella lindbergii*
- *badium* Hartm. = *Loeskyllum badium*
- *blandowii* Web. & Mohr = *Helodium blandowii*
- *breidlerii* Jur. = *Calliergon richardsonii*
- *brunneo-fuscum* C.Muell. = *Warnstorfia sarmentosa*
- *calvescens* Wils. = *Rhytidiadelphus subpinnatus*
- *campestre* Bruch = *Brachythecium campestre*
- *chryseum* Schwaegr. = *Orthothecium chryseum*
- *chrysophyllum* Brid. = *Campyllum chrysophyllum*
- *cirrosium* Schwaegr. = *Cirriphyllum cirrosium*
- *cochlearifolium* De Not. = *Hygrohypnum cochlearifolium*
- *collinum* C.Muell. = *Brachythecium collinum*
- *commutatum* Hedw. = *Palustriella commutata*
- *cordifolium* Hedw. = *Calliergon cordifolium*
- *crista-castrensis* Hedw. = *Ptilium crista-castrensis*
- *cupressiforme* var. *vaucheri* (Lesq.) Boulay = *Hypnum vaucheri*
- *curtum* Lindb. = *Brachythecium oedipodium*
- *curvicaule* Jur. = *Callialaria curvicaulis*
- *cuspidatum* Hedw. = *Calliergonella cuspidata*
- *denticulatum* Hedw. = *Plagiothecium denticulatum*
- *dilatatum* Wils. = *Hygrohypnum duriusculum*
- *dimorphum* Brid. = *Heterocladium dimorphum*
- *diversifolium* (B.S.G.) Schleich. ex Sull. & Lesq. = *Eurhynchium pulchellum* var. *diversifolium*
- *exannulatum* B.S.G. = *Warnstorfia exannulata*
- *fastigiatum* Brid. = *Hypnum recurvatum*
- *fastigiatum* var. *recurvatum* Uggla = *Hypnum recurvatum*
- *filicinum* Hedw. = *Cratoneuron filicinum*
- *fluitans* Hedw. = *Warnstorfia fluitans*
- *giganteum* Schimp. = *Calliergon giganteum*
- *glaciale* (B.S.G.) Mitt. = *Brachythecium glaciale*
- *goulardii* Schimp. = *Hygrohypnum cochlearifolium*
- *haldanianum* Grev. = *Callicladium haldanianum*
- *halleri* Hedw. = *Campyllum halleri*
- *heufleri* Jur. = *Hypnum revolutum*
- *hispidulum* Brid. = *Campyllum hispidulum*
- *inflatum* C.Muell. = *Loeskyllum wickesii*
- *intermedium* Lindb. = *Limprichtia cossoni*
- *intermedium* var. *revolvens* Lindb. = *Limprichtia revolvens*
- *latifolium* Lindb. = *Brachythecium latifolium*
- *lindbergii* Mitt. = *Calliergonella lindbergii*
- *luridum* Hedw. = *Hygrohypnum luridum*
- *lycopodioides* Schwaegr. = *Drepanocladus lycopodioides*
- *lycopodioides* var. *lapponicum* Norrl. = *Hamatocaulis lapponicum*
- *mildeanum* Schimp. = *Brachythecium mildeanum*
- *mildei* Lindb. = *Brachythecium mildeanum*
- *molluscum* Hedw. = *Ctenidium molluscum*
- *nitens* Hedw. = *Tomentypnum nitens*
- *ochraceum* Wils. = *Hygrohypnum ochraceum*
- *ornellatum* Molendo = *Scleropodium ornellatum*
- *palustre* (Hedw.) Web. & Mohr = *Hygrohypnum luridum*
- *parietinum* Lindb. = *Pleurozium schreberi*
- *plumosum* Hedw. = *Brachythecium plumosum*
- *plumosum* ssp. *turgidum* (Hartm.) Lindb. = *Brachythecium turgidum*
- *polare* Lindb. = *Hygrohypnum polare*
- *polycarpon* Bland. ex Voit = *Drepanocladus aduncus* var. *polycarpus*
- *polygamum* (B.S.G.) Wils. = *Campyllum polygamum*
- *populeum* Hedw. = *Brachythecium populeum*
- *praecox* Hedw. = *Eurhynchium pulchellum* var. *praecox*
- *pratense* J.Koch ex Spruce = *Breidleria pratense*
- *procerrimum* Molendo = *Ctenidium procerrimum*
- *protensum* Brid. = *Campyllum stellatum* var. *protensum*
- *pseudoplumosum* Brid. = *Brachythecium plumosum*
- *pulchellum* (Hedw.) Dicks. ex Brid. = *Isopterygiopsis pulchella*
- *pulchellum* Hedw. = *Eurhynchium pulchellum*
- *pyrenaicum* Spruce = *Hylocomiastrum pyrenaicum*
- *radicosum* Mitt. = *Pseudoleskea radicata*
- *recognitum* Hedw. = *Thuidium recognitum*
- *reflexum* Starke = *Brachythecium reflexum*
- *reptile* Michaux = *Hypnum pallescens*
- *revolvens* Turn. = *Limprichtia revolvens*
- *richardsonii* (Mitt.) Lesq. & James = *Calliergon richardsonii*
- *riparium* Hedw. = *Leptodictyum riparium*
- *rivulare* (B.S.G.) Bruch = *Brachythecium rivulare*
- *roeseanum* Hampe = *Plagiothecium cavifolium*
- *rufescens* Brid. = *Orthothecium rufescens*
- *rugosum* Hedw. = *Rhytidium rugosum*
- *salebrosum* Web. & Mohr = *Brachythecium salebrosum*
- *sarmentosum* Wahlenb. = *Warnstorfia sarmentosa*
- *scariosifolium* C.Muell. = *Hypnum cupressiforme*
- *schreberi* Brid. = *Pleurozium schreberi*
- *scorpioides* Hedw. = *Scorpidium scorpioides*
- *sendtneri* Schimp. = *Drepanocladus sendtneri*
- *serpens* Hedw. = *Amblystegium serpens*
- *sibiricum* C.Muell. = *Myurella sibirica*
- *sommerfeltii* Myrin = *Campyllum sommerfeltii*
- *splendens* Hedw. = *Hylocomium splendens*
- *squarrosus* Hedw. = *Rhytidiadelphus squarrosus*
- *starkei* Brid. = *Brachythecium starkei*
- *stellatum* Hedw. = *Campyllum stellatum*
- *stramineum* Dicks ex Brid. = *Calliergon stramineum*
- *strigosum* Hoffm. ex Web. & Mohr = *Eurhynchium pulchellum*
- *strigosum* var. *diversifolium* (B.S.G.) Lindb. = *Eurhynchium pulchellum* var. *diversifolium*
- *strigosum* var. *praecox* (Hedw.) Wahlenb. = *Eurhynchium pulchellum* var. *praecox*
- *subplicatile* Limpr. = *Hypnum plicatum*
- *swartzii* Turn. = *Eurhynchium hians*
- *trachypodium* (Brid.) B.S.G. = *Brachythecium trachypodium*
- *trichoides* Neck. ex Lindb. = *Tomentypnum nitens*
- *trifarium* Web. & Mohr = *Pseudocalliergon trifarium*
- *triquetrum* Hedw. = *Rhytidiadelphus triquetrus*
- *turgescens* T.Jens. = *Pseudocalliergon turgescens*
- *turgidum* (Hartm.) Hartm. = *Brachythecium turgidum*
- *uncinatum* Hedw. = *Sanionia uncinata*
- *velutinum* Hedw. = *Brachythecium velutinum*
- *vernicosum* Lindb. = *Hamatocaulis vernicosus*
- *wahlenbergii* Web. & Mohr = *Pohlia wahlenbergii*
- *Isopterygium elegans* (Brid.) Lindb. = *Pseudotaxiphyllum elegans*
- *muellerianum* (Schimp.) Jaeger = *Isopterygiopsis muelleriana*
- *nitidum* Lindb. = *Isopterygiopsis pulchella*
- *nitidum* var. *pulchellum* (Hedw.) Lindb. = *Isopterygiopsis pulchella*
- *piliferum* (Hartm.) Loeske = *Plagiothecium piliferum* - excluded
- *pulchellum* (Hedw.) Jaeg. = *Isopterygiopsis pulchella*
- *pulchellum* var. *nitidulum* (Wahlenb.) G.Roth = *Isopterygiopsis pulchella*
- *striatellum* (Brid.) Loeske = *Herzogiella striatella*
- *turfaceum* (Lindb.) Lindb. = *Herzogiella turfacea*
- *Isothecium apiculatum* (Sommerf.) Hueb. = *Myurella tenerrima*

- Kiaeria starkei* var. *blyttii* (Web. & Mohr) Hag. = *Kiaeria blyttii*
Krauseella muelleri H. Arnell = *Tetraplodon paradoxus*
 – *tschuctschica* C. Muell. = *Tetraplodon paradoxus*
Leersia affinis (Hedw. f.) Lindb. = *Encalypta affinis*
 – *alpina* (Sm.) Lindb. = *Encalypta alpina*
 – *borealis* Kindb. = *Encalypta ciliata*
 – *brevicollis* (Bruch & Schimp.) Lindb. = *Encalypta brevicollis*
 – *contorta* Lindb. = *Encalypta streptocarpa* - excluded
 – *laciniata* Hedw. ex Lindb. = *Encalypta ciliata*
 – *procera* (Bruch) Lindb. = *Encalypta procera*
 – *rhabdocarpa* (Schwaegr.) Lindb. = *Encalypta rhabdocarpa*
 – *rhabdocarpa* var. *leptodon* Lindb. = *Encalypta rhabdocarpa*
 var. *leptodon*
Leptodictyum kochii (B.S.G.) Warnst. = *Leptodictyum humile*
Leptodictyum trichopodium (Schultz) Warnst. = *Leptodictyum humile*
 – *trichopodium* var. *curvipes* (B.S.G.) Broth. = *Leptodictyum humile*
Leptotrichum flexicaule (Schwaegr.) Hampe = *Ditrichum flexicaule*
 – *homomallum* (Hedw.) Hampe = *Ditrichum heteromallum*
Lescuraea atrovirens (Dicks. ex Brid.) Kindb. = *Pseudoleskea incurvata*
 – *filamentosa* (Dicks. ex With.) Lindb. = *Pseudoleskea incurvata*
 – *incurvata* (Hedw.) Lawt. = *Pseudoleskea incurvata*
 – *mutabilis* var. *saxicola* (B.S.G.) Hag. = *Lescuraea saxicola*
 – *radicosa* (Mitt.) Moenk. = *Pseudoleskea radicata*
 – *striata* var. *saxicola* B.S.G. = *Lescuraea saxicola*
Leskea catenulata (Brid. ex Schrad.) Mitt. = *Pseudoleskeella catenulata*
 – *dendroides* Hedw. = *Climacium dendroides*
 – *incurvata* Hedw. = *Pseudoleskea incurvata*
 – *intricata* Hartm. = *Orthothecium intricatum*
 – *julacea* Schwaegr. = *Myurella julacea*
 – *latifolia* Lindb. ex Broth. = *Amblystegium varium*
 – *nervosa* (Brid.) Myrin = *Pseudoleskeella nervosa*
 – *nervosa* var. *sibirica* H. Arnell = *Pseudoleskeella sibirica*
 – *pallescens* Hedw. = *Hypnum pallescens*
 – *pilifera* Sw. = *Plagiothecium piliferum* - excluded
 – *polyantha* Hedw. = *Pylaisiella polyantha*
 – *pulvinata* Wahlenb. = *Myrinia pulvinata*
 – *sprucei* Bruch = *Platydictya jungermanniioides*
 – *striatella* Brid. = *Herzogiella striatella*
 – *subtilis* Hedw. = *Platydictya subtilis*
 – *tectorum* (Funck ex Brid.) Lindb. = *Pseudoleskeella tectorum*
 – *varia* Hedw. = *Amblystegium varium*
Leskeella nervosa (Brid.) Loeske = *Pseudoleskeella nervosa*
 – *nervosa* var. *sibirica* (H. Arnell) Broth. = *Pseudoleskeella sibirica*
 – *tectorum* (Funck ex Brid.) Hag. = *Pseudoleskeella tectorum*
Lesqueruexia - cm. *Lescuraea*
Limnobia alpestre (Sw. ex Hedw.) B.S.G. = *Hygrohypnum alpestre*
 – *ochraceum* (Turn. ex Wils.) B.S.G. = *Hygrohypnum ochraceum*
 – *palustre* B.S.G. = *Hygrohypnum luridum*
Limprichtia intermedia (Lindb.) Loeske = *Limprichtia cossonii*
 – *vernica* Loeske = *Hamatocaulis vernicosus*
Meesia demissa (Hook.) Hoppe & Hornsch. = *Plagiobryum demissum*
 – *trichoides* Spruce = *Meesia uliginosa*
 – *trifaria* Crum & al. = *Meesia triquetra*
 – *tristicha* Bruch = *Meesia triquetra*
 – *tschuctschica* C. Muell. = *Meesia triquetra*
Mniobryum albicans (Wahlenb.) Limpr. = *Pohlia wahlenbergii*
 – *atropurpureum* (Wahlenb.) Hag. = *Pohlia atropurpurea*
 – *ludwigii* (Spreng. ex Schwaegr.) Loeske = *Pohlia ludwigii*
 – *pulchellum* (Hedw.) Loeske = *Pohlia lescuriana*
 – *wahlenbergii* (Web. & Mohr) Jenn. = *Pohlia wahlenbergii*
 – *wahlenbergii* var. *gracilis* (Brid.) Wijk & Margad. = *Pohlia wahlenbergii* var. *gracilis*
Mnium affine Blandow = *Plagiommium affine*
 – *affine* var. *elatum* B.S.G., pr.p. = *Plagiommium elatum*
 – *affine* var. *elatum* B.S.G., pr.p. = *Plagiommium ellipticum*
 – *affine* var. *integrifolium* (Lindb.) Milde = *Plagiommium ellipticum*
 – *affine* var. *rugicum* (Laur.) B.S.G. = *Plagiommium ellipticum*
 – *andrewsianum* Steere = *Rhizomnium andrewsianum*
 – *arcticum* B.S.G. = *Cinclidium arcticum*
 – *arcuatum* Broth. = *Trachycystis ussuriensis*
 – *bimum* Schreb. = *Bryum pseudotriquetrum* var. *bimum*
 – *cinclidioides* Hueb. = *Pseudobryum cinclidioides*
 – *confertidens* (Lindb. & H. Arnell) Kindb. = *Plagiommium confertidens*
 – *crudum* Hedw. = *Pohlia cruda*
 – *curvatulum* (Lindb.) Limpr. = *Plagiommium curvatulum*
 – *curculum* C. Muell. = *Trachycystis ussuriensis*
 – *cuspidatum* Hedw. = *Plagiommium cuspidatum*
 – *cuspidatum* var. *ciliare* Lindb. = *Plagiommium affine*
 – *cyclophyllum* Schwaegr. = *Bryum cyclophyllum*
 – *ellipticum* Brid. = *Plagiommium ellipticum*
 – *fontanum* Hedw. = *Philonotis fontana*
 – *hymenophylloides* Hueb. = *Cyrtomnium hymenophylloides*
 – *hymenophyllum* B.S.G. = *Cyrtomnium hymenophyllum*
 – *immarginatum* Broth. = *Trachycystis ussuriensis*
 – *lanatum* P. Beauv. = *Bryum argenteum*
 – *longirostre* Brid. = *Plagiommium rostratum*
 – *lycopodioides* auct. non Schwaegr. = *Mnium ambiguum*
 – *magnifolium* Horik. = *Rhizomnium magnifolium*
 – *magnirete* (Lindb. & Arnell) Kindb. = *Mnium ambiguum*
 – *medium* B.S.G. = *Plagiommium medium*
 – *medium* ssp. *curvatulum* (Lindb.) Kindb. = *Plagiommium curvatulum*
 – *medium* var. *integrifolium* Lindb. = *Plagiommium curvatulum*
 – *orthorrhynchum* auct. plur. = *Mnium thomsonii*
 – *paludosum* Warnst. = *Plagiommium ellipticum*
 – *palustre* Hedw. = *Aulacomnium palustre*
 – *pseudopunctatum* Bruch & Schimp. = *Rhizomnium pseudopunctatum*
 – *pseudotriquetrum* Hedw. = *Bryum pseudotriquetrum*
 – *punctatum* Hedw. = *Rhizomnium punctatum*
 – *punctatum* var. *elatum* Schimp. = *Rhizomnium magnifolium*
 – *riparium* Mitt. = *Mnium ambiguum*
 – *roseum* Hedw. = *Rhodobryum roseum*
 – *rostratum* Schrad. = *Plagiommium rostratum*
 – *rugicum* Laurer = *Plagiommium ellipticum*
 – *ruthenianum* Warnst. = *Plagiommium ellipticum*
 – *seligeri* Jur. = *Plagiommium elatum*
 – *serratum* Schrad. ex Brid. = *Mnium marginatum*
 – *silvaticum* Lindb. = *Plagiommium cuspidatum*
 – *spinosum* B.S.G. - excluded (115)
 – *stygium* (Sw.) B.S.G. = *Cinclidium stygium*
 – *subglobosum* B.S.G. = *Rhizomnium pseudopunctatum*
 – *turbinatum* Hedw. = *Bryum turbinatum*
 – *turgidum* Wahlenb. = *Aulacomnium turgidum*
 – *ussuriense* Maack & Regel = *Trachycystis ussuriensis*
Molendoo tenuinervis Limpr. = *Molendoo sendtneriana* (116)

- Mollia aeruginosa* (Sm.) Lindb. = *Gymnostomum aeruginosum*
 – *crispula* (Bruch) Lindb. = *Trichostomum crispulum*
 – *fragilis* (Hook. & Wils.) Lindb. = *Tortella fragilis*
 – *tortuosa* (Hedw.) Schrank & Lindb. = *Tortella tortuosa*
 – *tortuosa* var. *arctica* H.Arnell = *Tortella arctica*
 – *tortuosa* var. *inclinata* (Hedw. f.) Lindb. = *Tortella inclinata*
 – *viridula* Lindb. = *Weisia controversa*
Myrinia rotundifolia (H.Arnell) Broth. = *Myuroclada rotundifolia*
Myurella apiculata (Sommerf.) B.S.G. = *Myurella tenerrima*
 – *careyana* Sull. = *Myurella sibirica*
 – *gracilis* Lindb. = *Myurella sibirica*
Neckera oligocarpa Bruch = *Neckera pennata*
 – *pennata* var. *tennera* C.Muell. = *Neckera pennata*
 – *viticulosa* Hedw. = *Anomodon viticulosus* - excluded
Nycholmiella obtusifolia (Brid.) Holmen & E. Warncke = *Orthotrichum obtusifolium*
Oligotrichum cavifolium (Wils) H.Arnell = *Psilopilum cavifolium*
 – *glabratum* (Hook.) Lindb. = *Psilopilum laevigatum*
 – *incurvum* Lindb. = *Oligotrichum hercynicum*
 – *laevigatum* (Wahlenb.) B.S.G. = *Psilopilum laevigatum*
 – *laevigatum* var. *cavifolium* Frye = *Psilopilum cavifolium*
 – *tschutschicum* (C.Muell.) Kindb. = *Psilopilum cavifolium*
Oncophorus alpestris Lindb. = *Cnestrum alpestre*
 – *crispatus* (Dicks. ex With.) Lindb. = *Rhabdoweisia crispata*
 – *fallax* H.Moeller = *Cynodontium fallax*
 – *glaucescens* Lindb. & H.Arnell = *Cnestrum glaucescens*
 – *polycarpus* (Hedw.) Brid. = *Cynodontium polycarpon*
 – *schistii* (Web. & Mohr) Lindb. = *Cnestrum schistii*
 – *striatus* (Schrad.) Lindb. = *Rhabdoweisia fugax*
 – *strumifer* (Hedw.) Brid. = *Cynodontium strumiferum*
 – *torquescens* Lindb. & H.Arnell = *Cynodontium tenellum*
 – *wahlenbergii* var. *compactus* (B.S.G.) Braithw. = *Oncophorus compactus*
Orthodicranum fragilifolium (Lindb.) Podp. = *Dicranum fragilifolium*
Orthothecium complanatum Kindb. = *Orthothecium rufescens*
Orthotrichum arcticum Schimp. = *Orthotrichum pylaisii*
 – *blyttii* Schimp. = *Orthotrichum pylaisii*
 – *blyttii* var. *arcticum* (Schimp.) Hag. = *Orthotrichum pylaisii*
 – *cribrosum* C.Muell. = *Orthotrichum sordidum*
 – *curvifolium* Wahlenb. = *Ulotia curvifolia*
 – *fastigiatum* Bruch ex Brid. - excluded (117)
 – *imperfectum* C.Muell. = *Orthotrichum urnigerum*
 – *killiasii* C.Muell. = *Orthotrichum speciosum*
 – *perforatum* C.Muell. = *Orthotrichum sordidum*
 – *platyblephare* C.Muell. = *Orthotrichum speciosum*
 – *saxatile* Schimp. = *Orthotrichum anomalum*
 – *schubartianum* Lorentz = *Orthotrichum urnigerum*
 – *sibiricum* Groenv. = *Orthotrichum pallens*
 – *speciosum* var. *killiasii* (C.Muell.) Vent. = *Orthotrichum speciosum*
 – *subperforatum* C.Muell. = *Orthotrichum sordidum*
Oxyrrhynchium swartzii (Turn.) Warnst. = *Eurhynchium hians*
Oxystegus cylindricus (Bruch ex Brid.) Hilp. = *Oxystegus tenuirostris*
Phascum cuspidatum Hedw. = *Tortula atherodes*
Philocrya aspera Hag. & C.Jens. = *Lyellia aspera*
Philonotis alpicola Jur. = *Philonotis tomentella*
 – *anceps* Bryhn = *Philonotis tomentella*
 – *angustifolia* Kindb. = *Philonotis tomentella*
 – *capillaris* Lindb., pr.p. = *Philonotis arnellii*
 – *fontana* var. *capillaris* (Lindb.) Hueb. = *Philonotis arnellii*
 – *media* Bryhn = *Philonotis arnellii*
 – *mollis* Vent. = *Philonotis caespitosa*
 – *ryani* Philib. = *Philonotis arnellii*
 – *tenuis* (Boul.) Corb. = *Philonotis arnellii*
Plagiomnium medium ssp. *curvatulum* (Lindb.) T.Kop. = *Plagiomnium curvatulum*
Plagiopus oederi (Brid.) Limpr. = *Plagiopus oederiana*
Plagiothecium curvifolium Schlieph. ex Limpr. = *Plagiothecium laetum*
 – *denticulatum* var. *laetum* (B.S.G.) Lindb. = *Plagiothecium laetum*
 – *denticulatum* var. *obtusifolium* (Tuen.) Moore = *Plagiothecium denticulatum*
 – *domianum* (Sm.) Mitt. = *Plagiothecium denticulatum*
 – *elegans* (Brid.) Sull. = *Pseudotaxiphyllum elegans*
 – *piliferum* (Sw. ex Hartm.) B.S.G. - excluded (118)
 – *pulchellum* (Hedw.) B.S.G. = *Isopterygiopsis pulchella*
 – *pulchellum* var. *nitidum* (Wahlenb.) Renaud & Cardot = *Isopterygiopsis pulchella*
 – *roeseanum* B.S.G. = *Plagiothecium cavifolium*
 – *striatellum* (Brid.) Lindb. = *Herzogiella striatella*
 – *sylvaticum* (Brid.) B.S.G. - excluded
 – *sylvaticum* auct. non (Brid.) B.S.G. = *Plagiothecium cavifolium*
 – *sylvaticum* var. *roseanum* (B.S.G.) Walther & Molendo = *Plagiothecium cavifolium*
Plagiotheciella pilifera (Sw. ex Hartm.) M.Fleisch. = *Plagiothecium piliferum* - excluded
Platygyrium palatinum C.Jens. = *Platygyrium repens*
Pleurozygodon sibiricus H.Arnell = *Molendoa sendtneriana*
Pogonatum alpinum (Hedw.) Roehl. = *Polytrichastrum alpinum*
 – *capillare* (Michx.) Brid. = *Pogonatum dentatum*
 – *lorycalyx* (C.Muell.) Paris = *Pogonatum dentatum*
 – *microcapillare* C.Muell. = *Pogonatum dentatum*
 – *norvegicum* auct. non (Hedw.) P.Beauv. = *Polytrichastrum sexangulare*
Pohlia acuminata auct. non Hornsch. = *Pohlia elongata* var. *greenii*
 – *acuminata* Hornsch. = *Pohlia elongata*
 – *albicans* Lindb. = *Pohlia wahlenbergii*
 – *arctica* R.Br. = *Bryum arcticum*
 – *camptotrachela* (Renaud & Cardot) Broth. - excluded
 – *commutata* (Schimp.) Lindb. = *Pohlia drummondii*
 – *commutata* var. *filum* (Schimp.) Dusen = *Pohlia filum*
 – *crassidens* Lindb. = *Pohlia crudoides*
 – *cucullata* (Schwaegr.) Lindb. = *Pohlia obtusifolia*
 – *drummondii* var. *filum* (Schimp.) Podp. = *Pohlia filum*
 – *drummondii* var. *gracilis* (Bruch & Schimp.) Podp. = *Pohlia filum*
 – *elongata* var. *acuminata* (Hornsch.) Hueb. = *Pohlia elongata*
 – *elongata* var. *acuminata* auct. = *Pohlia elongata* var. *greenii*
 – *elongata* var. *minor* Hartm. = *Pohlia elongata* var. *greenii*
 – *elongata* var. *polymorpha* auct. = *Pohlia elongata* var. *greenii*
 – *filiformis* (Dicks.) A.L.Andrews = *Anomobryum julaceum*
 – *gracilis* (Schleich. ex B.S.G.) Lindb. = *Pohlia filum*
 – *gracilis* var. *torrentium* (Hag.) H.Arnell & C.Jens. = *Pohlia filum*
 – *inclinata* Brid. = *Bryum imbricatum*
 – *intermedia* Brid. = *Bryum intermedium*
 – *minor* Schleich. ex Schwaegr. = *Pohlia elongata* var. *greenii*
 – *polimorpha* Hornsch. = *Pohlia elongata*
 – *polymorpha* auct. non Hornsch. = *Pohlia elongata* var. *greenii*

- *pulchella* (Hedw.) Lindb. = *Pohlia lescuriana*
- *purpurascens* R.Br. = *Bryum purpurascens*
- *rothii* (Correns ex Limpr.) Broth. = *Pohlia filum*
- *rothii* auct. non (Correns ex Limpr.) Broth. = *Pohlia andalusica*
- *rutilans* (Schimp.) Lindb. = *Pohlia schimperii*
- *torrentium* (Hag.) Broth. = *Pohlia filum*
- *marginata* (Dicks.) Loeske = *Mnium marginatum*
- Polla orthorrhynha* (Brid.) Brid. ex Loeske = *Mnium thomsonii*
- *riparia* (Mitt.) Loeske = *Mnium ambiguum*
- *serrata* (Schrad. ex Brid.) Brid. ex Loeske = *Mnium marginatum*
- *spinosa* (Voit.) Brid. ex Loeske = *Mnium spinosum*
- *stellaris* (Hedw.) Loeske = *Mnium stellare*
- Polytrichastrum fragile* (Bryhn) Schljakov = *Polytrichastrum alpinum* var. *fragile*
- Polytrichum affine* Funck = *Polytrichum strictum*
- *algidum* Hag. & C.Jens. = *Polytrichum swartzii*
- *alpestre* Hoppe = *Polytrichum strictum*
- *alpinum* Hedw. = *Polytrichastrum alpinum*
- *alpinum* var. *fragile* (Bryhn) Nyholm = *Polytrichastrum alpinum* var. *fragile*
- *alpinum* var. *septentrionale* (Brid.) Lindb. = *Polytrichastrum norwegicum*
- *capillare* Michx. = *Pogonatum dentatum*
- *cavifolium* Wils. = *Psilopilum cavifolium*
- *commune* var. *humile* Sw. = *Polytrichum commune*
- *commune* var. *jensenii* (Hag.) Moenk. = *Polytrichum jensenii*
- *commune* var. *nigrescens* Warnst. = *Polytrichum swartzii*
- *commune* var. *perigoniale* (Michx.) Hampe = *Polytrichum commune*
- *commune* var. *swartzii* (Hartm.) Nyholm = *Polytrichum swartzii*
- *commune* var. *uliginosum* Wallr. = *Polytrichum commune*
- *formosum* Hedw. = *Polytrichastrum formosum*
- *fragile* Bryhn = *Polytrichastrum alpinum* var. *fragile*
- *fragilifolium* H.Lindb. = *Polytrichum jensenii*
- *gracile* Dicks. = *Polytrichastrum longisetum*
- *hercynicum* Hedw. = *Oligotrichum hercynicum*
- *inconstans* Hag. = *Polytrichum swartzii*
- *juni-perinum* var. *affine* (Funck) Brid. = *Polytrichum strictum*
- *juni-perinum* var. *alpestre* (Hoppe) Roehl. = *Polytrichum strictum*
- *juni-perinum* var. *gracilius* Wahlenb. = *Polytrichum strictum*
- *laevigatum* Wahlenb. = *Psilopilum laevigatum*
- *longisetum* Sw. ex Brid. = *Polytrichastrum longisetum*
- *loricalyx* C.Muell. = *Pogonatum dentatum*
- *micro-capillare* C.Muell. = *Pogonatum dentatum*
- *norvegicum* auct. non Hedw. = *Polytrichastrum sexangulare*
- *perigoniale* Michx. = *Polytrichum commune*
- *piliferum* var. *hyperboreum* (R.Br.) C.Muell. = *Polytrichum hyperboreum*
- *pilosum* Neck. ex Lindb. = *Polytrichum piliferum*
- *sexangulare* Floerke ex Brid. = *Polytrichastrum sexangulare*
- *strictum* var. *alpestre* (Hoppe) Rabenh. = *Polytrichum strictum*
- *swartzii* var. *nigrescens* Hag. = *Polytrichum swartzii*
- *undulatum* Hedw. = *Atrichum undulatum* - excluded
- *urnigerum* Hedw. = *Pogonatum urnigerum*
- Pottia heimii* (Hedw.) Fuernr. = *Henediella heimii*
- *heimii* var. *arctica* Lindb. = *Henediella heimii* var. *arctica*
- *heimii* var. *obtusifolia* (C.Muell.) Hag. = *Henediella heimii* var. *arctica*
- *lanceolata* (Hedw.) C.Muell. = *Tortula lanceolata*
- *latifolia* (Schwaegr.) C.Muell. = *Stegonia latifolia*
- *obtusifolia* C.Muell. = *Henediella heimii* var. *arctica*
- Pseudocalliergon brevifolius* (Lindb.) Hedenaes = *Drepanocladus brevifolius*
- *lycopodioides* (Brid.) Hedenaes = *Drepanocladus lycopodioides*
- Pseudoleskea atrovirens* B.S.G. = *Pseudoleskea incurvata*
- *catenulata* (Brid. ex Schrad.) B.S.G. = *Pseudoleskeella catenulata*
- *filamentosa* (Dicks. ex With.) C.Jens. = *Pseudoleskea incurvata*
- *tectorum* (Funck ex Brid.) Schimp. = *Pseudoleskeella tectorum*
- Pseudoleskeella sibirica* (H.Arnell) Wilson & Norris = *Pseudoleskeella rupestris*
- Pseudostereodon procerrimum* (Molendo) M.Fleisch. = *Ctenidium procerrimum*
- Psilopilum arcticum* Brid. = *Psilopilum laevigatum*
- *cavifolium* var. *anomalum* (Hag.) Broth. = *Psilopilum cavifolium*
- *falcatum* (Steere) Crum & al. = *Oligotrichum falcatum*
- *glabratum* Holz. = *Psilopilum laevigatum*
- Pterigynandrum catenulatum* Brid. ex Schrad. = *Pseudoleskeella catenulata*
- *deci-piens* (Web. & Mohr) Lindb. = *Pseudoleskeella filiforme*
- *filiforme* var. *deci-piens* (Web. & Mohr) Limpr. = *Pterigynandrum filiforme*
- *nervosum* Brid. = *Pseudoleskeella nervosa*
- *repens* Brid. = *Platygyrium repens*
- Pterogonium nervosum* (Brid.) Schwaegr. = *Pseudoleskeella nervosa*
- *tectorum* A.Br. = *Pseudoleskeella tectorum*
- Pterygoneurum arcticum* Steere = *Pterygoneurum lamellatum*
- Ptychostomum pendulum* Hornsch. = *Bryum algovicum*
- Pylaisia alpicola* (Lindb. & H.Arnell) Limpr. = *Isopterygiopsis alpicola*
- *polyantha* (Hedw.) Schimp. = *Pylaisiella polyantha*
- Racomitrium andreaeopsis* (C.Muell.) Broth. = *Schistidium andreaeopsis*
- *canescens* var. *epilosum* H.Moell. ex Milde = *Racomitrium ericoides*
- *canescens* var. *ericoides* (Hedw.) Hampe = *Racomitrium ericoides*
- *canescens* var. *robustum* (Lindb. & H.Arnell) Paris = *Racomitrium panschii*
- *canescens* var. *strictum* Schlieph. = *Racomitrium ericoides*
- *canescens* var. *vulgare* Loeske = *Racomitrium canescens*
- *ericoides* var. *canescens* (Hedw.) Lindb. = *Racomitrium canescens*
- *heterostichum* (Hedw.) Brid. - excluded (119)
- *heterostichum* var. *microcarpon* (Hedw.) Boulay = *Racomitrium microcarpon*
- *heterostichum* var. *sudeticum* (Funck) Baur = *Racomitrium sudeticum*
- *hypnoides* Lindb. = *Racomitrium lamuginosum*
- *lanuginosum* var. *subimberbe* (Hartm.) Hartm. = *Racomitrium lamuginosum*
- *ramulosum* Lindb. = *Racomitrium microcarpon*
- *virescens* Lindb. = *Racomitrium fasciculare*
- Rhabdoweisia denticulata* B.S.G. = *Rhabdoweisia crispata*
- *kusenevae* Broth. = *Rhabdoweisia crispata*
- *schistii* (Web. & Mohr) B.S.G. = *Cnestrum schistii*
- *striata* (Schrad.) Kindb. = *Rhabdoweisia fugax*
- Rhizomnium perssonii* T.Kop. = *Rhizomnium magnifolium*
- *punctatum* var. *elatum* (Schimp.) T.Kop. = *Rhizomnium magnifolium*
- Rhytidiadelphus calvescens* (Kindb.) Broth. = *Rhytidiadelphus subpinnatus*
- *squarrosus* var. *calvescens* (Kindb.) Warnst. = *Rhytidiadelphus subpinnatus*

- Saelania caesia* (Vill. ex P.Beauv.) Lindb. = *Saelania glaucescens*
Sarmentypnum sarmentosum (Wahlenb.) Tuom. & T.Kop. = *Warnstorfia sarmentosa*
Schistidium alpicola (Hedw.) Limpr. = *Schistidium agassizii*
 – *alpicola* non (Hedw.) Limpr. = *Schistidium rivulare*
 – *alpicola* var. *dupretii* (Ther.) Crum = *Schistidium apocarpum*
 – *alpicola* var. *latifolia* (J.E.Zetterst.) Limpr. = *Schistidium rivulare* var. *latifolia*
 – *angustum* Hag. = *Schistidium agassizii*
 – *anodon* (B.S.G.) Loeske = *Grimmia anodon*
 – *apocarpum* var. *alpicola* (Hedw.) De Not. = *Schistidium agassizii*
 – *apocarpum* var. *atrofusum* (Schimp.) C.Jens. ex Weinm. = *Schistidium apocarpum*
 – *apocarpum* var. *gracile* (Roehl.) B.S.G. = *Schistidium strictum*
 – *atrofusum* (Schimp.) Limpr. = *Schistidium apocarpum*
 – *confertum* (Funck) B.S.G. = *Schistidium apocarpum* var. *confertum*
 – *gracile* (Roehl.) Limpr. = *Schistidium strictum*
 – *holmenianum* Steere & Brassard = *Schistidium andreaeopsis*
 – *lineare* (Chal.) Limpr. = *Schistidium agassizii*
Schistophyllum adianthoides (Hedw.) Lindb. = *Fissidens adianthoides*
 – *bryoides* (Hedw.) Lindb. = *Fissidens bryoides*
 – *incurvum* ssp. *viridulum* (Sw.) Lindb. = *Fissidens viridulus*
 – *osmundoides* (Hedw.) Lindb. = *Fissidens osmundoides*
Scorpidium cossonii (Schimp.) Hedenaes = *Limprichtia cossonii*
 – *lapponicum* (Norrl.) Tuom. & T.Kop. = *Hamatocaulis lapponicus*
 – *latifolium* (Lindb. & H.Arnell) Paul = *Drepanocladus brevifolius*
 – *revolvens* (Sw. ex Anonymo) Hedenaes = *Limprichtia revolvens*
 – *turgescens* (T.Jens.) Loeske = *Pseudocalliergon turgescens*
 – *vermicosus* (Mitt.) Tuom. = *Hamatocaulis vermicosus*
Scouleria pulcherrima Broth. = *Scouleria aquatica*
 – *rschewinii* Lindb. & H.Arnell = *Scouleria aquatica*
Sphaerocephalus acuminatus Lindb. & H.Arnell = *Aulacomnium acuminatum*
 – *palustris* (Hedw.) Lindb. = *Aulacomnium palustre*
 – *turgidus* (Wahlenb.) Lindb. = *Aulacomnium turgidum*
Sphagnum acutifolium Schrad. = *Sphagnum capillifolium*
 – *acutifolium* var. *fuscum* Schimp. = *Sphagnum fuscum*
 – *acutifolium* var. *robustum* Russow = *Sphagnum russoëii*
 – *amblyphyllum* (Russow) Warnst. = *Sphagnum flexuosum*
 – *amblyphyllum* var. *parvifolium* (Sendtn. ex Warnst.) Warnst. = *Sphagnum angustifolium*
 – *annulatum* Warnst. = *Sphagnum jensenii*
 – *apiculatum* H.Lindb. = *Sphagnum fallax*
 – *auriculatum* Aongstr. = *Sphagnum platyphyllum*
 – *capillaceum* (Weiss) Schrank = *Sphagnum capillifolium*
 – *capillifolium* var. *tenellum* (Schimp.) Crum = *Sphagnum rubellum*
 – *dusenii* (C.Jens.) Russow & Warnst. = *Sphagnum majus*
 – *intermedium* Hoffm. = *Sphagnum fallax*
 – *intermedium* (Warnst.) Russow = *Sphagnum centrale*
 – *intermedium* var. *pulchrum* Lindb. = *Sphagnum pulchrum*
 – *isophyllum* (Russow) Russow = *Sphagnum platyphyllum*
 – *laricinum* (Wils.) Spruce ex Lindb. = *Sphagnum contortum*
 – *lindbergii* var. *microphyllum* Warnst. = *Sphagnum lenense*
 – *medium* Limpr. = *Sphagnum magellanicum*
 – *nemoreum* Scop. = *Sphagnum capillifolium*
 – *palustre* L. - excluded (120)
 – *parvifolium* (Sendtn. ex Warnst.) Warnst. = *Sphagnum angustifolium*
 – *recurvum* P.Beauv. p.p. = *Sphagnum fallax*
 – *recurvum* ssp. *balticum* Russow = *Sphagnum balticum*
 – *recurvum* var. *amblyphyllum* (Russow) Warnst. = *Sphagnum flexuosum*
 – *recurvum* var. *angustifolium* Warnst. = *Sphagnum angustifolium*
 – *recurvum* var. *mucronatum* (Russow) Warnst. = *Sphagnum fallax*
 – *recurvum* var. *parvifolium* (Sendtn. ex Warnst.) Warnst. = *Sphagnum angustifolium*
 – *recurvum* var. *tenue* H.Klinggr. = *Sphagnum angustifolium*
 – *rigidum* (Nees & Hornsch.) Schimp. = *Sphagnum compactum*
 – *robustum* (Warnst.) Roell = *Sphagnum russoëii*
 – *squarrosus* var. *teres* Schimp. = *Sphagnum teres*
 – *strictum* Lindb. = *Sphagnum girgensohnii*
 – *subbicolor* Hampe = *Sphagnum centrale*
 – *subsecundum* var. *contortum* (Schultz) Hueb. = *Sphagnum contortum*
 – *subtile* (Russow) Warnst. = *Sphagnum capillifolium*
 – *warnstorffianum* Du Rietz = *Sphagnum warnstorffii*
Splachnum adamsianum Hornsch. = *Tetraplodon paradoxus*
 – *angustatum* Hedw. = *Tetraplodon angustatus*
 – *froelichianum* Hedw. = *Tayloria froelichiana*
 – *lingulatum* Dicks. = *Tayloria lingulata*
 – *nnioides* Hedw. = *Tetraplodon nnioides*
 – *ovatum* Hedw. = *Splachnum sphaericum*
 – *paradoxum* R.Br. = *Tetraplodon paradoxus*
 – *pedunculatum* Lindb. = *Splachnum sphaericum*
 – *tenue* Dicks. ex With. = *Tayloria tenuis*
 – *urceolatum* Hedw. = *Tetraplodon urceolatus*
 – *wormskioldii* Hornem. = *Aplodon wormskioldii*
Stegonia latifolia var. *pilifera* (Dicks.) Broth. = *Stegonia pilifera*
Stellarionium blyttii (B.S.G.) M.C.Bowers = *Mnium blyttii*
 – *stellare* (Hedw.) M.C.Bowers = *Mnium stellare*
Stereodon adscendens Lindb. = *Herzogiella adscendens*
 – *alpicola* Lindb. & H.Arnell = *Isopterygiopsis alpicola*
 – *arcuatus* Lindb. = *Calliergonella lindbergii*
 – *bambergeri* (Schimp.) Lindb. = *Hypnum bambergeri*
 – *callichroum* (Brid.) Braithw. = *Hypnum callichroum*
 – *chryseus* (Schwaegr.) Mitt. = *Orthothecium chryseon*
 – *cupressiformis* (Hedw.) Brid. ex Mitt. = *Hypnum cupressiforme*
 – *cupressiformis* var. *vaucheri* (Lesq.) Lindb. & H.Arnell = *Hypnum vaucheri*
 – *fastigiatum* (Brid.) Braithw. = *Hypnum recurvatum*
 – *haldaniamus* (Grev.) Lindb. ex Broth. = *Callicladium haldanianum*
 – *hamulosus* (B.S.G.) Lindb. = *Hypnum hamulosum*
 – *plicatilis* Mitt. = *Hypnum revolutum*
 – *plicatulus* Lindb. = *Hypnum plicatulum*
 – *recurvatus* Lindb. & H.Arnell = *Hypnum recurvatum*
 – *revolutum* Mitt. = *Hypnum revolutum*
 – *richardsonii* Mitt. = *Calliergon richardsonii*
 – *rubellus* Mitt. = *Orthothecium strictum*
 – *rufescens* (Dicks. ex Brid.) Mitt. = *Orthothecium rufescens*
 – *subrufus* Lindb. = *Orthothecium intricatum*
Straminergon stramineum (Brid.) Hedenaes = *Calliergon stramineum*
Stroemia obtusifolia (Brid.) Hag. = *Orthotrichum obtusifolium*
Szwartzia hagenii (Ryan ex Philib.) H. Moeller = *Distichium hagenii*

- *inclinata* (Hedw.) P.Beauv. = *Distichium inclinatum*
- *montana* Lindb. = *Distichium capillaceum*
- Syntrichia leptopyxis* (C.Muell.) Laz. = *Tortula mucronifolia*
- *mucronifolia* (Schwaegr.) Brid. = *Tortula mucronifolia*
- Tayloria splachmoides* var. *acuminata* (Hornsch.) Hueb. = *Tayloria acuminata*
- Tetraphis trachypoda* (Kindb.) Laz. = *Tetraphis pellucida*
- Tetraplodon bryoides* Lindb. = *Tetraplodon mnioides*
- *bryoides* var. *paradoxus* (R.Br.) Hag. = *Tetraplodon paradoxus*
- *mnioides* var. *adamsianus* (Hornsch.) C.Muell. = *Tetraplodon paradoxus*
- *mnioides* var. *pallidus* (Hag.) L. Savicz & Smirnova, nom. invalid. = *Tetraplodon pallidus*
- *mnioides* var. *paradoxus* (R.Br.) C.Jens. = *Tetraplodon paradoxus*
- *muelleri* (C.Muell.) Lindb. & H.Arnell = *Tetraplodon paradoxus*
- *tschuctschicus* C.Muell. = *Aplodon wormskioldii*
- *tschuctschicus* (C.Muell.) Lindb. = *Tetraplodon paradoxus*
- *wormskioldii* (Hornem.) Lindb. = *Aplodon wormskioldii*
- Thuidium abietinum* (Hedw.) B.S.G. = *Abietinella abietina*
- *blandowii* (Web. & Mohr) B.S.G. = *Helodium blandowii*
- *decipiens* DeNot. = *Palustriella decipiens*
- *delicatulum* (Hedw.) B.S.G. - excluded
- *delicatulum* var. *radicans* (Kindb.) Crum & al. = *Thuidium philibertii*
- *lanatum* (Stoerm ex Brid.) Hag. = *Helodium blandowii*
- Timmia arctica* Kindb. = *Timmia austriaca* var. *arctica*
- *cucullata* Michx. = *Timmia megalopolitana*
- *elegans* Hag. = *Timmia comata*
- Tortella brotheri* (Lindb. ex Broth.) Broth. = *Tortella tortuosa*
- *cylindrica* (Bruch ex Brid.) Loeske = *Oxystegus tenuirostris*
- *tenuirostris* (Hook. & Taylor) C.Jens. = *Oxystegus tenuirostris*
- *tortuosa* var. *arctica* (H.Arnell) Broth. = *Tortella arctica*
- *viridula* C.Jens. = *Weissia controversa*
- Tortula aciphylla* (Bruch & Schimp.) Hartm. = *Syntrichia norvegica*
- *brevirostris* Hook. & Grev. = *Aloina brevirostris*
- *bullata* (Sommerf.) Lindb. = *Stegonia pilifera*
- *bullata* var. *mutica* (Lindb.) Lindb. = *Stegonia latifolia*
- *heimii* (Hedw.) Mitt. = *Hemmediella heimii*
- *heimii* var. *arctica* (Lindb.) Lindb. & H.Arnell = *Hemmediella heimii* var. *arctica*
- *heimii* var. *longiseta* Lindb. & H.Arnell = *Hemmediella heimii*
- *latifolia* (Hedw.) Lindb. = *Tortula eurypphylla*
- *laureri* (Schultz) Lindb. = *Tortula laureri*
- *leptopyxis* (C.Muell.) Lindb. & H.Arnell = *Tortula mucronifolia*
- *norvegica* (Web. f.) Lindb. = *Syntrichia norvegica*
- *reflexa* Brid. = *Didymodon ferrugineus*
- *rigidula* (Hedw.) Lindb. = *Didymodon rigidulus*
- *ruralis* (Hedw.) Gaertn. & al. = *Syntrichia ruralis*
- *ruralis* var. *alpina* Wahlenb. = *Syntrichia norvegica*
- *suberecta* Hook. = *Tortula leucostoma*
- *subulata* var. *laevifolia* Lindb. = *Tortula mucronifolia*
- *tortuosa* Hedw. = *Tortella tortuosa*
- Trachycystis arcuata* Laz. = *Trachycystis ussuriensis*
- *immarginata* (Broth.) Laz. = *Trachycystis ussuriensis*
- Trichodon cylindricus* (Hedw.) Schimp. = *Ditrichum cylindricum*
- Trichostomum alpigenum* Vent. = *Bryoerythrophyllum alpigenum*
- *canescens* Hedw. = *Racomitrium canescens*
- *cuspidatissimum* Cardot & Ther. = *Trichostomum arcticum*
- *cylindricum* (Bruch ex Brid.) C.Muell. = *Oxystegus tenuirostris*
- *cylindricum* Hedw. = *Ditrichum cylindricum*
- *fasciculare* Hedw. = *Racomitrium fasciculare*
- *funale* Schwaegr. = *Grimmia funalis*
- *glaucescens* Hedw. = *Saelania glaucescens*
- *homomallum* (Hedw.) B.S.G. = *Ditrichum heteromallum*
- *inclinatum* (Hedw.) Dix. = *Tortella inclinata*
- *lanuginosum* Hedw. = *Racomitrium lanuginosum*
- *laureri* Schultz = *Tortula laureri*
- *microcarpum* Hedw. = *Racomitrium microcarpum*
- *obliquum* C.Muell. = *Tortula leucostoma*
- *rigidulum* (Hedw.) Turn. = *Didymodon rigidulus*
- *sudeticum* Funck = *Racomitrium sudeticum*
- *tenuirostre* (Hook. & Taylor) Lindb. = *Oxystegus tenuirostris*
- *tortuosum* (Hedw.) Dix. = *Tortella tortuosa*
- Voitia nivalis* var. *hyperborea* (Grev. & Arnott) Schimp. = *Voitia hyperborea*
- Webera affinis* Bruch = *Bryum creberrimum*
- *albicans* Schimp. = *Pohlia wahlenbergii*
- *annotina* (Hedw.) Bruch = *Pohlia annotina*
- *bulbifera* Warnst. = *Pohlia bulbifera*
- *commutata* Schimp. = *Pohlia drummondii*
- *commutata* var. *lindbergii* (Warnst.) C.Jens. = *Pohlia drummondii*
- *crassidens* (Lindb.) Kindb. = *Pohlia crudoides*
- *cruda* (Hedw.) Fuernr. = *Pohlia cruda*
- *crudoides* (Sull. & Lesq.) Jaeger = *Pohlia crudoides*
- *cucullata* (Schwaegr.) Schimp. = *Pohlia obtusifolia*
- *drummondii* (C.Muell.) Jaeger = *Pohlia drummondii*
- *elongata* (Hedw.) Schwaegr. = *Pohlia elongata*
- *longicollis* Hedw. = *Pohlia longicollis*
- *mutans* Hedw. = *Pohlia mutans*
- *polymorpha* (Hoppe & Hornsch.) Schimp. = *Pohlia elongata*
- *pomiformis* Hedw. = *Bartramia pomiformis*
- *proligerica* Kindb. = *Pohlia proligerica*
- *pyriformis* Hedw. = *Leptobryum pyriforme*
- *rutilans* Schimp. = *Pohlia schimperi*
- *schimperi* (C. Muell) Schimp. = *Pohlia schimperi*
- *sphagnicola* (B.S.G.) Schimp. = *Pohlia sphagnicola*
- *tenuifolia* (Schimp.) Bryhn = *Pohlia bulbifera*
- Weisia acuta* Hedw. = *Blindia acuta*
- *crispula* Hedw. = *Dicranoweisia crispula*
- *curvifolia* (Wahlenb.) Lindb. = *Ulotia curvifolia*
- *cylindrica* Bruch ex Brid. = *Oxystegus tenuirostris*
- *denticulata* Brid. = *Rhabdoweisia crispata*
- *fugax* Hedw. = *Rhabdoweisia fugax*
- *heteromalla* Hedw. = *Ditrichum heteromallum*
- *latifolia* Schwaegr. = *Stegonia latifolia*
- *longipes* Sommerf. = *Aongstroemia longipes*
- *martiana* Hoppe & Hornsch. = *Oreas martiana*
- *nigrita* Hedw. = *Catoscopium nigritum*
- *recurvirostra* Hedw. = *Bryoerythrophyllum recurvirostrum*
- *schistii* (Web & Mohr) Brid. = *Cnestrum schistii*
- *viridissima* Brid. = *Bartramia subulata*
- *viridula* Hedw. ex Brid. = *Weissia controversa*
- *rupestris* (Schleich. ex Schwaegr.) C.Muell. = *Gymnostomum aeruginosum*
- Zieria demissa* (Hook.) Schimp. = *Plagiobryum demissum*
- *julacea* Schimp. = *Plagiobryum zierii*
- Zygodon lapponicus* (Hedw.) B.S.G. = *Amphidium lapponicum*
- *mougeotii* B.S.G. = *Amphidium mougeotii*
- *sendtnerianus* (B.S.G.) C.Muell. = *Molendoo sendtneriana*

ANNOTATIONS

1. *Amblyodon dealbatus* was found in the Russian Arctic in the single locality in Chukotka Peninsula (Afonina, 1989a).
2. The genus *Andreaea* is treated according to Murray (1987).
3. *Andreaea alpestris* is reported from Taimyr (Uboinaya River) by Kannukene (unpubl.).
4. *Arctoa andersonii* is reported from Taimyr by Kannukene (unpubl.).
5. The record of *Atrichum tenellum* from Novosibirskiye Islands by Stepanova (1986) seems doubtful.
6. *Brachythecium latifolium* is reported from Taimyr by Kannukene (unpubl.).
7. *Brachythecium oedipodium* is found in the Russian Arctic only in the Polar Ural (Czernyadjeva, 1994a).
8. *Brachythecium populeum* is reported from Koguev Island by Abramova & al. (1961). No specimens have been found in LE.
9. Some bryologists consider *Brachythecium udum* as a variety of *B. mildeanum*. The status of this taxon needs further studies.
10. For the status of *Breidleria pratensis* see Hedenaes (1992b).
11. *Bryoerythrophyllum alpigenum* was reported for Chukotka Peninsula by Mueller (1883). One of two specimens cited by Mueller in his work was reidentified by Abramova & Abramov (1980) as *B. recurvirostrum*.
12. *Bryoerythrophyllum ferruginascens* has been reported for Franz Josef Land (Guker Island) by Savicz (1936b). Afonina has found it also on Wrangel Island (det. Zander).
13. *Bryoerythrophyllum recurvirostrum* var. *brevifolium* was described by Lindberg & Arnell (as *Barbula rubella* var. *brevifolia*) from the outflow of Yenisey River. This is so far the only locality in the Russian Arctic.
14. *Bryoerythrophyllum rotundatum* was described by Lindberg & Arnell (1890) from the outflow of Yenisey River. This is so far the only locality in the Russian Arctic.
15. *Bryoerythrophyllum rubrum* is reported for Chukotka Peninsula by Podpera (1954) and Abramova & al. (1961). No specimens of this species have been found in LE.
16. *Bryum calcicola* was described by Arnell (1898) from Lower Yenisey River and later was reported from Lower Lena River (Kumakh-Surt) (Arnell, 1913).
17. *Bryum ehlei* described by Arnell (1913) from Lower Lena River and known so far only by type material.
18. Savicz-Lyubitskaya (1966) replace illegitimate name *Bryum papillosum* G. Roth by new name *Bryum ekstamii*. This species was reported by Savicz-Lyubitskaya and Smirnova (1970) from Novaya Zemlya. No specimens have been found in LE.
19. The single locality of *Bryum funckii* in the Russian Arctic is in Gydan Peninsula (Czernyadjeva, 1994b).
20. *Bryum microblastum*, *B. pootenianum* and *B. utriculatum* described by Mueller (1883) from Chukotka Peninsula are doubtful species (Abramova & Abramov, 1980).
21. *Bryum mirabile* was described by Mueller (1883) from Chukotka Peninsula. Abramova & Abramov (1980) synonymized it with *Bryum arcticum*. However the illustration of *B. mirabile* in "Handbook of mosses of Arctic of the USSR" (Abramova & al., 1961), based on Gorodkov's specimen from Wrangel Island, represents another species (Abramova & Abramov, 1980).
22. *Bryum obtusidens* was described by Arnell (1913) from Lower Lena River (Kumakh-Surt).
23. *Bryum salinum* is reported from the Polar Ural by Ruprecht (1856).
24. *Bryum serotinum* was described by Lindberg & Arnell (1890) from Lower Yenisey River. This is the only locality in the Russian Arctic.
25. *Bryum subneodamense* is good taxon on our opinion, clear distincts from *B. neodamense* and merits specific rank. Probably it has widespread distribution in the Russian Arctic especially in the high latitudes.
26. *Bryum taimyrense* was described by Brotherus & Bryhn (Brotherus, 1910) from Taimyr Peninsula. It was also reported by Stepanova (1986) in the Arctic Yakutia.
27. *Bryum turbinatum* is reported for the Russian Arctic only from the Polar Ural (Dyachenko, 1989b).
28. *Bryum zemliae* was described by Arnell (Jaederholm, 1901) from Novaya Zemlya. Corley & al. (1981) regard it as a synonym of *Bryum inclinatum*, however we retain it until further studies.
29. We disagree with the segregation of *Calliergon stramineum* into monotypic genus *Straminergon* (Hedenaes, 1993a).
30. Hedenaes (1990b) demonstrates the sufficient similarities of *Calliergonella lindbergii* (*Hypnum lindbergii*) and *C. cuspidata*, and places them in one genus.
31. *Campylium halleri* is reported from the Russian Arctic from the only one locality in Taimyr Peninsula (Blagodatskich (1973a).
32. The records of *Campylium hispidulum* from the Russian Arctic are doubtful. Probably they are based on misidentifications of *Campylium calcareum*.
33. The taxonomy of *Campylium longicuspis* was recently discussed by Hedenaes (1989a).
34. We disagree with Mogensen (1973) who considers *Cinclidium minutifolium* as a synonym of *C. latifolium*.
35. In the Russian Arctic *Dicranodontium denudatum* was found in a single locality in Chukotka (Afonina, 1995).
36. In delimitation of *Dicranum congestum* and *D. fuscescens* we follow Savicz-Lyubitskaya and Smirnova (1970).
37. *Dicranum muehlenbeckii* is known from the Russian Arctic on the literature data only. In boreal zone this species seems rather constant, but it is not so in Arctic. The arctic material is required further revision.
38. Numerous records *Dicranum scoparium* from the Russian Arctic seems doubtful. Our field observations in many regions reveal the absence of this species in all of them, except Chukotka, where it is extremely rare.
39. *Didymodon fallax* is reported from the Russian Arctic only from Yakutia (Egorova & al., 1991).
40. *Didymodon giganteus* is reported from Kumakh-Surt

- (KH) by Savicz-Lyubitskaya (1961).
41. *Didymodon maximus* was collected in Wrangel Island by Afonina (LE) and identified by Zander.
 42. In the Russian Arctic *Didymodon subandreaeoides* was found only in Chukotka (Afonina, LE).
 43. *Didymodon vinealis* is reported from the Russian Arctic only from Sasyllakh, Anabar-Olenek Region (Egorova & al., 1991).
 44. Hedenaes (1992a) includes *Drepanocladus brevifolius* and *D. lycopodioides* in *Pseudocalliergon*, but we prefer to follow Loeske (1907) and retain these two species in *Drepanocladus*.
 45. Records of *Drepanocladus lycopodioides* from the Russian Arctic are doubtful and probably belong to *D. brevifolius*.
 46. *Encalypta ciliata* is reported from Kanin-Pechora region by Ruprecht (1856).
 47. *Encalypta mutica* is found in the Russian Arctic only in Yamal Peninsula (Czernyadjeva, LE).
 48. *Eurhynchium hians* is reported for the outflow of Lena River by Arnell (1913).
 49. *Fissidens arcticus* is reported from the Russian Arctic only from Taimyr Peninsula by Kannukene (unpubl.).
 50. *Fissidens minutulus* is reported from Russian Arctic only in Sasyllakh, Anabar-Olenek Region (Stepanova, 1986).
 51. The records of *Fontinalis antipyretica* var. *gracilis* and *F. dalecarlica* from the Polar Ural need a confirmation. No specimens have been found in LE.
 52. *Gymnostomum aeruginosum* is reported from the Russian Arctic from Lower Lena River and Chukotka by Arnell (1913).
 53. The genus *Hamatocaulis* was described and discussed by Hedenaes (1989b).
 54. *Herzogiella turfacea* is reported from the Russian Arctic only from Arctic Yakutia (Stepanova, 1986).
 55. *Heterocladium dimorphum* is reported from the Russian Arctic only from Polar Ural (Abramova & al., 1961). No specimens have been found in LE.
 56. The distribution of *Heterocladium procurrans* in USSR is discussed by Abramova & Volkova (1972).
 57. *Hypnum imponens* is reported from the Russian Arctic only from Arctic Yakutia (Stepanova, 1986). These records seem doubtful.
 58. *Hypnum pallescens* is reported from the Russian Arctic only from Arctic Yakutia (Stepanova, 1986).
 59. *Kiaeria falcata* is reported from the Russian Arctic only from Polar Ural (Dyachenko, 1989b).
 60. *Leucodon sciurooides* is reported from the Russian Arctic only from Polar Ural (Abramova & al., 1961). No specimens have been found in LE.
 61. The taxonomy of *Loeskypnum badium* and *L. wickesii* have been discussed by Hedenaes (1993b).
 62. The distribution of *Lyellia aspera* in Russia is mapped by Afonina & Andreeva (1993); later this species was found also in Wrangel Island (Afonina, LE).
 63. *Mielichhoferia mielichhoferiana* is found in the Russian Arctic only in Chukotka Peninsula (Afonina, 1980, 1989a).
 64. Records of *Mnium stellare* from the Russian Arctic seems doubtful, probably all of them belong to *M. blyttii*.
 65. *Myuroclada rotundifolia* is a local endemic of the Lower Lena River (Arnell, 1913). Its systematic position was discussed by Abramova & Abramov (1968).
 66. *Oreas martiana* is found in the Russian Arctic only in on Chukotka Peninsula (Afonina, 1987).
 67. Specimens with *Orthotrichum obtusifolium*, *O. pallens*, *O. pellucidum* and *O. sordidum* were verified or identified by Lewinsky-Haapasaari.
 68. *Orthotrichum urnigerum* is reported from the Russian Arctic only from Chukotka Peninsula (Abramova & Abramov, 1980).
 69. The genus *Palustriella* is described and discussed by Ochyra (1989).
 70. *Palustriella commutata* is reported from the Polar Ural (Abramova & al., 1961), but no specimens have been found in LE; the record of this species from Chukotka (Ignatov, Afonina, 1992) is erroneous.
 71. *Palustriella decipiens* is reported from the Russian Arctic only from the Tiksi Bay, Arctic Yakutia (Egorova & al., 1991).
 72. *Plagiomnium confertidens* is reported from the Russian Arctic only from the Polar Ural (Abramova & al., 1961).
 73. Specimen reported as *Plagiopus oederiana* from Lower Lena River (Arnell, 1913) appears to be *Bartramia pomiformis*.
 74. The distribution of *Plagiothecium berggrenianum* is discussed by Ukrainskaya (1995).
 75. There are two specimens of *Plagiothecium undulatum* from Chukotka (coll. B. A. Tikhomirov and A. V. Gavriljuk, LE!). However mislabelling of these collection seems possible.
 76. *Platygyrium repens* is reported for the Polar Ural and Yamal Peninsula by Abramova & al. (1961). In LE there is only one so named collection, but *P. repens* is not found in the envelop.
 77. *Podperaea krylovii* has the only locality in the Russian Arctic in Chukotka (Afonina, 1972).
 78. The distribution of *Pohlia andrewsii* in Russia is mapped by Czernyadjeva & Ignatov (1991).
 79. The occurrence of *Pohlia annotina* in the Russian Arctic is doubtful. No one correctly identified arctic specimen have been found in LE.
 80. *Pohlia ludwigii* is reported from the Russian Arctic only from Novaya Zemlya (Savicz-Lyubitskaya, 1936). No specimens have been found in LE from this area.
 81. We disagree with synonymization of *Pohlia schimperi* with *Pohlia nutans*.
 82. *Pseudocrossidium revolutum* is reported in the Russian Arctic only from Lower Lena River (Egorova & al., 1991).
 83. *Pseudoleskea chilensis* is reported for Chukotka Peninsula by Afonina (1988b) as *Cratoneuron arcticum*. The latter species was synonymized with *P. chilensis* by Ochyra (1989). Kannukene (pers. comm.) reported this

- species from Taimyr and recently it was found also in Wrangel Island (Afonina, 1994a).
84. The taxonomy of *Pseudoleskeella* is discussed by Wilson & Norris (1989).
 85. *Pseudoleskeella rupestris* is an earlier name for *P. sibirica* (Hedenaes & Soederstroem, 1991). *P. sibirica* is reported from the Arctic Yakutia by Arnell (1913).
 86. *Pterigoneuron ovatum* is known in the Russian Arctic only in Wrangel Island, where it grows in steppe vegetation (Afonina, 1994).
 87. *Racomitrium aciculare* is reported from the European Arctic by Abramova & al. (1961). No specimens have not found in LE.
 88. *Racomitrium afoninae* was described from Chukotka Peninsula (Frisvoll, 1988a).
 89. The taxonomy of *Racomitrium canescens* and *R. heterostichum* -complexes is discussed by Frisvoll (1983, 1988b). We generally accept his conceptions. However the material of *R. canescens* so far is not revised for the whole territory and for most of regions we cite here this species without recognition of subspecies. In Chukotka both subspecies are not rare.
 90. *Racomitrium microcarpon* is represented in Chukotka Peninsula only by f. *afoninae* Frisvoll (1988b).
 91. *Racomitrium panschii* is reported from Lower Yenisey and Lower Lena Rivers by Frisvoll (1983).
 92. *Rhabdoweisia fugax* is reported from the Russian Arctic only from the Polar Ural (Abramova & al., 1961). No specimens have been found in LE.
 93. *Sanionia nivalis* was described only recently (Hedenaes, 1989c) and in the Russian Arctic revealed so far in one locality - Zhokhov Island, Nvosibirskie Islands (Afonina, LE).
 94. *Sanionia orthothecioides* is reported from Lower Yenisey River by Hedenaes (1989c) and is recently found also in Sibiryakov Island in Kara Sea (Kuvaev, MW!, MHA!).
 95. *Schistidium cryptocarpum* is recently found in Chukotka (Afonina & Ochyra, 1994).
 96. *Schistidium maritimum* is reported from the Russian Arctic only from Kanin-Pechora Region (Abramova & al., 1961).
 97. Many records of *Schistidium rivulare* from the Russian Arctic don't distinguish var. *rivulare* and var. *latifolium*, so their distribution is known too imperfectly.
 98. The taxonomy of *Scouleria* was revised by Churchill (1985) and we follow his broad concept of *S. aquatica*.
 99. *Seligeria diversifolia* is reported from the Russian Arctic only from Taimyr (Kannukene, pers. comm.).
 100. *Seligeria oelandica* is known in Russia only from Chukotka (Afonina, 1982).
 101. *Seligeria polaris* is reported from Franz Jozef Land by Alexandrova (1983). The specimen reported by Czernyadjeva (1992) was later reidentified.
 102. *Sphagnum arcticum* is recently found in Wrangel Island (Afonina, 1994a).
 103. The segregation of *Syntrichia* from *Tortula* and the inclusion of *Phascum* and *Desmatodon* in *Tortula* were suggested by Zander (1993).
 104. Brassard (1979) treats *Timmia bavarica* as a variety of *T. megapolitana* and *T. comata* as a variety of *T. norvegica*. We consider these species as distinct.
 105. *Tomentypnum falcifolium* is found as an admixture in the collection of Sphagnum from Wrangel Island by Goutier (Afonina, 1994a).
 106. *Tortula atheroides* (= *Phascum cuspidatum*) is found in Central Chukotka (middle course of Paljavaam River) in the steppe community (Afonina, LE).
 107. The systematic position of *Warnstorfia sarmentosa* was discussed by Hedenaes (1993a).
 108. The report of *Andreaea rothii* from the Polar Ural (Czernyadjeva, 1994a) is erroneous.
 109. *Anomodon viticulosus*, *Atrichum undulatum*, *A. tenellum* and *Dicranum polysetum* are reported from the Polar Ural (Abramova & al., 1961), but the specimens in LE which have been referred to Polar Ural was collected out of Arctic as it accepted here.
 110. *Barbula convoluta* and *B. unguiculata* were reported for Taimyr (Abramova & al., 1961), but their localities are out the Arctic as it accepted here.
 111. All arctic collections of *Encalypta streptocarpa* was reidentified by D.Horton as *E. procerata*.
 112. Record of *Funaria microstoma* from Chukotka Peninsula (Mueller, 1883; Abramova & al., 1961) is erroneous (Abramova & Abramov, 1980).
 113. The report of *Grimmia trichophylla* from Chukotka Peninsula (Afonina, 1989a) is erroneous.
 114. The record of *Heterocladium heteropterum* by Mueller (1883) for Chukotka Peninsula is erroneous (Abramova & Abramov, 1980).
 115. The report of *Mnium spinulosum* from Yamal (Czernyadjeva, 1994a) is erroneous.
 116. According to Zander (1977) *Molendoa tenuinervis* is a synonym of *Molendoa sendtneriana*.
 117. *Orthotrichum fastigiatum* is reported for Chukotka Peninsula by Abramova & Abramov (1980), but Lewinsky (1977) considers that these specimens belong to *O. sordidum*, the species widespread in Chukotka.
 118. All the specimens of *Plagiothecium piliferum* from the Russian Arctic were reidentified by Ukrainskaya (pers. com.).
 119. The reports of *Racomitrium heterostichum* from Chukotka (Afonina, 1986a; 1988a) were erroneous.
 120. *Sphagnum palustre* is recorded for Chukotka Peninsula by C. Mueller (1883), but Abramova & Abramov (1980) reidentified these specimens as *S. teres*.

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