

Checklist of Dutch Bryophytes

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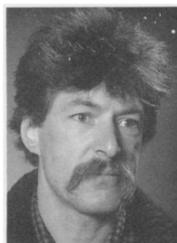


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Checklist of Dutch bryophytes

G. M. Dirkse, H. M. H. van Melick and A. Touw



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An up-to-date census of the Dutch moss flora totals 416 species (including 27 *Sphagna*) and 27 varieties. The hepatic flora comprises of 122 species and 2 varieties. Each accepted name is preceded by a four-digit code and an eight-letter acronym. A limited number of synonyms is provided. The following species are reported here for the first time from The Netherlands: *Rhynchostegiella jaquinii*, *Cololejeunea minutissima*, *Metzgeria temperata*, and *Riccia crozalsii*.

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Introduction

This checklist of accepted names of all species of mosses and hepatics that have been found in The Netherlands provides an up-to-date census of the Dutch bryoflora. No such list has been published since 1963 (Wijk 1963). Hepatics have been listed by Gradstein (1977). The revision of the Dutch moss flora (Touw and Rubers 1989) revealed numerous misidentified novelties, causing mostly deletion of species from the list. In addition, many new indigenous species were discovered, so the need for updating previous lists was felt.

The checklist has been divided into mosses (incl. *Sphagna*, List 1) and hepatics (incl. *Anthocerotae*, List 2). Both lists are similarly formatted: each accepted name (italics) is preceded by a four-digit code and an eight-letter acronym of which the first five letters represent the generic name and the last three the epithet. The digital code follows a national list, widely used in floristic field work (Anonymous 1981). Both digital code

and acronyms are distinct among each other. The acronyms have been chosen in such a way as to guarantee the same alphabetical order as the corresponding binomials. Acronyms of varieties and subspecies have been marked by a semicolon (;) in seventh position.

The taxonomic treatment of mosses (excl. *Sphagnum*) is according to Touw and Rubers (1989). *Sphagnum* has been treated according to Corley et al. (1982), except for *S. denticulatum* (Dirkse and Isoviita 1986) and the *S. recurvum*-complex (Crum 1984). Names of hepatics are according to Grolle (1983). With few exceptions we have limited the number of synonyms to names accepted by Margadant and During (1982), but rejected here.

Notes are presented for species reported here for the first time, and not included in Touw and Rubers (1989).

We gratefully give our sincere thanks to those members of the Dutch Bryological and Lichenological Society who put unpublished records at our disposal or commented on former drafts of the manuscript.

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List 1: Mosses (Sphagnum included)

Code	Acronym	Accepted names and synonyms
		<i>Abietinella abietina</i> (Hedw.) Fleisch. = 3041 Thuid abi
2501	Acaul mut	<i>Acaulon muticum</i> (Hedw.) C. Müll.
2503	Aloin alo	<i>Aloina aloides</i> (K. F. Schultz) Kindb.
2504	Aloin a;a	<i>Aloina aloides</i> var. <i>aloides</i>
2505	Aloin a;b	<i>Aloina aloides</i> var. <i>ambigua</i> (Bruch et Schimp.) Craig
3213	Aloin bre	<i>Aloina brevirostris</i> (Hook. et Grev.) Kindb.
2506	Aloin rig	<i>Aloina rigida</i> (Hedw.) Limpr.
2508	Ambld dea	<i>Amblyodon dealbatus</i> (Hedw.) Bruch et Schimp. <i>Amblystegium compactum</i> (C. Müll.) Aust. = 2966 Conar com
2510	Ambls flu	<i>Amblystegium fluviatile</i> (Hedw.) Schimp.
2512	Ambls rip	<i>Amblystegium riparium</i> (Hedw.) Schimp.
2515	Ambls ser	<i>Amblystegium serpens</i> (Hedw.) Schimp. <i>Amblystegium serpens</i> ssp. <i>juratzkanum</i> (Schimp.) Ren. et Card. = 2515 Ambls ser
2518	Ambls ten	<i>Amblystegium tenax</i> (Hedw.) C. Jens.
2519	Ambls var	<i>Amblystegium varium</i> (Hedw.) Mitt.
2521	Andre rot	<i>Andreaea rothii</i> Web. et Mohr
2522	Andre rup	<i>Andreaea rupestris</i> Hedw.
2524	Aniso ruf	<i>Anisothecium rufescens</i> (With.) Lindb.
2525	Aniso sch	<i>Anisothecium schreberianum</i> (Hedw.) Dix.
2526	Aniso sta	<i>Anisothecium staphylinum</i> (Whiteh.) Sipm., Rub. et Riem.
2527	Aniso vgn	<i>Anisothecium vaginale</i> (With.) Loeske
2528	Aniso vrm	<i>Anisothecium varium</i> (Hedw.) Mitt.
2530	Anomo att	<i>Anomodon attenuatus</i> (Hedw.) Hüb.
2532	Anomo vit	<i>Anomodon viticulosus</i> (Hedw.) Hook et Tayl.
2534	Antit cur	<i>Antitrichia curtispindula</i> (Hedw.) Brid.
2536	Archi alt	<i>Archidium alternifolium</i> (Hedw.) Schimp. <i>Astomum crispum</i> (Hedw.) Hampe = 3082 Weiss lon
3202	Atric ang	<i>Atrichum angustatum</i> (Brid.) Bruch et Schimp.
2538	Atric ten	<i>Atrichum tenellum</i> (Röhl.) Bruch et Schimp.
2539	Atric und	<i>Atrichum undulatum</i> (Hedw.) P. Beauv. <i>Atrichum undulatum</i> var. <i>minus</i> (Hedw.) Thér. et Mong. = 2539 Atric und
2543	Aulac and	<i>Aulacomnium androgynum</i> (Hedw.) Schwägr.
2544	Aulac pal	<i>Aulacomnium palustre</i> (Hedw.) Schwägr.
		<i>Barbula acuta</i> (Brid.) Brid. = 2546 Didyd acu
2547	Barbu con	<i>Barbula convoluta</i> Hedw. <i>Barbula convoluta</i> var. <i>commutata</i> (Jur.) Husn. = 2547 Barbu con <i>Barbula fallax</i> Hedw. = 2551 Didyd fal
2552	Barbu hor	<i>Barbula hornschuchiana</i> K. F. Schultz
2554	Barbu rev	<i>Barbula revoluta</i> Brid. <i>Barbula sinuosa</i> (Mitt.) Grav. = 2855 Didyd sin
2555	Barbu ung	<i>Barbula unguiculata</i> Hedw. <i>Barbula vinealis</i> Brid. = 2556 Didyd vin
2558	Bartr ith	<i>Bartramia ithyphylla</i> Brid.
2559	Batr pom	<i>Bartramia pomiformis</i> Hedw.
2561	Bract alb	<i>Brachythecium albicans</i> (Hedw.) Schimp.
2562	Bract gla	<i>Brachythecium glareosum</i> (Spruce) Schimp.
2569	Bract mil	<i>Brachythecium mildeanum</i> (Schimp.) Schimp. ex Milde

3214	Bract oed	<i>Brachythecium oedipodium</i> (Mitt.) Jaeg.
2563	Bract plu	<i>Brachythecium plumosum</i> (Hedw.) Schimp.
2564	Bract pop	<i>Brachythecium populeum</i> (Hedw.) Schimp.
2565	Bract ref	<i>Brachythecium reflexum</i> (Starke) Schimp.
2566	Bract riv	<i>Brachythecium rivulare</i> Schimp.
2567	Bract rut	<i>Brachythecium rutabulum</i> (Hedw.) Schimp. <i>Brachythecium rutabulum</i> fo. <i>paludosum</i> (Warnst.) Mönk. = 2567 Bract rut
2570	Bract sal	<i>Brachythecium salebrosum</i> (Web. et Mohr) Schimp. <i>Brachythecium salebrosum</i> var. <i>palustre</i> Schimp. = 2569 Bract mil
2571	Bract vel	<i>Brachythecium velutinum</i> (Hedw.) Schimp.
2573	Bryoe rec	<i>Bryoerythrophyllum recurvirostre</i> (Hedw.) Chen
2576	Bryum alg	<i>Bryum algovicum</i> C. Müll. <i>Bryum algovicum</i> var. <i>rutheanum</i> (Warnst.) Crundw. = 2576 Bryum alg
3204	Bryum alp	<i>Bryum alpinum</i> With.
2593	Bryum amb	<i>Bryum amblyodon</i> C. Müll.
2577	Bryum arg	<i>Bryum argenteum</i> Hedw.
2578	Bryum bar	<i>Bryum barnesii</i> Wood ex Schimp.
2580	Bryum bic	<i>Bryum bicolor</i> Dicks.
2582	Bryum cae	<i>Bryum caespiticium</i> Hedw. <i>Bryum caespiticium</i> ssp. <i>badium</i> (Brid.) Kindb. = 2582 Bryum cae <i>Bryum caespiticium</i> ssp. <i>kunzei</i> (Hornsch.) Podp. = 2582 Bryum cae
2585	Bryum cal	<i>Bryum calophyllum</i> R. Brown
2586	Bryum cap	<i>Bryum capillare</i> Hedw. <i>Bryum capillare</i> var. <i>flaccidum</i> (Brid.) Bruch et Schimp. = 2586 Bryum cap <i>Bryum capillare</i> ssp. <i>torquescens</i> (De Not.) Kindb. = 3096 Bryum tq <i>Bryum cirriferum</i> (De Not.) De Not. = 2593 Bryum amb
3215	Bryum don	<i>Bryum donianum</i> Grev.
2591	Bryum gmf	<i>Bryum gemmiferum</i> Wilcz. et Dem.
2594	Bryum int	<i>Bryum intermedium</i> (Brid.) Bland.
2595	Bryum kli	<i>Bryum klinggraffii</i> Schimp.
2596	Bryum kno	<i>Bryum knowltonii</i> Barnes <i>Bryum laevifilum</i> Syed = 2586 Bryum cap
2598	Bryum mar	<i>Bryum marratii</i> Hook. f. et Wils. <i>Bryum micro-erythrocarpum</i> C. Müll. et Kindb. = 2607 Bryum rbs
2600	Bryum neo	<i>Bryum neodamense</i> Itzigs. ex C. Müll.
2601	Bryum pln	<i>Bryum pallens</i> (Brid.) Röhl. <i>Bryum pallens</i> ssp. <i>fallax</i> (Jur.) Amann = 2601 Bryum pln
2602	Bryum psc	<i>Bryum pallescens</i> Schleich. ex Schwägr.
2603	Bryum pse	<i>Bryum pseudotriquetrum</i> (Hedw.) Gaertn., Meyer et Scherb. <i>Bryum pseudotriquetrum</i> var. <i>bimum</i> (Schreb.) Liljeb. = 2603 Bryum pse
2606	Bryum rad	<i>Bryum radiculosum</i> Brid. <i>Bryum radiculosum</i> var. <i>hegelmaieri</i> (Podp.) Marg. et During = 2607 <i>Bryum rub</i> <i>Bryum radiculosum</i> var. <i>hegelmaieri</i> fo. <i>hegelmaieri</i> (Podp.) Marg. et During = 2607 <i>Bryum rub</i> <i>Bryum radiculosum</i> var. <i>hegelmaieri</i> fo. <i>tenuisetum</i> (Limpr.) Marg. et During = 2600 <i>Bryum ten</i> <i>Bryum radiculosum</i> ssp. <i>klinggraffii</i> (Schimp.) Marg. et During = 2595 <i>Bryum kli</i> <i>Bryum radiculosum</i> ssp. <i>klinggraffii</i> fo. <i>violaceum</i> (Crundw. et Nyh.) Marg. et During = 2612 <i>Bryum vio</i> <i>Bryum radiculosum</i> ssp. <i>radiculosum</i> var.

	rubens (Mitt.) Marg. et During = 2607 Bryum rub Bryum radiculosum ssp. radiculosum var. ruderales (Crundw. et Nyh.) Marg. et During = 2608 Bryum rud	2664 Dchod pel 2666 Dclla cer 2667 Dclla het 3208 Dcnod den	<i>Dichodontium pellucidum</i> (Hedw.) Schimp. <i>Dicranella cerviculata</i> (Hedw.) Schimp. <i>Dicranella heteromalla</i> (Hedw.) Schimp. <i>Dicranodontium denudatum</i> (Brid.) E. G. Brid.
2607 Bryum rbs 2608 Bryum rde 2609 Bryum ten 3096 Bryum tq̄s 2610 Bryum trb 2611 Bryum uli	<i>Bryum rubens</i> Mitt. <i>Bryum ruderales</i> Crundw. et Nyh. <i>Bryum tenuisetum</i> Limpr. <i>Bryum torquescens</i> Bruch et Schimp. <i>Bryum turbinatum</i> (Hedw.) Turn. <i>Bryum uliginosum</i> (Brid.) Bruch. et Schimp.	2669 Dcnow cir 2670 Dcnow cri 2672 Dcnum aff 2673 Dcnum bon 2674 Dcnum fla 2675 Dcnum fus 2676 Dcnum maj 2677 Dcnum mon 2678 Dcnum pol 2679 Dcnum sco 2681 Dcnum s;a	<i>Dicranoweisia cirrata</i> (Hedw.) Lindb. ex Milde <i>Dicranoweisia crispula</i> (Hedw.) Milde <i>Dicranum affine</i> Funck <i>Dicranum bonjeanii</i> De Not. <i>Dicranum flagellare</i> Hedw. <i>Dicranum fuscescens</i> J. E. Smith <i>Dicranum majus</i> J. E. Smith <i>Dicranum montanum</i> Hedw. <i>Dicranum polysetum</i> Swartz <i>Dicranum scoparium</i> Hedw. <i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c
2612 Bryum vio 2613 Bryum war 2615 Buxba aph	<i>Bryum violaceum</i> Crundw. et Nyh. <i>Bryum warneum</i> (Röhl.) Bland. ex Brid. <i>Buxbaumia aphylla</i> Hedw.	2680 Dcnum s;c 2682 Dcnum s;s 2683 Dcnum spu 2684 Dcnum tau 2546 Didyd acu 2551 Didyd fal	<i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2617 Calcl hal 2619 Calgn cor 2621 Calgn gig	<i>Callicladium haldanianum</i> (Grev.) Crum <i>Calliargon cordifolium</i> (Hedw.) Kindb. <i>Calliargon giganteum</i> (Schimp.) Kindb. <i>Calliargon megalophyllum</i> Mikut. = 2621 Calgn gig <i>Calliargon megalophyllum</i> var. <i>natans</i> Karczmarz = 2621 Calgn gig	2686 Didyd rig 2855 Didyd sin 2687 Didyd top 2688 Didyd tri 2556 Didyd vin 2690 Diphy fol 3218 Disti cap	<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2623 Calgn str 2620 Callg cus	<i>Calliargon stramineum</i> (Brid.) Kindb. <i>Calliargonella cuspidata</i> (Hedw.) Loeske <i>Camptothecium lutescens</i> (Hedw.) Schimp. = 2775 Homat lut <i>Camptothecium nitens</i> (Hedw.) Schimp. = 3048 Homat nit	2692 Disti inc 2694 Ditri cyl 2695 Ditri fle	<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2625 Campm cal 2626 Campm chr 2627 Campm elo 2628 Campm pol	<i>Campylium calcareum</i> Crundw. et Nyh. <i>Campylium chrysophyllum</i> (Brid.) J. Lange <i>Campylium elodes</i> (Lindb.) Kindb. <i>Campylium polygamum</i> (Schimp.) J. Lange et C. Jens.	2696 Ditri het 2697 Ditri lin 2698 Ditri pal 2699 Ditri pus	<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2629 Campm ste	<i>Campylium stellatum</i> (Hedw.) J. Lange et C. Jens. <i>Campylium stellatum</i> var. <i>protensum</i> (Brid.) Bryhn = 2629 Campm ste	2701 Drepa adu 2704 Drepa exa	<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2633 Camps bre 2634 Camps fle 2635 Camps fra	<i>Campylopus brevipilus</i> Bruch et Schimp. <i>Campylopus flexuosus</i> (Hedw.) Brid. <i>Campylopus fragilis</i> (Brid.) Bruch et Schimp. <i>Campylopus fragilis</i> var. <i>pyriformis</i> (K. F. Schultz) Agst. = 2637 Cmplp pyr	2705 Drepa flu 3112 Drepa unc	<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2636 Camps int 2637 Camps pyr	<i>Campylopus introflexus</i> (Hedw.) Brid. <i>Campylopus pyriformis</i> (K. F. Schultz) Brid.		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2638 Camps sub 2640 Catos nig 2642 Cerad pur 2644 Cincl sty 2646 Cindt dan 2647 Cindt fon	<i>Campylopus subulatus</i> Schimp. <i>Catoscopium nigrum</i> (Hedw.) Brid. <i>Ceratodon purpureus</i> (Hedw.) Brid. <i>Cinclidium stygium</i> Swartz <i>Cinclidotus danubicus</i> Schiffn. et Baumg. <i>Cinclidotus fontinaloides</i> (Hedw.) P. Beauv.		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2648 Cindt rip 2650 Cirri cra	<i>Cinclidotus riparius</i> (Brid.) Arnott <i>Cirriphyllum crassinervium</i> (Tayl.) Loeske et Fleisch.		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2651 Cirri pil 3216 Cirri rei	<i>Cirriphyllum piliferum</i> (Hedw.) Grout <i>Cirriphyllum reichenbachianum</i> (Hüb.) Wijk et Marg.		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2653 Clima den	<i>Climacium dendroides</i> (Hedw.) Web. et Mohr		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2966 Conar com 2655 Crato com	<i>Conardia compacta</i> (C. Müll.) Robins. <i>Cratoneuron commutatum</i> (Hedw.) G. Roth		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
2656 Crato fil 2658 Cryph het 2660 Cteni mol	<i>Cratoneuron filicinum</i> (Hedw.) Spruce <i>Cryphaea heteromalla</i> (Hedw.) Mohr <i>Ctenidium molluscum</i> (Hedw.) Mitt.		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri
3178 Dadon gue 2662 Dalyt muc	<i>Desmatodon guepinii</i> Bruch et Schimp. <i>Dialytrichia mucronata</i> (Brid.) Broth.		<i>Dicranum scoparium</i> var. <i>alpestre</i> Hüb. <i>Dicranum scoparium</i> var. <i>corticola</i> Vogelpoel = 2680 Dcnum s;c <i>Dicranum scoparium</i> var. <i>curvulum</i> Brid. <i>Dicranum scoparium</i> fo. <i>orthophyllum</i> (Brid.) Mönk. = 2682 Dcnum s;s <i>Dicranum scoparium</i> f. <i>paludosum</i> (Schimp.) Mönk. = 2679 Dcnum sco <i>Dicranum scoparium</i> var. <i>scoparium</i> <i>Dicranum spurium</i> Hedw. <i>Dicranum tauricum</i> Sap. <i>Didymodon acutus</i> (Brid.) Saito <i>Didymodon fallax</i> (Hedw.) Zand. <i>Didymodon luridus</i> Hornsch. = 2688 Didyd tri

- 2712 Encal str *Encalypta streptocarpa* Hedw.
2713 Encal vul *Encalypta vulgaris* Hedw.
2715 Entod con *Entodon concinnus* (De Not.) Par.
2717 Entos fas *Entosthodon fascicularis* (Hedw.) C. Müll.
2718 Entos obt *Entosthodon obtusus* (Hedw.) Lindb.
2720 Ephem coh *Ephemerum cohaerens* (Hedw.) Hampe
2722 Ephem rec *Ephemerum recurvolum* (Dicks.) Boul.
2721 Ephem ser *Ephemerum serratum* (Hedw.) Hampe
2721 Ephem s;m *Ephemerum serratum* var. *minutissimum* (Lindb.) Grout
2723 Ephem s;s *Ephemerum serratum* var. *serratum*
2725 Eucla ver *Eucladia verticillatum* (Brid.) Bruch et Schimp.
2727 Eurhy ang *Eurhynchium angustirete* (Broth.) T. Kop.
2728 Eurhy hia *Eurhynchium hians* (Hedw.) Lac.
2729 Eurhy pra *Eurhynchium praelongum* (Hedw.) Schimp.
2730 Eurhy pum *Eurhynchium pumilum* (Wils.) Schimp.
2731 Eurhy sch *Eurhynchium schleicheri* (Hedw. f.) Jur.
2732 Eurhy spe *Eurhynchium speciosum* (Brid.) Jur.
2733 Eurhy str *Eurhynchium striatum* (Hedw.) Schimp.
2735 Fissi adi *Fissidens adianthoides* Hedw.
2736 Fissi arn *Fissidens arnoldii* Ruthe
2737 Fissi bry *Fissidens bryoides* Hedw.
Fissidens bryoides var. *gymnandrus* (Buse) Ruthe = 2738 Fissi gym
2739 Fissi cra *Fissidens crassipes* Wils. ex Bruch et Schimp.
3184 Fissi cri *Fissidens cristatus* Wils. ex Mitt.
2740 Fissi c;c *Fissidens cristatus* var. *cristatus*
2741 Fissi c;m *Fissidens cristatus* var. *mucronatus* (Limpr.) Waldh.
2742 Fissi exi *Fissidens exilis* Hedw.
2748 Fissi gra *Fissidens gracilifolius* Brug.-Nann. et Nyh.
2738 Fissi gym *Fissidens gymnandrus* Buse
2743 Fissi inc *Fissidens incurvus* Starke ex Röhl.
2744 Fissi osm *Fissidens osmundoides* Hedw.
2745 Fissi ruf *Fissidens rufulus* Schimp.
2746 Fissi tax *Fissidens taxifolius* Hedw.
2747 Fissi vir *Fissidens viridulus* (Swartz) Wahlenb.
Fissidens viridulus var. *tenuifolius* (Boul.) A. J. E. Smith = 2748 Fissi gra
2750 Fonti ant *Fontinalis antipyretica* Hedw.
Fontinalis antipyretica var. *gigantea* (Sull.) Sull. = 2750 Fonti ant
2753 Funar hyg *Funaria hygrometrica* Hedw.
3219 Grimm ano *Grimmia anodon* Bruch et Schimp.
Grimmia apocarpa Hedw. = 2983 Schis apo
Grimmia apocarpa var. *rivularis* (Brid.) Nees et al. = 2981 Schis riv
3190 Grimm are *Grimmia arenaria* Hampe
2755 Grimm cri *Grimmia crinita* Brid.
2756 Grimm cur *Grimmia curvata* (Brid.) De Sloov.
2758 Grimm har *Grimmia hartmanii* Schimp.
3220 Grimm lae *Grimmia laevigata* (Brid.) Brid.
Grimmia maritima Turn. = 2986 Schis mar
2759 Grimm pul *Grimmia pulvinata* (Hedw.) J. E. Smith
2761 Grimm tri *Grimmia trichophylla* Grev.
2763 Gyrow ten *Gyroweisia tenuis* (Hedw.) Schimp.
2765 Habro per *Habrodon perpusillus* (De Not.) Lindb.
2767 Hedwi cil *Hedwigia ciliata* (Hedw.) P. Beauv.
2769 Helod bla *Helodium blandowii* (Web. et Mohr) Warnst.
2771 Herzo sel *Herzogiella seligeri* (Brid.) Iwats.
3221 Herzo str *Herzogiella striatella* (Brid.) Iwats.
Heterophyllum haldanianum (Grev.) Kindb. ex Fleisch. = 2617 Calcl hal
2773 Hmlia tri *Homalia trichomanoides* (Hedw.) Schimp.
2775 Homat lut *Homalothecium lutescens* (Hedw.) Robins.
3048 Homat nit *Homalothecium nitens* (Hedw.) Robins.
2776 Homat ser *Homalothecium sericeum* (Hedw.) Schimp.
3121 Homom inc *Homomallium incurvatum* (Brid.) Loeske
2778 Hooke luc *Hookeria lucens* (Hedw.) J. E. Smith
Hygroamblystegium fluviatile (Hedw.) Loeske = 2510 Ambls flu
Hygroamblystegium tenax (Hedw.) Jenn. = 2518 Ambls ten
2780 Hygro lur *Hygrohypnum luridum* (Hedw.) Jenn.
2782 Hyloc bre *Hylocomium brevirostre* (Brid.) Schimp.
2783 Hyloc spl *Hylocomium splendens* (Hedw.) Schimp.
2785 Hymes mic *Hymenostomum microstomum* (Hedw.) R. Brown ex Nees et Hornsch.
Hymenostomum rostellatum (Brid.) Schimp. = 3083 Weiss ros
3125 Hymes squ *Hymenostomum squarrosum* Nees et Hornsch.
2788 Hypnu cup *Hypnum cupressiforme* Hedw.
Hypnum cupressiforme var. *ericetorum* Schimp. = 2792 Hypnu jut
Hypnum cupressiforme fo. *filiforme* (Brid.) Kraher = 2788 Hypnu cup
Hypnum cupressiforme ssp. *imponens* (Hedw.) Boul. = 2791 Hypnu imp
Hypnum cupressiforme var. *lacunosum* Brid. = 2788 Hypnu cup
Hypnum cupressiforme var. *resupinatum* (Tayl.) Schimp. = 2788 Hypnu cup
Hypnum cupressiforme var. *tectorum* Brid. = 2788 Hypnu cup
2791 Hypnu imp *Hypnum imponens* Hedw.
2792 Hypnu jut *Hypnum jutlandicum* Holmen et Warncke
Hypnum lindbergii Mitt. = 2794 Hypnu pra
3222 Hypnu pal *Hypnum pallescens* (Hedw.) P. Beauv.
2794 Hypnu pra *Hypnum pratense* Koch ex Spruce
2797 Isopt ele *Isopterygium elegans* (Brid.) Lindb.
2800 Isoth alo *Isothecium alopecuroides* (Lam. ex Dubois) Isov.
2799 Isoth myo *Isothecium myosuroides* Brid.
Isothecium myurum Brid. = 2800 Isoth alo
2894 Isoth str *Isothecium striatulum* (Spruce) Kindb.
3224 Lptba ber *Leptobarbula berica* (De Not.) Schimp. (1)
2802 Lptbr pyr *Leptobryum pyriforme* (Hedw.) Wils.
Leptodictyum kochii (Schimp.) Warnst. = 2519 Ambls var
Leptodictyum riparium (Hedw.) Warnst. = 2512 Ambls rip
2804 Lptdn smi *Leptodon smithii* (Hedw.) Web. et Mohr
2806 Lptdt fle *Leptodontium flexifolium* (With.) Hampe ex Lindb.
2808 Lskea pol *Leskea polycarpa* Hedw.
2810 Lucob gla *Leucobryum glaucum* (Hedw.) Ångstr.
2812 Lucod sci *Leucodon sciuroides* (Hedw.) Schwägr.
Loeskeobryum brevirostre (Brid.) Fleisch. = 2782 Hyloc bre
2814 Meesi tri *Meesia triquetra* (Jolyclerc) Ångstr.
2815 Meesi uli *Meesia uliginosa* Hedw.
Mniobryum delicatulum (Hedw.) Dix. = 2817 Pohli mel
Mniobryum lutescens (Limpr.) Loeske = 2918 Pohli lut
Mniobryum pulchellum (Hedw.) Loeske = 2917 Pohli les
Mniobryum wahlenbergii (Web. et Mohr) Jenn. = 2818 Pohli wah

2820 Mniun hor	<i>Mnium hornum</i> Hedw.	2882 Plagt cur	<i>Plagiothecium curvifolium</i> Schlieph. ex Limpr.
2821 Mniun mar	<i>Mnium marginatum</i> (With.) P. Beauv. Mnium marginatum var. dioicum auct. = 2821 Mniun mar	2883 Plagt den	<i>Plagiothecium denticulatum</i> (Hedw.) Schimp.
2824 Mniun ste	<i>Mnium stellare</i> Hedw.	2884 Plagt d;d	<i>Plagiothecium denticulatum</i> var. <i>denticulatum</i>
2826 Myrin pul	<i>Myrinia pulvinata</i> (Wahlenb.) Schimp.	2890 Plagt d;u	<i>Plagiothecium denticulatum</i> var. <i>undulatum</i> Ruthe ex Geh.
2828 Necke com	<i>Neckera complanata</i> (Hedw.) Hüb.	2886 Plagt lae	<i>Plagiothecium laetum</i> Schimp.
2829 Necke cri	<i>Neckera crispa</i> Hedw.	2887 Plagt lat	<i>Plagiothecium latebricola</i> Schimp.
2830 Necke pum	<i>Neckera pumila</i> Hedw. Neckera pumila var. pilifera Jur. = 2830 Necke pum	2888 Plagt nem	<i>Plagiothecium nemorale</i> (Mitt.) Jaegg. Plagiothecium ruthei Limpr. = 2890 Plagt d;u Plagiothecium striatellum (Brid.) Lindb. = 3221 Herzo str Plagiothecium sylvaticum Schimp. = 2888 Plagt nem Plagiothecium sylvaticum var. succulentum (Wils.) Spruce = 2889 Plagt nem
2832 Octod fon	<i>Octodicerias fontanum</i> (B. Pyl.) Lindb.	2892 Plagt und	<i>Plagiothecium undulatum</i> (Hedw.) Schimp. Plasteurhynchium striatum (Spruce) Fleisch. = 2894 Isoth str
2834 Oligo her	<i>Oligotrichum hercynicum</i> (Hedw.) DC. Orthodicranum flagellare (Hedw.) Loeske = 2673 Dcnun fla Orthodicranum montanum (Hedw.) Loeske = 2677 Dcnun mon	2898 Platy rep	<i>Platygyrium repens</i> (Brid.) Schimp. Platyhypnidium riparioides (Hedw.) Dix. = 2900 Rhync rip
2836 Ortho lin	<i>Orthodontium lineare</i> Schwägr.	2902 Plrid acu	<i>Pleuridium acuminatum</i> Lindb.
2838 Ortht aff	<i>Orthotrichum affine</i> Schrad. ex Brid.	3147 Plrid pal	<i>Pleuridium palustre</i> (Bruch et Schimp.) Bruch et Schimp.
2839 Ortht ano	<i>Orthotrichum anomalum</i> Hedw.	2903 Plrid sub	<i>Pleuridium subulatum</i> (Hedw.) Rabenh. sensu Lindb.
2840 Ortht cup	<i>Orthotrichum cupulatum</i> Brid.	2905 Plroc squ	<i>Pleurochaete squarrosa</i> (Brid.) Lindb.
2843 Ortht dia	<i>Orthotrichum diaphanum</i> Brid.	2907 Plroz sch	<i>Pleurozium schreberi</i> (Brid.) Mitt.
2845 Ortht lye	<i>Orthotrichum lyellii</i> Hook et Tayl.	2909 Pogon alo	<i>Pogonatum aloides</i> (Hedw.) P. Beauv.
2846 Ortht obt	<i>Orthotrichum obtusifolium</i> Brid.	2910 Pogon nan	<i>Pogonatum nanum</i> (Hedw.) P. Beauv.
2847 Ortht pul	<i>Orthotrichum pulchellum</i> Brunt.	2911 Pogon urn	<i>Pogonatum urnigerum</i> (Hedw.) P. Beauv.
3132 Ortht pum	<i>Orthotrichum pumilum</i> Swartz	3228 Pohli and	<i>Pohlia andalusica</i> (Höhn.) Broth.
3225 Ortht rup	<i>Orthotrichum rupestre</i> Schleich ex. Schwägr.	3229 Pohli ann	<i>Pohlia annotina</i> (Hedw.) Lindb.
2849 Ortht spe	<i>Orthotrichum speciosum</i> Nees	2913 Pohli bul	<i>Pohlia bulbifera</i> (Warnst.) Warnst.
2850 Ortht spr	<i>Orthotrichum sprucei</i> Mont.	2914 Pohli cam	<i>Pohlia campotrachela</i> (Ren. et Card.) Broth.
2851 Ortht sra	<i>Orthotrichum stramineum</i> Hornsch. ex Brid.	2915 Pohli cru	<i>Pohlia cruda</i> (Hedw.) Lindb.
2852 Ortht sri	<i>Orthotrichum striatum</i> Hedw.	2916 Pohli elo	<i>Pohlia elongata</i> Hedw.
2853 Ortht ten	<i>Orthotrichum tenellum</i> Bruch ex Brid.	2917 Pohli les	<i>Pohlia lescuriana</i> (Sull.) Grout
2858 Palud squ	<i>Paludella squarrosa</i> (Hedw.) Brid.	2918 Pohli lut	<i>Pohlia lutescens</i> (Limpr.) Lindb. f.
2860 Phasc crv	<i>Phascum curvicolle</i> Hedw.	2817 Pohli mel	<i>Pohlia melanodon</i> (Brid.) J. Shaw
2861 Phasc csp	<i>Phascum cuspidatum</i> Hedw.	2919 Pohli muy	<i>Pohlia muyldermansii</i> Wilcz. et Dem.
2862 Phasc flo	<i>Phascum floerkeanum</i> Web. et Mohr Philonotis caespitosa Wils. ex Jur. = 2866 Philo fon	2920 Pohli nut	<i>Pohlia nutans</i> (Hedw.) Lindb.
3139 Philo cal	<i>Philonotis calcarea</i> (Bruch et Schimp.) Schimp.	2818 Pohli wah	<i>Pohlia wahlenbergii</i> (Web. et Mohr) Andrews
2864 Philo cap	<i>Philonotis capillaris</i> Lindb.	3212 Polym api	<i>Polytrichum alpinum</i> Hedw.
2866 Philo fon	<i>Philonotis fontana</i> (Hedw.) Brid.	2923 Polym com	<i>Polytrichum commune</i> Hedw. Polytrichum commune var. perigonale (Michx.) Hampe = 2923 Polym com
2867 Philo mar	<i>Philonotis marchica</i> (Hedw.) Brid.	2924 Polym for	<i>Polytrichum formosum</i> Hedw.
3226 Philo ser	<i>Philonotis seriata</i> Mitt.	3125 Polym jun	<i>Polytrichum juniperinum</i> Hedw. Polytrichum juniperinum var. affine (Funct.) Brid. = 2925 Polym jun
2869 Phyel pat	<i>Physcomitrella patens</i> (Hedw.) Schimp.	2926 Polym lon	<i>Polytrichum longisetum</i> Swartz ex Brid.
2871 Physm eur	<i>Physcomitrium eurystomum</i> Sendtn.	2927 Polym pil	<i>Polytrichum piliferum</i> Hedw.
2872 Physm pyr	<i>Physcomitrium pyriforme</i> (Hedw.) Brid.	2929 Potti bry	<i>Pottia bryoides</i> (Dicks.) Mitt.
2873 Physm sph	<i>Physcomitrium sphaericum</i> (Ludw.) Brid.	3152 Potti dav	<i>Pottia davalliana</i> (J. E. Smith) C. Jens.
3142 Plagm aff	<i>Plagiomnium affine</i> (Bland.) T. Kop. Plagiomnium affine var. elatum (Bruch et Schimp.) Marg. et During = 2877 Plagm ela Plagiomnium affine var. rugicum (Laur.) Marg. et During = 3143 Plagm ell Plagiomnium cinclidioides (Hüb.) Bowers = 2940 Pseub cin	2930 Potti d;c	<i>Pottia davalliana</i> var. <i>conica</i> (Schwägr.) Podp.
2876 Plagm cus	<i>Plagiomnium cuspidatum</i> (Hedw.) T. Kop.	2931 Potti d;d	<i>Pottia davalliana</i> var. <i>davalliana</i> Pottia davalliana ssp. minutula (Schwägr.) Chamberlain ex Marg. et During = 2931 Potti d;d
2877 Plagm ela	<i>Plagiomnium elatum</i> (Bruch et Schimp.) T. Kop.	2932 Potti hei	<i>Pottia heimii</i> (Hedw.) Hampe
3143 Plagm ell	<i>Plagiomnium ellipticum</i> (Brid.) T. Kop.	2933 Potti lan	<i>Pottia lanceolata</i> (Hedw.) C. Müll. Pottia lanceolata var. gasilieni (Vent.) Corb. = 2933 Potti lan
3227 Plagm med	<i>Plagiomnium medium</i> (Bruch et Schimp.) T. Kop.	3230 Potti rec	<i>Pottia recta</i> (With.) Mitt.
2878 Plagm ros	<i>Plagiomnium rostratum</i> (Schrad.) T. Kop.		
2879 Plagm und	<i>Plagiomnium undulatum</i> (Hedw.) T. Kop.		
3145 Plago oed	<i>Plagiopus oederi</i> (Brid.) Limpr.		
2881 Plagt cav	<i>Plagiothecium cavifolium</i> (Brid.) Iwats.		

2934 Potti sta	<i>Pottia starckeana</i> (Hedw.) C. Müll.	3238 Selig don	<i>Seligeria donniana</i> (J. E. Smith) C. Müll. (3)
3153 Potti tru	<i>Pottia truncata</i> (Hedw.) Bruch. et Schimp. <i>Pottia truncata</i> ssp. <i>intermedia</i> (Turn.) Bouvet = 2935 Potti t;m	2994 Selig rec	<i>Seligeria recurvata</i> (Hedw.) Bruch et Schimp. <i>Sphagnum auriculatum</i> Schimp. = 2996 Sphag den <i>Sphagnum auriculatum</i> var. <i>inundatum</i> (Russ.) M. O. Hill = 2996 Sphag den <i>Sphagnum auriculatum</i> var. <i>rufescens</i> (Nees et Hornsch.) Waldh. = 2996 Sphag den
2935 Potti t;m	<i>Pottia truncata</i> var. <i>major</i> (Web. et Mohr) Bruch et Schimp.	2999 Sphag bal	<i>Sphagnum balticum</i> (Russ.) Russ. ex C. Jens.
2936 Potti t;t	<i>Pottia truncata</i> var. <i>truncata</i>	3172 Sphag cap	<i>Sphagnum capillifolium</i> (Ehrh.) Hedw.
2938 Psdep nit	<i>Pseudophemerum nitidum</i> (Hedw.) Reim.	3001 Sphag cmp	<i>Sphagnum compactum</i> DC. <i>Sphagnum compactum</i> fo. <i>squarrosulum</i> C. Jens. = 3001 Sphag cmp
2940 Pseub cin	<i>Pseudobryum cinclidioides</i> (Hüb.) T. Kop.	3002 Sphag cnt	<i>Sphagnum contortum</i> K. F. Schultz <i>Sphagnum contortum</i> ssp. <i>platyphyllum</i> (Lindb.) C. Jens. = 3017 Sphag pla <i>Sphagnum crassiciadum</i> Warnst. = 2996 Sphag den <i>Sphagnum crassiciadum</i> var. <i>obesum</i> (Wils.) Jans. et Wacht. = 2996 Sphag den
2942 Pseuc pur	<i>Pseudoscleropodium purum</i> (Hedw.) Fleisch. ex Broth. <i>Pterigynandrum filiforme</i> Hedw.	3004 Sphag cus	<i>Sphagnum cuspidatum</i> Ehr. ex Hoffm.
3232 Pterg fil	<i>Pterygoneurum lamellatum</i> (Lindb.) Jur.	2996 Sphag den	<i>Sphagnum denticulatum</i> Brid.
2944 Ptery lam	<i>Pterygoneurum ovatum</i> (Hedw.) Dix.	3006 Sphag fim	<i>Sphagnum fimbriatum</i> Wils. <i>Sphagnum flexuosum</i> Dozy et Molk. = 3007 Sphag r;r <i>Sphagnum flexuosum</i> var. <i>fallax</i> (Klinggr.) A. J. E. Smith = 3005 Sphag r;b <i>Sphagnum flexuosum</i> fo. <i>fibrosum</i> (Schlieph.) Marg. et During = 3005 Sphag r;b
2945 Ptery ova	<i>Ptilium crista-castrensis</i> (Hedw.) De Not.	3008 Sphag fus	<i>Sphagnum fuscum</i> (Schimp.) Klinggr.
2947 Ptili cri	<i>Ptychomitrium polyphyllum</i> (Swartz) Bruch et Schimp.	3009 Sphag gir	<i>Sphagnum girgensohnii</i> Russ. <i>Sphagnum hakkodense</i> Warnst. et Card. = 3016 Sphag pap <i>Sphagnum imbricatum</i> Hornsch. ex Russ.
2949 Ptych pol	<i>Pylaisia polyantha</i> (Hedw.) Schimp.	3010 Sphag imb	<i>Sphagnum magellanicum</i> Brid.
2951 Pylai pol	<i>Racomitrium aciculare</i> (Hedw.) Brid.	3011 Sphag mag	<i>Sphagnum majus</i> (Russ.) C. Jens.
2953 Racom aci	<i>Racomitrium canescens</i> (Hedw.) Brid.	3012 Sphag maj	<i>Sphagnum molle</i> Sull. <i>Sphagnum nemoreum</i> Scop. = 3172 Sphag cap <i>Sphagnum nemoreum</i> var. <i>subnitens</i> (Russ. et Warnst) Marg. = 3024 Sphag sun <i>Sphagnum nemoreum</i> var. <i>subtile</i> (Russ.) Nyh. = 3172 Sphag cap
2954 Racom can	<i>Racomitrium canescens</i> var. <i>canescens</i>	3013 Sphag mol	<i>Sphagnum nemoreum</i> var. <i>subtile</i> (Russ.) Nyh. = 3172 Sphag cap
2955 Racom c;c	<i>Racomitrium canescens</i> var. <i>ericoides</i> (Hedw.) Hampe	3015 Sphag pal	<i>Sphagnum palustre</i> L. <i>Sphagnum palustre</i> fo. <i>squarrosulum</i> (Nees et Hornsch.) Russ. = 3015 Sphag pal
2956 Racom c;e	<i>Racomitrium canescens</i> var. <i>intermedium</i> Vent.	3016 Sphag pap	<i>Sphagnum papillosum</i> Lindb. <i>Sphagnum papillosum</i> fo. <i>laeve</i> (Warnst.) Nyh. = 3016 Sphag pap <i>Sphagnum papillosum</i> fo. <i>sublaeve</i> Warnst. = 3016 Sphag pap
3233 Racom c;i	<i>Racomitrium fasciculare</i> (Hedw.) Brid.	3017 Sphag pla	<i>Sphagnum platyphyllum</i> (Braithw.) Warnst.
2957 Racom fas	<i>Racomitrium heterostichum</i> (Hedw.) Brid.	3018 Sphag pul	<i>Sphagnum pulchrum</i> (Lindb. ex Braithw.) Warnst.
2958 Racom het	<i>Racomitrium heterostichum</i> var. <i>obtusum</i> (Brid.) Del. = 2958 Racom het	3019 Sphag qui	<i>Sphagnum quinquefarium</i> (Lindb. ex Braithw.) Warnst. <i>Sphagnum recurvum</i> P. Beauv. <i>Sphagnum recurvum</i> var. <i>brevifolium</i> (Lindb. ex Braithw.) Warnst.
2959 Racom lan	<i>Racomitrium lanuginosum</i> (Hedw.) Brid.	3007 Sphag r;r	<i>Sphagnum recurvum</i> P. Beauv. var. <i>recurvum</i> (4)
2961 Rhizo pse	<i>Rhizomnium pseudopunctatum</i> (Bruch et Schimp.) T. Kop.	3021 Sphag rip	<i>Sphagnum riparium</i> Ångstr.
2962 Rhizo pun	<i>Rhizomnium punctatum</i> (Hedw.) T. Kop.	3174 Sphag rub	<i>Sphagnum rubellum</i> Wils.
2964 Rhodo ros	<i>Rhodobryum roseum</i> (Hedw.) Limpr.	3022 Sphag rus	<i>Sphagnum russowii</i> Warnst.
2967 Rhyel cur	<i>Rhynchostegiella curviseta</i> (Brid.) Limpr.	3023 Sphag squ	<i>Sphagnum squarrosulum</i> Crome
3234 Rhyel jac	<i>Rhynchostegiella jacquinii</i> (Garov.) Limpr. (2) <i>Rhynchostegiella pumila</i> (Wils.) E. F. Warb. = 2730 Eurhy pum		
2968 Rhyel ten	<i>Rhynchostegiella tenella</i> (Dicks.) Limpr.		
2970 Rhyum con	<i>Rhynchostegium confertum</i> (Dicks.) Schimp.		
2971 Rhyum meg	<i>Rhynchostegium megapolitanum</i> (Web. et Mohr) Schimp.		
2972 Rhyum mur	<i>Rhynchostegium murale</i> (Hedw.) Schimp.		
2900 Rhyum rip	<i>Rhynchostegium riparioides</i> (Hedw.) Card.		
2973 Rhyum rot	<i>Rhynchostegium rotundifolium</i> (Brid.) Schimp.		
2975 Rhytd lor	<i>Rhytidiadelphus loreus</i> (Hedw.) Warnst.		
2976 Rhytd squ	<i>Rhytidiadelphus squarrosus</i> (Hedw.) Warnst.		
3235 Rhytd sub	<i>Rhytidiadelphus subpinnatus</i> (Lindb.) T. Kop.		
2977 Rhytd tri	<i>Rhytidiadelphus triquetrus</i> (Hedw.) Warnst.		
2979 Rhyti rug	<i>Rhytidium rugosum</i> (Hedw.) Kindb.		
2983 Schis apo	<i>Schistidium apocarpum</i> (Hedw.) Bruch et Schimp.		
2986 Schis mar	<i>Schistidium maritimum</i> (Turn.) Bruch et Schimp.		
2981 Schis riv	<i>Schistidium rivulare</i> (Brid.) Podp.		
2988 Sclcp ces	<i>Scleropodium cespitans</i> (C. Müll.) L. F. Koch		
3237 Scope cat	<i>Scopelophila cataractae</i> (Mitt.) Broth.		
2706 Scorp lyc	<i>Scorpidium lycopodioides</i> (Brid.) Paul		
2707 Scorp rev	<i>Scorpidium revolvens</i> (Swartz) Rubers		
2991 Scorp sco	<i>Scorpidium scopioides</i> (Hedw.) Limpr.		
2710 Scorp ver	<i>Scorpidium vernicosum</i> (Mitt.) Tuom.		
2993 Selig cal	<i>Seligeria calcarea</i> (Hedw.) Bruch et Schimp.		

3024 Sphag sun	<i>Sphagnum subnitens</i> Russ. et Warnst.	(Bruch et Schimp.) Wils. = 3179
3026 Sphag sus	<i>Sphagnum subsecundum</i> Nees	Weiss fal
3027 Sphag ten	<i>Sphagnum tenellum</i> (Brid.) Bory	3197 Weiss fal <i>Weissia fallax</i> Sehm.
3028 Sphag ter	<i>Sphagnum teres</i> (Schimp.) Aongstr.	3082 Weiss lon <i>Weissia longifolia</i> Mitt.
3031 Splac amp	<i>Splachnum ampullaceum</i> Hedw.	3083 Weiss ros <i>Weissia rostellata</i> (Brid.) Lindb.
3033 Taxip wis	<i>Taxiphyllum wissgrillii</i> (Garov.) Wijk et Marg.	3086 Zygod con <i>Zygodon conoideus</i> (Dicks.) Hook. et Tayl.
3035 Ttras pel	<i>Tetraphis pellucida</i> Hedw.	3087 Zygod vir <i>Zygodon viridissimus</i> (Dicks.) Brid.
3037 Ttrpl mni	<i>Tetraplodon mnioides</i> (Hedw.) Bruch et Schimp.	3088 Zygod v;r <i>Zygodon viridissimus</i> var. <i>rupestris</i> Lindb. ex Hartm.
3039 Thamn alo	<i>Thamnobryum alopecurum</i> (Hedw.) Gang.	3089 Zygod v;s <i>Zygodon viridissimus</i> var. <i>stirtonii</i> (Schimp.) Hag.
3041 Thuid abi	<i>Thuidium abietinum</i> (Hedw.) Schimp.	3090 Zygod v:v <i>Zygodon viridissimus</i> var. <i>viridissimus</i>
3186 Thuid del	<i>Thuidium delicatulum</i> (Hedw.) Mitt.	
3044 Thuid phi	<i>Thuidium philibertii</i> Limpr.	
3045 Thuid rec	<i>Thuidium recognitum</i> (Hedw.) Lindb. Thuidium recognitum var. <i>delicatulum</i> (Hedw.) Warnst. = 3186 Thuid del Thuidium recognitum ssp. <i>philibertii</i> (Limpr.) Dix. = 3044 Thuid phi	
3046 Thuid tam	<i>Thuidium tamariscinum</i> (Hedw.) Schimp.	
3050 Torte fla	<i>Tortella flavovirens</i> (Bruch.) Broth.	
3051 Torte f:f	<i>Tortella flavovirens</i> var. <i>flavovirens</i>	
3052 Torte f:g	<i>Tortella flavovirens</i> var. <i>glareicola</i> (T. Christ) Crundw. et Nyh.	
3053 Torte fra	<i>Tortella fragilis</i> (Hook. f. et Wils.) Limpr.	
3054 Torte inc	<i>Tortella inclinata</i> (Hedw. f.) Limpr.	
3240 Torte inf	<i>Tortella inflexa</i> (Bruch) Broth. (5)	
3055 Torte tor	<i>Tortella tortuosa</i> (Hedw.) Limpr.	
3191 Tortu cal	<i>Tortula calcicolens</i> W. Kramer Tortula guepinii (Bruch et Schimp.) Broth. = 3178 Desma gue	
3058 Tortu int	<i>Tortula intermedia</i> (Brid.) De Not.	
3059 Tortu lae	<i>Tortula laevipila</i> (Brid.) Schwägr. Tortula laevipila var. <i>meridionalis</i> (Schimp.) Wijk et Marg. = 3059 Tortu lae Tortula laevipila var. <i>saccardoana</i> (De Not.) Barkm. = 3059 Tortu lae Tortula laevipila var. <i>wachterii</i> (De Not.) Barkm. = 3059 Tortu lae	
3062 Tortu lat	<i>Tortula latifolia</i> Bruch ex Hartm.	
3063 Tortu mar	<i>Tortula marginata</i> (Bruch et Schimp.) Spruce	
3064 Tortu mur	<i>Tortula muralis</i> Hedw. Tortula muralis fo. <i>aestiva</i> (Hedw.) Hampe = 3064 Tortu mur	
3065 Tortu pap	<i>Tortula papillosa</i> Wils.	
3067 Tortu rur	<i>Tortula ruralis</i> (Hedw.) Gärtn., Meyer et Scherb.	
3066 Tortu r:f	<i>Tortula ruralis</i> var. <i>ruraliformis</i> (Besch.) Wild.	
3180 Tortu r;s	<i>Tortula ruralis</i> var. <i>ruralis</i>	
3068 Tortu sub	<i>Tortula subulata</i> Hedw.	
3192 Tortu vah	<i>Tortula vahliana</i> (K. F. Schultz) Mont.	
3069 Tortu vir	<i>Tortula virescens</i> (De Not.) De Not.	
3071 Trema amb	<i>Trematodon ambiguus</i> (Hedw.) Hornsch. Trichodon cylindricus (Hedw.) Schimp. = 2694 Ditri cyl	
3073 Trics cri	<i>Trichostomum crispulum</i> Bruch	
3075 Ulota bru	<i>Ulota bruchii</i> Hornsch. ex Brid.	
3076 Ulota coa	<i>Ulota coarctata</i> (P. Beauv.) Hammar	
3077 Ulota cri	<i>Ulota crispa</i> (Hedw.) Brid. Ulota crispa var. <i>norvegica</i> (Grönv.) A. J. E. Smith et M. O. Hill = 3075 Ulota bru	
3241 Ulota dru	<i>Ulota drummondii</i> (Hook. et Grev.) Brid.	
3078 Ulota phy	<i>Ulota phyllantha</i> Brid.	
3080 Weiss con	<i>Weissia controversa</i> Hedw. Weissia controversa var. <i>densifolia</i>	

List 2: Liverworts (Hepaticae) and Hornworts (Anthocerotae)

Code Acronym	Accepted names and synonyms
3492 Anast min	<i>Anastrophyllum minutum</i> (Schreb.) Schust.
3301 Aneur pin	<i>Aneura pinguis</i> (L.) Dum. Anthoceros laevis L. ssp. <i>carolinianus</i> (Michx.) Marg. = 3436 Phaeo car
3303 Anthc agr	<i>Anthoceros agrestis</i> Paton (6)
3307 Barbi att	<i>Barbilophozia attenuata</i> (Mart.) Loeske
3308 Barbi bar	<i>Barbilophozia barbata</i> (Schmid. ex Schreb.) Loeske
3309 Barbi flo	<i>Barbilophozia floerkei</i> (Web. et Mohr) Loeske
3310 Barbi hat	<i>Barbilophozia hatcheri</i> (Evans) Loeske
3311 Barbi kun	<i>Barbilophozia kunzeana</i> (Hüb.) K. Müll.
3312 Barbi lyc	<i>Barbilophozia lycopodioides</i> (Wallr.) Loeske
3314 Bazza tri	<i>Bazzania trilobata</i> (L.) S. Gray
3316 Blasi pus	<i>Blasia pusilla</i> L.
3320 Calyp arg	<i>Calypogeia arguta</i> Nees et Mont.
3325 Calyp azu	<i>Calypogeia azurea</i> Stotler et Crotz
3321 Calyp fis	<i>Calypogeia fissa</i> (L.) Raddi
3322 Calyp mue	<i>Calypogeia muelleriana</i> (Schiffn.) K. Müll.
3323 Calyp nee	<i>Calypogeia neesiana</i> (Mass. et Carest.) K. Müll.
3324 Calyp sph	<i>Calypogeia sphagnicola</i> (H. Arn. et J. Perss.) Warnst. et Loeske Calypogeia trichomanis (L.) Corda = 3325 Calyp azu
3327 Cepia bic	<i>Cephalozia bicuspidata</i> (L.) Dum.
3328 Cepia b;b	<i>Cephalozia bicuspidata</i> var. <i>bicuspidata</i>
3329 Cepia b;l	<i>Cephalozia bicuspidata</i> var. <i>lammersiana</i> (Hüb.) Breidl.
3330 Cepia con	<i>Cephalozia connivens</i> (Dicks.) Lindb.
3331 Cepia lun	<i>Cephalozia lunulifolia</i> (Dum.) Dum.
3332 Cepia mac	<i>Cephalozia macrostachya</i> Kaal. (7)
3333 Cepia ple	<i>Cephalozia pleneiceps</i> (Aust.) Lindb.
3507 Cepla bau	<i>Cephaloziella baumgartneri</i> Schiffn. (8)
3335 Cepla div	<i>Cephaloziella divaricata</i> (Sm.) Schiffn.
3336 Cepla ela	<i>Cephaloziella elachista</i> (Jack) Schiffn.
3337 Cepla ham	<i>Cephaloziella hampeana</i> (Nees) Schiffn.
3338 Cepla rub	<i>Cephaloziella rubella</i> (Nees) Warnst.
3504 Cepla ste	<i>Cephaloziella stellulifera</i> (Spruce) Schiffn.
3342 Chilo pac	<i>Chiloscyphus pallescens</i> (Ehr.) Dum.
3341 Chilo pot	<i>Chiloscyphus polyanthos</i> (L.) Corda Chiloscyphus polyanthos var. <i>pallescens</i> (Ehr.) C. Hartm. = 3342 Chilo pac
3344 Cladp flu	<i>Cladopodiella fluitans</i> (Nees) Buch
3345 Cladp fra	<i>Cladopodiella francisci</i> (Hook.) Joerg.
3512 Colol min	<i>Cololejeunea minutissima</i> (Sm.) Schiffn. (9)

- 3347 Conoc con *Conocephalum conicum* (L.) Underw.
- 3349 Diplp alb *Diplophyllum albicans* (L.) Dum.
3350 Diplp obt *Diplophyllum obtusifolium* (Hook.) Dum.
- 3354 Fosso fov *Fossombronia foveolata* Lindb.
3355 Fosso inc *Fossombronia incurva* Lindb.
3356 Fosso pus *Fossombronia pusilla* (L.) Nees
3357 Fosso won *Fossombronia wondraczekii* (Corda) Lindb.
- 3359 Frull dil *Frullania dilatata* (L.) Dum.
3508 Frull fra *Frullania fragilifolia* (Tayl.) Gott. et al. (10)
- 3360 Frull tam *Frullania tamarisci* (L.) Dum.
- 3364 Gymnc inf *Gymnocolea inflata* (Huds.) Dum.
- 3366 Haplo hoo *Haplomitrium hookeri* (Sm.) Nees
Isopachus bicrenatus (Schmid. ex Hoffm.) Buch = 3368 Lophz bic
- 3370 Junge cae *Jungermannia caespiticia* Lindenb. (11)
3371 Junge gra *Jungermannia gracillima* Sm.
3372 Junge hya *Jungermannia hyalina* Lyell
- 3374 Kurzi pau *Kurzia pauciflora* (Dicks.) Grolle
3375 Kurzi syl *Kurzia sylvatica* (Evans) Grolle
Leiocolea badensis (Gott. ex Rabenh.) Joerg. = 3377 Lophz bad
Leiocolea collaris (Nees) Schljak. = 3378 Lophz col
- 3380 Lejeu cav *Lejeunea cavifolia* (Ehrh.) Lindb.
3413 Lejeu uli *Lejeunea ulicina* (Tayl.) Gott. et al.
3382 Lepiz rep *Lepidozia reptans* (L.) Dum.
3384 Lophc bid *Lophocolea bidentata* (L.) Dum.
Lophocolea bidentata var. rivularis (Raddi) Warnst. = 3384 Lophc bid
- 3387 Lophc het *Lophocolea heterophylla* (Schrad.) Dum.
3388 Lophc min *Lophocolea minor* Nees
3377 Lophz bad *Lophozia badensis* (Gott.) Schiffn.
3368 Lophz bic *Lophozia bicrenata* (Schmid. ex Hoffm.) Dum.
- 3390 Lophz cap *Lophozia capitata* (Hook.) Macoun
3378 Lophz col *Lophozia collaris* (Nees) Dum.
3391 Lophz exc *Lophozia excisa* (Dicks.) Dum.
3393 Lophz inc *Lophozia incisa* (Schrad.) Dum.
3392 Lophz lon *Lophozia longiflora* (Nees) Schiffn.
3395 Lophz per *Lophozia perssonii* Buch et S. Arn.
3396 Lophz ven *Lophozia ventricosa* (Dicks.) Dum.
Lophozia ventricosa var. porphyroleuca (Nees) Hartm. = 3392 Lophz lon
- 3401 Lunul cru *Lunularia cruciata* (L.) Lindb.
- 3403 March pol *Marchantia polymorpha* L.
3405 Marsu ema *Marsupella emarginata* (Ehrh.) Dum.
3406 Marsu fun *Marsupella funckii* (Web. et Mohr) Dum.
3408 Metzgeria conjugata Lindb.
3409 Metzgeria fruticulosa (Dicks.) Evans
3410 Metzgeria furcata (L.) Dum.
Metzgeria furcata var. fruticulosa (Dicks.) Lindenb. = 3409 Metzgeria fru
- 3509 Metzgeria temperata Kuwah. (12)
Microlejeunea ulicina (Tayl.) Evans = 3413 Lejeun uli
Moerckia flotowiana (Nees) Schiffn. = 3415 Moerc hib
- 3415 Moerc hib *Moerckia hibernica* (Hook.) Gott.
3417 Mylia ano *Mylia anomala* (Hook.) S. Gary
- 3419 Nardi geo *Nardia geoscyphus* (De Not.) Lindb.
3420 Nardi sca *Nardia scalaris* S. Gray
3422 Nowel cur *Nowellia curvifolia* (Dicks.) Mitt.
- 3424 Odons den *Odontoschisma denudatum* (Nees.) Dum.
3425 Odons sph *Odontoschisma sphagni* (Dicks.) Dum.
Orthocaulis attenuatus (Mart.) Evans = 3307 Barbi att
Orthocaulis floerkei (Web. et Mohr) Buch = 3309 Barbi flo
Orthocaulis kunzeanus (Hüb.) Buch = 3311 Barbi kun
- 3428 Palla lye *Pallavicinia lyellii* (Hook.) Carruth.
3430 Pelli end *Pellia endiviifolia* (Dicks.) Dum.
3431 Pelli epi *Pellia epiphylla* (L.) Corda
3432 Pelli nee *Pellia neesiana* (Gott.) Limpr.
3436 Phaeo car *Phaeoceros carolinianus* (Michx.) Prosk. (13)
- 3438 Plagc asp *Plagiochila asplenioides* (L.) Dum.
Plagiochila asplenioides var. humilis (Nees) Gott. et al. = 3439 Plagc por
- 3439 Plagc por *Plagiochila porelloides* (Torrey ex Nees) Lindenb.
3442 Porel arb *Porella arboris-vitae* (With.) Grolle
3444 Porel pla *Porella platyphylla* (L.) Pfeiff
3446 Preis qua *Preissia quadrata* (Scop.) Nees
3448 Ptild cil *Ptilidium ciliare* (L.) Hampe
3449 Ptild pul *Ptilidium pulcherrimum* (G. Web.) Vainio
- 3451 Radul com *Radula complanata* (L.) Dum.
3453 Rebou hem *Reboulia hemisphaerica* (L.) Raddi
3455 Ricca cha *Riccardia chamedryfolia* (With.) Grolle
3456 Ricca inc *Riccardia incurvata* Lindb.
3457 Ricca lat *Riccardia latifrons* (Lindb.) Lindb.
3458 Ricca mul *Riccardia multifida* (L.) S. Gray
3459 Ricca pal *Riccardia palmata* (Hedw.) Carruth.
Riccardia pinguis (L.) S. Gray = 3301 Aneur pin
- 3461 Ricci bey *Riccia beyrichiana* Hampe ex Lehm.
3462 Ricci bif *Riccia bifurca* Hoffm.
3463 Ricci can *Riccia canaliculata* Hoffm.
3464 Ricci cav *Riccia cavernosa* Hoffm.
3510 Ricci cro *Riccia crozalsii* Lev. (14)
Riccia crystallina auct. non L. = 3464 Ricci cav
- 3468 Ricci flu *Riccia fluitans* L.
3471 Ricci gla *Riccia glauca* L.
3472 Ricci hue *Riccia huebeneriana* Lindenb.
3473 Ricci rhe *Riccia rhenana* Lorbeer
3474 Ricci sor *Riccia sorocarpa* Bisch.
3475 Ricci sub *Riccia subbifurca* Warnst. ex Crozals
3476 Ricci war *Riccia warnstorffii* Limpr.
3478 Ricco nat *Ricciocharpos natans* (L.) Corda
- 3480 Scapa com *Scapania compacta* (Roth.) Dum.
3481 Scapa cur *Scapania curta* (Mart.) Dum.
3482 Scapa irr *Scapania irrigua* (Nees) Nees.
3483 Scapa nem *Scapania nemorea* (L.) Grolle
3484 Scapa und *Scapania undulata* (L.) Dum.
3488 Sphae mic *Sphaerocarpos michelii* Bellardi
3489 Sphae tex *Sphaerocarpos texanus* Aust.
Sphaerocarpos texanus var. europaeus (Lorb.) K. M. = 3489 Sphae tex
Sphenolobus minutus (Schreb.) Berggr. = 3492 Anast min
- 3494 Targi hyp *Targionia hypophylla* L.
3496 Trich tom *Trichocolea tomentella* (Ehrh.) Dum.
3499 Trito exf *Tritomaria exsectiformis* (Breidl.) Loeske

Notes

1. The first record of *Leptobarbula berica* from the province of Limburg has been published by Whitehouse and During (1987).
2. *Rhynchostegiella jaquinii* is reported here for the first time. It has been found recently in the province of Noord-Holland by H. Siebel.
3. *Seligeria donniana* has been found recently in the province of Limburg (Odé and During 1988).
4. Isoviita (1966) distinguished between three species in the *Sphagnum recurvum*-complex: *S. angustifolium*, *S. fallax*, and *S. flexuosum*, which previously had been treated by most European authors as varieties of *S. recurvum* P. Beauv. However, this name was based upon North American specimens. The type material is lost. Isoviita reasoned that *S. recurvum* of American authors was conspecific with *S. pulchricoma* which was supposed not to occur in Europe. As a consequence it was speculated that *S. recurvum* P. Beauv. did not apply to European material, and this name was therefore replaced by *S. fallax*. Isoviita's views were accepted by European bryologists, including Corley et al. (1982). In a monograph of North American Sphagna, Crum (1984) made a distinction between three varieties in the *S. recurvum*-complex: var. *recurvum*, var. *brevifolium*, and var. *tenuis*. The concepts of these varieties correspond perfectly well to Isoviita's (1966) species concepts. Moreover, Crum (1984) agrees with Isoviita (1966) in considering *S. pulchricoma* conspecific with *S. recurvum* var. *recurvum*. Whence, apart from the taxonomic rank, the taxonomic concepts of both authors are basically the same. Awaiting further studies in the *S. recurvum*-complex we consider it appropriate to follow Crum (1984) and maintain the name *S. recurvum*.
5. *Tortella inflexa* has been reported from the province of Limburg by During et al. (1986).
6. All recent collections appear to belong to *Anthoceros agrestis*. Previous records of *A. punctatus* should be checked against *A. agrestis* before accepting them (Paton 1979).
7. *Cephalozia macrostachya* is not represented in Landwehr (1980), the plate with this name represents *C. bicuspidata*.
8. The occurrence of *Cephalozia baumgartneri* in the province of Limburg has been reported by During et al. (1986).
9. *Cololejeunea minutissima* has been found recently in the province of Noord-Brabant (Biesbosch) by A. van der Pluijm.
10. The occurrence of *Frullania fragilifolia* in the province of Noord-Brabant (Biesbosch) has been reported by A. van der Pluijm (1986).
11. *Jungermannia caespiticia* was reported from the province of Noord-Brabant by H. van Melick (1984).
12. *Metzgeria temperata* has been found recently in the province of Noord-Brabant (Biesbosch) by A. van der Pluijm. Landwehr (1980) illustrated this species as *M. fruticulosa*.
13. Landwehr's (1980) illustration does not allow a clear distinction between *Phaeoceros carolinianus* and *P. laevis*.

Although the accompanying text suggests that the plate represents the autoecious *P. carolinianus* this is not obvious from the illustration, which may represent as well the dioecious *P. laevis*. However, all recent collections belong to *P. carolinianus*.

14. *Riccia crozalsii* has been found recently in the province of Noord-Brabant by H. van Melick.

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