

CENSUS OF NEW SOUTH WALES MOSSES

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ABSTRACT

Ramsay, Helen P. (School of Botany, University of New South Wales, Kensington, N.S.W. Australia, 2033) 1984. *Census of New South Wales Mosses*. *Telopea* 2(5): 455-533 — The Census gives a checklist containing 527 species of mosses in 171 genera and 56 families. Compilation of the list is based on literature and information obtained from herbarium specimens in Australian herbaria. The distribution of species is recorded for 13 ecogeographic regions of New South Wales. Included are lists of synonyms, *nomina nuda*, unsubstantiated records and a bibliography.

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INTRODUCTION

The compilation of a checklist of New South Wales mosses and their distribution was undertaken in an effort to determine how much information was available on New South Wales mosses in the literature and in collections based in Australian herbaria. Reverend W.W. Watts and T. Whitelegge early this century (1902, 1905) published lists of Australian mosses, incorporating information from previous work of Mitten (1856, 1860, 1882) and Forsyth (1899). Watts was responsible for collecting many new species determined by Brotherus in the period 1896-1918. The *Census Muscorum Australiensium* (Watts and Whitelegge 1902, 1905) was never completed although manuscripts were in the process of being compiled at the time of Watts' death in 1920; the published lists having dealt only with acrocarpous families.

Further work was continued by Burges (1932, 1935) who prepared but never published a census of New South Wales mosses (1952) which incorporated Watts' manuscript and lists for pleurocarpous families (some 526 species in all).

In 1952 Steere remarked that "Since the Census of New South Wales mosses published by Watts and Whitelegge (1902-1905) no further general work (on Australian mosses) has appeared". It is with the kind permission of Professor Burges, and as a former student of his, that I have much pleasure in being able to complete the project to which so many have contributed. There has been an increase in knowledge of Australian mosses during the last 30 years with Sainsbury's *New Zealand Mosses* (1955a), Scott and Stone's (1976) *Mosses of Southern Australia* and Catcheside's (1980) *Mosses of South Australia*, but details of species distribution and of the sub-tropical species in Australia are still very limited. New South Wales has the most interesting and diverse moss flora in Australia since sub-alpine, arid zone, temperate and tropical species representative of a large percentage of the families of mosses all occur in this region. From an

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estimated 1,100–1,200 taxa in Australia (D.G. Catcheside, pers. comm.), New South Wales has about 44% represented, Queensland about 33%, Victoria and Tasmania both 30%, South Australia 16% and Western Australia only 8%. It is hoped the Census will act as a stimulus for future collecting and taxonomic work.

METHODS

Collections of New South Wales mosses were examined in most Australian Herbaria (AD, BR1, CANB, CBG, HO, NE, NSW, MEL, MELU, SYD, UNSW, UWA) and names and distribution details were obtained for each specimen. The National Herbarium of New South Wales, containing collections of Whitelegge, Forsyth, Watts and others, has been the primary and major source of data for the Census. The distributional data follow the geographical subdivisions used for 'Plants of New South Wales' (Jacobs & Pickard 1981), see map on p.536; within New South Wales these subdivisions are derived from Anderson (1961). As stated in Jacobs & Pickard the "Census serves to indicate the state of the art", and this is true for the mosses where our knowledge is in its infancy. Distributional data, for instance, tell us about where people have collected rather than indicating the true range of the species. Since there has been no bryologist engaged on taxonomic work specifically related to mosses in the National Herbarium of New South Wales since W.W. Watts (1916) (see Ramsay & Briggs 1979) and A. Burges (1952), much is awaiting attention and there are still many unnamed collections.

CRITERIA USED AND ORGANISATION OF DATA

The Census is arranged by families according to Crosby & Magill (1978). Within each family, genera, then species are listed alphabetically. Synonyms appear in the Census and are also listed in a separate index. Taxonomic and nomenclatural changes from literature were included up to the time of going to press, data having been derived from Index Muscorum (Wijk et al. 1959-1969) and supplements from Crosby (1977, 1979, Crosby & Bauer 1981) as well as from published revisions by individual taxonomists (see Bibliography). Name changes in literature have been accepted as relating to the name on the packet unless, or until, the specimen has been examined by an expert or renamed.

It must be stressed that verification has only been possible where specialists have borrowed and checked determinations. The work contains only published names and combinations except in the genus *Macromitrium* for which a revision of Australian species is in manuscript (Vitt & Ramsay) and *Racopilum* under review by van Zanten who has examined all relevant specimens.

A taxon is recorded as present in any region if at least one specimen with that name is available in an Australian herbarium or private collection. Reliability of identification may be questioned where few specimens of a particular taxon have been found and for this reason where collections are for 3 or fewer specimens for a particular area this is indicated. Species records not supported by specimens are listed separately at the end of each genus as 'previous record not substantiated'. *Nomina nuda* which have not been accounted for in the synonymy in the Census are treated separately (p.509).

Distribution of taxa in other states of Australia (extra-N.S.W.) is indicated as well as the extra-Australian range. These data are included for convenience but are not necessarily definitive. Within New South Wales, distribution is shown by the ecogeographic regions used by Jacobs & Pickard (1981) based on Anderson (1961). Lord Howe Island species are included since the island is politically part of New South Wales. The distribution also encompasses the Australian Capital Territory (A.C.T.) which is geographically located in the Southern Tablelands Division of New South Wales. Extra-Australian distributions follow the regions named in Jacobs & Pickard (1981) and listed on page 459 here.

The paucity of species and collections within some regions highlights the need for further work and more intensive surveys of distribution. The original data, which include collectors' notes for some 20,000 specimens, will remain available so that lists within regions may be compiled and added to as new collections are made, particularly with a view to increasing our knowledge of ecological preferences for species. Already it is clear that many species have been collected from only a limited area or have a very restricted distribution. Such species should be studied thoroughly and efforts made to determine their true range.

This Census recognises 527 species (not including 22 unsubstantiated records) in 171 genera from 56 families of mosses. A number of infraspecific taxa add to the total species diversity in the area. In all, 81 species are listed as being restricted in distribution to New South Wales (Ramsay 1984a). Although a large number of new records are included e.g. *Drepanocladus uncinatus* at Mt. Kosciusko, *Brachymenium exile*, these have not been highlighted in the list. Relationships between New South Wales species and those in other states of Australia indicate a separation into those sub-tropical species that have been recorded from New South Wales and Queensland only, and those (the majority) with affinities to the temperate bryoflora of southern Australia. Of the sub-tropical species many have been collected only in the MacPherson-Macleay overlap on the border between New South Wales and Queensland. This region is considered as phytogeographically significant for higher plants (Burbidge 1960). A preliminary survey of phytogeographical relationships of the mosses of New South Wales is included separately (Ramsay 1984a). The distributions of mosses within the Australian Capital Territory (Ramsay & Streimann 1984) and on Lord Howe Island (Ramsay 1984b) have also been analysed in separate papers (see pp. 559, 549).

ACKNOWLEDGEMENTS

Financial support from the Australian Biological Resources Study from 1974 to 1979 (incl.) to enable distributional information to be recorded necessitated the complete sorting and repackaging of specimens into a uniform system at the National Herbarium of New South Wales. Without the co-operation of the Director and Staff at the Herbarium in allowing me access at all times and their contribution in repackaging and labelling the collections, the task could not have been completed.

Many others have also assisted freely. The Directors and Staff of various Herbaria (AD, BRI, CANB, CBG, HO, NE, NSW, MEL, MELU, SYD, UNSW, UWA) have helped greatly by making collections and facilities available and supplying information when requested. Dr A. Touw, Rijksherbarium, Leiden, has contributed much time and effort in identifying Streimann's collections from the National Botanic Gardens. Help has also been given by Staff of the British Museum and the V.F. Brotherus Herbarium at Helsinki. Personal thanks to M. Austin, B. Austin, D.G. Catcheside, G. Harden, T. Howard, A. Murray, J. Parram, L. Pedley, G.A.M. Scott, I.G. Stone, H. Streimann and J.H. Willis, who have given me specimens, supplied unpublished lists and/or other information, checked sections of the manuscript, or allowed me access to their private collections. My two assistants, T. Boyd (1976) and P. Wilson (1978), gave invaluable help in sorting, checking and recording data and in collecting and assembling the data for the manuscript. C. Puttock helped with checking, indexing and literature lists. Assistance in reading sections of the manuscript and helpful suggestions given by H. Ando, D.G. Catcheside, T. Koponen, W. Margadant, R. Pursell, G.A.M. Scott, I.G. Stone, D.H. Vitt and B.O. van Zanten are also gratefully acknowledged. Extra distributional data supplied by I.G. Stone were obtained during travel for research projects funded by the Australian Research Grants Committee. The following people examined and checked identification of genera and species of special interest to them — H. Ando, A. Touw, B.O. van Zanten, I.G. Stone, M.A. Bruggemann-Nannenga, J. Lewinsky, D.H. Vitt, T. Koponen, R.D. Seppelt and H. Mohamed.

Their expertise and co-operation proved a most valuable contribution. A. Lonergan, S. Wray, J. Ratcliffe and F. Colman have helped enormously by typing drafts and the final manuscript. The encouragement and patient support of my husband has been of immense help in enabling the work to be completed.

The author accepts full responsibility for any errors or omissions and would appreciate notification of any inaccuracies.

ADDENDA

One species of *Archidium* Brid. (Archidiaceae) has now been found in New South Wales (I.G. Stone, pers. comm.).

I.G. Stone (pers. comm.) reports the following new records for New South Wales. Details to be published later.

Bruchia eckloniana C. Muell. — NWS; V; S Afr

Ephemerum rehmannii (C. Muell.) Broth. — SFWP; VSW

Tortula rhizophylla (Sak.) Iwats. & Saito — CC; Q; S Afr

The following references have been added since the manuscript was submitted for publication.

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ABBREVIATIONS AND SYMBOLS USED IN TABLE I

Distribution within New South Wales

LHI	Lord Howe Island	FWP	Far Western Plains
C	Coast	N	North
T	Tablelands	C	Central
WS	Western Slopes	S	South
WP	Western Plains	NSW	New South Wales

- present in the subdivision > 3 collections
- no sighted or cited specimen from the subdivision
- ? specimen or cited locality inadequate for reliable record; in the extra-NSW column of Table I the "?" precedes the abbreviation for the state to which the doubtful record applies.
- ★ number of specimens ≤ 3

Extra-New South Wales Distribution

Q — Queensland, V — Victoria, T — Tasmania, Y — Northern Territory, S — South Australia, W — Western Australia, A — Australian Capital Territory (included separately here although it lies within the geographical boundaries of N.S.W. [see Ramsay & Streimann 1984] as it is a political entity)

Extra-Australian Distribution

N	North, northern or New	Malesia	The Malay Peninsula, Philippines, Malaysia, Indonesia and New
S	South, southern		Guinea, a phytogeographic
E	East, eastern		not a political region
W	West, western		Mediterranean region
C	Central	Medit	
cosmop	cosmopolitan	N Caled	New Caledonia
Afr	Africa	NG	New Guinea
Amer	America	NZ	New Zealand
As	Asia	Subant I	Subantaretic Islands
Eur	Eur	Oc	Oceania
I	Island or Islands	Pac	Pacific
		Philip	Philippines

TABLE 1. DISTRIBUTION AND CHECKLIST OF MOSSES OF NEW SOUTH WALES. (Families arranged according to Crosby & Magill 1981.) For index to genera and families see p. 532.

○ absent ● > 3 collections ★ ≤ 3 collections

	L			C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST	
	H	I	N	C	S	N	C	S	N	C	S	N	S	N	S				
1. SPHAGNACEAE																			
SPHAGNUM L.																			
<i>S. australe</i> Mitt.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VT	NZ, S.Amer, S.Afr
[<i>S. antarcticum</i> Mitt., <i>S. perichaetiale</i> Warnst.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	V	SE.As, Afr, Amer
<i>S. beccarii</i> Hampe	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTA	NZ
[<i>S. erythrocalyx</i> auct. non Hampe]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
<i>S. cristatum</i> Hampe	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
[<i>S. decipiens</i> Warnst., <i>S. grandifolium</i> Warnst., <i>S. magellanicum</i> Brid., <i>S. subbicolor</i> Hampe, <i>S. wardellense</i> Warnst.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTA	NZ, S.Amer, Subant J
<i>S. falcatulum</i> Besch.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
[<i>S. brothierianum</i> Warnst., <i>C. cuspidatum</i> Erh. ex Hoffm., <i>S. drepanocladum</i> Warnst., <i>S. serratifolium</i> Warnst., <i>S. waitzii</i> Warnst.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
<i>S. molliculum</i> Mitt. †	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VTSWA	
[<i>S. commutatum</i> Warnst., <i>S. cymbifoloides</i> C. Muell., <i>S. comosum</i> C. Muell., <i>S. novozelandicum</i> Mitt., <i>S. pseudorufescens</i> Warnst., <i>S. subconitium</i> Hampe, <i>S. subsecundum</i> auct. non Nees]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
2. ANDREAEACEAE																			
ANDREAEA Hedw.																			
<i>A. australis</i> Mitt.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VTA	NZ
<i>A. mutabilis</i> Hook. f. & Wils.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTA	Cosmop
[<i>A. anthyophylla</i> C. Muell. ex Broth., <i>A. ripensis</i> auct. non Hedw.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
<i>A. nitida</i> Hook f. & Wils.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VTA	NZ, NG, Afr, S.Amer, Subant J

†See Catcheside 1980.

3. FISSIDENTACEAE (cont'd)	L		C			T			WS			WP		FWP	EXTRA NSW	EXTRA AUST
	I	II	N	C	S	N	C	S	N	C	S	N	S			
FISSIDENS (cont'd)																
<i>F. pallidus</i> Hook. f. & Wils.	○		●	●	●	○	○	○	○	○	○	○	○	○	QVT	NZ
[<i>F. whiteleggei</i> C. Muell. ex Rodway]	○		●	●	●	○	○	○	○	○	○	○	○	○	QVTYS-WA	NZ
<i>F. pungens</i> C. Muell. & Hampe	○		●	●	●	○	○	○	○	○	○	○	○	○	VTA	NZ, C&S Amer., N.G., Solomon I
<i>F. rigidulus</i> Hook. f. & Wils. ssp. <i>rigidulus</i>	○		●	●	●	○	○	○	○	○	○	○	○	○		
<i>F. sordidevirens</i> Broth.	○		●	○	○	○	○	○	○	○	○	○	○	○		
<i>F. subtenellus</i> Broth. & Watts	●		○	○	○	○	○	○	○	○	○	○	○	○		
<i>F. taylorii</i> C. Muell.	○		●	○	○	○	○	○	○	○	○	○	○	○	VTSWA	NZ
[<i>F. brevifolius</i> Hook. f. & Wils., <i>F. elamellosus</i> C. Muell. & Hampe, <i>F. macrodus</i> Hampe, <i>F. semilimbatus</i> C. Muell. & Hampe]	○		●	○	○	○	○	○	○	○	○	○	○	○		
<i>F. tenelliformis</i> Broth. & Watts	●		○	○	○	○	○	○	○	○	○	○	○	○		
<i>F. tenellus</i> Hook. f. & Wils.	○		●	○	○	○	○	○	○	○	○	○	○	○	QVTS	NZ
<i>F. vittatus</i> Hook. f. & Wils.	○		●	○	○	○	○	○	○	○	○	○	○	○	VTSWA	NZ, S Afr
<i>F. watsonii</i> Broth.	○		●	○	○	○	○	○	○	○	○	○	○	○		
[Previous record not substantiated; <i>F. anaphiretis</i> (C. Muell.) Broth., <i>F. delicatulus</i> (Aongstr.) Watts & Whittell., <i>F. petangistatus</i> Broth.]	○		○	○	○	○	○	○	○	○	○	○	○	○		
5. DITRICHACEAE																
CHRYSOBLASTELLA Williams																
<i>C. chilensis</i> (Mont.) Reim.	○		○	○	○	○	○	○	○	○	○	○	○	○	VT	S Amer
[<i>Chetochlaia chilensis</i> (Mont.) Broth.]																
CERATODON Brid.																
<i>C. purpureus</i> (Hedw.) Brid.	●		●	●	●	○	○	○	○	○	○	○	○	○	QVTYS-WA	Cosmop
[<i>C. convolvatus</i> Reichdt., <i>C. stenocarpus</i> Bruch. & Schimp. ex C. Muell.]																
DISTICHUM B.S.G.																
<i>D. capillaceum</i> (Hedw.) B.S.G.	○		○	○	○	○	○	○	○	○	○	○	○	○	A	N Hemis, NZ

	L			C			T			WS			WP			EXTRA NSW	EXTRA AUST
	H	I		N	C	S	N	C	S	N	C	S	N	S			
5. DITRICHACEAE (cont'd)																	
PLEURIDIUM (cont'd)																	
<i>P. nervosum</i> (Hook.) Mitt.	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	VTYS-WA	NZ, S Afr, S Amer
[<i>P. gracilentum</i> (Mitt.) Mitt.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
<i>P. viride</i> (C. Muell.) Kindb.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
[<i>Astonium viride</i> C. Muell.]																	
7. SELIGERACEAE																	
BLINDIA B.S.G.																	
<i>B. magellanica</i> Schimp.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VT	NZ, S Amer, Subant I
<i>B. robusta</i> Hampe	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VTA	NZ, S Amer
[<i>B. tenuifolia</i> (Hook. f. & Wils.) Mitt.]																	
8. DICRANACEAE																	
BRUCHIA Swaeagr.																	
<i>B. brevipes</i> Harv. ex Hook.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VSW	S Afr, NG
CAMPYLOPUS Brid.																	
<i>C. austro-subulatus</i> Broth. & Gch. †	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVSA	NZ, Afr
<i>C. bicolor</i> (C. Muell.) Wils.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTSW	NZ, Afr, S Amer
<i>C. clavatus</i> (R. Brown) Wils.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Q?VTS-WA	
[<i>C. appressifolius</i> Mitt]																	
<i>C. insititius</i> Hook. f. & Wils.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTY-SWA	Cosmop
<i>C. dentieuspis</i> Broth. var. <i>lutescens</i> Broth.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTS-WA	NZ
<i>C. introflexus</i> (Hedw.) Brid.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
[<i>C. pudicus</i> (C. Muell.) Jaeg., <i>C. tasmanicus</i> Par.]																	
<i>C. pallidus</i> Hook. f. & Wils.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
[<i>C. novae-valesiae</i> Broth, <i>C. torquatus</i> Mitt., <i>C. woollii</i> (C. Muell.) Par.]																	
<i>C. perauriculatus</i> Broth.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Q	
<i>C. viridifolius</i> (C. Muell.) Par.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		

†Under review by Frahm & Catcheside — probably a new species as Australian populations do not match the New Guinea forms (Catcheside pers. comm.).

DICNEMOLOMA (Ren.) Ren.‡												
<i>D. pallidum</i> (Hook.) Wijk & Marg.												
[<i>D. sieberianum</i> (Hornsch.) Broth., <i>Leucoloma sieberianum</i> (Hornsch.) Jaeg., <i>Sclerodontium pallidum</i> Hook.]	●	●	●	●	●	●	●	●	●	●	●	●
[Previous record not substantiated: <i>D. fraseri</i> (Mitt.) Ren., <i>D. imbricatum</i> Broth. & Geh., <i>D. strictipitum</i> (C. Muell.) Par.]	○	○	○	○	○	○	○	○	○	○	○	○
DICRANELLA (C. Muell.) Schimp.												
<i>D. apophysatula</i> (C. Muell.) Broth.	○	●	○	○	○	○	○	○	○	○	○	○
<i>D. cardotii</i> (R. Br. ter.) Dix.	○	○	○	○	○	○	○	○	○	○	○	○
[<i>D. watsonii</i> Broth., <i>Dichodontium watsonii</i> (Broth.) Broth.]	○	○	○	○	○	○	○	○	○	○	○	○
<i>D. dietrichiae</i> (C. Muell.) Jaeg.	○	●	○	○	○	○	○	○	○	○	○	○
[<i>D. tricuris</i> (C. Muell.) Mitt., <i>D. jamesonii</i> (Mitt.) Broth., [<i>Anisohleccium jamesonii</i> Mitt., <i>D. pycnoglossa</i> (Broth.) Kindb., [<i>Anisohleccium pycnoglossum</i> Broth.]	○	○	○	○	○	○	○	○	○	○	○	○
[Previous record not substantiated: <i>D. stackhousiana</i> (C. Muell.) Broth., <i>Longstroemia stackhousiana</i> C. Muell.]	○	○	○	○	○	○	○	○	○	○	○	○
DICRANOLOMA Ren.												
<i>D. argutum</i> (Hampe) Par.	○	○	○	○	○	○	○	○	○	○	○	○
[<i>Dicranum whitteggeri</i> C. Muell., <i>D. austro-scoparium</i> (Broth.) Wats & Whitel., [<i>Leucoloma austro-scoparium</i> C. Muell. ex Broth.]	○	○	○	○	○	○	○	○	○	○	○	○
<i>D. billardieri</i> (Brid.) Par.	○	○	○	○	○	○	○	○	○	○	○	○
<i>D. dicarpum</i> Nees Par.	○	○	○	○	○	○	○	○	○	○	○	○
[<i>Dicranum dicarpum</i> (Nees), <i>Leucoloma dicarpum</i> (Nees) Broth.]	○	○	○	○	○	○	○	○	○	○	○	○
<i>D. menziesii</i> (Tayl.) Par.	○	○	○	○	○	○	○	○	○	○	○	○
<i>D. robustum</i> (Hook. f. & Wils.) Par. var. setosum (Hook. f. & Wils.) Sainsb.	○	○	○	○	○	○	○	○	○	○	○	○
<i>D. serratum</i> (Broth.) Par.	○	○	○	○	○	○	○	○	○	○	○	○
[<i>Leucoloma serratum</i> Broth., <i>D. sullivanii</i> (C. Muell.) Par., [<i>Dicranum sullivanii</i> C. Muell.]	○	○	○	○	○	○	○	○	○	○	○	○

‡Retained here as *Dicranoloma* although Crosby (pers. comm.) and Crosby & Magill (1981) point out this name is preceded by *Sclerodontium*.

14. POTTIACEAE (cont'd)	L H I			C		T			WS			WP			FWP		EXTRA NSW	EXTRA AUST
	N	C	S	N	C	S	N	C	S	N	C	S	N	S	N	S		
POTTIA (Reichenb.) Fuernr. P. brevicaulis (Tayl.) C. Muell. P. drummondii (Wils.) J.H. Willis P. starckeana (Hedw.) C. Muell. P. truncata (Hedw.) B.S.G.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VSW Q?VTS- W	NZ, N Afr. Eur. As, N Amer Cosmop
PTERYGONEURUM Jur. P. kemsteyi J.H. Willis P. ovatum (Hedw.) Dix.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VSW VSW	Eur, N Afr. As, N Amer
TETRAPTERUM Hampe ex Jaeg. T. cylindricum (Tayl.) Jaeg. [<i>Astonium cylindricum</i> (Tayl.) Mitt.] T. sullivani (C. Muell.) Broth. [<i>Phascum sullivani</i> C. Muell. — known only from type in BM]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	QVTS- WA	
TORTELLA (Lindb.) Limpr. T. cirrhata Broth. [<i>T. subflavovirens</i> Broth. & Wats] T. knightii (Mitt.) Broth. [<i>T. nanoa-tortuosa</i> (C. Muell.) Wats & Whitel.] T. novae-valesiae Broth.	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VSW VT	NZ
TORTULA Hedw. T. evanescens Broth. T. laevipila (Brid.) Schwaegr. T. muralis Hedw. [<i>T. austro-muralis</i> (C. Muell.) Broth. ex Par., <i>T. melbourneana</i> (C. Muell.) Broth.] T. oleaginosa Stone T. pagorum (Milde) de Not. [<i>T. bati</i> (ex auct. non Broth.) <i>T. panduraefolia</i> (C. Muell. & Hampe) Broth. <i>T. papillosa</i> Wils.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VSW QVTSW	Cosmop Cosmop Eur, N Amer Cosmop

30. MITTENIACEAE

- MITTENIA Lindb.
 M. plumula (Mitt.) Lindb. ... QVTWA NZ
 [M. rotundifolia (C. Muell.) Par.]

31. CALOMNIACEAE

- CALOMNIUM Hook. f. & Wils.
 C. complanatum (Hook. f. & Wils.) Lindb. ... NZ
 [C. laetum Hook. f. & Wils. *nom. illeg.*]

32. RHIZOGONIACEAE

- GONIOBRYUM Lindb.
 G. subbasilare (Hook.) Lindb. ... VT NZ, Oc, S Amer
 [G. pellicidum (Mitt.) Broth.]
 HYMENODON Hook. f. & Wils.
 H. pilifer Hook. f. & Wils. ... QVT NZ, Oc
 LEPTOTHECA Swaegr.†
 L. gaudichaudii Swaegr. var. *gaudichaudii* ... NZ, S Afr, S Amer
 MESOCHAETE Lindb.
 M. undulata Lindb. ... QV NZ, SE As
 PYRRHOBRYUM Mitt.
 P. mnioides (Hook.) Manuel ... QVTA NZ, S Amer
 [Rhizogonium mnioides (Hook.) Wils. in Hook.]
 P. paramattense (C. Muell.) Manuel ... Norfolk I
 [Rhizogonium paramattense (C. Muell.) Reichenh.]
 P. spiniforme (Hedw.) Manuel ... As, Malcsia
 [Rhizogonium spiniforme Hedw.]

† See Churchill & Buck (1982).

32. RHIZOGONIACEAE (cont'd)	L H I	C			T			WS			WP			FWP	EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S				
													N	C	S	N
RHIZOGONIUM Brid.																
<i>R. bifarium</i> (Hook.) Schimp.	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	NZ
<i>R. distichum</i> (Sw.) Brid.	○	●	★	○	●	○	○	○	○	○	○	○	○	○	VTA	NZ
[<i>R. gracifolium</i> (C. Muell.) Jaeg., <i>R. gechebil</i> C. Muell.]	○	●	○	○	○	○	○	○	○	○	○	○	○	○	QVTA	As, NZ, Oc
<i>R. novae-hollandiae</i> (Brid.) Brid.	○	●	○	○	○	○	○	○	○	○	○	○	○	○	VTA	NZ, As, S Amer
<i>R. pennatum</i> Hook. f. & Wils. var. <i>aristatum</i> (Hampe) Dix.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	T	NZ
33. HYPNODENDRACEAE																
BRAITHWAITEA Lindb.																
<i>B. sulcata</i> (Hook.) Jaeg.	★	●	○	○	○	○	○	○	○	○	○	○	○	○	QV	NZ, Oc, N Caled
HYPNODENDRON (C. Muell.) Lindb. ex Mitt.																
<i>H. colensoi</i> (Hook. f. & Wils.) Mitt.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	?T	NZ
[Known only from a specimen in NY (Touw 1971)]																
<i>H. comosum</i> (Labill.) Mitt.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VT	NZ
[<i>Mniodendron comosum</i> (Labill.) Lindb.]																
<i>H. spinervium</i> (Hook.) Jaeg. ssp. <i>archeri</i> (Mitt.) Touw	○	●	○	○	○	○	○	○	○	○	○	○	○	○	VT	
[<i>H. arcuatum</i> Hedw. emend. Mitt. <i>pro parte</i>]																
<i>H. vitense</i> Mitt. ssp. <i>australe</i> Touw	○	●	○	○	○	○	○	○	○	○	○	○	○	○	QVTA	As, Oc
[<i>H. whiteleggei</i> C. Muell. ex Burges <i>nom. nud.</i> , <i>H. arcuatum</i> non Hedw.]																
34. AULACONNIACEAE																
AULACONNIUM Schwaegr.																
<i>A. palustre</i> (Hedw.) Schwaegr.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VTA	Cosmop

37. BARTRAMIACEAE (cont'd)	L H I			C			T			WS			WP			FWP	EXTRA NSW	EXTRA AUST
	N	C	S	N	C	S	N	C	S	N	C	S	N	S				
PHILONOTIS Brid.																		
<i>P. austro-falcata</i> Broth. & Wats	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>P. dicranellacea</i> (C. Muell.) Wats & Whitel.	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>P. jardi</i> (Besch.) Par.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>P. pseudomollis</i> (C. Muell.) Jaeg.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>P. scabrifolia</i> (Hook. f. & Wils.) Braithw.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
[<i>P. appressa</i> (Hook. f. & Wils.) Mitt., <i>P. remotifolia</i> (Hook. f. & Wils.) Jaeg.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>P. slateri</i> (Hampe) Jaeg.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>P. tenuis</i> (Tayl.) Reichdt.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
[<i>P. fertilis</i> (Mitt.) Mitt., <i>P. pseudomollis</i> (C. Muell.) Jaeg.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>P. tortifolia</i> (C. Muell.) Wats & Whitel.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
38. SPIRIDENTACEAE																		
SPIRIDENS Nees																		
<i>S. vieillardii</i> Schimp.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
[<i>S. muelleri</i> Hampe]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
40. ERPODIAACEAE																		
AULACOPILUM Wils.																		
<i>A. glaucum</i> Wils.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>A. hodgkinsoniae</i> (Hampe & C. Muell.) Broth.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
41. PTYCHOMITRIACEAE †																		
PTYCHOMITRIUM Fuernr.																		
<i>P. australe</i> (Hampe) Jaeg.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
[<i>P. adamsonii</i> (Mitt.) Jaeg., <i>Glyphomitrium adamsonii</i> Mitt., <i>Brachysteleum australe</i> (Hampe) Jaeg.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

† Transferred to Grimmiaceae by Churchill (1982).

42. ORTHOTRICHACEAE (cont'd)	L H I	C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
		N	C	S	N	C	S	N	C	S	N	S				
MACROMITRIUM (cont'd)																
<i>M. involutifolium</i> (Hook. & Grev.) Schwaegr.	○	●	●	●	○	○	○	○	○	○	○	○	○	○	○	QT
<i>scutellato</i>																
[<i>M. daemeli</i> C. Muell.]																
[<i>M. malacoblustum</i> C. Muell.]																
<i>M. involutifolium</i> (Hook. & Grev.) Schwaegr.	○	●	○	●	○	○	○	○	○	○	○	○	○	○	○	Q
ssp. <i>involutifolium</i> †																
<i>M. involutifolium</i> (Hook. & Grev.) Schwaegr.	○	●	○	●	○	○	○	○	○	○	○	○	○	○	○	N Caled
ssp. <i>ptychomitrioides</i> (Besch.) Vitt & Ramsay (ms)																
[<i>M. carinatum</i> Mitt.]																
<i>M. leratii</i> Broth.	★	●	★	○	○	○	○	○	○	○	○	○	○	○	○	N Caled
<i>M. ligulaefolium</i> Broth.	○	●	○	●	○	○	○	○	○	○	○	○	○	○	○	N Caled
[<i>M. ligulatum</i> C. Muell.]																NZ,
[<i>M. woollstanum</i> C. Muell.]																N Caled
<i>M. ligulare</i> Mitt.	○	●	●	●	○	○	○	○	○	○	○	○	○	○	○	NZ
[<i>M. asperulum</i> Mitt.]																
[<i>M. weissoides</i> C. Muell.]																
<i>M. longirostre</i> (Hook.) Schwaegr.	○	○	★	○	○	○	○	○	○	○	○	○	○	○	○	VT
[<i>M. rodwayi</i> Dix. in Weym. & Rodw.]																
<i>M. microstomum</i> (Hook. & Grev.) Schwaegr.	○	●	●	●	○	○	○	○	○	○	○	○	○	○	○	QVT
[<i>M. proluxum</i> Bosw., <i>M. scottiae</i> C. Muell., <i>M. lasianicum</i> Broth., <i>M. weymouthii</i> Broth.]																
<i>M. peraristatum</i> Broth.	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<i>M. repandum</i> C. Muell.	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
[<i>M. pigioniifolium</i> C. Muell., <i>M. whiteleggi</i> Broth. & Geh.]																
<i>M. stoneae</i> Vitt & Ramsay (ms)†	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○

† Manuscript names, nov. sp. or ssp.

ORTHOTRICHUM Hedw.†										
<i>O. cupulatum</i> Hoffm. ex Brid. var. <i>cupulatum</i>										
<i>O. hortense</i> Bosw.	•	•	•	•	•	•	•	•	•	•
<i>O. longithecum</i> R. Br. ter.	•	•	•	•	•	•	•	•	•	•
[<i>O. acroblypharis</i> C. Muell.]	•	•	•	•	•	•	•	•	•	•
<i>O. rupestre</i> Schleich. ex Schwaegr. var. <i>rupestre</i>	•	•	•	•	•	•	•	•	•	•
[<i>O. sullivanii</i> C. Muell.]	•	•	•	•	•	•	•	•	•	•
<i>O. tasmanicum</i> Hook. f. & Wils. var. <i>tasmanicum</i>	•	•	•	•	•	•	•	•	•	•
[<i>O. encalyptaceum</i> C. Muell., <i>O. laterale</i> Hampe, <i>O. campbelliae</i> Watts & Whitel.]	•	•	•	•	•	•	•	•	•	•
SCHLOTHEIMIA Brid.										
<i>S. brownii</i> Schwaegr.	•	•	•	•	•	•	•	•	•	•
[<i>S. baileyi</i> Broth.]	•	•	•	•	•	•	•	•	•	•
<i>S. funiformis</i> Tayl. ex Dix.	•	•	•	•	•	•	•	•	•	•
ZYGODON Hook. & Tayl.										
<i>Z. hookeri</i> Hampe	•	•	•	•	•	•	•	•	•	•
<i>Z. intermedius</i> B.S.G.	•	•	•	•	•	•	•	•	•	•
[<i>Z. brownii</i> Schwaegr.]	•	•	•	•	•	•	•	•	•	•
<i>Z. menziesii</i> (Schwaegr.) Arnott	•	•	•	•	•	•	•	•	•	•

44. RACOPIACEAE

RACOPILUM P. Beauv.‡										
<i>R. cuspidigerum</i> (Schwaegr.) Aongst. var.	•	•	•	•	•	•	•	•	•	•
[<i>R. pacificum</i> Besch.]	•	•	•	•	•	•	•	•	•	•
<i>R. cuspidigerum</i> (Schwaegr.) Aongst. var. <i>convolutaceum</i> (C. Muell.) Zanl. & Dijkstra	•	•	•	•	•	•	•	•	•	•
[<i>R. convolutaceum</i> (C. Muell.) Reiche, <i>R. strunigerum</i> auct. non (C. Muell.) Mitt. as in NSW]	•	•	•	•	•	•	•	•	•	•

† Determined by J. Lewinsky (in press).
 ‡ Based on studies by van Zanten & Dijkstra (unpubl.).

	L			C			T			WS			WP			FWP		EXTRA NSW	EXTRA AUST
	I	H	L	N	C	S	N	C	S	N	C	S	N	S	N	S			
																	N		
47. HEDWIGIACEAE																			
HEDWIGIA P. Beauv.																			
<i>H. ciliata</i> (Hedw.) Ehrh. ex P. Beauv.	0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	QVTS-WA	Cosmop
[<i>H. albicans</i> Lindb. <i>nom. illeg.</i> , <i>H. juratzkiae</i> C. Muell., <i>H. microcyathica</i> (C. Muell.) Par.]	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	QVTS-WA	Cosmop	
[<i>Hedwigidion integrifolium</i> (P. Beauv.) Dix., <i>Hedwigidium timberbe</i> (Sm.) B.S.G.]	○	●	●	●	●	●	●	●	●	●	●	●	●	●	○				
RHACOCARPUS Lindb																			
<i>R. purpurascens</i> (Brid.) Par.	○	★	●	●	●	●	●	●	●	●	●	●	●	●	●	○	QVTWA	NZ, Afr, N&S Amer. Subant J	
[<i>R. australis</i> (Hook. f. & Wils.) Par., <i>R. humboldtii</i> (Hook.) Lindb.]	○	●	●	●	●	●	●	●	●	●	●	●	●	●	○				
48. CRYPHAEACEAE																			
CRYPHAEA Mohr.																			
<i>C. dilatata</i> Hook. f. & Wils.	○	●	○	●	●	●	●	●	●	●	●	●	●	●	○	QVS	NZ		
[<i>C. muelleri</i> (Hampe) Broth., <i>Cryphidium muelleri</i> (Hampe) Broth., <i>Cyrtodon dilatatus</i> (Hook. f. & Wils.) Par. & Schimp.]	○	●	●	●	●	●	●	●	●	●	●	●	●	○					
<i>C. exannulata</i> Dix. & Sainsb.	○	●	●	●	●	●	●	●	●	●	●	●	●	○	QV	NZ			
<i>C. ovalifolia</i> (C. Muell.) Jaeg.	○	●	●	●	●	●	●	●	●	●	●	●	●	○	Q	NZ, Oc			
[<i>Cyrtodon ovalifolius</i> (C. Muell.) Fletsch., <i>Cryphidium ovalifolium</i> (C. Muell.) Broth., <i>Cryphaea squarritulosa</i> Hampe, <i>Cryphidium squarritulosum</i> (Hampe) Broth.]	○	●	●	●	●	●	●	●	●	●	●	●	●	○	VTA				
<i>C. tasmanica</i> Mitt. in Hook. f. & Wils.	○	●	●	●	●	●	●	●	●	●	●	●	●	○	Q?V?T	NZ			
<i>C. tenella</i> Hornseh. ex C. Muell.	○	●	●	●	●	●	●	●	●	●	●	●	●	○					
[<i>C. brevidens</i> C. Muell.]	○	●	●	●	●	●	●	●	●	●	●	●	●	○					
FORSSTROEMIA Lind.																			
<i>F. australis</i> (C. Muell.) Par.	○	●	●	●	●	●	●	●	●	●	●	●	●	○	Q				
<i>F. subproducta</i> (C. Muell.) Broth.	○	●	●	●	●	●	●	●	●	●	●	●	●	○	Q				
50. CYRTOPODACEAE																			
BESCHERELLIA Duby																			
<i>B. brevifolia</i> Hampe	○	●	●	●	●	●	●	●	●	●	●	●	●	○	Q	As, N Amer			
[<i>B. cyrtopus</i> C. Muell., <i>Cyrtopus bescherellionides</i> C. Muell.]	○	●	●	●	●	●	●	●	●	●	●	●	●	○					

58. METEORACEAE	L		C			T			WS			WP		FWP	EXTRA NSW	EXTRA AUST	
	H	I	N	C	S	N	C	S	N	C	S	N	S				
BARBELLA Fleisch.																	
<i>B. enervis</i> (Thwait. & Mitt.) Fleisch. [<i>Meteorium trichophloides</i> (C. Muell.) Mitt.]	●		○	○	○	○	○	○	○	○	○	○	○	○	○	○	As, Oc
PAPILLARIA (C. Muell.) C. Muell.																	
<i>P. amblyacis</i> (C. Muell.) Jaeg. [<i>Meteorium amblyacis</i> (C. Muell.) Mitt.]	○	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	NZ, Oc
<i>P. crocea</i> (Hampe) Jaeg. [<i>Meteorium kerniadeceuse</i> (C. Muell.) Mitt., <i>P. kerniadeceuse</i> (C. Muell.) Jaeg., <i>Trachypis hornschuchii</i> Mitt.]	○	●	●	○	○	●	○	○	○	○	○	○	○	○	○	○	NZ, Oc
<i>P. flavolimbata</i> (C. Muell. & Hampe) Jaeg. [<i>P. cerina</i> (Hook. f. & Wils.) Par.]	○	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	NZ
<i>P. flexicaulis</i> (Wils.) Jaeg. [<i>P. filipendula</i> (Hook. f. & Wils.) Jaeg., <i>P. scottiae</i> (C. Muell.) Par., <i>Cryphaca novae- valesiae</i> C. Muell. <i>nom. nud.</i>]	○	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	As, NZ, S.Amer
<i>P. intricata</i> (Mitt.) C. Muell. & Broth. ... [<i>Meteorium intricatum</i> Mitt.]	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Oc
<i>P. nitens</i> (Hook. f. & Wils.) Sainsb. ... [<i>P. nitidiuscula</i> Broth.]	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	NZ
PILOTRICHELIA (C. Muell.) Besch.																	
<i>P. dimorpha</i> (C. Muell.) Jaeg. ... [<i>Meteorium dimorphum</i> (C. Muell.) Mitt.]	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
WEYMOUTHIA Broth.																	
<i>W. mollis</i> (Hedw.) Broth. ...	●		○	○	○	○	○	○	○	○	○	○	○	○	○	○	NZ, S Amer
59. PHYLOGONIACEAE†																	
CATAGONIUM C. Muell. ex Broth.																	
<i>C. politum</i> (Hook. f. & Wils.) Dus. ex Broth.	●	★	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Afr, NZ, S.Amer
ORTHORRHYNCHIUM Reichdt.																	
<i>O. elegans</i> (Hook. f. & Wils.) Reichdt. ... [<i>O. cymbifoloides</i> C. Muell., <i>O. hampeanum</i> C. Muell.]	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	SE, As, NZ, Oc

†See Lin (1983) for new classification.

60. NECKERACEAE

CALYPTOTHECIUM Mitt.

- C. acutum (Mitt.) Broth.
- C. cuspidatum (Okam.) Nog.
- C. humile (Mitt.) Broth.

As
S Amer

LEPTODON, Moh.

- L. smithii (Hedw.) Web. & Mohr.
- [*L. australis* C. Muell.]

Cosmop

NECKERA Hedw.

- N. pennata Hedw.
- [*N. hyenodonta* C. Muell.]
- N. leichhardtii Hampe
- [Known only from specimen in BM.]

Cosmop

THAMNOBRYUM Nieuwl.

- T. pandum (Hook. f. & Wils.) Stone & Scott
- [*Thamnitium pandum* (Hook f. & Wils.) Jacq.,
- Thamnitium elongellare* Aongstr.]
- T. pumilum (Hook. f. & Wils.) Nieuwl.
- [*Thamnitium pumilum* (Hook. f. & Wils.)
- Kindb., *Thamnitium gracillimum* (Hampe)
- Broth. & Watts, *Homalia acuminata* C.
- Muell.]
- [Previous record not substantiated:
- T. novae-valesiae* Kindb.]

NZ, SE As

NZ, Oe,
S Amer

61. LEMBOPHYLLACEAE

CAMPTOCHAETE Reichdt.

- C. arbuscula (Sm.) Reichdt.
- [*C. ramulosa* (Mitt.) Jaeg., *Porotrichum*
- arbusculum* (Sm.) Mitt.]
- C. arbuscula (Sm.) Reichdt. var. *deflexa*
- (Wils.) Dix.
- [*C. brisbanica* C. Muell. *nom. nud.* in *synon.*,
- C. deflexa* (Wils.) Jaeg.]
- C. excavata (Tayl.) Jaeg.
- C. gracilis (Hook. f. & Wils.) Par.
- [*Lembophyllum brisbanicum* C. Muell. *nom.*
- nud.*]
- C. leichhardtii (Jacq.) Broth.

NZ, As, Oe

NZ, Oe

NZ, S
Amer

Oe

68. HYPOPTERYGIACEAE	L			C			T			WS			WP			FWP		EXTRA NSW	EXTRA AUST
	L	H	I	N	C	S	N	C	S	N	C	S	N	S	N	S			
CYATHOPHORUM P. Beauv. <i>C. bulbosum</i> (Hedw.) C. Muell. [<i>C. penninatum</i> (Labill.) Brid., <i>C. pteridioides</i> P. Beauv.]	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	QVT	NZ, As, Oc
HYPOPTERYGIUM Brid. <i>H. muelleri</i> Hampe [<i>H. scottiae</i> C. Muell.]	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	Q	NZ, As
<i>H. rotulatum</i> (Hedw.) Brid. [<i>H. didictyon</i> C. Muell., <i>H. novae-zeelandiae</i> C. Muell.]	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	QVTS A	NZ, Oc, S. Amer
LOPIDIUM Hook. f. & Wils. <i>L. concinnum</i> (Hook.) Wils. [<i>L. plumarium</i> (Mitt.) Hampe, <i>Hypopterygium hyalino-limbatum</i> C. Muell. <i>nom. nud.</i> , <i>H. pallens</i> (Hook. f. & Wils.) Mitt.]	○			●	●	●	●	●	●	●	●	●	●	●	●	●	●	VT	NZ, S. Amer
70. FABRONIACEAE																			
ANACAMPTODON Brid. <i>A. wattii</i> Broth.	○	★	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		
FABRONIA Raddi <i>F. australis</i> Hook. [<i>F. tayloriana</i> Hampe, <i>F. hampeana</i> auct. non Sonder] <i>F. brachyphylla</i> C. Muell. <i>F. scottiae</i> C. Muell.	○	●	★	●	●	●	●	●	●	●	●	●	●	●	●	●	●	QVTS- WA	NZ
ISCHYRODON C. Muell. <i>I. lepturus</i> (Tayl.) Schelpe [<i>I. serotius</i> (C. Muell.) C. Muell., <i>Fabronia leptura</i> Tayl., <i>Juratzkaea leptura</i> (Tayl.) Buck]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	VSW	NZ, S Afr
HELICODONTIADELPHUS Dix. <i>H. australensis</i> Dix. † [<i>Eriodon cylindricheca</i> (Dix.) Dix. & Sainsb. ex Sainsb.]	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		

† Known only from specimens at E, NY, BM.

PUNGENTELLA C. Muell.										
●	○	○	○	○	○	○	○	○	○	○
P. subfalcatum (Broth. & Watts) C. Muell.										
[Rhaphidorrhynchium subfalcatum (Broth. & Watts) Broth., Rhaphidostegium subfalcatum Broth. & Watts]										
SEMATOPHYLLUM Mitt.										
●	○	○	○	○	○	○	○	○	○	○
S. aciculum (Dix.) Dix.										
[Rhaphidostegium actutum Broth. ex Dix.]										
●	○	○	○	○	○	○	○	○	○	○
S. amoenum (Hedw.) Mitt.										
[Rhaphidorrhynchium amoenum (Hedw.) Fleisch., Rhaphidostegium callitoides (C. Muell.) Jaeg., Rhaphidorrhynchium callitoides (C. Muell.) Broth.]										
●	○	○	○	○	○	○	○	○	○	○
S. contiguum (Mitt.) Mitt.										
[Rhaphidostegium contiguum (Mitt.) Par.]										
○	○	○	○	○	○	○	○	○	○	○
S. crassiusculum (Brid.) Broth.										
[Rhaphidostegium crassiusculum Brid.]										
○	○	○	○	○	○	○	○	○	○	○
S. elachistos (Besch.) Broth.										
○	○	○	○	○	○	○	○	○	○	○
S. homomallum (Hampe) Broth.										
[Rhaphidorrhynchium homomallum (Hampe) Mitt., Rhaphidostegium homomallum (Hampe) Broth.]										
○	○	○	○	○	○	○	○	○	○	○
S. joliffii (Hook. f.) Dix.										
[Rhaphidorrhynchium joliffii Hook. f.]										
○	○	○	○	○	○	○	○	○	○	○
S. luciduloides (Dix.) Mitt.										
[Rhaphidostegium luciduloides Dix.]										
○	○	○	○	○	○	○	○	○	○	○
S. uncinatum Stone & Scott										
[Rhaphidorrhynchium tenuirostre (Hook.) Broth., Rhaphidostegium tenuirostre (Hook.) Jaeg.]										
○	○	○	○	○	○	○	○	○	○	○
S. wattsi (Par.) Broth.										
[Rhaphidostegium wattsi Par., Rhaphidostegium micropyxis Broth.]										
TAXITHELIUM Spruce ex Mitt.										
○	○	○	○	○	○	○	○	○	○	○
T. novae-valesiae (Broth.) Broth.										
[Isopterygium novae-valesiae Broth.]										
TRICHOSTELEUM Mitt.										
○	○	○	○	○	○	○	○	○	○	○
T. muscrolum Broth.										
WARBURGIELLA C. Muell.										
○	○	○	○	○	○	○	○	○	○	○
W. subleptorrhynchoides (Fleisch.) Fleisch.										

83. POLYTRICHACEAE (cont'd)	L			C			T			WS			WP		FWP		EXTRA NSW	EXTRA AUST
	H	I	N	C	S	N	C	S	N	C	S	N	S	N	S			
<i>POLYTRICHADELPHUS</i> (C. Muell.) Mitt. <i>P. magellanicus</i> (Hedw.) Mitt. [<i>P. innovans</i> (C. Muell.) Jaeg.]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	QVT	NZ, S Amer
<i>POLYTRICHASTRUM</i> G.L. Smith <i>P. alpinum</i> (Hedw.) G.L. Smith [<i>Polytrichum alpinum</i> Hedw.]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VTA	NZ, Cosmop
<i>POLYTRICHUM</i> Hedw. <i>P. brachypelma</i> C. Muell. <i>P. catactarum</i> C. Muell. <i>P. commune</i> Hedw. <i>P. juniperinum</i> Hedw. [<i>P. cyrellonitrium</i> C. Muell., <i>P. riparonitrium</i> C. Muell., ? <i>P. piliferum</i> Hedw., [<i>P. sullivanii</i> Hampe] [Previous record not substantiated: <i>P. recurvipilum</i> C. Muell.]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	QVTA QV TSA	Cosmop Cosmop
<i>PSILOPILUM</i> Brid. <i>P. australe</i> Hook. f. & Wils.) Mitt. <i>P. erisipulum</i> (Hook. f. & Wils.) Mitt. [<i>P. pyriforme</i> (Hampe) Jaeg.]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VT VT	NZ, S Afr. Subant 1 NZ
84. DAWSONIACEAE DAWSONIA R. Br. <i>D. longiseta</i> Hampe [<i>D. appressa</i> Hampe, <i>D. victoriae</i> C. Muell.] <i>D. polytrichoides</i> R. Br. <i>D. superba</i> Grev. var. <i>pulchra</i> (Wijk) Zant. [<i>S. pulchra</i> Wijk, <i>D. intermedia</i> C. Muell. ex Schlieph. & Geh., <i>D. longifolia</i> (Brueh. & Schimro. in B.S.G.) Zant. var. <i>superba</i> Zant.]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	QV TSA	NZ As, NZ

INDEX TO SYNONYMS

- Acanthocladium crinitum* (Hook. f. & Wils.) Broth. in Par. = *Wijkia* *excnuata*
- A. crossii* (Broth.) Geh. ex Broth. = *Wijkia crossii*
- A. excavatum* (Brid.) Mitt. = *Wijkia extenuata*
- Acaulon anstro-miticum* Geh. ex Roth = *A. integrifolium*
- A. sullivani* C. Muell. = *A. integrifolium*
- Aerocladium atricellatum* auct. non (Mont.) Mitt. = *A. chlamydophyllum*
- A. cuspidatum* (Hedw.) Lindb. = *Calliergonella cuspidata*
- Aloina ambigua* (B.S.G.) Limpr. = *A. aloides* var. *ambigua*
- Amphistegium subretaxum* Broth. = *Cratoneuropsis subrelaxa*
- A. fontinaloides* (Hampe) Mitt. = *Drepanocladus fontinaloides*
- Andreaea anhydropila* C. Muell. ex Broth. = *A. mutabilis*
- A. rupestris* auct. non Hedw. = *A. mutabilis*
- A. subulata* C. Muell. = *A. subulata*
- Anisotetrum pycnoglossum* Broth. = *Dicranella pycnoglossa*
- A. jamesonii* Mitt. = *Dicranella jamesonii*
- Aongstroemia stackhousiana* C. Muell. = *Dicranella stackhousiana*
- A. rufi-aureum* (Hampe) Willis = *Ditrichum rufi-aureum*
- Aplodium lineare* Mitt. = *Orhodontium lineare*
- Archidium brisbanicum* Broth. = *Eceremidium brisbanicum*
- A. stolonaceum* C. Muell. = *Eceremidium pulchellum*
- Axonium brisbanicum* (C. Muell.) Broth. = *Trachycarpidium brisbanicum*
- A. cylindricum* (Tayl.) Mitt. = *Tetrapterum cylindricum*
- A. novae-vaesiae* Broth. ex Roth = *Weissia novae-vaesiae*
- A. viride* C. Muell. = *Pleuroidium viride*
- A. vasisii* Broth. ex Roth = *Trachycarpidium brisbanicum*
- Atrichum angustatum* (Brid.) B.S.G. var. *polysetum* Watts & Whitel. = *A. androgynum*
- A. figulatum* Mitt. = *A. androgynum*
- Barbella trichophoroides* (C. Muell.) Broth. = *B. enervis*
- Barbula atro-virens* (Sm.) Schimp. = *Desmatodon convolutus*
- B. calycina* Schwaegr. = *Tortella calycina*
- B. pilifera* (Hook.) Brid. = *B. erinita*
- B. pseudopilifera* C. Muell. & Hampe = *B. erinita*
- B. rotundata* Lindb. & Arn. = *Bryoerthrophyllum rotundatum*
- B. subspiralis* Hampe = *B. hoenschuchiana*
- Bartramia erecta* (Hampe) Broth. = *B. hampei*
- B. mossmaniana* C. Muell. = *B. halleniana*
- B. strictifolia* Tayl. = *B. stricta*
- Bartramithula hampei* Mitt. = *Bartramia hampei*
- Bescherellia cyrtopus* F. Muell. = *B. brevifolia*
- Blindia tenuifolia* (Hook. f. & Wils.) Mitt. = *B. robusta*
- Brachyentium chloroblastum* Watts & Whitel. = *B. preissianum*
- B. pilosiheticum* Watts & Whitel. = *B. preissianum*
- Brachysetum anstrale* (Hampe) Jaeg. = *Ptychomitrium australe*
- B. laxifolium* C. Muell. = *Ptychomitrium laxifolium*
- Brachylaelum pseudo-plumosum* (Brid.) Brockm. = *B. plumosum*
- Braclia commutata* Jaeg. = *B. affinis*
- B. divaricata* (Mitt.) Mitt. = *B. pendula*
- B. fusco-aurea* Broth. = *B. pendula*
- B. steberi* Hornsch. ex C. Muell. = *B. pendula*
- Bruchia amoena* C. Muell. = *Trematodon amoenum*
- B. whitelegget* C. Muell. = *Eceremidium minutum*
- Bryobarranitia robbinsii* Sainsb. = *B. novae-vaesiae*
- Bryoerthrophyllum bmsii* (R. Br. ter.) Wijk & Marg. = *B. jamesonii*
- Bryum abrupinervium* C. Muell. = *B. billardieri* var. *billardieri*
- B. acuticellum* Broth. & Watts = *B. dichotomum*
- B. affine* Lindb. & Arn. = *B. ereberrimum*
- B. amoenum* Wright non Broth. = *B. subfasciculatum*
- B. appressifolium* Broth. = *B. australe*
- B. austro-affine* Broth. = *B. pseudotriquetrum*
- B. austro-alpinum* C. Muell. = *B. crassum*
- B. baileyi* Broth. = *B. niens*
- B. bicolor* Dicks. = *B. pachytheca*
- B. binum* (Brid.) Turn. = *B. pseudotriquetrum*
- B. brachyaris* C. Muell. in Mitt. = *B. billardieri* var. *billardieri*
- B. brachytrichella* C. Muell. = *B. dichotomum*
- B. brevinaulosum* (Hampe) Mitt. = *B. billardieri* var. *billardieri*
- B. brunneidens* C. Muell. = *B. billardieri* var. *billardieri*
- B. cheelii* Broth. = *B. muchlenbeckii*
- B. clavatum* Hook. f. & Wils. = *B. erythrocarpoides*
- B. crenatidens* C. Muell. = *B. billardieri* var. *billardieri*
- B. crispatum* (Hampe) Mitt. = *B. billardieri* var. *billardieri*
- B. curvicolium* Mitt. = *B. erythrocarpoides*
- B. dilatato-marginatum* C. Muell. = *B. subfasciculatum*
- B. diversiverge* Broth. & Watts = *B. erythrocarpoides*
- B. erythrospyx* C. Muell. = *B. capillare* ssp. *torqueseens*
- B. flarum* Broth. = *B. erythrocarpoides*
- B. forsythii* Broth. = *B. billardieri* var. *billardieri*
- B. gaultherense* C. Muell. = *B. pachytheca*
- B. globulare* Hampe in C. Muell. = *B. billardieri* var. *billardieri*
- B. howeanum* Broth. & Watts = *B. campylothecetum*
- B. immarginatum* Broth. = *B. capillare*
- B. kiamac* Broth. = *B. erythrocarpoides*
- B. laxivire* Broth. = *B. caespitietum*

- B. leptopelma* C. Muell. = *B. chrysoneuron*
B. leptothectoides Broth. & Wats. = *B. capillare*
B. leptothectum Tayl. = *B. billardieri* var. *billardieri*
B. locheurou C. Muell. = *B. chrysoneuron*
B. microevyrocarpum C. Muell. & Kindsb. = *B. pachytheca*
B. micropachypoma Broth. = *B. nitens*
B. nigrifolium C. Muell. = *B. chrysoneuron*
B. oblongifolium C. Muell. = *B. blandum*
B. olivaceum (Hampe) Muell. = *B. billardieri* var. *billardieri*
B. pachypoma Mont. = *B. plumosum*
B. pachypomatium Broth. = *B. nitens*
B. peraristatum C. Muell. = *B. campylothecium*
B. philonotidum Broth. & Wats. = *B. dichotomum*
B. pimpinacae C. Muell. = *B. dichotomum*
B. pollicaeopsis C. Muell. = *B. billardieri* var. *billardieri*
B. pusillum Broth. = *B. capillare*
B. pyrothecium C. Muell. & Hampe = *B. capillare* ssp. *torquescens*
B. robustum Hampe = *B. billardieri* var. *billardieri*
B. rufescens Hook. f. & Wils. = *B. billardieri* var. *billardieri*
B. subaenacum Hampe & C. Muell. = *B. pachytheca*
B. subatro-purpureum C. Muell. = *B. coronatum*
B. subcrispatum C. Muell. = *B. billardieri* var. *billardieri*
B. subcupulatum C. Muell. ex Rodw. = *B. dichotomum*
B. subcurvicolium Broth. = *B. erythrocarpoides*
B. suberythrocarpum C. Muell. = *B. chrysoneuron*
B. sublongimervium Geh. in Wats. & Whitel. = *B. capillare*
B. subulvaceum C. Muell. = *B. subfasciculatum*
B. subpachypoma Hampe = *B. nitens*
B. subomentosum (Hampe) Mitt. = *B. billardieri* var. *billardieri*
B. subventricosum Broth. = *B. pseudotriquetrum*
B. sullivanii C. Muell. = *B. pachytheca*
B. synoicum C. Muell. = *B. capillare* ssp. *torquescens*
B. tasmanicum Hampe = *B. eruberimum*
B. viridulum C. Muell. = *B. subfasciculatum*
B. waitii Broth. = *B. chrysoneuron*
B. whiteleggeri Broth. = *B. capillare*
- Calanopterum lacunatum* Hook. f. & Wils. = *C. complanatum*
Calymperes armatum Broth. = *Syrriopodon incompletus*
Campyllum relaxum (Hook. f. & Wils.) Broth. = *Cratoneuropsis relaxa*
C. decussatum (Hook. f. & Wils.) Broth. = *Cratoneuropsis relaxa*
C. subrelaxum (Broth.) Broth. = *Cratoneuropsis subrelaxa*
Campiochaete brisbanica C. Muell. = *C. arbuscula* var. *deflexa*
C. deflexa (Wils.) Jaeg. = *C. arbuscula* var. *deflexa*
C. ramulosa (Mitt.) Jaeg. = *C. arbuscula*
- Campylopus compressifolius* Mitt. = *C. clavatus*
C. insititus Hook. f. & Wils. = *C. clavatus*
C. novae-valesiae Broth. = *C. pallidus*
C. pudicus (C. Muell.) Jaeg. = *C. inroflexus*
C. tasmanicus Par. = *C. inroflexus*
C. torquatus Mitt. = *C. pallidus*
C. woollsi (C. Muell.) Par. = *C. pallidus*
Catharinaea leptocylindrica C. Muell. = *Atrichum androgynum* var. *androgynum*
C. muelleri C. Muell. & Hampe = *Atrichum androgynum* var. *androgynum*
Ceratodon convolutus Reichdt. = *C. purpureus*
C. steuocarpus Bruch. & Schimp. ex C. Muell. = *C. purpureus*
Cheilothela chilensis (Mont.) Broth. = *Chrysoblastella chilensis*
Conostomum australe Sw. = *C. pentastichum*
Cryphaea muelleri (Hampe) Broth. = *C. dilatata*
C. brevidens C. Muell. = *C. tenella*
C. novae-valesiae C. Muell. = *Papillaria flexicaulis*
C. sauarulosa Hampe = *C. ovalifolia*
Cryphidium muelleri (Hampe) Broth. = *Cryphaea dilatata*
C. ovalifolium (C. Muell.) Broth. = *Cryphaea ovalifolia*
C. squarulosum (Hampe) Broth. = *Cryphaea ovalifolia*
Craethophorum pennatum (Labill.) Brid. = *C. bulbosum*
C. premdoides P. Beauv. = *C. bulbosum*
Cyrtodon dilatatus (Hook. f. & Wils.) Par. & Schimp. = *Cryphaea dilatata*
C. ovalifolius (C. Muell.) Fleisch. = *Cryphaea ovalifolia*
Cyrtopus beschereiloides C. Muell. = *Bescherellia brevifolia*
- Dawsonia appressa* Hampe = *D. longiseta*
D. intermedia C. Muell. ex Schlieph. & Geh. = *D. superba* var. *pulehra*
D. longifolia (Bruch. & Schimp. in B.S.G.) Zant. var. *superba* Zant. = *D. superba* var. *pulehra*
D. superba var. *pulehra*
D. pulehra Wijk. = *D. superba* var. *pulehra*
D. victoriae C. Muell. = *D. longiseta*
Desmatodon adustus Mitt. = *Barbula hornsuschiana*
Dichodontium waitii (Broth.) Broth. = *Dicranella cardotii*
Dischidophyllum leucoloma Broth. = *D. longicauspis*
Dicnemoloma sieberianum (Hornsch.) Broth. = *Dicnemoloma pallidum*
Dicranella waitii Broth. = *D. cardotii*
D. tricaruris (C. Muell.) Mitt. = *D. dietrichiae*
Dicranoloma bartramoides (Broth.) Par. = *D. menziesii*
Dicranum dicarpum Nees = *Dicranoloma dicarpum*
D. sullivanii C. Muell. = *Dicranoloma sullivanii*
D. whiteleggeri C. Muell. = *Dicranoloma argutum*
D. scoparium Hedw. ssp. *bonjeanii* (De Not.) Groul. = *Dicranum bonjeanii*

- Didymodon rotundatus* (Lindb. & Arn.) Par. = Bryoerthrophyllum rotundatum
- Distichophyllum amblyophyllum* (Hook. f. & Wils.) Mitt. = *D. pulchellum*
- D. fissidentoides* C. Muell. = *D. rotundifolium*
- D. leucoloma* Broth. = *D. longiscapus*
- D. squarrosulum* C. Muell. = *D. rotundifolium*
- Diurichium affine* (C. Muell.) Hampe = *D. difficile*
- D. baileyi* C. Muell. = *D. difficile*
- D. elongatum* (Hook. f. & Wils.) Mitt. = *D. cylindricarpum*
- D. flaccidulum* C. Muell. in Watts & Whitel. = *D. difficile*
- D. flexifolium* Hampe = *D. difficile*
- D. muelleri* (Hampe) Hampe = *D. difficile*
- D. setosum* (Hook. f. & Wils.) Reicht. = *D. difficile*
- D. subbrachycarpum* (C. Muell.) Par. = *D. brachycarpum*
- Drepanocladus brachiatas* (Mitt.) Dix. = *D. aduncus*
- D. strictifolius* Broth. & Wats = *Leptodictyum riparium*
- Echinodinium arboreum* Broth. = *E. hispidum*
- Ectropothecium slateri* (Hampe) Jaeg. = *Vesicularia slateri*
- Encalypta australis* Mitt. = *E. vulgaris*
- E. tasmanica* Hampe = *E. vulgaris*
- Entosthodon apophysata* (Tayl.) Mitt. = *Funaria apophysata*
- E. aristatus* (Broth.) Par. = *Funaria aristata*
- E. gracilis* Hook. f. & Wils. = *Funaria gracilis*
- E. smithurstii* (Broth. & Geh.) Par. = *Funaria smithurstii*
- E. squarriifolia* (Broth.) Par. = *Funaria squarriifolia*
- Ephenerum whiteleggei* Broth. & Geh. = *Eccremidium minutum*
- Eriopus apiculatus* (Hook. f. & Wils.) Mitt. = *Calyptrochaeta apiculata*
- Eupychium cuspidatum* (Mitt.) Mitt. = *E. setigerum*
- Fabronia hampeana* auct. non Sonder = *F. australis*
- F. leptuca* Tayl. = *Ischyrodon lepturus*
- F. tayloriana* Hampe = *F. australis*
- Fissidens brevifolius* Hook. f. & Wils. = *F. taylorii*
- F. dierrichiae* C. Muell. = *F. crassipes*
- F. elanellosus* C. Muell. & Hampe = *F. taylorii*
- F. macrodus* Hampe = *F. taylorii*
- F. muelleri* (Hampe) Mitt. = *F. fontanus*
- F. praenolitis* Broth. = *F. crassipes*
- F. senilimbatus* C. Muell. & Hampe = *F. taylorii*
- F. whiteleggei* C. Muell. ex Rodway = *F. pallidus*
- Funaria calvescens* Schwaegr. = *F. hygrometrica*
- F. crispula* Hook. f. & Wils. = *F. glabra*
- F. hygrometrica* Hedw. var. *sphaerocarpa* C. Muell. = *F. hygrometrica*
- F. subnuda* Tayl. = *F. glabra*
- F. tasmanica* C. Muell. & Hampe = *F. glabra*
- Glyphomitrium adansonii* Mitt. = *Ptychomitrium australe*
- G. commutatum* (C. Muell.) Broth. = *Ptychomitrium australe*
- G. howeanum* (Hampe) Broth. = *Ptychomitrium muelleri*
- G. muelleri* (C. Muell.) Broth. = *Ptychomitrium muelleri*
- Goniobryum pellicidum* (Mitt.) Broth. = *G. subbasilare*
- Grimmia alpestris* Sommerf. = *G. donniana*
- G. apocarpa* Hedw. = *Schistidium apocarpum*
- G. campestris* Burchell ex Hook. = *G. laevigata*
- G. cycnifolia* Tayl. = *G. pulvinata* var. *africana*
- G. flexifolia* Hampe = *Schistidium rivulare* ssp. *rivulare*
- G. leiocarpa* Tayl. = *G. laevigata*
- G. leucophleba* Grev. = *G. laevigata*
- G. mutica* Hampe = *Schistidium apocarpum*
- G. pulvinata* (Hedw.) Sm. var. *obtrusa* (Brid.) Heub. = *G. pulvinata* var. *africana*
- Gymnostomum calcareum* (Nees) Hornsch. = *G. aeruginosum*
- Haplomyenium breviterve* (Broth.) Broth. = *H. pseudotriste*
- Hedwigia albicans* Lindb. = *H. ciliata*
- H. juratzkae* C. Muell. = *H. ciliata*
- H. microvulva* (C. Muell.) Par. = *H. ciliata*
- Hedwigidium imberbe* (Sm.) B.S.G. = *Hedwigia integrifolia*
- H. integrifolium* (P. Beauv.) Dix. = *Hedwigia integrifolia*
- Holomitrium detriticae* C. Muell. = *H. perichaetiale*
- H. hodgkinsoniae* C. Muell. = *H. perichaetiale*
- H. muelleri* Hampe = *H. perichaetiale*
- H. whiteleggei* C. Muell. = *H. perichaetiale*
- Homalia acuminata* C. Muell. = *Thamnobryum pumilum*
- Hookeria karstentiana* Broth. & Geh. = *Cylodictyon lepidum*
- Hydrodendron praecitens* (Hampe) Mitt. = *Pterobryella praecitens*
- Hypopterygium dictyon* C. Muell. = *H. rotulatum*
- H. hyalino-limbatum* C. Muell. = *Lopidium concinnum*
- H. novae-zeelandiae* C. Muell. = *H. rotulatum*
- H. pallens* (Hook. f. & Wils.) Mitt. = *Lopidium concinnum*
- H. scottiae* C. Muell. = *H. muelleri*
- Hydrodendron arcuatum* non Hedw. = *H. vitense* ssp. *australe*
- H. arcuatum* (Hedw.) Mitt. *pro parte* = *H. spinervium* ssp. *archeri*
- H. whiteleggei* C. Muell. ex Burges = *H. vitense* ssp. *australe*
- Hypnum cupressiformis* L. var. *mossmanni* = *H. cupressiforme* var. *mossmannianum*
- H. mossmannianum* C. Muell. = *H. cupressiforme* var. *mossmannianum*

- Ischyrodon seriolus* (C. Muell.) C. Muell. = *I. lepturus*
Isoperygium austro-pustillum (C. Muell.) Jaeg. = *I. minutirameum*
I. austro-subulatum C. Muell. = *I. minutirameum*
I. candidum (C. Muell.) Jaeg. = *I. albescens*
I. novae-valesiae Broth. = *Taxithelium novae-valesiae*
I. mollicium (Sull.) Mitt. = *I. albescens*
Jurat-kaea leptura (Tayl.) Buck = *Ischyrodon lepturus*
Lanbophyllum brisbanicum C. Muell. = *Camptochaete gracilis*
L. claudesimum (Hook. f. & Wils.) Lindb. = *L. divulsum*
L. vagans (C. Muell.) Lindb. = *Camptochaete vaga*
Leptodictyum muelleri (Hampe & C. Muell.) Broth. = *L. riparium*
Leptodon australis C. Muell. = *L. smithii*
Leptodontium interruptum (Mitt.) non Broth. = *L. paradoxum*
Leucobryum brachyphyllum Hampe = *L. candidum*
L. speirostichum C. Muell. in Geh. = *L. candidum* var. *pentastichum*
L. spirostichum C. Muell. in Mitt. = *L. candidum* var. *pentastichum*
L. strictifolium Broth. = *L. candidum*
L. taysannianum Dozy & Molk. = *L. candidum*
Leucoloma austro-scoparium C. Muell. ex Broth. = *Dicranoloma argutum*
L. dicarpum (Nees) Broth. = *Dicranoloma dicarpum*
L. sieberianum (Hornsch.) Jaeg. = *Dicranoloma pallidum*
L. serratum Broth. = *Dicranoloma serratum*
Lopidium plumarium (Mitt.) Hampe = *L. concinnum*
Macromitrium asperidium Mitt. = *M. ligulare*
M. brevisetatum Hampe = *M. brachypodium*
M. carinatum Mitt. = *M. involutifolium* ssp. *pychomitrioides*
M. circinoeladum C. Muell. = *M. diaphanum*
M. daemelii C. Muell. = *M. involutifolium*
M. dimorphum C. Muell. = *M. caloblastoides*
M. eucalyptorum C. Muell. & Hampe = *Macrocoma tenue* ssp. *tenuc*
M. gehcehii C. Muell. = *Macrocoma tenue* ssp. *tenuc*
M. figulatum C. Muell. = *M. ligulacifolium*
M. malacoblastum C. Muell. = *M. involutifolium*
M. microphyllum (Hook. & Grev.) Brid. = *Macrocoma tenue* ssp. *tenuc*
M. novae-valesiae C. Muell. = *Macrocoma tenue* ssp. *tenuc*
M. profluum Bosw. = *M. microstomum*
M. pugionifolium C. Muell. = *M. repandum*
M. pustillum Mitt. = *M. archeri*
M. rodwayi Dix. = *M. longirostre*
M. scottiae C. Muell. = *M. microstomum*
M. subbrevicaulis Broth. & Watts = *M. brevicaulis*
M. tasmanicum Broth. = *M. microstomum*
M. watsonii Broth. = *M. brevicaulis*
M. weissioides C. Muell. = *M. ligulare*
M. weynottii Broth. = *M. microstomum*
M. whiteleggi Broth. & Geh. = *M. repandum*
M. woodstianum C. Muell. = *M. ligulacifolium*
Metorium amblyactis (C. Muell.) Mitt. = *Papillaria amblyactis*
M. dimorphum (C. Muell.) Mitt. = *Piloricella dimorpha*
M. intricatum Mitt. = *Papillaria intricata*
M. kernadecensis (C. Muell.) Mitt. = *Papillaria crocea*
M. trichophoroides (C. Muell.) Mitt. = *Barbella enervis*
Micronitrium brisbanicum (Broth.) Crosby = *Eccremidium brisbanicum*
Mitichloforia ecklonii Hornsch. = *M. bryoides*
M. jorsviti Broth. = *M. australis*
Mitenia rotundifolia (C. Muell.) Par. = *M. plumula*
Mniadelphis adnatus (Hook f. & Wils.) Reichdt. = *Distichophyllum crispulatum*
M. amblyophyllus (Hook. f. & Wils.) Jaeg. = *Distichophyllum pulchellum*
M. crispulus (Hook. f. & Wils.) C. Muell. = *Distichophyllum crispulum*
M. subminutifolius Broth. & Geh. = *Distichophyllum subminutifolium*
Mnibryum albicans (Wahlenb.) Limpr. = *Pohlia wahlenbergii*
M. tasmanicum Broth. = *Pohlia wahlenbergii*
M. wahlenbergii (Web. & Mohr.) Jenn. = *Pohlia wahlenbergii*
Mniodendron comosum (Labill.) Lindb. = *Hypnodendron comosum*
Mnium rostratum auct. non Schrad. = *Plagiomnium novae-zealandiae*
M. longirostrum Brid. = *Plagiomnium novae-zealandiae*
M. novae-valesiae C. Muell. in Geh. = *Plagiomnium novae-zealandiae*
Nanonitrium brisbanicum (Broth.) Broth. = *Eccremidium brisbanicum*
Neckera hymenodonta C. Muell. = *N. pennata*
Orthodontium australe Hook. f. & Wils. = *O. lineare* ssp. *sulcatum*
O. ovale C. Muell. ex Broth. = *O. inflatum*
O. pallens (Hook. f. & Wils.) Broth. = *O. lineare* ssp. *sulcatum*
O. sulcatum Hook. f. & Wils. = *O. lineare* ssp. *sulcatum*
O. zostercedii C. Muell. = *O. lineare* ssp. *sulcatum*
Orthorhynchium cyathifoloides C. Muell. = *O. elegans*
O. hampicum C. Muell. = *O. elegans*
Orthotrichum acrolepharis C. Muell. = *O. longithecum*
O. campbelliae Watts & Whitel. = *O. tasmanicum*
O. encalyptaceum C. Muell. = *O. tasmanicum*
O. laterale Hampe = *O. tasmanicum*
O. sullivani C. Muell. = *O. rupestre*
Oxyrrhynchium austrinum (Hook. f. & Wils.) Broth. = *Eurhynchium austrinum*
O. speciosum (Brid.) Warnst. = *Eurhynchium speciosum*

- P. serratum* (Mitt.) Hook. f. & Wils. *non. illeg.* = *P. mittenii*
- Racomitrium leptostomoides* Forster = *Racomitrium lanuginosum*
R. sullivanii (C. Muell.) Broth. = *Racomitrium crispulum*
R. synphodon Jaeg. = *Racomitrium crispulum*
Racomitrium convolutaceum (C. Muell.) Reichdt. = *R. cuspidigerum* var. *convolutaceum*
R. pacificum Besch. = *R. cuspidigerum* var. *cuspidigerum*
R. stramineum (C. Muell.) Mitt. = *R. cuspidigerum* var. *convolutaceum*
Rhacocarpus australis (Hook. f. & Wils.) Par. = *R. purpurascens*
R. lumboldtii (Hook.) Lindb. = *R. purpurascens*
Rhaphidorrhynchium autoeumum (Hedw.) Fleisch. = *Sematophyllum amoenum*
R. callidioides (C. Muell.) Broth. = *Sematophyllum amoenum*
R. homomallum (Hampe) Mitt. = *Sematophyllum homomallum*
R. jolliffii Hook. f. = *Sematophyllum jolliffii*
R. subfalcatulum (Broth. & Wats) Mitt. = *Pungentella subfalcatulum*
R. tenuirostre (Hook.) Broth. = *Sematophyllum uncinatum*
Rhaphidostegium aciculatum Broth. ex Dix. = *Sematophyllum aciculatum*
R. callidioides (C. Muell.) Jaeg. = *Sematophyllum amoenum*
R. contiguum (Mitt.) Par. = *Sematophyllum contiguum*
R. crassiusculum Brid. = *Sematophyllum crassiusculum*
R. homomallum (Hampe) Broth. = *Sematophyllum homomallum*
R. luciduloides Dix. = *Sematophyllum luciduloides*
R. micropyrus Broth. = *Sematophyllum watsii*
R. subfalcatulum (Broth. & Wats) Broth. = *Pungentella subfalcatulum*
R. tenuirostre (Hook.) Jaeg. = *Sematophyllum uncinatum*
R. watsii Par. = *Sematophyllum watsii*
Rhizogonium gelcebit C. Muell. = *R. distichum*
R. graeffeanum (C. Muell.) Jaeg. = *R. distichum*
R. minioides (Hook. f. & Wils.) Reichdt. = *Pyrrhobryum minioides*
R. parramattense (C. Muell.) Reichdt. = *Pyrrhobryum parramattense*
R. spiniforme Hedw. = *Pyrrhobryum spiniforme*
Rhodobryum leucocanthum Hampe = *Bryum leucocanthum*
R. subfalcatulum (Hampe) = *Bryum subfalcatulum*
Rhynchosetella convolutifolia (Hampe) Broth. = *Eurhynchium cucullatum*
R. cucullata (Mitt.) Dix. = *Eurhynchium cucullatum*
R. muriculata (Hook. f. & Wils.) Broth. = *Eurhynchium muriculatum*
R. subconvolutifolia Broth. & Wats = *Eurhynchium cucullatum*
Rhynchosetegium collatum (Hook. f. & Wils.) Broth. & Wats = *R. tenuifolium*
R. pseudo-stramineum Mitt. = *R. stramineoides*
R. subfalcatulum (Hampe) Jaeg. = *R. tenuifolium*
R. muriculata (Hook. f. & Wils.) Broth. = *Eurhynchium muriculatum*
- Papillaria cerina* (Hook. f. & Wils.) Par. = *P. flavolimbatata*
P. filipendula (Hook. f. & Wils.) Jaeg. = *P. flexicaulis*
P. kermadecensis (C. Muell.) Jaeg. = *P. crocea*
P. nitiduscula Broth. = *P. nitens*
P. scottiae (C. Muell.) Par. = *P. flexicaulis*
Physcomitrium apiculatum Hook. f. & Wils. = *Acaulon integrifolium*
P. sullivanii C. Muell. = *Tetrapterum sullivanii*
P. tasmanicum Dix. & Rodw. = *Acaulon crassinervium*
Philonotis affinis (Hook.) Jaeg. = *Breutelia affinis*
P. appressa (Hook. f. & Wils.) Mitt. = *P. scabrifolia*
P. fertilis (Mitt.) Mitt. = *P. tenius*
P. pseudomollis (C. Muell.) Jaeg. = *P. tenuis*
P. renouifolia (Hook. f. & Wils.) Jaeg. = *P. scabrifolia*
Physcomitrella patens (Hedw.) B.S.G. var. *readeri* (C. Muell.) Tan = *P. readeri*
P. subseriatum Hampe = *P. conicum*
Physcomitrium conicum Mitt. = *P. pyriforme*
Platydictyum austrinum (Hook. f. & Wils.) Fleisch. = *Eurhynchium austrinum*
Pleuroidium austro-subulatum Broth. ex Roth = *Eccremidium brisbanicum*
P. gracilentum (Mitt.) Mitt. = *P. nervosum*
Pogonatum australasicum (C. Muell. & Hampe) Jaeg. = *P. subulatum*
Pohlia erythrocaulis Wats & Whitel. = *P. eruda*
Polytrichadelphus tinovans (C. Muell.) Jaeg. = *P. magellanicus*
Polytrichum alpinum Hedw. = *Polytrichastrum alpinum*
P. cypellomitrium C. Muell. = *P. juniperinum*
P. pyramitrium C. Muell. = *P. juniperinum*
P. sullivanii Hampe = *P. piliferum*
Porotrichum arbusculum (Sm.) Mitt. = *Camplochaete arbuscula*
P. claudestinum (Hook. f. & Wils.) Mitt. = *Lembophyllum divulsium*
P. vagum (C. Muell.) Mitt. = *Camplochaete vaga*
Potlia brachyodus (Hampe) Jaeg. = *Desmatodon convolutus*
Pseudoleskea calochlora Broth. & Wats = *P. imbricata*
Pseudoleskeopsis imbricata (Hook. f. & Wils.) Ther. = *Pseudoleskea imbricata*
Psilopilum pyriforme (Hampe) Jaeg. = *P. crispulum*
Pterobryon whiteleggi Broth. = *Muellerobryum whiteleggi*
Pterogoniella watsii Broth. = *Meiothecium watsii*
Pterygophyllum dentatum (Hook. f. & Wils.) Dix. = *Achrophyllum dentatum*
P. hepaticifolium (Hampe & C. Muell.) Jaeg. = *Achrophyllum dentatum*
P. nigellum (Hook. f. & Wils.) Mitt. = *Achrophyllum dentatum*
P. watsii Broth. = *Achrophyllum watsii*
Pyrrhobryum adamsonii (Mitt.) Jaeg. = *P. australe*
P. commutatum (C. Muell.) Par. = *P. muelleri*

- R. subconvolutifolia* Broth. & Wats = Eurhynchium cucullatum
- Schlotheimia baileyi* Broth. = *S. brownii*
- Sciaronium hispidum* (Hook. f. & Wils.) Par. = *Echinodium hispidum*
- Sclerodermium pallidum* Hook. = *Dicnemoloma pallidum*
- Splagnum antarcticum* Mitt. = *S. australe*
- S. brotherusii* Warnst. = *S. falcatum*
- S. commutatum* Warnst. = *S. molliculum*
- S. coniosum* C. Muell. = *S. molliculum*
- S. cuspidatum* Ehrh. ex Hoffm. = *S. falcatum*
- S. cymbifoloides* C. Muell. = *S. molliculum*
- S. decipiens* Warnst. = *S. cristatum*
- S. drepanocladum* Warnst. = *S. falcatum*
- S. erythrocalyx* auct. non Hampe = *S. beccarii*
- S. grandifolium* Warnst. = *S. cristatum*
- S. niagellanicum* Brid. = *S. cristatum*
- S. novo-zealandicum* Mitt. = *S. molliculum*
- S. perichaetale* Warnst. = *S. australe*
- S. pseudo-rufescens* Warnst. = *S. molliculum*
- S. serratifolium* Warnst. = *S. falcatum*
- S. subcolor* Hampe = *S. cristatum*
- S. subconortum* Hampe = *S. molliculum*
- S. subsecundum* auct. non Nees = *S. molliculum*
- S. wardense* Warnst. = *S. cristatum*
- S. watsii* Warnst. = *S. falcatum*
- Spiridens muelleri* Hampe = *S. vicillardii*
- Sporidetera minutissima* (Dix. & Sainsb.) Sainsb. = *Ecremidium whiteleggi*
- S. whiteleggi* (C. Muell.) Broth. = *Ecremidium minutum*
- Stereodon chrysogaster* (C. Muell.) Mitt. = *Hypnum chrysogaster*
- S. cupressiformis* (Hedw.) Mitt. = *Hypnum cupressiforme*
- S. cupressiformis* (Hedw.) Brid. var. *mossmanni* Mitt. = *Hypnum cupressiforme* var. *mossmanni*
- S. walterianus* (Hampe) Mitt. = *Hypnum cupressiforme*
- Syrriopodon watsii* Broth. = *Calymperopsis watsii*
- Tayloria novae-vaesiae* (C. Muell.) Wats & Whitef. = *T. octoblepharum*
- T. gracilimum* (Hampe) Aongstr. = *Thamnobryum pandum*
- T. pandum* (Hook. f. & Wils.) Jaeg. = *Thamnobryum pumilum*
- T. pumilum* (Hook. f. & Wils.) Lindb. = *Thamnobryum pumilum*
- Thuidiopsis furfurosa* (Hook. f. & Wils.) Fleisch. = *Thuidium furfurosum*
- Thuidium amblysteioides* C. Muell. = *T. furfurosum*
- T. hastatum* (Mitt.) Reichdt. = *T. furfurosum*
- T. ramentosum* (Mitt.) Mitt. = *T. cymbifolium*
- T. suberectum* (Hampe) Jaeg. = *T. furfurosum*
- T. unguiculatum* (Hook. f. & Wils.) Fleisch. = *T. furfurosum*
- Tortella calycina* (Schwaegr.) Dix. = *Barbula calycina*
- T. nano-tortuosa* (C. Muell.) Wats & Whitef. = *T. knightii*
- T. subflavovirens* Broth. & Wats = *T. cirrhata*
- Tortula acuminata* Brid. = *Barbula unguiculata*
- T. asperifolia* Broth. = *T. erawfordii*
- T. atro-virens* (Sm.) Lindb. = *Desmatodon convolutus*
- T. austro-muralis* (C. Muell.) Broth. ex Par. = *T. muralis*
- T. baileyi* auct. non Broth. = *T. pagorum*
- T. calycina* (Schwaegr.) Hook. & Grev. = *Tortella calycina*
- T. chlorotricha* Broth. & Geh. = *Barbula chlorotricha*
- T. flavinervis* Dix. = *Barbula crinita*
- T. melbourneana* (C. Muell.) Broth. = *T. muralis*
- T. pungens* Hook. f. & Wils. = *Barbula erinita*
- T. subcalycina* (C. Muell.) Mitt. = *Barbula subcalycina*
- T. sulliviana* (C. Muell.) Wats & Whitef. = *Alcina sulliviana*
- T. torquata* (Tayl.) Wils. = *Barbula torquata*
- Trachycarpidium novae-vaesiae* Broth. = *Bryobartramia novae-vaesiae*
- Trachyloma leptopyxis* C. Muell. = *T. diversinerve*
- Trachymus hornschiuchii* Mitt. = *Papillaria crocea*
- Trematodon abruptus* Wats & Whitef. = *T. suberectus*
- T. adaequans* Geh. ex Roth = *T. suberectus*
- T. alpinus* J. H. Willis = *T. flexipes*
- Trichostomopsis australasiae* (Hook. & Grev.) Robinson = *Barbula australasiae*
- Trichostomum subdenticulatum* C. Muell. = *Leptodontium viticulosoides*
- Wheberia nitans* Hedw. = *Pohlia nitans*
- W. tenuifolia* Jaeg. = *Pohlia tenuifolia*
- Wessia flavipes* Hook. f. & Wils. = *W. controversa*
- W. truncata* C. Muell. = *W. controversa*
- Whiteleggia australis* (Broth.) Broth. ex Par. = *Hampeella pallens*
- Wilsoniella compacta* Geh. in Wats & Whitef. = *Orthodontium inflatum*
- Zygodon brownii* Schwaegr. = *Z. intermedius*

- R. subconvolutifolia* Broth. & Wats = Eurhynchium cucullatum
- Schlotheimia baileyi* Broth. = *S. brownii*
- Sciaronium hispidum* (Hook. f. & Wils.) Par. = *Echinodium hispidum*
- Sclerodermium pallidum* Hook. = *Dicnemoloma pallidum*
- Splagnum antarcticum* Mitt. = *S. australe*
- S. brotherusii* Warnst. = *S. falcatum*
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- S. erythrocalyx* auct. non Hampe = *S. beccarii*
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- T. pandum* (Hook. f. & Wils.) Jaeg. = *Thamnobryum pumilum*
- T. pumilum* (Hook. f. & Wils.) Lindb. = *Thamnobryum pumilum*

UNSUBSTANTIATED RECORDS OF RECOGNISED SPECIES

Unsubstantiated records of recognised species amongst Australian collections are included to enable checking to be carried out and possible locations of specimens in overseas Herbaria where early collections e.g. those of C. Müller may be deposited.

Fissidentaceae

- Fissidens ampliretis* (C. Muell.) Broth.
F. delicatulus Aongstr. in Watts & Whitel.
F. perangustatus Broth.

Dicranaceae

- Dieranella stackhousiana* (C. Muell.) Broth.
 [*Aongstroemia stackhousiana* C. Muell.]
Dicnemoloma fraseri (Mitt.) Ren.
D. imbricatum Broth. & Geh.
D. strictipilum (C. Muell.) Par.

Encalyptaceae

- Encalypta novae-valesiae* Hampe

Pottiaceae

- Tortula crawfordii* (Par.) Watts in Watts & Whitel.
 [*T. asperifolia* Broth.]
T. parramattana Mitt.
 [*Barbula parramattana* (Mitt.) Kind.]

Funariaceae

- Physcomitrium flaccidum* Mitt.

Bryaceae

- Bryum baeuerlenii* C. Muell.
B. brachyladulum C. Muell.
B. ischyrrhodon C. Muell.

Bartramiaceae

- Breutelia baeuerlenii* (C. Muell.) Watts & Whitel.
B. leptodontoides (C. Muell.) Watts & Whitel.
B. lonchopelma (C. Muell.) Watts & Whitel.

Ptychomniaceae

- Glyphothecium perrotii* C. Muell.

Neckeraceae

- Thamnobryum* (Thamnum) novae-valesiae Kindb.

Amblystegiaceae

- Amblystegium novae-valesiae* Broth. & Watts

Brachytheciaceae

- Eurhynchium asperipes* (Mitt.) Dix.

Polytrichaceae

- Polytrichum recurvipilum* C. Muell.

NOMINA NUDA

The purpose of listing *nomina nuda* is to encourage examination of the material to determine which names should be absorbed into the synonymy and which require validation as new species. The list includes only those names in literature (not names *in scheda*) which appear in Index Muscorum. The number of collections (> 3 or ≤ 3) to which the name has been applied and the localities represented by these specimens are included to indicate whether the name has been widely used or not.

UNSUBSTANTIATED NOMINA NUDA

The following names have appeared in literature but no specimens have yet been located with these names.

Fissidentaceae

- Fissidens applanatus* C. Muell.
F. perangustus C. Muell.
F. porosus Hampe
F. whiteleggeanus C. Muell.
F. woollahrae Broth.

Dicranaceae

- Holomitrium novae-valesiae* C. Muell. in Gehl.

Leucobryaceae

- Leucobryum australe* Watts & Whittell.

Funariaceae

- Entosthodon cuspidatus* Kiaer in C. Muell.
Physcomitrium torqueseens C. Muell.

Bryaceae

- Pohlia pseudopalleseens Hampe* in C. Muell.

Bartramiaceae

- Bartramia austro-alpina* C. Muell.
Breutelia crawfordii Watts & Whittell.
B. luteola C. Muell. ex Broth. in Gehl.
Philonotis australtea C. Muell. in Jaeg.
P. fontanoides Broth. & Watts

Lembophyllaceae

- Porotrichum decurvatum* Mitt.

Brachytheciaceae

- Rhynchostegium latifolium* Gehl.
R. obtusissimum Gehl.
R. parramattense Mitt.

Sematophyllaceae

- Acanthoeladium macro-extenuatum* C. Muell. in Burg.
A. pseudo-extenuatum C. Muell. in Burg.
A. sub-extenuatum C. Muell. in Burg.
Rhaphidostegium tingiringense Gehl. in Burg.

Hypnaceae

- Hypnum subextenuatum* C. Muell.

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