

AN ANNOTATED CHECKLIST OF TASMANIAN MOSSES

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An annotated checklist of the Tasmanian mosses is presented to clarify the occurrence of taxa within the state. Some recently collected species, for which there are no published records, have been included. Doubtful records and excluded species are listed separately. The Tasmanian moss flora as recognised here includes 361 species.

Key Words: mosses, Tasmania.

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INTRODUCTION

Tasmanian mosses received considerable attention during the early botanical exploration of the antipodes. One of the earliest accounts was given by Wilson (1859), who provided a series of descriptions of the then-known species, accompanied by coloured illustrations, as Part III of J.D. Hooker's *Botany of the Antarctic Voyage*. Although there have been a number of papers since that time, two significant compilations were published about the turn of the century. The first was by Bastow (1887) which included an illustrated key. Rodway (1913–14) presented a further moss flora with descriptive keys for many genera. Although published as three separate papers in *Pap. Proc. R. Soc. Tasm.* (1912: 3–24, 87–138 and 1913: 177–263), Rodway's work was reissued as a single volume *Tasmanian Bryophyta. Vol. I. Mosses*, in 1914. For clarity we refer to this single volume publication. This was the last account which dealt exclusively with Tasmanian mosses. They have since been included in wider accounts of the moss flora of Australia. Scott & Stone (1976) provided a much needed comprehensive treatment of the mosses of the southern Australian region including Tasmania. Streimann & Curnow (1989) published a catalogue of the mosses of Australia and its offshore islands and antarctic territory. In that work, the occurrence of taxa in the Australian states is based primarily on literature records, some of which are in need of evaluation.

The impetus for the present checklist arose from a need for a working document for the Australasian Bryological Workshop held in Hobart in December 1988. It is intended to provide a basis of what is known to occur in the Tasmanian moss flora by evaluation of literature records combined with re-examination of critical collections. There are Tasmanian records in the literature of a number of taxa for which there are no known collections available. It is possible that some others may be the result of misidentification or misinterpretation of the original reference. Furthermore,

in recent years previously unrecorded species have been found as well as several new taxa described.

We have assigned genera to families following Crosby & Magill (1981), except where otherwise indicated in the case of more recent publications. The arrangement of families, genera and species is in alphabetic order for ease of access. Taxa known to occur in Tasmania and its neighbouring islands only are listed; those for subantarctic Macquarie Island (politically part of Tasmania) are not treated and have been presented elsewhere (Seppelt 1981).

This Tasmanian checklist complements those for the vascular flora (Buchanan *et al.* 1989), hepatics (Ratkowsky 1987) and lichens (Kantvilas 1989).

ANNOTATED CHECKLIST OF TASMANIAN MOSSES BY FAMILY IN ALPHABETICAL ORDER

All entries are presented in a format where accepted names are in bold type and unaccepted names or synonyms are in plain text. The synonyms given are by no means exhaustive, but the list attempts to include all names that have been used in Tasmania. Intraspecific ranks are not treated comprehensively. An asterisk indicates species or varieties which are endemic in Tasmania. Annotations include an early reference to occurrence in Tasmania, followed by general comments and taxonomic notes where appropriate. Doubtful or excluded records are listed separately in plain text.

AMBLYSTEGIACEAE

Acrocladium auriculatum (Mont.) Mitt. = ***Acrocladium chlamydophyllum***

Acrocladium chlamydophyllum (Hook.f. et Wils.) C.Muell. et Broth. Bastow (1887) as *Hypnum chlamydophyllum*; Rodway (1914). Sometimes referred to Lembophyllaceae on the basis of a double peristome.

Acrocladium cuspidatum (Hedw.) Lindb. = ***Calliergonella cuspidata***

Acrocladium politum Hook.f. et Wils. = *Catagonium politum* (Plagiotheciaceae)

Amblystegium serpens (Hedw.) B.S.G. Rodway (1915) as *A. austro-serpens* hom. illeg.; Sainsbury (1956b).

Calliergonella cuspidata (Hedw.) Loeske. Beever (1988) separates *Acrocladium sensu stricto* from *Acrocladium* (*Calliergonella*) on leaf shape. Kanda (1977) considered *Calliergonella* as anomalous in Amblystegiaceae and resembling members of Hypnaceae.

Campyllum decussatum (Hook.f. et Wils.) Broth. = *Cratoneurosis relaxa*

Campyllum molle Broth. in Rodw. = *Cratoneurosis relaxa*

Campyllum polygamum (B.S.G.) C.Jens. Ratkowsky & Ratkowsky (1983).

Campyllum relaxum (Hook.f. et Wils.) Broth. = *Cratoneurosis relaxa*

Cratoneurosis relaxa (Hook.f. et Wils.) Fleisch. Rodway (1914); Sainsbury (1956b).

Drepanocladus aduncus (Hedw.) Warnst. Rodway (1914); Sainsbury (1956b).

Drepanocladus brachiatus (Mitt.) Dix. Rodway (1914); Sainsbury (1956b).

Drepanocladus fluitans (Hedw.) Warnst. Bastow (1887) as *Hypnum fluitans*; Rodway (1914).

Drepanocladus sendtneri (Schimp.) Warnst. Rodway (1915); Sainsbury (1956b) = *D. aduncus*.

Drepanocladus uncinatus (Hedw.) Warnst. Scott & Stone (1976). Rare, no collections in HO.

Platyhypnidium austrinum (Hook.f. et Wils.) Fleisch. = *Eurhynchium austrinum* (Brachytheciaceae)

Scorpidium scorpioides (Hedw.) Limpr. Jarman *et al.* (1988) as *Scorpidium* aff. *scorpioides*. Formerly considered to be a Northern Hemisphere plant, one specimen from southwestern Tasmania.

ANDREAEACEAE

The only two costate species of *Andreaea* in Tasmania, *A. nitida* and *A. subulata*, are easily distinguished. The remaining ecostate species are the subject of a major revision currently being undertaken by Dr B. Murray, University of Alaska, Fairbanks.

Andreaea acuminata Mitt. in Hook.f. et Wils. = *Andreaea acutifolia* var. *acuminata*

Andreaea acutifolia Hook.f. et Wils.

var. *acuminata* (Mitt. in Hook.f. et Wils.) Vitt. Mitten (1860); Rodway (1914) as *A. acuminata*.

var. *acutifolia*.

Andreaea amblyophylla C.Muell. ex Broth. = *Andreaea mutabilis*

Andreaea asperula Mitt. Mitten (1860); Rodway (1916).

*Andreaea erubescens** C.Muell. (? = *Andreaea mutabilis*)

var. *nigrita** C.Muell. (? = *Andreaea mutabilis*)

*Andreaea eximia** C.Muell. Rodway (1914) but no collections in HO.

Andreaea julicaulis C.Muell. (? = *Andreaea mutabilis*)

Andreaea montana Mitt. = *Andreaea mutabilis*

Andreaea mutabilis Hook.f. et Wils. Mitten (1860); Bastow (1887); Rodway (1914) as *A. montana*.

Andreaea nitida Hook.f. et Wils. Mitten (1882); Rodway (1914).

Andreaea rupestris Hedw. (Australian material) = *Andreaea mutabilis*. Vitt (1980a).

Andreaea subulata Harv. ex Hook. Mitten (1882); Rodway (1914) as *A. subulatissima*.

Andreaea subulatissima C.Muell. = *Andreaea subulata*

Andreaea tasmánica Rodw. Rodway (1916).

Andreaea tenera C.Muell. = *Andreaea mutabilis*

AULACOMNIACEAE

Aulacomnium palustre (Hedw.) Schwaegr. Wilson (1859); Sainsbury (1955d). Formerly considered to be a Northern Hemisphere moss, rare in Tasmania, no collections in HO.

Leptotheca gaudichaudii Schwaegr.

var. *gaudichaudii* Mitten (1882); Rodway (1914).

var. *wattsii** (Card.) Churchill et Buck. Churchill & Buck (1982); there are no collections in HO.

Leptotheca watsii Card. = *Leptotheca gaudichaudii* var. *watsii*

BARTRAMIACEAE

Bartramia erecta (Hampe) Broth. = *Bartramia hampei*

Bartramia fragilis Mitt. = *Bartramia ithyphylla*

Bartramia halleriana Hedw. Rodway (1914) as *B. norvegica*. var. *brachydonta* Kab.

Bartramia hampeana C.Muell. Ratkowsky & Ratkowsky (1982) but see Scott and Stone (1976), Catcheside (1980).

Bartramia hampei (Mitt.) Catches. Rodway (1914) as *B. erecta*; Catcheside (1980). Rare, no material in HO.

Bartramia ithyphylla Brid. Bastow (1887) as *B. fragilis*; Rodway (1914).

Bartramia norvegica Lindb. nom. illeg. = *Bartramia halleriana*

Bartramia papillata Hook.f. et Wils. = *Bartramia ithyphylla*

Bartramia stricta Brid. Rodway (1914) as *B. strictifolia*.

Bartramia strictifolia Tayl. = *Bartramia stricta*

Bartramidula hampei Mitt. = *Bartramia hampei*

Bartramidula pusilla (Hook.f. et Wils.) Par. Mitten (1882); Rodway (1914).

Bartramidula weymouthii Broth. in Weymouth nom. nud. = *Bartramidula pusilla*

Breutelia affinis (Hook.) Mitt. Mitten (1882); Rodway (1914).

Breutelia comosa (Mitt.) Mitt. = *Breutelia pendula*

Breutelia crassa (Hook.f. et Wils.) Jaeg. = *Breutelia elongata*

Breutelia divaricata (Mitt.) Mitt. = *Breutelia pendula*

Breutelia elongata (Hook.f. et Wils.) Mitt. Mitten (1882); Rodway (1914) as *B. crassa*.

Breutelia pendula (Sm.) Mitt. Mitten (1882); Rodway (1914).

Conostomum australe Sw. = *Conostomum pentastichum*

Conostomum pentastichum (Brid.) Lindb. Mitten (1882) and Rodway (1914) as *C. australe*.

Conostomum pusillum Hook.f. et Wils. Mitten (1882); Rodway (1914).

Philonotis appressa (Hook.f. et Wils.) Mitt. = *Philonotis scabrifolia*

Philonotis australis Mitt. = *Conostomum pentastichum*

Philonotis fertilis (Mitt.) Mitt. = *Philonotis tenuis*

Philonotis rigens Broth. = ?*Philonotis tenuis* Sainsbury (1955e).

Philonotis scabrifolia (Hook.f. et Wils.) Braithw. Mitten (1882) as *P. appressa*; Rodway (1914).

Philonotis tenuis (Tayl.) Reichdt. Mitten (1882); Rodway (1914); Sainsbury (1955e).

BRACHYTHECIACEAE

Brachythecium albicans (Hedw.) B.S.G. = *Chamberlainia albicans* Robinson (1962).

Brachythecium paradoxum (Hook.f. et Wils.) Jaeg. Mitten (1882); Bastow (1887); Rodway (1914) as *Hypnum paradoxum*.

Brachythecium plumosum (Hedw.) B.S.G. Record based on one collection in HO (det. Norris).

Brachythecium rutabulum (Hedw.) B.S.G. Mitten (1882); Bastow (1887) and Rodway (1914) as *Hypnum rutabulum*.

Brachythecium salebrosum (Web. et Mohr) B.S.G. = *Chamberlainia salebrosa*. Robinson (1962).

Chamberlainia albicans (Hedw.) H. Robinson. Scott & Stone (1976) as *Brachythecium albicans*.

Chamberlainia salebrosa (Web. et Mohr) H. Robinson. Mitten (1882) as *Brachythecium salebrosum*; Rodway (1914) as *Hypnum salebrosum*.

Eurhynchium asperipes (Mitt.) Dix. Bastow (1887) as *Hypnum asperipes*; Rodway (1914) as *Hypnum remotifolium*.

Eurhynchium austrinum (Hook.f. et Wils.) Jaeg. Bastow (1887); Rodway (1914) as *Hypnum austrinum*.

Eurhynchium cucullatum (Mitt.) Stone et Scott. Weymouth (1896) as *Hypnum convolutifolium*.

Eurhynchium muriculatum (Hook.f. et Wils.) Jaeg. = *Rhynchostegiella muriculata*

Eurhynchium praelongum (Hedw.) B.S.G. = *Kindbergia praelonga* Ochyra (1982).

Kindbergia praelonga (Hedw.) Ochyra. Sainsbury (1956b) as *Eurhynchium praelongum*.

Rhynchostegiella muriculata (Hook.f. et Wils.) Broth. Mitten (1882) as *Rhynchostegium muriculatum*; Bastow (1887); Rodway (1914) as *Hypnum muriculatum*.

Rhynchostegium aristatum Jaeg. = *Rhynchostegium laxatum*

Rhynchostegium laxatum (Mitt.) Par. Bastow (1887); Rodway (1914) as *Hypnum aristatum*.

Rhynchostegium tenuifolium (Hedw.) Reichdt. Bastow (1887) as *Hypnum collatum*; Rodway (1914) as *Hypnum tenuifolium*.

Rhynchostegium muriculatum (Hook.f. et Wils.) Reichdt. = *Rhynchostegiella muriculata*

BRUCHIACEAE

Bruchia exigua (Hook.f. et Wils.) C. Muell. = *Eccremidium exiguum* (Ditrichaceae)

Bruchia minuta Mitt. in Hook.f. = *Eccremidium minutum* (Ditrichaceae)

BRYACEAE

The genus *Bryum* is currently under revision as part of the *Flora of Australia* project.

Apalodium australe (Hook.f. et Wils.) Mitt. = *Orthodontium lineare*

Apalodium lineare (Tayl.) Mitt. = *Orthodontium pallens*

*Brachymerium lanceolatum** Hook.f. et Wils. Mitten (1882). However, there are no collections in HO to support this early record.

Brachymerium preissianum (Hampe) Jaeg. Weymouth (1896); Rodway (1914).

Bryum argenteum Hedw. Mitten (1882); Rodway (1914).

Bryum argillicola Broth. = *Bryum pachythecca*

Bryum bicolor Dicks. = *Bryum dichotomum*

Bryum billardieri Schwaegr. Mitten (1882); Rodway (1914). var. *billardieri*

Bryum bimum (Schreb.) Turn. = *Bryum pseudotriquetrum*

Bryum blandum Hook.f. et Wils. Mitten (1882); Rodway (1914).

var. *crinitum* Wils.

var. *luridum* Wils.

Bryum breviamulosum (Hampe) Hampe = *Bryum billardieri*

Bryum caespiticium Hedw. Bastow (1887).

Bryum campylotheicum Tayl. Rodway (1914).

Bryum capillare Hedw. Mitten (1882); Rodway (1914).

Bryum chrysoneuron C. Muell. Mitten (1882); Rodway (1914) but see Scott & Stone (1976).

Bryum clavatum (Schimp.) C. Muell. Weymouth (1896) as *B. erythrocarpoides*.

Bryum crassum Hook.f. et Wils. Mitten (1882); Rodway (1914).

Bryum creberrimum Tayl. Weymouth (1896).

Bryum cupulatum C. Muell. = *Bryum pachythecca*

Bryum curvicolium Mitt. = *Bryum clavatum*

Bryum dichotomum Hedw. Rodway (1914).

Bryum erythrocarpoides C. Muell. et Hampe = *Bryum clavatum*

Bryum gambierense C. Muell. = *Bryum pachythecca*

Bryum intermedium (Brid.) Blanc. = ?*Bryum caespiticium*. Sainsbury (1955d).

Bryum laevigatum Broth. = ?*Bryum clavatum*. Sainsbury (1955d).

Bryum laevigatum Hook.f. et Wils. Mitten (1882); Rodway (1914).

Bryum leptothecium Tayl. = *Bryum billardieri* var. *billardieri*

Bryum microerythrocarpum C. Muell. et Kindb. = *Bryum subapiculatum*

Bryum microrhodon C. Muell. = ?*Bryum billardieri*. Sainsbury (1955d).

Bryum microsporium Broth. = *Bryum capillare*

Bryum oviacarpum Broth. = *Bryum pachythecca*

Bryum pachythecca C. Muell. Weymouth (1903) as *B. oviacarpum*.

var. *crassinerve* Watts et Whitel.

var. *inflatum* Wils.

Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer et Scherb. Rodway (1914) as *B. bimum*; Sainsbury (1955d).

Bryum pyrothecium C. Muell. et Hampe = *Bryum capillare*. Sainsbury (1955d).

Bryum rufescens Hook.f. et Wils. = *Bryum billardieri*

Bryum sauteri B.S.G. Duncan & Dalton (1982).

Bryum subapiculatum Hampe. Ratkowsky and Ratkowsky (1982) as *B. microerythrocarpum*.

Bryum subcupulatum C. Muell. ex Rodw. = *Bryum dichotomum*

Bryum sullivani C. Muell. = *Bryum clavatum*

Bryum tasmanicum Hampe = *Bryum creberrimum*. Sainsbury (1955d).

Bryum torquescens Bruch Bastow (1887); Rodway (1914).

Bryum truncorum Brid. = *Bryum billardieri* var. *billardieri*

Leptobryum pyriforme (Hedw.) Wils. Bastow (1887); Rodway (1914).

*Leptobryum sericeum** Kindb. Bastow (1887). Scott & Stone

- (1976) consider likely to be synonymous with *L. pyriforme*. However, there are no collections in HO.
- Leptostomum flexipile* C.Muell. = *Leptostomum inclinans*
Leptostomum gracile R.Br. = *Leptostomum inclinans*
Leptostomum inclinans R.Br. Mitten (1882); Bastow (1887); Rodway (1914).
- Mielichhoferia bryoides* (Harv.) Wijk et Marg. Rodway (1914) as *M. echloni*.
Mielichhoferia ecklonii Hornsch. = *Mielichhoferia bryoides*
Mniobryum tasmanicum Broth. = *Pohlia wahlenbergii*
Mniobryum wahlenbergii (Web. et Mohr) Jenn. = *Pohlia wahlenbergii*
Orthodontium australe Hook.f. et Wils. = *Orthodontium lineare*
 ssp. *robustusculum* (C.Muell.) Meijer = *Orthodontium lineare*
Orthodontium lanceolatum Mitt. = *Orthodontium lineare*
 ssp. *sulcatum*
Orthodontium lineare Schwaegr. Mitten (1882) as *Apalodium australe*; Rodway (1914).
 ssp. *sulcatum* (Hook.f. et Wils.) Meijer. Meijer (1952).
Orthodontium pallens (Hook.f. et Wils.) Broth. Sainsbury (1955d); Scott & Stone (1976).
Orthodontium robustiusculum C.Muell. = *Orthodontium lineare*
Pohlia albicans Lindb. = *Pohlia wahlenbergii*
Pohlia annotina (Hedw.) Lindb. Recently collected from highland areas (A.J. Fife 8781, 8821).
Pohlia cruda (Hedw.) Lindb. Rodway (1914).
Pohlia nutans (Hedw.) Lindb. Rodway (1914).
Pohlia ochii Vitt. Recently collected from Mt Wellington (A.J. Fife 8820).
Pohlia tasmanica (Broth.) Dix. = *Pohlia wahlenbergii*
Pohlia wahlenbergii (Web. et Mohr) Andrews in Grout. Weymouth (1894) as *Mniobryum tasmanicum*.

BUXBAUMIACEAE

- Buxbaumia aphylla* Hedw. Scott & Stone (1976). Very rare, existing for a short period almost solely as a sporophyte.
*Buxbaumia tasmanica** Mitt. Mitten (1860); Rodway (1914). Very rare, existing for a short period almost solely as a sporophyte.

CALOMNIACEAE

- Calomnion complanatum* (Hook.f. et Wils.) Lindb. A new record which is known from only one recent collection by I.G. Stone, northwestern Tasmania, epiphyte.

CRYPHAEACEAE

- Cryphaea consimilis* Mont. = *Cryphaea tenella*
Cryphaea dilatata Hook.f. et Wils. = *Cyrtodon dilatatus*. See Doubtful and Excluded Records.
Cryphaea parvula sensu Rodway 1914 = *Cryphaea tenella*. Sainsbury (1955f).
Cryphaea tasmanica Mitt. in Hook.f. et Wils. Mitten (1882); Rodway (1914) as *Dendrocryphaea tasmanica*.
Cryphaea tenella (Schwaegr.) Hornsch. ex C.Muell. Sainsbury (1955a).
Dendrocryphaea tasmanica (Mitt.) Broth. = *Cryphaea tasmanica*

DAWSONIACEAE

- Dawsonia longifolia* (B.S.G.) Zanten. Mitten (1882); Rodway (1914) as *D. superba*.
 var. *longifolia*
Dawsonia longiseta Hampe. Scott & Stone (1976). Uncommon, known from only a few collections.
Dawsonia polytrichoides R.Br. Scott & Stone (1976). Uncommon, known from only a few collections.
Dawsonia superba Grev. = *Dawsonia longifolia* var. *longifolia*. Scott & Stone (1979) argued for the conservation of the more familiar name *D. superba*.

DICNEMONACEAE

- Eucamptodon inflatus* (Hook.f. et Wils.) Mitt. = *Pulchrinodus inflatus* (Pterobryaceae)

DICRANACEAE

- Anisothecium crispum* Lindb. = *Anisothecium schreberianum*
Anisothecium schreberianum (Hedw.) Dix. Sainsbury (1955b); Scott & Stone (1976) suggested would be better placed in *Dicranella*.
Campylopodium euphorocladum (C.Muell.) Besch. = *Campylopodium medium*
Campylopodium flexipes (Mitt.) Broth. = *Campylopodium medium*
Campylopodium lineare (Mitt.) Dix. Rodway (1914) as *Cynodontium tasmanicum*; Sainsbury (1955b).
Campylopodium medium (Dub.) Giese et Frahm. Rodway (1914) as *C. flexipes*; Sainsbury (1955b).
Campylopus acuminatus Mitt.
 var. *kirkii* (Mitt.) Frahm. Weymouth (1903) as *C. kirkii*; Frahm (1987).
Campylopus angustilimbatus Bartram = *Campylopus australis*
Campylopus arboricola Card. et Dix. Scott & Stone (1976).
Campylopus australis Catches. et Frahm. Catcheside & Frahm (1985) do not record for Tasmania. However, collections are held in HO det. D. Catcheside.
Campylopus bicolor (Hornsch. ex C.Muell.) Wils. Mitten (1882); Rodway (1914), but Frahm (1987) did not record for Tasmania.
 var. *ericeticola* (C.Muell.) Dix.
*Campylopus brunneus** (C.Muell.) Par. Watts & Whitelegge (1902). No material in HO, see Frahm (1987).
Campylopus clavatus (R.Br.) Wils. Mitten (1882); Bastow (1887) as *C. insititius*; Rodway (1914).
Campylopus denticuspis Broth. = *Campylopus acuminatus* var. *kirkii*
Campylopus flavonigrutus Dus. Weymouth (1903) as *C. subappressifolius*; Catcheside & Frahm (1985); Frahm (1987) treats as *C. chilensis*. Rare, no collections in HO.
Campylopus flindersii Catches. et Frahm. Catcheside & Frahm (1985) do not record for Tasmania. Pers. comm. with Catcheside gives a collection from northern Tasmania.
Campylopus insititius Hook.f. et Wils. = *Campylopus clavatus*. Frahm (1987).
Campylopus introflexus (Hedw.) Brid. Bastow (1887); Rodway (1914).
 ssp. *pudicus* (Hornsch. ex C.Muell.) Dix.

Campylopus kirkii Mitt. = *Campylopus acuminatus* var. *kirkii*
Campylopus pallidus Hook.f. et Wils. = *Campylopus pyriformis*
Campylopus pyriformis (Schultz) Brid. Mitten (1882) as *C. torquatus*; Scott & Stone (1976) as *C. pallidus*; Frahm (1987).
Campylopus rodwayi Broth. in Rodw. = *Campylopus clavatus*
Campylopus subappressifolius Broth. et Geh. = *Campylopus flavonigrutus*
Campylopus tasmanicus Par. = *Campylopus introflexus*
Campylopus torquatus Mitt. = *Campylopus pyriformis*
Cynodontium tasmanicum Broth. et Rodw. = *Campylopodium lineare*
Dicnemoloma pallidum (Hook.) Wijk et Marg. Bastow (1887) as *Dicranum sieberianum*; Rodway (1914) as *Sclerodontium pallidum*; Sainsbury (1955b) as *D. sieberianum*.
Dicnemoloma sieberianum (Hornsch.) Broth. = *Dicnemoloma pallidum*
Dicranella dietotii (R.Br.ter.) Dix. Scott & Stone (1976).
Dicranella dietrichiae (C.Muell.) Jaeg. Ratkowsky and Ratkowsky (1983). Uncommon, known from only a few collections.
Dicranella jamesonii (Mitt.) Broth. Sainsbury (1955b); Scott & Stone (1976).
Dicranella schreberiana (Hedw.) Hilf. = *Anisothecium schreberianum*
*Dicranodontium tapes** (C.Muell.) Par. Watts & Whitelegge (1902); Sainsbury (1955b) gave as Tasmanian endemic but not referred to by Rodway (1914). No collections in HO.
*Dicranoloma angustiflorum** Dix. Scott & Stone (1976) do not know this species. No material in HO.
*Dicranoloma angustifolium** (Hook.f. et Wils.) Watts et Whitel. Watts & Whitelegge (1906). No material in HO.
Dicranoloma austrinum (Mitt.) Watts et Whitel. Mitten (1882) as *Dicranum austrinum*; Watts & Whitelegge (1906). No material in HO.
Dicranoloma billardieri (Brid.) Par. Mitten (1882); Rodway (1914) as *Dicranum billardieri*.
 *var. *angustinerve* (Rodw.) Sainsb. Rodway (1914).
 var. *billardieri*
*Dicranoloma burchardtii** (Par.) Par. Weymouth (1896) as *Dicranum rigens*. Rare, no material in HO.
Dicranoloma diaphanoneurum (Hampe) Par. = ?*Dicranoloma austrinum*. Catcheside (1980).
Dicranoloma dicarpum (Nees) Par. Mitten (1882) as *Dicranum dicarpum*; Rodway (1914) as *Dicranum polyssetum*.
Dicranoloma eucamptodontoides (Broth. et Geh.) Par. Weymouth (1896); Rodway (1914) as *Dicranum eucamptodontoides*. Previously treated as endemic in Tasmania, but now (A.J. Fife, pers. comm.) known also from Fiordland, New Zealand. Occurs in wet buttongrass sedgeland in southwestern Tasmania.
Dicranoloma menziesii (Tayl.) Par. Bastow (1887); Rodway (1914) as *Dicranum menziesii*; Sainsbury (1955b).
*Dicranoloma nelsonii** (C.Muell.) Par. Watts & Whitelegge (1906). Rare, no material in HO.

*Dicranoloma perichaetiale** Sainsb. Sainsbury (1953a). Rare, known from only one collection, subalpine.
Dicranoloma platycaulon (C.Muell.) Dix. Scott & Stone (1976).
Dicranoloma robustum (Hook.f. et Wils.) Par. Bastow (1887); Rodway (1914) as *Dicranum robustum*; Sainsbury (1955b). Scott & Stone (1976) include in *D. billardieri*. var. *setosum* (Hook.f. et Wils.) Sainsb. Bastow (1887); Rodway (1914) as *Dicranum setosum*; Sainsbury (1955b).
Dicranoloma setosum Hook.f. et Wils. = *Dicranoloma robustum* var. *setosum*
Dicranoloma subsetosum (C.Muell.) Par. = *Dicranoloma robustum* var. *setosum*
Dicranoloma trichopodum (Mitt.) Broth. Weymouth & Rodway (1922) as *Dicranum trichopodum*; Sainsbury (1955b).
Dicranoweisia antarctica (C.Muell.) Kindb. Sainsbury (1955b); Willis (1955b).
Dicranoweisia microcarpa (Hook.f. et Wils.) Par. Mitten (1882) as *Dicranum microcarpum*; Rodway (1914) as *Weissia microcarpa*; Sainsbury (1955b).
Dicranum austrinum Mitt. = *Dicranoloma austrinum*
Dicranum billardieri Brid. = *Dicranoloma billardieri*
Dicranum dicarpum Nees = *Dicranoloma dicarpum*
Dicranum eucamptodontoides Broth. et Geh. = *Dicranoloma eucamptodontoides*
Dicranum integerrimum Broth. et Geh. = *Dicranoloma billardieri*
Dicranum menziesii Tayl. = *Dicranoloma menziesii*
Dicranum microcarpum (Hook.f. et Wils.) Mitt. = *Dicranoweisia microcarpa*
Dicranum polyssetum Hampe = *Dicranoloma dicarpum*
Dicranum pungens Hook.f. et Wils. = *Dicranoloma robustum*
Dicranum rigens Burchard et Broth. ex C.Muell. = *Dicranoloma burchardtii*
Dicranum robustum Hook.f. et Wils. = *Dicranoloma robustum*
Dicranum setosum Hook.f. et Wils. = *Dicranoloma robustum* var. *setosum*
Dicranum sieberianum Hornsch. = *Dicnemoloma pallidum*
Dicranum trichopodum Mitt. = *Dicranoloma trichopodum*
Holomitrium perichaetiale (Hook.) Brid. Mitten (1882); Rodway (1914).
Leucoloma sieberianum (Hornsch.) Jaeg. = *Dicnemoloma pallidum*
Sclerodontium pallidum (Hook.) Schwaegr. = *Dicnemoloma pallidum*
Trematodon flexipes Mitt. in Hook.f. Mitten (1882); Weymouth & Rodway (1922); Sainsbury (1955b).
Trematodon mackayi (R.Br.ter.) Broth. Weymouth & Rodway (1922).

DITRICHACEAE

Ceratodon purpureus (Hedw.) Brid. Bastow (1887); Rodway (1914).
Cheilothela chilensis (Mont.) Broth. = *Chrysoblastella chilensis*. Reimers (1926); Buck (1981).
Chrysoblastella chilensis (Mont.) Reim. Ratkowsky (1980)

as *Cheilothela chilensis*. Widespread in alpine and subalpine areas in Tasmania.

Distichium capillaceum (Hedw.) B.S.G. Bastow (1887); Rodway (1914); Scott & Stone (1976). Known in Tasmania only from the Gordon River limestone.

Ditrichum australe (Mitt.) Mitt. = ***Ditrichum strictum***

Ditrichum brevirostre (R.Br.ter.) Broth. Record based on one collection in HO determined by R. Seppelt.

Ditrichum cylindricarpum (C.Muell.) F.Muell. Mitten (1882); Rodway (1914) as *D. elongatum*.

Ditrichum difficile (Dub.) Fleisch. Weymouth (1896); Rodway (1914) as *D. flavipes*.

Ditrichum elongatum (Hook.f. et Wils.) Mitt. = ***Ditrichum cylindricarpum***

Ditrichum flavipes C.Muell. ex Rodw. = ***Ditrichum difficile***

Ditrichum flexifolium (Mitt.) Hampe = ***Ditrichum difficile***

Ditrichum oldfieldii (Mitt.) Mitt. = ***Ditrichum difficile***

Ditrichum punctulatum Mitt. Weymouth & Rodway (1922).

Ditrichum strictiusculum (C.Muell.) Par. = ***Ditrichum cylindricarpum***

Ditrichum strictum (Hook.f. et Wils.) Hampe. Mitten (1882) as *D. australe*. Sainsbury (1955b) did not see any Tasmanian material attributable to this species.

Ditrichum subcapillaceum* (C.Muell.) Watts et Whitel. Watts & Whitelegge (1902). Scott & Stone (1976) = *Distichium capillaceum*.

Eccremidium exiguum (Hook.f. et Wils.) Wils. Record based on one old collection (W.H.Archer) determined by I.G. Stone.

Eccremidium minutum (Mitt.) Stone et Scott. Mitten (1882); Rodway (1914) as *Bruchia minuta*.

Eccremidium pulchellum (Hook.f. et Wils.) C.Muell. Scott & Stone (1976); Ratkowsky & Ratkowsky (1982).

Leptotrichum australe Mitt. = ***Ditrichum strictum***

Pleuroidium arnoldii (R.Br.ter.) Par. Record based on a collection in HO determined by D.H. Norris.

Pleuroidium gracilentum (Mitt.) Mitt. = ***Pleuroidium nervosum***

Pleuroidium lampropyxis* (C.Muell.) Par. Watts & Whitelegge (1902).

Pleuroidium nervosum (Hook.) Mitt. Watts & Whitelegge (1902); Sainsbury (1955b).

Pleuroidium tenellum (Mitt.) Mitt. = ?***Pleuroidium nervosum***

ECHINODIACEAE

Echinodium hispidum (Hook.f. et Wils.) Reichtd. Bastow (1887) as *Hypnum hispidum*; Rodway (1914).

ENCALYPTACEAE

Encalypta novaevesliae Hampe. Hampe (1872). However, Scott & Stone (1976) record only for Victoria and New South Wales.

Encalypta vulgaris Hedw. Bastow (1887); Rodway (1914) as *E. australis*.

var. *mutica* Brid. Paris (1895).

Encalypta australis Mitt. = ***Encalypta vulgaris***

ENTODONTACEAE

Entodon tasmanicus* Mitt. Mitten (1882) described this for Tasmania but there are no collections in HO.

Pseudoscleropodium purum (Hedw.) Fleisch. Ratkowsky & Ratkowsky (1983).

EPHEMERACEAE

Ephemerum cristatum (Hook.f. et Wils.) C.Muell. Mitten (1882); Rodway (1914).

EPHEMEROPSISIDACEAE

Ephemeropsis trentepholioides (Renn.) Sainsb. Willis (1953). Formerly considered endemic in New Zealand. A rare epiphyte on dead twigs in humid forest.

ERPODIACEAE

Leptangium see Gigaspermaceae

FABRONIACEAE

Fabronia australis Hook. Scott & Stone (1976). Uncommon in wet *Eucalyptus* forest.

Ischyrodon lepturus (Tayl.) Schelpe. Harris & Ratkowsky (1982). A rare coastal moss, known in Tasmania from only two localities.

FISSIDENTACEAE

Fissidens adianthoides Hedw. Mitten (1882); Bastow (1887); Sainsbury (1955d).

Fissidens asplenoides Hedw. Bastow (1887); Sainsbury (1955d).

Fissidens brevifolius Hook.f. et Wils. = ***Fissidens taylorii***

Fissidens dealbatus Hook.f. et Wils. Mitten (1882); Bastow (1887); Rodway (1914).

Fissidens elamellosus C. Muell. et Hampe = ***Fissidens taylorii***

Fissidens fontanus (Pyl.) Steud. Catcheside (1980) but there are no collections in HO.

Fissidens incurvus Starke ex Roehl. Mitten (1882); Bastow (1887) as *F. incurvis*. Only one collection (W.H. Archer) held in HO.

Fissidens integerrimus* Mitt. Mitten (1882); Rodway (1914); Sainsbury (1955d).

Fissidens leptocladus C.Muell. ex Rodw. Weymouth (1903); Rodway (1914).

Fissidens oblongifolius Hook.f. et Wils. Mitten (1882); Bastow (1887); Rodway (1914).

Fissidens pallidus Hook.f. et Wils. Mitten (1882); Bastow (1887); Rodway (1914).

Fissidens pungens C.Muell. et Hampe. Bastow (1887); Rodway (1914).

Fissidens rigidulus Hook.f. et Wils. Mitten (1882); Bastow (1887); Rodway (1914).

ssp. ***rigidulus***

Fissidens semilimbatus C.Muell. et Hampe = ***Fissidens taylorii***

Fissidens strictus Hook.f. et Wils. Mitten (1882); Bastow (1887); Rodway (1914).

Fissidens taylorii C.Muell. Mitten (1882); Bastow (1887); Rodway (1914).

var. ***floribundus*** (Wils.) Wijk et Marg.

Fissidens tenellus Hook.f. et Wils. Mitten (1882); Bastow (1887); Rodway (1914).

Fissidens tortuosus* Geh. et Hampe. Watts & Whitelegge (1902) is the only record for Tasmania. No locality is given and no collection in HO.

Fissidens vittatus Hook.f. et Wils. Mitten (1882); Bastow (1887); Rodway (1914).

Fissidens whiteleggii C. Muell. ex Rodw. = *Fissidens pallidus*

FUNARIACEAE

Entosthodon gracilis Hook.f. et Wils. = *Entosthodon subnudus* var. *gracilis*

Entosthodon laxus (Hook.f. et Wils.) Mitt. = *Physcomitrium laxum*

Entosthodon productus Mitt. = *Funaria producta*

Entosthodon subnudus (Tayl.) Fife

var. *gracilis* (Hook.f. et Wils.) Fife. Bastow (1887) as *E. gracilis*; Rodway (1914) as *Funaria gracile*.

Funaria apophysata (Tayl.) Broth. Bastow (1887) as *Physcomitrium apophysatum*; Rodway (1914).

Funaria calvescens Schwaegr. = *Funaria hygrometrica* var. *calvescens*

Funaria crispula Hook.f. et Wils. = *Funaria glabra*

Funaria cuspidata Hook.f. et Wils. = *Entosthodon subnudus* var. *gracilis*

Funaria glabra Tayl. Mitten (1882); Bastow (1887); Rodway (1914).

Funaria gracilis (Hook.f. et Wils.) Broth. = *Entosthodon subnudus* var. *gracilis*

Funaria hygrometrica Hedw. Bastow (1887); Rodway (1914). Watts & Whitelegge (1906) referred to this species in Southern Hemisphere as *F. hygrometrica* var. *sphaerocarpa*.

var. *calvescens* (Schwaegr.) Mont. Watts & Whitelegge (1906).

var. *sphaerocarpa* (C. Muell.) Watts. Watts & Whitelegge (1906); Weymouth (1894) as *F. sphaerocarpa*.

Funaria producta (Mitt.) Broth. Mitten (1882) as *Entosthodon productus*; Rodway (1914).

Physcomitrium conicum Mitt. in Hook. Mitten (1882); Bastow (1887); Rodway (1914).

Physcomitrium laxum (Hook.f. et Wils.) C. Muell. Rodway (1914) considered this to be possibly a form of *P. conicum*.

Physcomitrium apophysatum (Tayl.) Wils. = *Funaria apophysata*

GIGASPERMACEAE

Gigaspermum repens (Hook.) Lindb. Bastow (1887) as *Leptangium repens*, Rodway (1914). Uncommon. Restricted to the low rainfall region of southeastern Tasmania.

Leptangium repens Mitt. = *Gigaspermum repens*

Leptangium tumidium Mitt. = ?*Gigaspermum repens*. Sainsbury (1955e).

GRIMMIACEAE

Grimmia apocarpa Hedw. = *Schistidium apocarpum*

Grimmia austrofunalis C. Muell. Record based on two collections by D. H. Norris (27623 & 28171). Previously known only from highland areas of southeastern mainland Australia.

Grimmia basaltica Mitt. = *Grimmia pulvinata*

Grimmia cygnicolla Tayl. = *Grimmia pulvinata*

Grimmia laevigata (Brid.) Brid. Bastow (1887) as *G. leucophaea*; Rodway (1914) as *G. leiocarpa*.

Grimmia leiocarpa Tayl. = *Grimmia laevigata*

Grimmia leucophaea Grev. = *Grimmia laevigata*

Grimmia pulvinata (Hedw.) Sm. Bastow (1887); Sainsbury (1955c).

var. *africana* (Hedw.) Hook.f. et Wils.

Grimmia pygmaea C. Muell. Watts & Whitelegge (1902).

*Grimmia stenophylla** C. Muell. Watts & Whitelegge (1902), but no collections at HO.

*Grimmia tasmanica** C. Muell. Watts & Whitelegge (1902). Sainsbury (1955c) placed in synonymy with *G. pulvinata*.

Grimmia trichophylla Grev. Bastow (1887); Rodway (1914).

Racomitrium crispulum (Hook.f. et Wils.) Hook.f. et Wils. Bastow (1887); Rodway (1914). For recent taxonomic treatment of varieties see Lawton (1973).

var. *rupestre* (Hook.f. et Wils.) Dix. = *Racomitrium rupestre*

var. *tasmanicum* (Hampe) Lawton

Racomitrium heterostichum (Hedw.) Brid. Bastow (1887); Rodway (1914).

var. *affine* (Web. et Mohr) Amann

var. *obtusum* (Brid.) Delogn.

Racomitrium lanuginosum (Hedw.) Brid. ssp. *lanuginosum* Mant. Vitt & Marsh (1988).

Racomitrium lanuginosum (Hedw.) Brid. var. *pruinosum* Hook.f. et Wils. = *R. pruinosum*

Racomitrium pruinosum (Wils.) C. Muell. Bastow (1887) as *R. lanuginosum* var. *pruinosum*; Vitt & Marsh (1988).

Racomitrium tychophyllum (Mitt.) Mitt. Ratkowsky & Ratkowsky (1983).

Racomitrium rupestre (Hook.f. et Wils.) Hook.f. et Wils. Bastow (1887); Rodway (1914).

Racomitrium symphydon Jaeg. = *Racomitrium crispulum*

Schistidium apocarpum (Hedw.) B.S.G. Bastow (1887);

Rodway (1914) as *G. apocarpa*.

HEDWIGIACEAE

Braunia humboldtii (Hook.) Hook.f. = *Rhacocarpus purpurascens*

Harrisonia australis (Hook.f. et Wils.) Hampe = *Rhacocarpus purpurascens*

Hedwigia albicans Lindb. = *Hedwigia ciliata*

Hedwigia ciliata (Hedw.) Ehrh. ex P. Beauv. Bastow (1887); Rodway (1914) as *H. albicans*.

Hedwigia imberbis (Sm.) Spruc. = *Hedwigidium integrifolium*

Hedwigia integrifolia P. Beauv. = *Hedwigidium integrifolium*

Hedwigia microcyathia (C. Muell.) F. Muell. = *Hedwigia ciliata*

Hedwigidium imberbe (Sm.) B.S.G. = *Hedwigidium integrifolium*

Hedwigidium integrifolium (P. Beauv.) Dix. in Jens. Bastow (1887) as *Hedwigia imberbis*; Rodway (1914) as *Hedwigidium imberbis*.

Rhacocarpus australis (Hook.f. et Wils.) Par. = *Rhacocarpus purpurascens*

Rhacocarpus humboldtii (Hook.) Lindb. = *Rhacocarpus purpurascens*

Rhacocarpus purpurascens (Brid.) Par. Bastow (1887) as *Braunia humboldtii*; Rodway (1914) as *Rhacocarpus australis*.

HOOKERIAACEAE

- Achrophyllum dentatum* (Hook.f. et Wils.) Vitt et Crosby. Bastow (1887) as *Hookeria denticulata*; Rodway (1914) as *Pterygophyllum denticulatum*.
- Calyptrochaeta apiculata* (Hook.f. et Wils.) Vitt. Bastow (1887) as *Hookeria apiculata*; Rodway (1914) as *Eriopus apiculatus*.
- Calyptrochaeta flexicollis* (Mitt. in Hook.f.) Vitt. Sainsbury (1956a) as *Eriopus flexicollis*.
- Daltonia angustifolia* Dozy et Molk. (Tasmanian material) = *Daltonia splachnoides*. Sainsbury (1956a); Scott & Stone (1976).
- Daltonia pusilla* Hook.f. et Wils. (Tasmanian material) = *Daltonia splachnoides*. Sainsbury (1956a); Scott & Stone (1976).
- Daltonia splachnoides* (Sm.) Hook. et Tayl. Bastow (1887); Rodway (1914) as *Daltonia pusilla*.
- Distichophyllum assimile* Broth. Fleischer (1922); Welch (1970). There are no collections held in HO.
- Distichophyllum beccarii* (C. Muell. ex Hampe et Geh.) Par. Paris (1895); Welch (1970). There are no collections held in HO.
- Distichophyllum complanatum* (Hampe) Mitt. Brotherus (1907); Welch (1970). There are no collections held in HO.
- Distichophyllum crispulum* (Hook.f. et Wils.) Mitt. Mitten (1882); Rodway (1914); Sainsbury (1956a). However, no collections are held at HO.
- Distichophyllum kraussii* (Lor.) Mitt. A new record based on a collection by A.J. Fife (8967) in 1988.
- Distichophyllum levieri* (Geh.) Broth. Brotherus (1907); Welch (1970). There are no collections held in HO.
- Distichophyllum microcarpum* (Hedw.) Mitt. Mitten (1882); Rodway (1914).
- Distichophyllum pulchellum* (Hampe) Mitt. Mitten (1882); Rodway (1914).
- Distichophyllum rotundifolium* (Hook.f. et Wils.) C. Muell. et Broth. Rodway 1914; Sainsbury 1956a
- Eriopus apiculatus* (Hook.f. et Wils.) Mitt. = *Calyptrochaeta apiculata*. Vitt (1979).
- Eriopus brownii* Dix. Willis (1957).
- Eriopus flexicollis* (Mitt.) Jaeg. = *Calyptrochaeta flexicollis*. Vitt (1979).
- Hookeria amblyophylla* Hook.f. et Wils. = *Distichophyllum pulchellum*
- Hookeria apiculata* Hook.f. et Wils. = *Calyptrochaeta apiculata*
- Hookeria denticulata* Hook.f. et Wils. = *Achrophyllum dentatum*
- Hookeria nigella* Hook.f. et Wils. = *Achrophyllum dentatum*
- Hookeria obscurum* Mitt. = *Pterygophyllum obscurum*
- Hookeria pennata* (Labill.) Sm. nom. illeg. = *Cyathophorum bulbosum* (Hypopterygiaceae)
- Hookeria tenella* Hook.f. et Wils. = *Sauloma tenella*
- Mniadelphus amblyophyllus* (Hook.f. et Wils.) Jaeg. = *Distichophyllum pulchellum*
- Mniadelphus microcarpus* (Hedw.) C. Muell. = *Distichophyllum microcarpum*
- Mniadelphus pulchellus* Hampe = *Distichophyllum pulchellum*
- Mniadelphus rotundifolius* (Hook.f. et Wils.) C. Muell. = *Distichophyllum rotundifolium*

- Mniadelphus sinuosus* (Hook.f. et Wils.) Jaeg. = *Distichophyllum pulchellum*
- Pterygophyllum dentatum* (Hook.f. et Wils.) Dix. = *Achrophyllum dentatum*
- Pterygophyllum denticulatum* Mitt. = *Achrophyllum dentatum*
- Pterygophyllum flaccidissimum** Broth. Brotherus (1909); Scott & Stone (1976) also list for Tasmania. However, there are no collections in HO.
- Pterygophyllum hookeri* Jaeg. = *Pterygophyllum obscurum*
- Pterygophyllum levieri* Geh. = *Distichophyllum levieri*
- Pterygophyllum microcarpum* (Hedw.) Brid. = *Distichophyllum microcarpum*
- Pterygophyllum nigellum* (Hook.f. et Wils.) Mitt. = *Achrophyllum dentatum*
- Pterygophyllum obscurum* Mitt. Mitten 1860; Bastow (1887) as *Hookeria obscurum*
- Sauloma tenella* (Hook.f. et Wils.) Mitt. Bastow (1887) as *Hookeria tenella*; Rodway (1914).

HYPNACEAE

- Hypnum aciculare* Labill. = *Ptychomnion aciculare* (Ptychomniaceae)
- Hypnum amoenum* Hedw. = *Rhaphidorrhynchium amoenum* (Sematophyllaceae)
- Hypnum aristatum* Hook.f. et Wils. = *Rhynchostegium laxatum* (Brachytheciaceae)
- Hypnum asperipes* Mitt. = *Eurhynchium asperipes* (Brachytheciaceae)
- Hypnum austrinum* Hook.f. et Wils. = *Eurhynchium austrinum* (Brachytheciaceae)
- Hypnum callidioides* C. Muell. = *Rhaphidorrhynchium callidioides* (Sematophyllaceae)
- Hypnum cerviculatum* Hook.f. et Wils. = *Sematophyllum leucocytus* (Sematophyllaceae)
- Hypnum chlamydothyllum* Hook.f. et Wils. = *Acrocladium chlamydothyllum* (Amblystegiaceae)
- Hypnum chrysogaster* C. Muell. Rodway (1914) as *Stereodon chrysogaster*
- Hypnum clandestinum* Hook.f. et Wils. = *Lembophyllum divulsum* (Lembophyllaceae)
- Hypnum cochlearifolium* Schwaegr. = *Weymouthia cochlearifolia* (Meteoriaceae)
- Hypnum collatum* Hook.f. et Wils. = *Rhynchostegium tenuifolium* (Brachytheciaceae)
- Hypnum comosum* Labill. = *Hypnodendron comosum* (Hypnodendraceae)
- Hypnum contiguum* Hook.f. et Wils. = *Sematophyllum contiguum* (Sematophyllaceae)
- Hypnum convolutifolium* Hampe = *Eurhynchium cucullatum* (Brachytheciaceae)
- Hypnum crinitum* Hook.f. et Wils. = *Wijkia extenuata* (Sematophyllaceae)
- Hypnum cupressiforme* Hedw. Bastow (1887); Sainsbury (1956b).
- var. *cupressiforme*
- var. *filiforme* Brid. Sainsbury (1956b); Scott & Stone (1976).
- var. *lacunosum* Brid. Sainsbury (1956b).
- var. *tectorum* Brid. Scott & Stone (1976).
- Hypnum divulsum* Hook.f. et Wils. = *Lembophyllum divulsum* (Lembophyllaceae)

- Hypnum fluitans* Hedw. = *Drepanocladus fluitans* (Amblystegiaceae)
Hypnum hispidum Hook.f. et Wils. = *Echinodium hispidum* (Echinodiaceae)
Hypnum jolliffii Hook.f. = *Rhaphidorrhynchium jolliffii* (Sematophyllaceae)
Hypnum moorei Broth. et Geh. = *Eurhynchium austrinum* (Brachytheciaceae)
Hypnum muriculatum Hook.f. et Wils. = *Rhynchostegiella muriculata* (Brachytheciaceae)
*Hypnum nelsonii** (Broth.) Par. Weymouth (1896); Rodway (1914) as *Stereodon nelsonii*. Known only from old collections, restricted to southeastern Tasmania.
Hypnum paradoxum Hook.f. et Wils. = *Brachythecium paradoxum* (Brachytheciaceae)
Hypnum remotifolium Hook.f. et Wils. = *Eurhynchium asperipes* (Brachytheciaceae)
Hypnum rutabulum Hedw. = *Brachythecium rutabulum* (Brachytheciaceae)
Hypnum tenuifolium Hedw. = *Rhynchostegium tenuifolium* (Brachytheciaceae)
Hypnum walterianum (Hampe) Jaeg. = *Hypnum cupressiforme*
*Isopterygium acuminatum** Boswell. Weymouth (1894); Rodway (1914); Sainsbury (1956b).
Isopterygium albescens (Hook.) Jaeg. Miller *et al.* (1978) list for Tasmania; however, Scott & Stone (1976) record only from the Australian mainland.
Isopterygium limatum (Hook.f.) Broth. Rodway (1914); Sainsbury (1956b). Uncommon and localised in wet sites.
Stereodon chrysogaster (C. Muell.) Mitt. = *Hypnum chrysogaster*
Stereodon cupressiformis (Hedw.) Brid. ex Mitt. = *Hypnum cupressiforme*
Stereodon flagelliramens Broth. = *Wijkia extenuata* (Sematophyllaceae)
Stereodon jolliffii (Hook.f.) Mitt. = *Rhaphidorrhynchium jolliffii* (Sematophyllaceae)
Stereodon nelsonii Broth. = *Hypnum nelsonii* (Broth.) Par.

HYPNODENDRACEAE

- Hypnodendron archeri* (Mitt.) Jaeg. = *Hypnodendron spininervium* ssp. *archeri*
Hypnodendron arcuatum (Hedw.) Lindb. ex Mitt. = *Hypnodendron vitiense* ssp. *australe*
Hypnodendron comosum (Labill.) Mitt.
 var. *comosum*. Bastow (1887) as *Isothecium comosum*; Touw (1971).
 var. *sieberi* (C. Muell.) Touw. Bastow (1887) as *Isothecium sieberi*; Touw (1971).
Hypnodendron spininervium (Hook.) Jaeg.
 ssp. *archeri* (Mitt.) Touw. Bastow (1887) as *Isothecium archeri*; Rodway (1914) as *Hypnodendron archeri*; Touw (1971).
Hypnodendron vitiense Mitt.
 ssp. *australe* Touw. Bastow (1887) as *Isothecium spininervium*; Touw (1971).
Mniodendron comosum (Labill.) Lindb. ex Par. = *Hypnodendron comosum* var. *comosum*
Mniodendron sieberi (C. Muell.) Jaeg. ex Par. = *Hypnodendron comosum* var. *sieberi*

HYOPTERYGIACEAE

- Cyathophorum bulbosum* (Hedw.) C. Muell. Bastow (1887) as *C. pennatum*; Rodway (1914).
 var. *minus* (Hook.f. et Wils.) Par. Weymouth (1894); Rodway (1914) as *C. densirete*.
Cyathophorum densirete Broth. = *Cyathophorum bulbosum* var. *minus*
Cyathophorum pennatum (Labill.) Brid. = *Cyathophorum bulbosum*
Hypopterygium ciliatum (Hedw.) Brid. = *Catharomnion ciliatum*. See Doubtful and Excluded Records.
Hypopterygium didictyon C. Muell. Mitten (1882) as *H. Novae Zealandiae*; Rodway (1914) as *H. novae-zelandiae*; Bastow (1887) as *H. glaucum*. However, Scott & Stone (1976) consider that this species is not satisfactorily distinguished from *H. rotulatum*.
Hypopterygium glaucum Sull. = *Hypopterygium didictyon*
Hypopterygium novaeseelandiae C. Muell. = *Hypopterygium didictyon*
Hypopterygium pallens (Hook.f. et Wils.) Mitt. = *Lopidium concinnum*
Hypopterygium rotulatum (Hedw.) Brid. Scott & Stone (1976).
Hypopterygium setigerum Wils. = *Hypopterygium commutatum*
Hypopterygium smithianum Hook.f. et Wils. = *Hypopterygium didictyon*
Hypopterygium tasmanicum C. Muell. ex Kindb. = *Hypopterygium didictyon*
Lopidium concinnum (Hook.) Wils. Bastow (1887); Rodway (1914) as *Lopidium pallens*.
Lopidium pallens Hook.f. et Wils. = *Lopidium concinnum*

LEMBOPHYLLACEAE

- Camptochaete arbuscula* (Sm.) Reichdt. Bastow (1887) as *Isothecium arbuscula*; Rodway (1914).
 var. *deflexa* (Wils.) Dix. Rodway (1914) as *Camptochaete deflexa*.
Camptochaete deflexa (Wils.) Jaeg. = *Camptochaete arbuscula* var. *deflexa*
Camptochaete gracilis (Hook.f. et Wils.) Par. Rodway (1914) as *C. gracile*.
Camptochaete ramulosa (Mitt.) Jaeg. = *Camptochaete arbuscula*. Scott & Stone (1976).
Camptochaete tasmanica Broth. = *Camptochaete gracilis*. Rodway (1914); Sainsbury (1955f) considers as a form of *C. gracilis*.
Camptochaete vaga (Hornsch. ex C. Muell.) Broth. Mitten (1882) as *Porotrichum vagum*. Sainsbury (1955f) inferred occurrence in Tasmania. Scott & Stone (1976) did not indicate as occurring in Tasmania.
Isothecium angustatum (Mitt.) Hook.f. = *Camptochaete angustata*. See Doubtful and Excluded Records.
Isothecium arbuscula (Sm.) Brid. = *Camptochaete arbuscula*
Isothecium archeri Mitt. = *Hypnodendron spininervium* ssp. *archeri* (Hypnodendraceae)
Isothecium colensoi Hook. f. et Wils. = *Hypnodendron colensoi*. See Doubtful and Excluded Records.
Isothecium comosum (Labill.) Brid. = *Hypnodendron comosum* var. *comosum* (Hypnodendraceae)
Isothecium fruticosum (Mitt.) Bastow = *Camptochaete fruticosa*. See Doubtful and Excluded Records.

Isoethecium pumilum Hook.f. et Wils. = ***Thamnobryum pumilum***

Isoethecium ramulosum Mitt. = ***Camptochaete arbuscula***
Isoethecium sieberi (C. Muell.) Wils. = ***Hypnodendron comosum*** var. ***sieberi*** (Hypnodendraceae)

Isoethecium spininervium (Hook.) Wils. = ***Hypnodendron vitiense*** ssp. ***australe*** (Hypnodendraceae)

Lembophyllum clandestinum (Hook.f. et Wils.) Lindb. = ***Lembophyllum divulsum*** var. ***clandestinum***

Lembophyllum cochlearifolium (Schwaegr.) Lindb. = ***Weymouthia cochlearifolia*** (Meteoriaceae)

Lembophyllum divulsum (Hook.f. et Wils.) Lindb. Rodway (1914).

var. ***clandestinum*** (Hook.f. et Wils.) Wijk et Marg. Rodway (1914) treated at specific rank. Sainsbury (1955f) and Scott & Stone (1976) treat only as a variety.

LEPYRODONTACEAE

Lepyrodon lagurus (Hook.) Mitt. Bastow (1887) as *Leucodon lagurus*; Rodway (1914).

LEUCOBRYACEAE

Leucobryum candidum (P.Beauv.) Wils. Bastow (1887); Rodway (1914). Sainsbury (1955b) considered varieties in Tasmanian material to be referable to the typical plant. var. ***majus*** (Schwaegr.) Jaeg. ex Dix. var. ***pentastichum*** (Dozy et Molk.) Dix.

Leucobryum confusum Ther. = ?***Leucobryum candidum***

LEUCODONTACEAE

Leucodon lagurus Hook. = ***Lepyrodon lagurus*** (Lepyrodontaceae)

METEORIACEAE

Barbella nitens (Hook.f. et Wils.) Nog. Rodway (1914) as *Papillaria intricata*; Sainsbury (1955f) as *Papillaria nitens*.

Meteorium billardieri (Hampe) Mitt. = ***Weymouthia cochlearifolia*** var. ***billardieri***

Meteorium cerinum Hook.f. et Wils. = ***Papillaria flavolimbata***

Meteorium filipendulum Hook.f. et Wils. = ***Papillaria flexicaulis***

Meteorium molle Wils. = ***Weymouthia mollis***

Papillaria crocea (Hampe) Jaeg. Rodway (1914) as *P. kermadecensis*; Sainsbury (1955f).

Papillaria filipendula (Hook.f. et Wils.) Jaeg. = ***Papillaria flexicaulis***

Papillaria flavolimbata (C.Muell. et Hampe) Jaeg. Bastow (1887) as *Meteorium cerinum*; Rodway (1914); Sainsbury (1955f).

Papillaria flexicaulis (Wils.) Jaeg. Bastow (1887) as *Meteorium filipendulum*; Rodway (1914) as *Papillaria filipendula*; Sainsbury (1955f).

Papillaria intricata (Mitt.) C.Muell. et Broth. = ***Barbella nitens***. Noguchi (1985).

Papillaria kermadecensis (C.Muell.) Jaeg. = ***Papillaria crocea***

Papillaria nitens (Hook.f. et Wils.) Sainsb. = ***Barbella nitens*** Noguchi (1985).

Weymouthia cochlearifolia (Schwaegr.) Dix. Bastow (1887) as *Hypnum cochlearifolium*; Rodway (1914) as *Weymouthia billardieri*.

var. ***billardieri*** (Hampe) Dix. Sainsbury (1955f) did not consider this variety to be justified.

Weymouthia mollis (Hedw.) Broth. Bastow (1887) as *Meteorium molle*; Rodway (1914).

Weymouthia billardieri (Hampe) Broth. = ***Weymouthia cochlearifolia*** var. ***billardieri***

MITTENIACEAE

Mittenia plumula (Mitt.) Lindb. Mitten (1882); Bastow (1887) as *Mniopsis plumula*; Rodway (1914).

Mniopsis plumula Mitt. = ***Mittenia plumula***

MNIACEAE

Mnium longirostre Brid. (Australian records) = *Plagiomnium novaezealandiae*. See Doubtful and Excluded Records.

Mnium rostratum Schrad. (Australian records) = *Plagiomnium novaezealandiae*. See Doubtful and Excluded Records.

Plagiomnium rostratum (Schrad.) T.Kop. (Australian records) = *Plagiomnium novaezealandiae*. See Doubtful and Excluded Records.

NECKERACEAE

Calypothecium bufonii Broth. et Geh. = ***Rhabdodontium bufonii*** (Pterobryaceae)

Cladomnion, see Ptychomniaceae

Homalia pulchella Hook. f. et Wils. = ***Homalia punctata***

Homalia punctata (Hook.f. et Wils.) Wijk et Marg. Jaeger & Sauerbeck (1877); Brotherus (1906) as *H. pulchella*. There are no collections held in HO to support these early records.

Neckera hymenodonta C.Muell. = ***Neckera pennata***

Neckera pennata Hedw. Mitten 1882 as *N. hymenodonta*; Bastow (1887).

Neckera rivalis Mitt. = ***Thamnobryum pumilum***

Porotrichum fruticosum Mitt. = *Camptochaete fruticosa*. See Doubtful and Excluded Records.

Porotrichum vagum (Hornsch. ex C. Muell.) Mitt. = ***Camptochaete vaga*** (Lembophyllaceae)

Thamnum pandum (Hook. f. et Wils.) Jaeg. = ***Thamnobryum pandum***.

Thamnum pumilum (Hook.f. et Wils.) Kindb. = ***Thamnobryum pumilum***

Thamnum tenerascens Burchard = ***Thamnobryum pumilum***

Thamnobryum pandum (Hook.f. et Wils.) Stone et Scott. Kindberg (1902) as *Thamnum pandum*. Scott & Stone (1976) did not indicate that this occurs in Tasmania; however, a Tasmanian collection (D. McVean 26768) is held in CBG.

Thamnobryum pumilum (Hook.f. et Wils.) Nieuwl. Bastow 1887 as *Isoethecium pumilum*; Rodway (1914) as *Thamnum pumilum*

NEMATACEAE see EPHEMEROSIDACEAE

ORTHOTRICHACEAE

Amphidium cyathicarpum (Mont.) Broth. Mitten (1860) as *Didymodon cyathicarpus*; Scott & Stone (1976).

Macrocoma tenue (Hook. et Grev.) Vitt. Bastow (1887) as *Macromitrium microphyllum*; Rodway (1914) as *Macromitrium eucalyptorum*; Vitt (1980b).

ssp. *tenue*

Macromitrium archeri Mitt. in Hook. Mitten (1860); Bastow (1887); Rodway (1914).

Macromitrium eucalyptorum C.Muell. et Hampe = *Macrocoma tenue*

Macromitrium ligulaefolium Broth. Vitt & Ramsay (1985), an uncommon species in Tasmania.

Macromitrium longirostre (Hook.) Schwaegr. Bastow (1887); Rodway (1914); Weymouth & Rodway (1922) as *Macromitrium rodwayi*.

Macromitrium microphyllum (Hook. et Grev.) Brid. = *Macrocoma tenue* ssp. *tenue*

Macromitrium microstomum (Hook. et Grev.) Schwaegr. Bastow (1887); Rodway (1914) as *Macromitrium weymouthii*.

Macromitrium pusillum Mitt. in Hook. = *Macromitrium archeri*

Macromitrium rodwayi Dix. in Weym. et Rodw. = *Macromitrium longirostre*

*Macromitrium subulatum** Mitt. Mitten (1882) described from Bass' Straits (Tasmania?); Vitt & Ramsay (1985). Known only from the type, collected by Milne, no specific habitat given.

Macromitrium tasmanicum Broth. = *Macromitrium microstomum*

Macromitrium tenue (Hook. et Grev.) Brid. = *Macrocoma tenue* ssp. *tenue*

Macromitrium torquatulum (C.Muell.) C.Muell. et Broth. = *Macromitrium longirostre*

Macromitrium weymouthii Broth. = *Macromitrium microstomum*

Orthotrichum lateciliatum Vent. = *Orthotrichum tasmanicum* var. *tasmanicum*

Orthotrichum lawrencii Mitt. in Hook. = *Orthotrichum tasmanicum* var. *tasmanicum*

Orthotrichum rupestre Schleich. ex Schwaegr. Sainsbury (1955c).

Orthotrichum tasmanicum Hook.f. et Wils. Mitten (1882); Rodway (1914).

var. *tasmanicum*

Ulota anceps Vent. = *Ulota viridis*

Ulota appressa Mitt. = *Ulota viridis*

Ulota cochleata Vent. = *Ulota viridis*

Ulota dixonii Malta. Sainsbury (1955c). Rare; there are no collections in HO.

Ulota laticiliata Malta. Sainsbury (1955c). Rare; there are no collections in HO.

Ulota lutea (Hook.f. et Wils.) Mitt. Mitten (1860); Rodway (1914).

Ulota membranata Malta. Sainsbury (1955c).

Ulota viridis Vent. Weymouth (1894); Rodway (1914).

Ulota weymouthii Burchard = *Ulota lutea*

Zygodon anomalus Dozy et Molk. = *Zygodon reinwardtii*

Zygodon brownii Schwaegr. = *Zygodon intermedius*

Zygodon cyathicarpus Mont. = *Amphidium cyathicarpus*

Zygodon hookeri Hampe. Sainsbury (1955c).

Zygodon intermedius B.S.G. Mitten (1882); Rodway (1914).

Zygodon menziesii (Schwaegr.) Arnott. Mitten (1882).

Zygodon minutus C.Muell. et Hampe. Bastow (1887); Sainsbury (1955c). Rare, no collections in HO.

Zygodon obtusifolius Hook. Weymouth (1903). Rare, western Tasmania, epiphytic.

Zygodon reinwardtii (Hornschn.) Braun. Mitten (1882). Rare; known only from southeastern Tasmania.

*Zygodon rodwayi** Broth. in Rodw. Rodway (1914), but Sainsbury (1955c) made no reference to this in dealing with Rodway's herbarium.

PHYLLOGONIACEAE

Catagonium nitens (Brid.) Card. = *Catagonium politum*

Catagonium politum (Hook.f. et Wils.) Dus. ex Broth. Rodway (1914); Sainsbury (1956b).

PLAGIOTHECIACEAE

Isopterygium see Hypnaceae

Plagiothecium denticulatum (Hedw.) B.S.G. Mitten (1882); Rodway (1914) as *P. lamprostachys*.

Plagiothecium lamprostachys (Hampe) Jaeg. = *Plagiothecium denticulatum*

PLEUROPHASCACEAE

Pleurophascum grandiglobum Lindb. Bastow (1887); Rodway (1914). Infrequent in buttongrass sedgeland and wet subalpine heathland. Restricted to the southern and western parts of Tasmania and New Zealand.

POLYTRICHACEAE

Atrichum androgynum (C.Muell.) Jaeg. Mitten (1882) as *A. muelleri*; Rodway (1914) as *Catharinea muelleri*.

Atrichum muelleri (C.Muell. et Hampe) Jaeg. = *Atrichum androgynum*

Atrichum pusillum (C.Muell.) Par. = *Atrichum androgynum*
Catharinea muelleri C.Muell. et Hampe = *Atrichum androgynum*

Pogonatum alpinum (Hedw.) Roehl. = *Polytrichastrum alpinum*

Pogonatum australasicum (C.Muell. et Hampe) Jaeg. = *Pogonatum subulatum*

Pogonatum gulliveri (Hampe) Jaeg. Mitten (1882); Hyvönen (1989) considered that this moss belongs in Rhizogoniaceae.

Pogonatum subulatum (Brid.) Brid. Scott & Stone (1976).
Polytrichadelphus lagenaceus (C.Muell.) Par. =

Polytrichadelphus magellanicus

Polytrichadelphus magellanicus (Hedw.) Mitt. Mitten (1860); Rodway (1914).

Polytrichastrum alpinum (Hedw.) G.L. Smith. Mitten (1882) as *Pogonatum alpinum*; Bastow (1887); Rodway (1914) as *Polytrichum alpinum*.

Polytrichum alpinum Hedw. = *Polytrichastrum alpinum*

Polytrichum australe Hook.f. et Wils. = *Psilopilum australe*

Polytrichum commune Hedw. Mitten (1882); Bastow (1887); Rodway (1914).

Polytrichum crispulum Hook.f. et Wils. = *Psilopilum crispulum*

*Polytrichum croceum** Hampe. Watts & Whitelegge (1902) but no collection or locality was cited. There are no collections held in HO.

Polytrichum formosum Hedw. Ratkowsky & Ratkowsky (1983).

Polytrichum juniperinum Hedw. Mitten (1882); Bastow (1887); Rodway (1914).

*var. *australe* C.Muell.

*Polytrichum lycopodioides** C.Muell. Watts & Whitelegge (1902) but no locality was specified. There are no collections held in HO.

Polytrichum magellanicum Hedw. = *Polytrichadelphus magellanicus*

Polytrichum tasmaniae C.Muell. = *Polytrichum juniperinum*

Psilopilum australe (Hook.f. et Wils.) Mitt. Mitten (1882); Rodway (1914).

Psilopilum crispulum (Hook.f. et Wils.) Mitt. Mitten (1882); Rodway (1914).

POTTIACEAE

Acaulon apiculatum Mitt. = *Acaulon integrifolium*

Acaulon integrifolium C.Muell. Mitten (1882) as *A. turgidum*.

Anomodon see Thuidiaceae

Astomum cylindricum (Tayl.) Mitt. = *Tetrapterum cylindricum*

Astomum weymouthii (C.Muell.) Broth. = *Tetrapterum weymouthii*

Barbula australasiae (Hook. et Grev.) Brid. = *Didymodon australasiae*

Barbula calycina Schwaegr. Mitten (1882); Rodway (1914).

*Barbula chrysopus** C.Muell. Scott & Stone (1976).

Barbula crinita Schultz. Mitten (1882) as *Tortula pseudopilifera*.

Barbula hampeana Par. Scott & Stone (1976).

Barbula hornschiuchiana Schultz. Catcheside (1980).

Barbula knightii (Mitt.) Reichdt. = *Tortella knightii*

Barbula luteola (Mitt.) Par. Bastow (1887) as *Tortula pungens*.

Barbula pseudopilifera C.Muell. et Hampe = *Barbula crinita*

Barbula pungens Jaeg. = *Barbula luteola*

Barbula rubella (Hook.f. et Wils.) Jaeg. = *Tortula princeps*

Barbula subtorquata C.Muell. et Hampe = *Didymodon subtorquatus*

Barbula torquata Tayl. = *Didymodon torquatus*

Barbula unguiculata Hedw. Weymouth (1903).

Bryoerythrophyllum binnsii (R.Br.ter.) Wijk et Marg. = *Bryoerythrophyllum jamesonii*

Bryoerythrophyllum jamesonii (Tayl.) Crum. Ratkowsky & Ratkowsky (1983).

Calyptopogon mnioides (Schwaegr.) Broth. Bastow (1887) as *Tortula mnioides*; Rodway (1914) as *Streptopogon crispatus*.

Desmatodon convolutus (Brid.) Grout. Bastow (1887) as *D. nervosus*.

Desmatodon nervosus DeNot. = *Desmatodon convolutus*

Desmatodon recurvatus (Hook.) Mitt. Mitten (1882) as *Tortula recurvata*.

Didymodon australasiae (Hook. et Grev.) Zand. Bastow (1887) as *Tortula australasiae*.

Didymodon cyathicarpus (Mont.) Mitt. = *Amphidium cyathicarpum* (Orthotrichaceae)

Didymodon papillatus Hook.f. et Wils. = *Triquetrella papillata*

Didymodon subtorquatus (C.Muell. et Hampe) Catches. Weymouth (1894) as *Barbula subtorquata*.

Didymodon tasmanicus (Hook.f.) Mitt. = *Tridontium tasmanicum*

Didymodon torquatus (Tayl.) Catches. Bastow (1887) as *Tortula torquata*.

Eucladium tasmanicum Broth. ex Rodw. = ?*Gymnostomum calcareum*

Gymnostomum aeruginosum Sm. Streimann & Curnow (1989).

Gymnostomum calcareum Nees et Hornsch. Bastow (1887). Streimann & Curnow (1989) considered synonymous with *G. aeruginosum*.

Leptodontium papillatum Hook.f. et Wils. ex Par. = *Triquetrella papillata*

Phascum apiculatum Hook.f. et Wils. = *Acaulon integrifolium*

Phascum cristatum Hook.f. et Wils. = *Ephemerum cristatum* (Ephemeraceae)

Phascum cylindricum Tayl. = *Tetrapterum cylindricum*

Phascum gracilentum Mitt. = *Pleuridium nervosum* (Ditrichaceae)

Phascum tasmanicum Dix. et Rodw. Dixon & Rodway (1923). var. *tasmanicum*. Stone (1989).

Phascum weymouthii C.Muell. = *Tetrapterum weymouthii*

Pottia davalliana (Sm.) C.Jens. Scott & Stone (1976).

Pottia drummondii (Wils.) Willis. Scott & Stone (1976).

var. *obscura* Willis. Catcheside (1980).

Pottia heimii (Hedw.) Hampe. Weymouth & Rodway (1922); Sainsbury (1953b).

Pottia melbourniana Dix. ex Weym. et Rodw. = *Pottia truncata*

Pottia starckeana (Hedw.) C.Muell. Scott & Stone (1976).

Pottia subphyscomitrioides Broth. = *Pottia truncata*

*Pottia tasmanica** Broth. Scott & Stone (1976).

Pottia truncata (Hedw.) B.S.G. Sainsbury (1953b).

Streptopogon crispatus (Hampe) Jaeg. = *Calyptopogon mnioides*

Tetrapterum cylindricum (Tayl.) Jaeg. Bastow (1887) as *Phascum cylindricum*.

*Tetrapterum weymouthii** (C.Muell.) Broth. Watts & Whitelegge (1902) as *Astomum weymouthii*.

Tortella calycina (Schwaegr.) Dix. = *Barbula calycina*

Tortella inclinata (Hedw.f.) Limpr. Mitten (1882) as *Tortula nevina*.

Tortella knightii (Mitt.) Broth. Mitten (1882) as *Tortula knightii*; Rodway (1914).

Tortula anderssonii Aongstr. Ramsay et al. (1986) as *T. bealeyensis*.

Tortula antarctica (Hampe) Wils. = *Tortula princeps*

Tortula atrovirens (Sm.) Lindb. = *Desmatodon convolutus*

Tortula australasiae Hook. et Grev. = *Didymodon australasiae*

Tortula bealeyensis R.Br. = *Tortula anderssonii* Lightowlers (1986).

Tortula brachytricha (C.Muell.) Broth. = *Tortula princeps*

Tortula calycina (Schwaegr.) Hook. et Grev. = *Barbula calycina*

Tortula cuspidata Hook.f. et Wils. = *Tortula princeps*

Tortula elaphrotricha (C.Muell.) Broth. ex Watts et Whitel. = *Tortula muralis*

- Tortula knightii* Mitt. = *Tortella knightii*
Tortula latrobeana (C.Muell.) Mitt. Mitten (1882); Bastow (1887), but there are no collections in HO to support these early records.
Tortula luteola Mitt. = *Barbula luteola*
Tortula mnioides (Schwaegr.) Mont. = *Calyptopogon mnioides*
Tortula muelleri Hook.f. et Wils. = *Tortula princeps*
Tortula muralis Hedw. Weymouth (1894); Rodway (1914).
Tortula pagorum (Milde) DeNot. Ratkowsky & Ratkowsky (1983). Uncommon, often growing with *Tortula papillosa* in drier habitats.
Tortula panduraefolia (C.Muell. et Hampe) Broth. Weymouth (1903); Rodway (1914) places in synonymy with *T. princeps*.
Tortula papillosa Wils. Bastow (1887); Rodway (1914).
Tortula princeps DeNot. Bastow (1887) as *T. muelleri*; Rodway (1914).
Tortula pseudopilifera (C.Muell. et Hampe) Mitt. = *Barbula crinita*
Tortula pungens Hook.f. et Wils. = *Barbula luteola*
Tortula recurvata Hook. = *Desmatodon recurvatus*
Tortula rubella Hook.f. et Wils. = *Tortula princeps*
Tortula rubra Mitt. in Hook.f. Ratkowsky & Ratkowsky (1983).
Tortula subtorquata (C.Muell. et Hampe) Mitt. = *Didymodon subtorquatus*
Tortula torquata (Tayl.) Wils. = *Didymodon torquatus*
Trichostomopsis australasiae (Hook. et Grev.) H.Robinson = *Didymodon australasiae*
Trichostomum australe Mitt. = *Ditrichum strictum* (Ditrichaceae)
Trichostomum cylindricarpum (C.Muell.) Wils. = *Ditrichum cylindricarpum* (Ditrichaceae)
Trichostomum elongatum Hook.f. et Wils. = *Ditrichum cylindricarpum* (Ditrichaceae)
Trichostomum laxifolium Hook.f. et Wils. = *Ditrichum difficile* (Ditrichaceae)
Trichostomum oldfieldii Mitt. = *Ditrichum difficile* (Ditrichaceae)
Trichostomum setosum Hook.f. et Wils. = *Ditrichum difficile* (Ditrichaceae)
Tridontium tasmanicum Hook.f. Sainsbury (1953b).
Triquetrella papillata (Hook.f. et Wils.) Broth. Bastow (1887) as *Didymodon papillatus*; Rodway (1914) as *Leptodontium papillatum*.
Weissia calcarea (Nees et Hornsch.) C.Muell. = *Gymnostomum calcareum*
Weissia controversa Hedw. Mitten (1882); Rodway (1914) as *Weissia flavipes*.
Weissia flavipes Hook.f. et Wils. = *Weissia controversa*
Weissia microcarpa Hook.f. et Wils. = *Dicranoweisia microcarpa* (Dicranaceae)
Weissia weymouthii C.Muell. = *Weissia controversa*. Sainsbury (1953b).
- PTEROBRYACEAE**
Calyptothecium buftonii Broth. et Geh. = *Rhabdodontium buftonii*
Pterobryum planifolium (Hedw.) Mitt. = *Trachyloma planifolium*

- Pulchrinodus inflatus* (Hook.f. et Wils.) Allen. Allen (1987b). A new record. Rare in southwestern Tasmania.
*Rhabdodontium buftonii** (Broth. et Geh.) Broth. Weymouth (1896) as *Calyptothecium buftonii*; Rodway (1914). This moss was originally known from two collections of the late 19th century and not found again until 1976, Norris & Montalvo (1981). Rare, known from rocks in rapid streams in western Tasmania.
Trachyloma diversinerve Hampe. Miller & Manuel (1982).
Trachyloma planifolium (Hedw.) Brid. Mitten (1882) as *Pterobryum planifolium*; Rodway (1914).

PTYCHOMITRIACEAE

- Glyphomitrium latifolium* Broth. = *Tridontium tasmanicum* (Pottiaceae)
Ptychomitrium acutifolium Hook.f. et Wils. = *Ptychomitrium australe*
Ptychomitrium australe (Hampe) Jaeg. Bastow (1887) as *P. acutifolium*.
Ptychomitrium mittenii Jaeg. Bastow (1887) as *P. serratum*.
Ptychomitrium serratum (Mitt.) Hook.f. et Wils. = *Ptychomitrium mittenii*

PTYCHOMNIACEAE

- Cladomnion sciuroides* (Hook.) Wils. = *Glyphothecium sciuroides*
Cladomnion setosum (Hedw.) Wils. = *Cyrtopus setosus*. See Doubtful and Excluded Records.
Cladomnion tasmanicum C.Muell. = *Glyphothecium sp.*
Glyphothecium sciuroides (Hook.) Hampe. Bastow (1887) as *Cladomnion sciuroides*; Rodway (1914).
Hampeella ataris (Dix. et Sainsb.) Sainsb. Sainsbury (1955f).
Ptychomnium aciculare (Brid.) Mitt. Mitten (1882); Bastow (1887) as *Hypnum aciculare*; Rodway (1914).

RACOPILACEAE

- Racopilum australe* Hook.f. et Wils. = *Racopilum convolutaceum*
Racopilum convolutaceum (C.Muell.) Reichdt. Mitten (1882) as *R. strumiferum*; Bastow (1887) as *R. australe*; Rodway (1914) as *R. cristatum*.
Racopilum cristatum Hook.f. et Wils. = *Racopilum convolutaceum*
Racopilum strumiferum C.Muell. = *Racopilum convolutaceum*. Scott & Stone (1976)
Racopilum tomentosum (Hedw.) Brid. Jaeger & Sauerbeck (1876). Scott & Stone (1976) suggested that this species may be the same as *R. convolutaceum*.

RHIZOGONIACEAE

- Goniobryum subbasilare* (Hook.) Lindb. Bastow (1887) as *Rhizogonium subbasilare*; Rodway (1914).
Hymenodon pilifer Hook.f. et Wils. Bastow (1887); Rodway (1914).
Pyrrobryum bifarium (Hook.) Manuel. Mitten (1882); Bastow (1887); Rodway (1914) as *Rhizogonium bifarium*.
Pyrrobryum mnioides (Hook.) Manuel. Bastow (1887); Rodway (1914) as *Rhizogonium mnioides*.
Pyrrobryum parramattense (C.Muell.) Manuel. Scott & Stone (1976) as *Rhizogonium parramattense*.

Pyrrhobryum spiniforme (Hedw.) Mitt. Bastow (1887); Rodway (1914); Sainsbury (1955d) as *Rhizogonium spiniforme*.

*Rhizogonium alpestre** C.Muell. Watts and Whitelegge (1906). According to Scott & Stone (1976) the status of this taxon is in question.

Rhizogonium aristatum Hampe = *Rhizogonium pennatum* var. *aristatum*

Rhizogonium bifarium (Hook.) Schimp. = *Pyrrhobryum bifarium*, Manuel (1980).

Rhizogonium distichum (Sw.) Brid. Mitten (1882); Bastow (1887); Rodway (1914).

Rhizogonium hookeri (C.Muell.) Mitt. = *Pyrrhobryum mnioides*

Rhizogonium mnioides (Hook.) Wils. in Hook. = *Pyrrhobryum mnioides*, Manuel (1980).

Rhizogonium mosmanianum (C.Muell.) Jaeg. = *Pyrrhobryum mnioides*

Rhizogonium novaehollandiae (Brid.) Brid. Bastow (1887); Rodway (1914).

Rhizogonium parramattense (C.Muell.) Reichdt. = *Pyrrhobryum parramattense*, Manuel (1980).

Rhizogonium pellucidum (Mitt.) Jaeg. = *Goniobryum subbasilare*

Rhizogonium pennatum Hook.f. et Wils. var. *aristatum* (Hampe) Dix. Mitten (1882); Rodway (1914) treated at specific rank; Sainsbury (1955d).

Rhizogonium spiniforme (Hedw.) Bruch = *Pyrrhobryum spiniforme*

Rhizogonium subbasilare (Hook.) Schimp. = *Goniobryum subbasilare*

RHYTIADIACEAE

Rhytiadelphus squarrosus (Hedw.) Warnst. A new record for Tasmania and apparently the Southern Hemisphere. One collection from west coast of Tasmania (A.J. Fife 8969).

SELIGERIACEAE

Blindia arcuata Mitt. = *Blindia magellanica*

Blindia ferruginea (Mitt. ex Wils.) Broth. = ?*Dicranoweisia* sp. (Dicranaceae). Identity uncertain, Bartlett & Vitt (1986).

Blindia magellanica Schimp. in C.Muell. Mitten (1882) as *B. arcuata*; Sainsbury (1955b).

Blindia robusta Hampe. Weymouth (1894).

Blindia tasmanica Sainsb. = *Blindia robusta*

Blindia tenuifolia Mitt. = *Blindia robusta*

SEMATOPHYLLACEAE

Acanthocladium extenuatum (Brid.) Mitt. = *Wijkia extenuata* *Rhaphidorrhynchium amoenum* (Hedw.) Fleisch. Bastow (1887) as *Hypnum amoenum*; Sainsbury (1956b) as *Sematophyllum amoenum*.

Rhaphidorrhynchium callidioides (C.Muell.) Broth. Weymouth (1894) as *Rhaphidostegium callidioides*.

Rhaphidorrhynchium calliferum (Geh. et Hampe) Fleisch. Rodway (1914) as *Rhaphidostegium calliferum*; Sainsbury (1956b) considered synonymous with *R. amoenum*.

Rhaphidorrhynchium jolliffii (Hook.f.) Broth. Mitten (1860) as *Stereodon jolliffii*; Bastow (1887) as *Hypnum jolliffii*.

Rhaphidorrhynchium cerviculatum (Hook.f. et Wils.) Mitt. = *Sematophyllum leucocytus*

Rhaphidorrhynchium homomallum (Hampe) Mitt. = *Sematophyllum homomallum*

Rhaphidorrhynchium tenuirostre (Hook.) Mitt. = *Sematophyllum uncinatum*

Rhaphidostegium callidioides (C.Muell.) Jaeg. = *Rhaphidorrhynchium callidioides*

Rhaphidostegium calliferum Geh. et Hampe = *Rhaphidorrhynchium calliferum*

Rhaphidostegium contiguum (Mitt.) Par. = *Sematophyllum contiguum*

Rhaphidostegium crassiusculum (Brid.) Jaeg. = *Sematophyllum crassiusculum*

Rhaphidostegium cyparioides (Brid.) Jaeg. = *Rhaphidorrhynchium amoenum*

Rhaphidostegium jolliffii (Hook.f.) Jaeg. = *Rhaphidorrhynchium jolliffii*

Sematophyllum amoenum (Hedw.) Mitt. = *Rhaphidorrhynchium amoenum*

Sematophyllum caespitosum (Hedw.) Mitt. Dixon (1950) based on a collection made in 1824.

Sematophyllum crassiusculum (Brid.) Broth. Rodway (1914) as *Rhaphidostegium crassiusculum*.

Sematophyllum contiguum (Mitt.) Mitt. in Seeman. Bastow (1887) as *Hypnum contiguum*; Sainsbury (1956b).

Sematophyllum homomallum (Hampe) Broth. Mitten (1882) as *Rhaphidorrhynchium homomallum*; Sainsbury (1956b).

Sematophyllum jolliffii (Hook.f.) Dix. = *Rhaphidorrhynchium jolliffii*

Sematophyllum leucocytus (C.Muell.) Sainsb. Mitten (1882) as *Rhaphidorrhynchium cerviculatum*; Bastow (1887) as *Hypnum cerviculatum*; Sainsbury (1956b).

Sematophyllum subcylindricum (Broth. ex Fleisch.) Sainsb. Scott & Stone (1976).

Sematophyllum tenuirostre (Hook.) Dix. = *Sematophyllum uncinatum*

Sematophyllum uncinatum Stone et Scott. Mitten (1882) as *Rhaphidorrhynchium tenuirostre*; Scott & Stone (1976).

Wijkia extenuata (Brid.) Crum. Mitten (1882) as *Acanthocladium extenuatum*.

SPHAGNACEAE

The taxonomy and nomenclature of Australian *Sphagnum* species is confused and awaits a thorough revision.

Sphagnum antarcticum Mitt. = *Sphagnum australe*

Sphagnum australe Mitt. Mitten (1882).

Sphagnum beccarii Hampe. Streimann & Curnow (1989) list for Tasmania. Watts (1912) made no reference to the species, while Willis (1952) records for Victoria only.

Sphagnum brotherusii Warnst. = *Sphagnum falciculatum*

Sphagnum centrale C.Jens. Weymouth (1903).

Sphagnum confertum Mitt. = *Sphagnum australe*

Sphagnum compactum Lamk. et Cand. Mitten (1882).

Sphagnum contortum Schultz = *Sphagnum cymbifolioides*

Sphagnum cristatum Hampe. Scott & Stone (1976).

Sphagnum cuspidatum Ehrh. ex Hoffm. Weymouth (1903).

Sphagnum cymbifolioides C.Muell. Mitten (1882).

Sphagnum cymbifolium (Ehrh.) Hedw. = *Sphagnum palustre*
Sphagnum drepanocladum Warnst. = *Sphagnum falcatum*
Sphagnum falcatum Besch. Scott & Stone (1976).

Sphagnum leucobryoides Yamaguchi, Seppelt et Iwatsuki.
 Yamaguchi et al. (1990). A newly described species,
 confined to southwestern Tasmania.

Sphagnum macrocephalum Warnst. = *Sphagnum australe*

Sphagnum maximum Warnst. = *Sphagnum cristatum*

Sphagnum molliculum Mitt. = *Sphagnum cymbifolioides*

Sphagnum moorei Warnst. = *Sphagnum cymbifolioides*

Sphagnum mossmanianum C.Muell. = *Sphagnum*
cymbifolioides

Sphagnum novaezealandiae Mitt. = *Sphagnum*
cymbifolioides

Sphagnum orthocladum Burch = *Sphagnum australe*

Sphagnum palustre L. Mitten (1882) as *S. cymbifolium*.

Sphagnum pseudorufescens Warnst. = *Sphagnum*
cymbifolioides

Sphagnum rodwayi Warnst. = *Sphagnum falcatum*

Sphagnum serrulatum Warnst. = *Sphagnum falcatum*

Sphagnum subbicolor Hampe (Australian records) =
Sphagnum cristatum

Sphagnum submolliculum Warnst. = *Sphagnum*
cymbifolioides

Sphagnum subsecundum Nees (Australian records) =
Sphagnum cymbifolioides

Sphagnum trichophyllum Warnst. = *Sphagnum falcatum*

Sphagnum weymouthii Warnst. ex Rodw. = *Sphagnum*
australe

SPLACHNACEAE

Dissodon plagiopus (Mont.) C.Muell. = *Tayloria*
octoblepharum

Splachnum callophyllum (C.Muell.) Wils. = *Tayloria*
callophylla. See Doubtful and Excluded Records.

Splachnum gunnii Wils. = *Tayloria gunnii*

Splachnum octoblepharum Hook. = *Tayloria octoblepharum*

*Tayloria gunnii** (Wils.) Willis. Mitten (1882) as *Splachnum*
gunnii; Willis (1950). An uncommon rainforest moss.

Tayloria obtusissima Broth. = ?*Tayloria gunnii*

Tayloria octoblepharum (Hook.) Mitt. Mitten (1882);
 Rodway (1914).

var. *major* (Hook.f. et Wils.) Watts et Whitel.

var. *pyriformis* (Hook.f. et Wils.) Watts et Whitel.

*Tayloria tasmanica** (Hampe) Broth. Weymouth (1894) as
Tetraplodon tasmanicus; Willis (1950). Terrestrial,
 cushion forming, in buttongrass sedgeland of
 southwestern Tasmania.

Tetraplodon tasmanicus Hampe = *Tayloria tasmanica*

THUIDIACEAE

Anomodon tasmanicus Broth. Weymouth (1903).

Thuidiopsis furfurosa (Hook.f. et Wils.) Fleisch. = *Thuidium*
furfurosum

Thuidium furfurosum (Hook.f. et Wils.) Reichdt. Mitten
 (1882).

var. *sparsum* (Hook.f. et Wils.) Sainsb. = *Thuidium*
sparsum var. *sparsum*

Thuidium laeviusculum (Mitt.) Jaeg. Rodway (1914);
 Sainsbury (1956a).

Thuidium sparsum (Hook.f. et Wils.) Reichdt.

var. *hastatum* (Mitt.) Touw et Falter. Rodway (1914) as *T.*
stuartii; Touw & Falter (1989). Restricted in Tasmania

to the southeast but occurs also in southern Australia.
 var. *sparsum* Weymouth (1894); Touw and Falter (1989).

*Thuidium stuartii** (C.Muell.) Jaeg. = *Thuidium sparsum*
 var. *hastatum*

Thuidium unguiculatum (Hook.f. et Wils.) Fleisch. =
Thuidium sparsum var. *sparsum*

Doubtful and Excluded Records

Acaulon crassinervium C.Muell. = *Phascum robustum* var.
crassinervium. Recorded for Tasmania by Scott & Stone
 (1976) but excluded by Stone (1989).

Andreaea australis Mitt. Schultze-Motel (1970) doubts this
 record for Tasmania.

Brachymerium coarctatum Bosch et Lac. Watts & Whitelegge
 (1906), but the locality given is probably not in Tasmania.

Bryum australe Hampe. No collections in HO; Australian
 occurrence uncertain, see Scott & Stone (1976).

Bryum rubiginosum Hook.f. et Wils. Rodway (1914). See
 Sainsbury (1955d).

Camptochaete angustata (Mitt.) Reichdt. Bastow (1887) as
Isothecium angustatum. However, Sainsbury (1955f)
 made no mention of this species occurring in Tasmania
 and considered it as endemic in New Zealand.

Camptochaete fruticosa Par. Mitten (1882) as *Porotrichum*
fruticosum; Bastow (1887) as *Isothecium fruticosum*.
 However, Sainsbury (1955f) made no mention of this
 occurring in Tasmania.

Catharomnion ciliatum (Hedw.) Wils. Mitten (1882) as
Hypopterygium ciliatum; Bastow (1887). Rodway (1914)
 suggested it was recorded in error as there were no
 collections available. Sainsbury (1956a) and Scott &
 Stone (1976) also suggest recorded in error.

Ceratodon crassinervis Lorentz. Occurrence in Tasmania
 considered tentative (Scott & Stone 1976). There are no
 collections in HO.

Ceratodon stenocarpus B.S.G. Mitten (1882); Rodway (1914);
 Scott & Stone (1976) stated the occurrence should be
 considered tentative. There are no collections in HO.

Cladomnion ericoides (Hook.) Wils. Although Streimann &
 Curnow (1989) list for Tasmania, Sainsbury (1955a)
 gave this as a New Zealand species only.

Climacium dendroides (Hedw.) Web. et Mohr. Martin (1946)
 lists for Tasmania; however, Stone (1985) recorded new
 for Australia only in Victoria.

Cyrtodon dilatatus (Hook.f. et Wils.) Par. et Schimp. Listed
 for Tasmania by some authors as a result of Rodway's
 misinterpretation of *C. parvula*. Scott & Stone (1976) do
 not record for Tasmania.

Cyrtopus setosus (Hedw.) Hook.f. Bastow (1887) as
Cladomnion setosum. Rodway (1914) indicated there
 are no Tasmanian collections and possibly reported in
 error

Dicranoweisia cirrata (Hedw.) Lindb. See *Holomitrium*
cirratum.

Ditrichum brachycarpum Hampe. Streimann & Curnow (1989)
 list for Tasmania; however, Seppelt (1982) did not
 record for Tasmania.

Entosthodon cuspidatus Kiaer in C. Muell. nom. nud. Weymouth (1896).

Eriopus tasmanicus Broth. Weymouth (1903); Rodway (1914) but Sainsbury (1956a) considered these collections to be referable to *E. apiculata* (= *Calyptrochaeta apiculata*).

Fissidens crassipes Wils. ex B.S.G. Streimann & Curnow (1989) list for Tasmania; however, Willis (1955a) reported this moss from southeastern mainland Australia only.

Funaria radicans (Hedw.) C. Muell. Two old collections only held in HO which are named without authority.

Grimmia funalis (Schwaegr.) B.S.G. Mitten (1882); Bastow (1887), but no collections at HO. Scott & Stone suspect this is a misnomer for *G. trichophylla*.

Grimmia ovalis (Hedw.) Lindb. Record based on Sainsbury (1955c) but Scott & Stone (1976) consider its occurrence in Tasmania doubtful.

Grimmia readeri Broth. Scott & Stone (1976) list only for Victoria. Streimann & Curnow (1989) list for Tasmania, possibly in error.

Holomitrium cirratum (Hedw.) Mitt. Recorded by Mitten (1860) but Scott & Stone (1976 — as *Dicranoweisia cirrata* (Hedw.) Lindb.) consider this to be in error.

Homalia falcifolia Hook. f. et Wils. Mitten (1882); Rodway (1914). Sainsbury (1955f) considered this record doubtful. There are no collections in HO to support the record.

Hypnondron colensoi (Hook. f. et Wils.) Mitt. Mitten (1882); Bastow (1887) as *Isothecium colensoi*. Touw (1971) considered these early records to be doubtful.

Hypopterygium commutatum C. Muell. Sainsbury (1955a); however, Scott & Stone (1976) could find no record of this as a Tasmanian moss. There are no collections held in HO.

Hypopterygium muelleri Hampe. Scott & Stone (1976) record for NSW, Qld and Lord Howe Island only. There are no collections held in HO.

Leptostomum macrocarpum (Hedw.) Pyl. Bastow (1887). Sainsbury (1955d) and Scott & Stone (1976) considered this record may be in error. No collections in HO.

Mesotus acutus Mitt. Recorded for Australia by Mitten (1882) but not for Tasmania. Allen (1987a) doubts that this moss occurs in Tasmania.

Plagiomnium novaezealandiae (Col.) T. Kop. Weymouth & Rodway (1922) as *Mnium rostratum*, but Sainsbury (1955d) considered to be misidentified. Koponen (1983) excludes the record for Tasmania.

Polytrichum novaehollandiae Jaeg. Streimann & Curnow (1989) report for Tasmania but the record of Watts & Whitelegge (1902) gives the locality as Mt Wellington in Victoria.

Polytrichum piliferum Hedw. Watts & Whitelegge (1902) considered the record doubtful.

Racomitrium hypnoides Lindb. Rodway (1914) nom. illeg. = *Racomitrium lanuginosum* ssp. *lanuginosum*.

Tayloria callophylla (C. Muell.) Mitt. Mitten (1882). Rodway (1914) listed for Tasmania but indicated that the only collection was from New Zealand. Sainsbury (1955e) stated that it had been seen only from the North Island of New Zealand and that its occurrence in Tasmania was uncertain. There are no Tasmanian collections in HO.

Thuidium incompletopinnatum C. Muell. nom. nud. Weymouth (1894).

Weissia bicolor Hampe nom. nud. The plant so-named by Rodway is *Dicranoweisia microcarpa*, Sainsbury (1953). *Ulotia fulva* Brid. A misidentification; the Rodway material at HO has been redetermined as *U. membranata* Malta by Sainsbury.

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