

1962 Warburg Moss cat. 3rd ed.

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1963 Moss Cat., Ed. 3, BBS, Warburg, E.F.

CENSUS CATALOGUE OF
British Mosses

(3rd edition)

E. F. Warburg

THE BRITISH BRYOLOGICAL SOCIETY

1963 Moss Cat., Ed. 3, BBS, Warburg, E.F. *P Stanley*
May 1963

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The British Bryological Society



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1963 Moss Cat., Ed. 3, BBS, Warburg, E.F.

Price 7/6

8/6 interleaved

Printed by

W. S. Cowell Ltd, at their Press in the Butter Market, Ipswich

INTRODUCTION

THE PRESENT CATALOGUE attempts to show the distribution of all mosses known in the British Isles on a vice-county basis, all vice-counties from which a particular taxon is known being listed.

The first edition was published in 1907 and the second edition in 1926. A supplement to the latter was published in 1935. Since that time numerous additional records have been made and the nomenclature of British mosses has been revised (Richards & Wallace, 1950) so that the need for a new edition is evident.

In the first edition many of the records were based on manuscript lists, which cannot now be found, sent in by bryologists of varying competence, and these were perhaps accepted too uncritically. The result of this has been that quite frequently authors of local moss Floras have been unable to trace the source of the record published in the first edition. Sometimes also, although details of the record are known, no herbarium specimen can be found to support it. Such records are treated as doubtful in the present edition, but it must be emphasized that only a small proportion of the total number of the counties has been worked on in this way and that inevitably a large number of erroneous and doubtful records are still accepted in the present edition, though some attempt has also been made to trace individually some of the more improbable records in the first edition. Often, however, these attempts have been unsuccessful.

In the second edition and in the supplement, a more critical attitude was adopted and the source of the record was entered in a book, the property of the B.B.S., which is in the possession of the Recorder. Some information is therefore available on these records. Unfortunately, however, this often consists merely of the name of the person responsible for the record and too frequently when an attempt is made to trace the specimen it is found that the herbarium, or at least the specimen on which the record is based, has been destroyed. It cannot be too strongly emphasized that owners of private herbaria, when they have no further use for them, should give or bequeath them to some institution where they can be preserved for future workers.

Since the publication of the supplement an attempt has been made

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to publish, first in the B.B.S. Reports and later in the Trans. B.B.S., all new vice-county records not published elsewhere. All such records published in Trans. B.B.S. up to and including 1962 are included. These annual lists of records are by far the most important source of additional records in this edition. Nearly all these are represented by specimens in the B.B.S. herbarium though sometimes it has been necessary to return the specimen to the sender; some records from other herbaria have also been included. Additional records from other published literature have also been included; a list of these sources is given in the Bibliography. The policy has been, therefore, to include as new records in this edition only those of which details have been published, though it is believed that a few made immediately after the preparation of the supplement escaped publication. An exception has been made for such groups as *Plagiothecium* which have been recently revised. A list of sources of the records for such groups is in the possession of the Recorder. Records existing in the second edition and the supplement have, however, been retained unless there was some special reason for their exclusion.

Extinctions

An attempt has also been made to indicate extinctions. If a vice-county record is enclosed in brackets () the species in question has not been seen in the vice-county for a long time (usually since 1900). It has been possible to do this only for well-worked areas. If an asterisk is added (*) there are definite reasons for believing the species to be extinct in the vice-county. It will be realized that this leads to unevenness in treatment, but it is hoped that it will be useful both as an indication of decreasing species and to stimulate search for particular plants in areas where they have not been seen recently. Examples of species which appear to be decreasing over considerable areas are *Orthotrichum* spp. and *Antitrichia curtipendula*.

In addition there are a number of species which do not appear to have been seen in the British Isles for a number of years, although there is insufficient evidence for saying that they are extinct; in fact, two species, *Orthotrichum obtusifolium* and *O. schimperi*, which were originally placed in this category, have since been refound. Such species are distinguished by a † preceding the specific epithet. Where there is definite evidence for believing a species extinct in all its known localities in the British Isles an * is used.

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Doubtful Records

Records entered in square brackets [] are considered doubtful. Such records have been put at the end in order that they may not confuse the general distributional picture. Records are considered doubtful for a number of reasons – one, the old record, now untraceable, has already been mentioned. Other reasons are confusion between related species which were formerly not adequately understood, and doubt as to whether a specimen labelled from a particular locality did in fact come from there. Records unlocalized beyond the vice-county have also been treated as doubtful.

Arrangement and Nomenclature

The arrangement follows Richards & Wallace (1950) and the general sequence has not been disturbed even when there are good reasons for doing so (thus *Ptychodium plicatum* has not been transferred to *Lescuraea* though Lawton has shown that there are very good reasons for doing this). A number of taxa which have been discovered in the British Isles since 1950 have been added and the results of some revisions (e.g. *Cynodontium*, *Plagiothecium*) incorporated. In general, however, no changes have been made even at species level unless the evidence on which they are based has been published or is shortly to be published in Trans. B.B.S. A number of varieties which occur in Richards & Wallace (1950) have, however, been excluded. This does not necessarily mean that they are of little taxonomic value, though this is sometimes thought to be the case. Some have been excluded because they have been misunderstood to such an extent that the distribution given in the second edition is of little value.

Some changes have been made in names purely for nomenclatural reasons. These have been made only where the evidence for the change is clear and the new name unlikely to be changed again in the near future. I have preferred, for example, to retain certain names (particularly in *Bryum*) even though they are illegitimate and must ultimately be replaced, because the correct epithet is still in doubt.

Some difference in treatment of varieties has been made under different species. There are three types as follows:

1. An aggregate list for the species is first given (e.g. *Fissidens minutulus*, *Drepanocladus fluitans*). The varieties are then lettered separately, that including the type being lettered α . This has been done mostly where recent revisions have taken place. The list for the species contains records not repeated under either variety. These are records which have not

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been revised, though there is no reason to doubt they belong to the species.

2. The varieties only are given, that including the type being lettered α (e.g. *Drepanocladus revolvens*). This usually arises where the varieties were formerly regarded as species and there would be no additional records in an aggregate list.

3. The type variety is not lettered separately (e.g. *Andreaea rupestris*). This occurs where the varieties have not always been distinguished and some of the records for the species may belong to the varieties other than the type variety.

ACKNOWLEDGEMENTS

I WOULD LIKE to thank particularly Messrs. A. C. Crundwell and E. C. Wallace for going through the manuscript in detail and pointing out numerous errors and suggesting improvements, and Mr A. R. Perry for much help in many ways in the later stages of the work.

I would also like to thank the following bryologists, most of whom have seen the Catalogue in manuscript, for pointing out errors, suggesting additions, or supplying lists of revised distributions of critical species which they have studied. When a person has supplied information relating (though not necessarily only) to a particular vice-county (especially in relation to extinctions or doubtful records), or to a particular genus, this is indicated:

Mrs J. Appleyard (61–65), R. A. Boniface (21), A. C. Crundwell (99, 109, C), Miss U. K. Duncan (*Sphagnum*, 90, 91), R. D. Fitzgerald (H 33, 36), S. W. Greene (*Plagiothecium*), P. F. Hunt (6), E. W. Jones, Miss M. P. H. Kertland (H 37–40), Mrs A. L. K. King (Ireland), T. Laflin (30, 38), Miss E. M. Lobley (*Sphagnum*, 67, 68), E. Lodge (*Drepanocladus*), M. G. McFarlane, Mrs J. A. Paton (1, 2, 11), A. R. Perry (39), A. J. Pettifer (18, 19), M. C. F. Proctor (3, 4), D. A. Ratcliffe (70), P. W. Richards (*Campylopus*, 21, 49), F. Rose (15, 16), E. Saunders (18, 19), M. R. D. Seaward (53, 54), G. A. Shaw (61–65), F. A. Sowter (55), J. H. Tallis (*Thuidium*), A. E. Wade, E. C. Wallace (13, 14, 17), E. V. Watson (*Pohlia*), H. L. K. Whitehouse (29), and others, too numerous to mention individually, who have supplied information on particular points.

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VICE-COUNTY DIVISIONS OF THE BRITISH ISLES

Great Britain

[See Introduction to H. C. Watson, *Topographical Botany*, ed. II, 1883.]

1	West Cornwall with Scilly	35	Monmouth
2	East Cornwall	36	Hereford
3	South Devon	37	Worcester
4	North Devon	38	Warwick
5	South Somerset	39	Stafford
6	North Somerset	40	Shropshire
7	North Wilts	41	Glamorgan
8	South Wilts	42	Brecon (Brecknock)
9	Dorset	43	Radnor
10	Isle of Wight	44	Carmarthen
11	South Hants	45	Pembroke
12	North Hants	46	Cardigan
13	West Sussex	47	Montgomery
14	East Sussex	48	Merioneth
15	East Kent	49	Caernarvon
16	West Kent	50	Denbigh
17	Surrey	51	Flint
18	South Essex	52	Anglesey
19	North Essex	53	South Lincoln
20	Herts	54	North Lincoln
21	Middlesex	55	Leicester with Rutland
22	Berks	56	Nottingham
23	Oxford	57	Derby
24	Bucks	58	Cheshire
25	East Suffolk	59	South Lancashire
26	West Suffolk	60	West Lancashire
27	East Norfolk	61	South-east Yorkshire
28	West Norfolk	62	North-east Yorkshire
29	Cambridge	63	South-west Yorkshire
30	Bedford	64	Mid-west Yorkshire
31	Hunts	65	North-west Yorkshire
32	Northampton	66	Durham
33	East Gloucester	67	Northumberland (south)
34	West Gloucester	68	Cheviotland, or Northumberland north

VICE-COUNTY DIVISIONS OF THE BRITISH ISLES

69	Westmorland with North Lancashire	90	Forfar (Angus)
70	Cumberland	91	Kincardine
71	Isle of Man	92	South Aberdeen
72	Dumfries	93	North Aberdeen
73	Kirkcudbright	94	Banff
74	Wigtown	95	Elginshire (Moray)
75	Ayr	96	Easterness
76	Renfrew	97	Westerness
77	Lanark	98	(Main) Argyll
78	Peebles	99	Dunbarton
79	Selkirk	100	Clyde Isles
80	Roxburgh	101	Kintyre (Cantyre)
81	Berwick	102	South Ebudes
82	Haddington (East Lothian)	103	Mid Ebudes
83	Edinburgh (Midlothian)	104	North Ebudes
84	Linlithgow (West Lothian)	105	West Ross
85	Fife with Kinross	106	East Ross
86	Stirling	107	East Sutherland
87	West Perth with Clackmannan	108	West Sutherland
88	Mid Perth	109	Caithness
89	East Perth	110	Outer Hebrides
		111	Orkney
		112	Zetland (Shetland)

Ireland

[See R. L. Praeger, On the botanical subdivision of Ireland, *J. Bot.* 34: 57–66, 1896.]

H1	South Kerry	16	West Galway
2	North Kerry	17	North-east Galway
3	West Cork	18	Offaly (King's County)
4	Mid Cork	19	Kildare
5	East Cork	20	Wicklow
6	Waterford	21	Dublin
7	South Tipperary	22	Meath
8	Limerick	23	Westmeath
9	Clare (with Aran Islands)	24	Longford
10	North Tipperary	25	Roscommon
11	Kilkenny	26	East Mayo
12	Wexford	27	West Mayo
13	Carlow	28	Sligo
14	Laois (Queen's County)	29	Leitrim
15	South-east Galway	30	Cavan

VICE-COUNTY DIVISIONS OF THE BRITISH ISLES

31	Louth	36	Tyrone
32	Monaghan	37	Armagh
33	Fermanagh	38	Down
34	East Donegal	39	Antrim
35	West Donegal	40	Londonderry

C Channel Islands

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VICE-COUNTY BOUNDARIES

The division of counties into vice-counties in Great Britain follows H. C. Watson's *Cybele Britannica*, vol. IV, 1859 (pp. 139–42); and that of Ireland follows R. L. Praeger's *Irish Topographical Botany*, 1901 (p. xli). The following is with minor alterations taken from these books.

ENGLAND AND WALES

West Cornwall (1) and *East Cornwall* (2) are separated by a line traced along the high road from Truro, through St Columb, to the inland extremity of Padstow Creek. At the two ends of this line, the salt-water completes the division. – *South Devon* (3) and *North Devon* (4) are separated by an imaginary line, adapted to the watershed, commencing at the Tamar, about midway between Tavistock and Launceston, passing over the ridge of Dartmoor, and joining the Western Canal at Tiverton. – *South Somerset* (5) and *North Somerset* (6) are separated by a line along the River Parret, from Bridgwater to Ilchester, thence curving round to the northern extremity of Dorset. – *North Wilts* (7) and *South Wilts* (8) are separated by a line drawn along the Kennet and Avon Canal. – *South Hants* (11) and *North Hants* (12) are separated by a line traced along the high roads from Winchester westward to Stockbridge, eastward to Petersfield, and continued thence to the borders of Wilts and Sussex. – *West Sussex* (13) and *East Sussex* (14) are separated by a line traced along the high road from Brighton to Cuckfield, thence through Crawley to the border of Surrey. – *East Kent* (15) and *West Kent* (16) are separated by the River Medway and its tributaries, nearly up to Staplehurst, then by the high road through Cranbrook to the border of Sussex near Hawkhurst. – *South Essex* (18) and *North Essex* (19) are separated by the high road from Waltham and Epping to Chelmsford, and thence by the Blackwater river to the coast. – *East Suffolk* (25) and *West Suffolk* (26), and *East Norfolk* (27) and *West Norfolk* (28) are separated by the mathematical line of one degree east longitude. – *East Gloucester* (33) and *West Gloucester* (34) are separated by the Thames and Severn Canal, and by the River Severn from the point of conjunction up to Tewkesbury. – *South*

VICE-COUNTY BOUNDARIES

Lincoln (53) and *North Lincoln* (54) are separated by the Witham, from Boston to Lincoln, and thence by the Foss Dyke to the border of Nottingham. – *South Lancashire* (59) and *West Lancashire* (60) are separated by the River Ribble.

The great county of York is first divided into the two sub-provinces of East and West Humber, by the Rivers Humber, Ouse and Wiske. *South-east Yorkshire* (61) and *North-east Yorkshire* (62) are then separated by the political line which divides the East Riding from the rest of the county, that portion of the East Riding situate westward of the Ouse being taken as part of the Mid-west vice-county. *South-west Yorkshire* (63) and *Mid-west Yorkshire* (64) are separated by the Leeds and Liverpool Canal, and by the River Aire below Leeds. *Mid-west Yorkshire* (64) and *North-west Yorkshire* (65) are separated by the political boundary between the North and West Ridings, that boundary being deflected westward so as to pass over Whernside to the south-eastern angle of Westmorland in conformity with the watershed. – *Cheviotland* (68) is cut off from the more southern part of Northumberland by the River Coquet, and a line continued to Carter Fell from the Linn Bridge.

SCOTLAND

The large county of Perth is divided into three vice-counties. *East Perth* (89) is cut off from Mid Perth by the Rivers Garry and Tay. *Mid Perth* (88) is separated from *West Perth* (87) by a line traced over the high ground or watershed, so as to divide the tributaries of the Tay from those of the Forth, the little county of Clackmannan and a small detached portion of Stirling being taken as parts of West Perth. – *South Aberdeen* (92) and *North Aberdeen* (93) are separated by lines traced along the watersheds eastward and westward from Inverury. – The great county of Inverness is first divided by the line of watershed between the eastern and western sides of Scotland, continued along Loch Ericht to the borders of Perthshire. The easterly portion, with the addition of Nairnshire, forms the large vice-county of *Easterness* (96). That portion of Inverness which cuts *Elginshire* (95) into two disjoined parts is deemed to be a portion of this latter county. – The remainder of Inverness, the waters of which drain to the western coast, along with the detached portion of Argyll which is situate to the north-west of Loch Linnhe, make up the vice-county of *Westerness* (97). – *Main Argyll* (98) and *Kintyre* (101) are separated by the Crinan Canal – The *Clyde Isles* (100) include Bute and Arran with Cumbrae and other

VICE-COUNTY BOUNDARIES

small islets adjacent between Kintyre and Ayr. – The Ebudes are islands belonging by political geography to Argyll and Inverness. *South Ebudes* (102) include Islay and Jura, with adjacent islets. *Mid Ebudes* (103) consist of Mull and Coll, with their adjacent islets. *North Ebudes* (104) include Skye and Rhum, also with their adjacent islets. – *West Ross* (105) and *East Ross* (106) are separated by a line traced along the watershed between the western and eastern coasts. – *East Sutherland* (107) and *West Sutherland* (108) are also separated by a line of the watershed, this being so traced as to divide the south-eastern portion of the county from the western and northern.

IRELAND

South Kerry (1) is divided from *North Kerry* (2) by the approximate south-east and north-west line which separates the baronies of Glanarought, Dunkerron, Iveragh, and Corkaguiny on the south from Magunihy and Trughanacmy on the north. – *West Cork* (3) is divided from *Mid Cork* (4) by a line drawn along the Killarney Junction Railway from the border of Co. Kerry to Millstreet, thence running across the county in a straight line to Macroom, thence in a similar line to Bandon and from that town, following the Bandon river, to the sea. – *Mid Cork* (4) is divided from *East Cork* (5) by the Great Southern and Western Railway from Charleville to Cork, and thence by the western shore of Cork Harbour to the ocean. – Tipperary is divided into *North* (10) and *South* (7) by the Great Southern and Western Railway. – *West Galway* or Connemara (16) is separated from *North-east Galway* (17) by Lough Corrib and the River Corrib. – The dividing line between *North-east Galway* (17) and *South-east Galway* (15) is the Midland Great Western Railway from Ballinasloe to Oranmore, where the line meets the sea at Oranmore village. – *East Mayo* (26) is separated from *West Mayo* (27) by Lough Mask and the course of the River Ayle as far as a small lake above Ballyhean Church, thence it is imaginary for a short distance until it reaches the nearest point on the road from Tuam to Castlebar, and thence descends the course of the water through Lough Cullin, and by the River Moy to the sea at Ballina. – Donegal is divided into *East* (34) and *West* (35) by a line dividing the baronies of Bannagh, Boylagh and Kilmacrenan from Tirhugh, Raphoe and Inishowen.

It should be emphasized that the boundaries of the counties to be used are those existing in Watson's time (1859) and not those at the

VICE-COUNTY BOUNDARIES

present day. Sometimes this makes little difference, but in some areas, particularly in Scotland, there are large alterations (e.g. the part of Inverness-shire referred to by Watson as cutting Elginshire into two detached portions no longer exists and has been compensated for by transferring a large portion, formerly the southern part of Elginshire, to Inverness-shire). Detached portions of counties completely surrounded by other counties belong to the vice-county which surrounds them. The large detached part of Flint belongs to v.-c. 50, and that of Dunbarton to v.-c. 86. The following may be useful in elucidating vice-county boundaries.

For the boundary between 3 and 4 see Martin & Fraser, *Flora of Devon* (1939), p. 1, and map; for alterations in the Wiltshire boundaries see Grose, *The Flora of Wiltshire* (1957), pp. 58–61; for boundaries of v.-c. 11 see Paton, A bryophyte flora of South Hants, *Trans. B.B.S.* 4: 4–5 (1961); for boundaries of v.-c. 30 see Dony, *Flora of Bedfordshire* (1953), pp. 37–9; for v.-c. 33 and 34 see Riddelsdell, Hedley & Price, *Flora of Gloucestershire* (1948), pp. xciii–xcv, and map; for v.-c. 84 and 86 see Ribbons, The boundaries of the vice-counties in Scotland. Part I. *Glasg. Nat.* 18: 160–8 (1961).

EXPLANATION OF SYMBOLS

() Not seen in the vice-county for many years and possibly extinct.

(*) Believed to be extinct in the vice-county.

[] Doubtful records.

* Before the name of a taxon. Believed to be extinct in the British Isles.

† Before the name of a taxon. Not recently seen in the British Isles.

Brackets enclosing a number following the name of a taxon refer to Notes, p. 86.

1. **Sphagnum** L.

- 1 **palustre** L.
1–6, 8–22, (23*), 24–28, (29*), 30, 32, 34–43, 45–52, 54–112.
H 1–4, 6–40.
- 2 **magellanicum** Brid.
3, 9, 11, 13–17, 22, 24, 27, 28, 39, 40, 46, 48–50, 58, 60, 62,
64–70, 72–80, 83, 84, 86–88, 90–92, 95–112. H 2, 3, 8–10, 14,
16–20, 22–31, 33, 35–40.
- 3 **papillosum** Lindb.
1–17, 22, 24, 26–28, 34–54, 57–112. H 1–3, 6–40. [55]
- 4 **imbricatum** Hornsch. ex Russ.
46, 48, 49, 62, 65–67, 69, 70, 73, 75, 77, 79, 83, 86–90, 92,
95–99, 104–107, 109, 110. H 1, 9, 14–18, 22, 23, 27, 33, 36, 39.
- 5 **compactum** DC.
1–5, 8–17, (19, 21), 22, 24, 27, 28, 34, 35, 37, 39–50, 52, 54, 56,
58, 60–62, 64–92, 94–112. H 1–3, 6–8, 12, 14–21, 26–40. [38, 55]
- 6 **strictum** Sull.
69, 73, 86, 88, 92, 96–98, 103–105, 108, 110. H 3, 16, 27, 35,
39, 40.
- 7 **teres** (Schimp.) Ångstr.
3–5, 9, 11, 13, 14, 17, 25, 27, 38, 40, 42, 46–50, 57–60, 62–79,
86–92, 94–97, 99, 100, 103–109, 112. H 1, 20, 27, 34, 37–40.
- 8 **squarrosum** Pers. ex Crome
1–3, 5, 6, 8–28, (29*, 30*), 34–40, 42–44, 46–50, 52–81, 83,
85–101, 103–110, 112. H 2–5, 7, 8, 12, 13, 16, 19–24, 27, 29,
31–34, 36–39.
- 9 **lindbergii** Schimp.
90, 92, 96, 97, 105, 106, 112.
- 10 **riparium** Ångstr.
22, (58*, 60*), 61, 67, 77, 90, 92, 95, 96, 106. H 6. [1, 24, 39]
- *11 **obtusum** (Warnst.) Warnst. (1)
(59*, 60*). [5]
- 12 **recurvum** P. Beauv.
1–6, 8–22, 24, 25, 28, 30–32, 34–43, 45–51, 53–55, 57–76,
78–93, 95–112. H 1–3, 6, 7, 9, 12, 14, 16, 20, 21, 24, 27–30,
33–40. [23, 29]

BRITISH MOSSES

- 13 **pulchrum** (Lindb. ex Braithw.) Warnst. (1)
 9, 40, 46, 58, 60, 70, 71, 73, 74, 97. H 16, 38, 39. [1, 3, 5, 12, 14,
 16, 24, 35, 38, 39, 47, 48, 59, 69, 88, 96, 99, 104, H 2, 3, 31, 34]
- 14 **balticum** Russ. (1)
 67, 92, 107. [1, 57, 63, 73]
- 15 **tenellum** Pers.
 1–5, 8, 9, 11–19, 22, 24, 27, 28, (29*), 34, 35, 37, 39–42, 44–46,
 48–50, 52, 54, 56–81, 83, 85–88, 90–92, 94–112. H 1–3, 6, 8,
 10–12, 14–30, 32–40. [55]
- 16 **cuspidatum** Ehrh.
 1–5, 8, 9, 11–17, (18–20), 21, 22, 24, 25, 27, 28, (29*), 30, 34–50,
 54–112. H 1–3, 6, 8, 10–30, 32–40. [6]
- 17 **contortum** Schultz
 11, 13, 14, 16, 40, 45, 47–49, 52, 58, 60–62, 64, 65, 67, 69–74,
 76, 79, 86–88, 90, 92, 95–99, 104, 106, 109. H 1–3, 6, 8, 12,
 15, 16, 20, 21, 27, 29–31, 34, 35, 38–40. [1, 5, 29]
 β **platyphyllum** (Sull. ex Lindb.) Åberg
 49, 60, 69, 88, 96, 97, 110. H 33.
- 18 **subsecundum** Nees
 α **subsecundum**
 1–3, 9, 11, 17, 27, 28, 34, 35, 40–42, 48–51, 54, 57, 59–62, 64,
 65, 67–71, 73, 74, 86, 88, 90–92, 94, 96–99, 104, 105, 107,
 109–111. H 1–3, 16, 20, 29, 39. [22]
 β **inundatum** (Russ.) C. Jens.
 1–6, 8, 9, 11–14, 16–22, 24, 27, (29*), 31, 33–37, 41–43, 45–52,
 54, 55, 57–77, 80, 85–100, 102–106, 108–112. H 1–3, 6, 9, 12,
 15–17, 19–21, 24, 27–31, 33–40.
 γ **auriculatum** (Schimp.) Lindb.
 1–6, 8–22, 24, 25, 27, 28, (29*), 32–43, 45–50, 52, 54, 55, 57–76,
 78, 80, 81, 85–88, 90–93, 95–112. H 1–3, 5, 6, 9, 12, 14–17, 20,
 21, 23–31, 33, 34, 36–40. C.
- 19 **fimbriatum** Wils.
 1–3, 5, 6, 8–22, (23*), 24–28, 30, 34–46, 48–50, 53–77, 79, 81,
 83, 85–97, 99–104, 106, 108–112. H 1, 18–21, 30, 32–40.
- 20 **girgensohnii** Russ.
 5, 24, 30, 39, 46–50, 53, 57, 60, 62–81, 83, 85–92, 94–101,
 103–111. H 20, 34, 36, 38, 39.
- 21 **robustum** (Russ.) Röll (*S. russowii* Warnst.)
 13, 17, 26, 42, 43, 45, 46, 48–50, 57, 60, 62, 64–72, 74, 77–80,
 82, 85, 86, 88–92, 95, 96, 98, 99, 104, 105, 107–109, 111. H 20,
 33, 34, 38–40. [H 21]

BRITISH MOSSES

- 22 **fuscum** (Schimp.) Klinggr.
1, 13, 46, 48, 49, 60, 65–74, 78, 79, 83, 87–92, 94–98, 102, 105–109. H 2, 16–19, 22, 23, 27, 32–34, 38–40.
- 23 **warnstorfianum** Du Rietz (1)
48, 49, 60, (62), 65, 67, 69, 70, 72–74, 77–80, 88–90, 92, 95–100, 104, 105. H 27. [5, 50, 57, 58, 66, H 9, 34, 40]
- 24 **rubellum** Wils.
1–5, 8, 9, 11–17, 22, 24, 25, 27, 28, 35, 36, (38), 39, 40, 42, 44–52, (55*), 57, 58, 60, 62–83, 85–112. H 1–3, 6–12, 14–40. [30, 53, 54]
- 25 **capillaceum** (Weiss) Schrank (*S. nemoreum* Scop.)
1–6, 9–17, (19), 21, 22, 24–28, (30), 32, 34–37, (38), 39–41, 44–92, 94–112. H 1–9, 15–22, 25–40.
- 26 **quinquefarium** (Lindb.) Warnst.
1–5, 9, 35, 37, 42–44, 46–50, 57, 60, 62–70, 72–74, 79, 80, 86–88, 90–101, 103–111. H 1–3, 6, 7, 14, 16, 20, 21, 27–29, 33–36, 38–40. [15, 38, 39]
- 27 **plumulosum** Röll
1–6, 8–28, (29*, 30), 31, 34–52, 54–82, 86–93, 95–112. H 1–3, 6–40. C.
- 28 **subfulvum** Sjörs
49.
- 29 **molle** Sull.
3–5, 8, 9, 11, 12, 14, 17, 32, 34, 44, 45, 48, 49, 57, 59, 62–64, 66–70, 72, 73, 75, 77, 80, 83, 85–88, 91, 96–100, 102–106, 108, 110, 112. H 3, 15, 16, 27, 33–35, 37–40. [16, 22]

2. **Andreaea** Hedw.

- 1 **alpina** Hedw.
41, 42, 44–46, 48–50, 64–70, 72, 73, 75, 78, 79, 86–92, 94, 96–100, 103–108, 110, 112. H 1, 2, 7, 16, 20, 21, 28, 31, 35, 37–40. [57]
- 2 **rupestris** Hedw.
3, (14*), 40–50, 57, 60, 62, (63), 64–92, 94–112. H 1, 2, 6, 7, 11, 12, 16, 20, 21, 27, 29–31, 35–40. [1, 2, 4]
- β **acuminata** (B., S. & G.) Sharp
48, 49, 65–68, 70, 76, 81, 88, 90–92, 94, 96, 97, 104, 112. H 31, 38. [62, 64, H 39]
- γ **gracilis** (B., S. & G.) Rich. & Wall.
48, 49, 69, 70, 92, 94, 96, 97, 109. H 18, 38. [H 39]

BRITISH MOSSES

- δ **alpestris** (Thed.) Sharp
70, 86–88, 90, 92, 94, 96, 97, 104, 110.
- ε **sparsifolia** (Zett.) Sharp
88. [69]
- 3 **rothii** Web. & Mohr
1–5, 34, 35, (37), 40–50, 52, 57, 58, 60, 63–77, 79, 80, 82, 83, 85–112. H 1–7, 11–13, 16, 20, 21, 25–31, 33–40. [62]
- β **frigida** (Hüben.) Lindb. ex Braithw.
70, 92, 96, 97. [64, 88]
- γ **falcata** (Schimp.) Lindb. ex Braithw.
1–3, 41, 42, 44, 46, 48–51, 60, 64, 66–71, 73, 75, 76, 80, 82, 86–92, 96–99, 104, 105, 110. H 2, 6, 25, 27, 29, 30, 35, 38, 39.
- δ **crassinervia** (Bruch) Mönk.
3, 4, 45, 48, 49, 57, 58, 60, (63), 64–66, 69–71, 86–92, 96, 98, 99, 105, 110. H 2, 16, 20, 21, 27, 38.
- ε **huntii** (Limpr.) Dix.
48, 69, 70, 92. H 38.
- 4 **nivalis** Hook.
(90*), 92, 94, 96–98, 106.

3. **Atrichum** P. Beauv.

- 1 **crispum** (James) Sull.
3, 39, 41, 44, 46, 48, 49, 57–61, 63–65, 69. H 20.
- 2 **undulatum** (Hedw.) P. Beauv.
1–112. H 1–16, 18–40. C.
- β **minus** (Hedw.) Paris
5, 8, 10, 11, 16–22, 28, 32, 36, 38, 39, 42, 48, 54–57, 59, 60, 62, 64–69, 74, 81, 85, 86, 88, 90, 91, 96, 98, 102, 108, 110. [3, 4]
- γ **haussknechtii** (Jur. & Milde) Frye
17, 20, 37, 38, 40, 56, 59, 70.
- 3 **angustatum** (Brid.) B. & S.
9, 13–17, 19, 33, 37, 87. H 36, 38.
- 4 **tenellum** (Röhl.) B. & S.
7, 15–17, 85, 89, 97. [74]

4. **Oligotrichum** Lam. & DC.

- 1 **hercynicum** (Hedw.) Lam. & DC.
2, 3, 39, 41–44, 46–50, 57–60, 62–78, 80, 81, 83, 85–92, 94–100, 102–112. H 1, 2, 4, 5, 13, 16, 20, 27, 29, 31, 33–36, 38–40.

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5. **Polytrichum** Hedw.

- 1 **nanum** Hedw.
1–27, 29, 30, 32–52, 55–64, 66–73, 75–79, 81, 83–92, 94–97, 100–104, 106, 108–112. H 1–5, 10, 12, 13, 20, 21, 27, 28, 32–40. C. [74]
- 2 **aloides** Hedw.
1–20, (21*), 22–28, (29), 30, 32–112. H 1–14, 16, 18–21, 24, 26–28, 30–40. C.
 β **minimum** (Crome) Rich. & Wall.
1, 3, 5, 7, 19, 22, 23, 25, 38, 48–50, 58–60, 62, 66–69, 72, 73, 83–85, 88, 90, 96, 105, 111. H 5, 38, 39. [2, H 40]
- 3 **urnigerum** Hedw.
1–14, 16, 17, 21, 22, 26, 27, (30), 32–52, 54–112. H 1–5, 7, 8, 10, 12, 14–16, 18, 20, 21, 25–40. C. [23]
- 4 **alpinum** Hedw.
1–4, 34, 36, 37, 40–42, 44, 46–50, 52, 57, 60, 62–80, 82–112. H 1, 2, 7, 8, 13, 16, 20, 21, 23, 27–31, 33–40. [35, 81]
 β **septentrionale** (Röhl.) Lindb.
97. H 1, 26, 31, 35.
- 5 **norvegicum** Hedw.
88, 90, 92, 94, 96, 97, 105, 106. [86]
- 6 **piliferum** Hedw.
1–112. H 1–4, 6, 7, 9–16, 18–21, 25–27, 30–40. C.
- 7 **juniperinum** Hedw.
1–112. H 1–6, 8, 9, 11–40. C.
- 8 **alpestre** Hoppe
2–4, 6, 9, 14, 15, 17, 22, 25, 28, 39–42, 44, 46–50, 57–80, 83–92, 94–101, 103, 105, 106, 108–111. H 1, 3, 14, 18, 20, 21, 23, 27–29, 33, 36, 38–40.
- 9 **aurantiacum** Sw. (*P. gracile* Sm.)
1–3, 5–7, 10, 12–27, 29–33, 35–44, 46–48, 50, 53–65, 67–91, 94–98, 100, 101, 103, 105, 110, 111. H 1–3, 7, 8, 12–15, 17–26, 29, 30, 32, 33, 36–40. [11, 99]
- 10 **formosum** Hedw.
1–83, 85–112. H 1–3, 5–14, 16–33, 35–40. C.
- 11 **commune** Hedw.
1–28, (29), 30, 32–112. H 1–3, 5–40. C.
 β **perigoniale** (Michx.) B. & S.
2, 3, 12, 17, 18, 22, 32, 35–39, 48, 51, 54, 59, 62, 85, 88, 90, 95, 104, 105, 111.

BRITISH MOSSES

 γ **humile** Sw.

2, 3, 6, 9, 12–14, 17–19, 38, 42, 43, 45, 48, 58, 59, 61, 62, 71, 73, 76, 83, 85, 88, 90, 96. H 38.

6. **Buxbaumia** Hedw. (2)1 **aphylla** Hedw.

17, 22, 23, (27, 37, 39), 47, (48), 57, (58, 59), 63, (64, 68), 72, (73, 78, 79, 81, 83, 85–88), 90, 91, (92), 95, 96, (98, 99). H (1).

2 **viridis** (Moug. ex DC.) Brid. ex Moug. & Nestl. (*B. foliosa* auct.) (90, 92), 96, (106).7. **Diphyscium** Mohr1 **foliosum** (Hedw.) Mohr

1–5, 14, 23, 35, 36, 39–50, 57, (59), 60, 62–73, 75–80, 85–92, 95–110, 112. H 1–3, 16, 20, 27, 29, 31, 33, 35, 37–40.

 β **acutifolium** (Lindb. ex Braithw.) Dix.

1–3, 14, 42, 44–46, 48–50, 60, 64–66, 68–70, 86, 90, 99, 100. H 16, 20, 21, 27, 29, 36, 38, 39.

8. **Fissidens** Hedw.1 **viridulus** Wahlenb.

1–7, 9–17, 19, 20, (21), 22, 23, 25, 27, 29, 32–52, 54–72, 75, 77, 80–83, 85, 86, 88–92, 94, 96, 98–100, 103–105, 112. H 1, 2, 7, 12, 14–23, 30–33, 36–39. C. [30]

2 **bambergeri** Schimp. ex Milde

3, 5–10, 14, 23, 33, 34, 36, 41, 45, 60.

3 **minutulus** Sull. (*F. pusillus* Wils. ex Milde)

1–20, 22–24, 29, 30, 32–40, 42–51, 53, 55–65, 67–70, 72–77, 80–87, 89–91, 97–100, 102, 103, 107–109. H 1–3, 9, 15, 16, 28, 29, 33, 38, 39. C.

 α **minutulus** (*F. pusillus*, sensu stricto)

3, 5–9, 11–14, 16, 17, 30, 32–35, 40, 42, 45–48, 51, 60, 63–65, 67, 70, 72–75, 77, 80, 86, 87, 89–91, 97–100, 102, 103, 107–109. H 1, 3, 15, 16, 33, 38. C.

 β **tenuifolius** (Boul.) Norkett (*F. minutulus* auct. eur.)

3, 7–9, 11–18, 20, 22–24, 29, 33, 34, 37, 40, 43, 57, 62, 65, 69. H 9, 29, 33.

4 **bryoides** Hedw.

1–101, 103–105, 108–111. H 1–5, 7–14, 16, 19–21, 23, 27, 28, 30–40. C.

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- 5 **incurvus** Starke ex Web. & Mohr
1–26, 29–38, 40, 41, 43, 45, 47, 48, 50, 53–66, 68–70, 75, 77,
80, 81, 83–85, 90, 100. H 11, 21, 31, 33, 37–39. C.
- 6 **algarvicus** Solms-Laub.
3, 33, 43, 45. H 1.
- 7 **crassipes** Wils. ex B., S. & G.
1–3, 5–9, 11–26, 28–30, 32–38, 40, 41, 43, 47, 48, 50, 57–60,
62–72, 77, 81–83, 86, 91. H 9, 14, 21, 33, 36, 38. [44]
- 8 **rufulus** B., S. & G.
37, 42–45, 48, 62, 64, 65, 69, 70, 72, 80, 90. H 6, 33, 38. [35]
- 9 **curnowii** Mitt.
1–5, 9, 42–49, 60, (64), 68–71, 86, 88, 99, 100, 104, 105, 110,
112. H 1, 2, 16, 34, 38. C. [24]
- 10 **rivularis** (Spruce) B., S. & G.
3–5, 14, 34, 35, 42. C.
- 11 **monguillonii** Thér.
3–5, 45. H 33.
- 12 **exilis** Hedw.
1–25, 29–42, 44, 47–51, 53–70, 72, 77, 79, 81, 83, 88–90, 95,
99, 103, 109. H 1, 19, 20, 21, 38–40. C.
- 13 **exiguus** Sull.
14–16, 42, 70.
- 14 **osmundoides** Hedw.
1–3, 35, 40–50, 57–60, 62–83, 85–92, 94–108, 110–112. H 1–3,
6, 7, 10, 12, 14, 16, 18–21, 23–25, 27, 28, 30–40. [4]
- 15 **taxifolius** Hedw.
1–112. H 1–40. C.
- 16 **cristatus** Wils.
1–11, 13–20, 22–24, 26–30, 32–55, 57–60, 62–77, 79–81, 83,
86–91, 94–101, 103–112. H 1–3, 5–7, 9, 11–17, 19–21, 23, 25,
26, 28–36, 38–40. C. [61]
- 17 **adianthoides** Hedw.
1–30, 32–112. H 1–11, 13–23, 25–40. C.
- 18 **serrulatus** Brid.
1, 3.
- 19 **polyphyllus** Wils. ex B., S. & G.
1–3, 47–49. H 1–4, 20, 28. [5]

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9. **Octodiceras** Brid.

- 1 **fontanum** (La Pyl.) Lindb.
19, 21–24, 33–35, 37, 38, 40, 55, 58, 59.

10. **Archidium** Brid.

- 1 **alternifolium** (Hedw.) Mitt.
1–4, 6–18, 20, (21), 22–24, (29, 30), 33, 34, 36–41, 43–49, 52, 55, 57–66, 68–70, 74–77, 79, 81–83, 85–92, 95–99, 104–112. H 1, 3, 5, 16, 21, 27, 38–40. C.

11. **Pleuridium** Brid.

- 1 **acuminatum** Lindb.
1–23, 25–50, 52, 54–73, 75, 77–93, 95, 97–100, 102, 103, 105–107, 109, 111, 112. H 1, 3, 4, 14, 18, 20–22, 30, 31, 34, 36–40. C.
- 2 **subulatum** (Hedw.) Lindb.
1–3, 5, 6, 9–11, 13–17, 19–24, 26, 29, 30, 32–41, 43–50, 52–55, 57–73, 77, 80, 81, 83–86, 88–92, 94–96, 99, 100, 104. H 1–3, 12, 21, 31, 38, 39. C. [74]

12. **Ditrichum** Hampe

- 1 **cylindricum** (Hedw.) Grout
1–4, 6–9, 11–15, 17, 19, 22–25, 28–31, 33–40, 42–45, 47–49, 52, 57, 58, 62, 64, 66–76, 80, 81, 86–92, 94–101, 104–106, 108, 111. H 1, 2, 15, 16, 33, 36, 38–40.
- 2 **pusillum** (Hedw.) Britt.
14, 16, 22, 46, 48, 57, 60, 62, 64. H 5, 12, 32, 35, 38, 39. [6]
- 3 **heteromallum** (Hedw.) Britt.
1–6, 10–14, 16, 17, 19, 24, 27, 32, 34–51, 55, 57–78, 80–92, 94–112. H 1–7, 12, 16, 20, 21, 27, 29, 31–36, 38–40.
- 4 **lineare** (Sw.) Lindb. (*D. vaginans* (Sull.) Hampe)
97, 104. H 28, 39.
- 5 **zonatum** (Brid.) Limpr.
42, 48, 49, 68–70, 73, 88, 90–92, 96–98, 103, 104, 110. H 39.
[H 38]
- β **scabrifolium** Dix.
48, 49, 86, 88, 96–98, 103, 105, 110.
- 6 **subulatum** (Bruch) Hampe
1–3, 15.
- 7 **flexicaule** (Schwaegr.) Hampe
1–3, 5–17, 19, 20, 22–30, 32–72, 75, 77, 79–83, 85–92, 94–112.
H 1–3, 6, 8–10, 12–21, 23, 25–36, 38–40. C.

BRITISH MOSSES

13. **Distichium** B., S. & G.

- 1 **capillaceum** (Hedw.) B., S. & G.
17, 35, 42, 44, 48–50, 52, 57, 59, 60, 62–70, 72, 73, 77, 79, 80,
82, 83, 85–92, 94–112. H 1, 3, 9, 16, 20, 21, 27–29, 33–35, 39,
40. [81]
- 2 **inclinatum** (Hedw.) B., S. & G.
41, 44, 52, 57, 59, (62), 64–66, 68–70, 72, 75, 82, 85, 88–90, 94,
107–112. H 16, 27, 28, 34, 35, 39, 40. [92]

14. **Saelania** Lindb.

- 1 **glaucescens** (Hedw.) Broth.
90, 96. [89]

15. **Ceratodon** Brid.

- 1 **purpureus** (Hedw.) Brid.
 α **purpureus**
1–112. H 1–6, 8–40. C.
- β **conicus** (Hampe) Husn.
22, 23, 25, 27, 32, 33, 36, 37, 39, 48, 58, 59, 62–66, 69, 87, 96,
102. H 21, 27. C. [11, 14, 38, 53]
- 2 **chloropus** (Brid.) Brid.
6.

16. **Brachydontium** Fürnr.

- 1 **trichodes** (Web. f.) Fürnr.
3, 13, 16, 17, 35, 36, 39, 42, 43, 48, 49, 57–60, 62–70, 72, 73,
75–78, 80, 81, 83, 86, 88–92, 95–99, 102, 103, 105. H 20, 21,
28, 38, 40.

17. **Seligeria** B., S. & G.

- 1 **doniana** (Sm.) C. Müll.
6, 7, 16, 23, 35, 36, 40, 47, 48, 57, 60, 62–66, 68–70, 72, 75–77,
80, 83, 87–92, 94, 96, 98, 99, 101, 104–108. H 9, 33, 39. [67]
- 2 **pusilla** (Hedw.) B., S. & G.
3, 6, 9, 15, 21–23, 33–37, (38*), 39, 41–43, 48, 50, 54, 57–60, 62,
64–67, 69, 70, 72, 74, 86, 89, 90, 92, 94, 97, 108. H 28, 33, 39.
[16, 63]
- 3 **acutifolia** Lindb. var. **longiseta** Lindb.
7, 35, 36, 39, 42, 57, 60, 64–66, 69, 70, 104. H 39.

BRITISH MOSSES

- 4 **trifaria** (Brid.) Lindb.
42, 57, 64–66, 69, 89, 108. H 28, 29, 33.
- 5 **paucifolia** (Dicks.) Carruth.
7–17, 20, 22–24, 29, 30, 54, 61. [64]
- 6 **calcarea** (Hedw.) B., S. & G.
6–26, 28–30, 33, 34, 37, 54, 55, 57, 61. H 39, 40.
- 7 **recurvata** (Hedw.) B., S. & G.
3, 10, 13, 14, 24, 34–37, 40, 42–44, 47–50, 57–60, 62–70, 72–75,
77, 80, 81, 83–86, 88–92, 97–99, 103–105, 108, 109, 111. H 1,
3, 29, 30, 33, 34, 36. [54, 76]
8. *œlandica* H. 28, 29
18. **Trochobryum** Breidl. & Beck
- †1 **carniolicum** Breidl. & Beck
80.
19. **Blindia** B., S. & G.
- 1 **acuta** (Hedw.) B., S. & G.
1–3, 35, 36, 40–42, 44–50, 57, 59, 60, 62–83, 85–92, 94–112.
H 1–3, 6, 7, 13, 16, 20, 21, 26–28, 31, 33–40. [4]
- β **arenacea** Mol. (*Blindia acuta* var. *trichodes* (Wils.) Braithw.)
36, 40–42, 48, 49, 58, 59, 62, 63, 66–68, 88, 89, 92, 100, 104,
108, 110. H 1, 40. [69]
- 2 **caespiticia** (Web. & Mohr) C. Müll.
88, 97.
20. **Trematodon** Michx.
- *1 **ambiguus** (Hedw.) Hornsch.
(88*).
21. **Pseudephemerum** (Lindb.) Loeske
- 1 **nitidum** (Hedw.) Reim.
1–27, 30, 32–50, 52, 54–79, 81, 83–86, 90–92, 97, 99, 103–105,
109, 111. H 1, 2, 4, 9, 15, 21, 29, 30, 33, 36, 38–40. C.
22. **Dicranella** (C. Müll.) Schimp.
- 1 **palustris** (Dicks.) Crundw. ex E. F. Warb. (*D. squarrosa* (Starke)
Schimp.)
1–5, (14*), 34–37, 39–50, 57–60, 62–92, 94–112. H 1–3, 5–7, 9,
14, 16, 18, 20, 21, 27–40. [38]

BRITISH MOSSES

- 2 **schreberana** (Hedw.) Dix.
1–9, 11, 13–20, 22–25, 27, 29, 30, 32–43, 45, 46, 48, 50, 52, 54, 55, 57–72, 75–83, 85–91, 95, 97–99, 104, 105, 108, 109, 111. H 1, 2, 14, 20, 21, 23–25, 30, 32–34, 36, 38–40. [53]
- 3 **grevilleana** (Brid.) Schimp.
88, 89. H 20, 28, 29.
- 4 **varia** (Hedw.) Schimp.
1–92, 94–100, 104–112. H 1–7, 9, 10, 12, 14–25, 27–40. C.
- β **callistoma** (With.) Schimp.
16, 22, 29, 52, 57–59, 61, 62, 65, 73, 74. H 39, 40. C. [40]
- 5 **rufescens** (With.) Schimp.
1–5, 7–9, 11, 13–18, 21–23, 25, 27, 32–50, 55, 57–81, 83, 85–92, 95, 96, 98, 99, 102–105, 107, 109–112. H 1, 2, 6, 14, 20, 21, 31, 32, 36, 38–40. C. [30]
- 6 **crispa** (Hedw.) Schimp.
(1), 3, 13–15, (16), 17, 21, 25, (38), 39, 48, 57–59, 61–72, 76, 77, 80, 81, 85, 86, 88–92, 94–98, 101, 106, 107, 111. H 1, 2, 5, 16, 34, 38–40.
- 7 **subulata** (Hedw.) Schimp.
(1), 3, 4, 10, 17, 35, 42–44, 47–49, 58–60, (62–64), 65–68, 70–72, 75, 80, 81, 83, 85–92, 95–99, 104–112. H 1, 3, 5, 13, 21, 35, 36, 38, 39. [16, 36, 56, 69]
 β **curvata** (Hedw.) Rabenh.
35, 41, 48, 49, (62), 65, 69–71, 85, 88, 98. H 12, 27. [76, H 6]
- 8 **cerviculata** (Hedw.) Schimp.
1–6, 8–22, (23), 24–28, 30–35, 37–50, 52, 54, 55, 57–64, 66–77, 81, 83–92, 95–97, 99, 105, 109, 111, 112. H 1–6, 12, 14, 16, 17, 20–25, 27–29, 31–40.
- 9 **heteromalla** (Hedw.) Schimp.
1–112. H 1–16, 18–21, 23–40. C.
 β **sericea** (Schimp.) Schimp.
2, 5, 6, 14, 32, 34, 36, 39, 48, 49, 58–60, 62–66, 68, 70, 71, 81, 87, 90, 98, 101. H 38. [3]
23. **Rhabdoweisia** B., S. & G.
- 1 **fugax** (Hedw.) B., S. & G.
2, 3, 35, 39–42, 44–50, 58, 63–66, 68–73, 76, 77, 82, 85–93, 96–99, 103–106. H 1, 7, 16, 20, 21, 31, 35, 38–40. [1, C]
- 2 **denticulata** (Brid.) B., S. & G.
2, 3, 40–42, 44–50, 57, (59), 60, 63–66, 68–78, 84–92, 96–99, 103–105, 107–110. H 1, 2, 6, 7, 16, 20, 27, 31, 33, 35, 36, 38–40.

BRITISH MOSSES

- 3 **crenulata** (Mitt.) Jameson
 2, 41, 43, 44, 46–50, 64, 66, 69, 70, 72–76, 86, 87, 97–100,
 103–105, 110. H 1, 6, 16, 27, 33, 36, 40.
24. **Cynodontium** Schimp. (3)
- 1 **bruntonii** (Sm.) B., S. & G.
 1–5, (16*), 34–37, 40–50, 52, 57, 58, (59), 62–73, 75, 76, 78,
 80–93, 95, 96, 98, 100, 106, 108, 109. H 1, 5, 6, 13, 20, 30, 36,
 39. C.
 - 2 **polycarpum** (Hedw.) Schimp.
 48, 70, 96. [97]
 - 3 **tenellum** (B., S. & G.) Limpr.
 87–92, 95, 96.
 - 4 **jenneri** (Schimp.) Stirt.
 48, 49, (65*), 66, 68–70, 72, 73, 75, 81, 82, 85–92, 95, 96, 98,
 104, 105, 107, 109, 111. [76, 108]
 - 5 **strumiferum** (Hedw.) De Not.
 89, 90, 92, 93, 96. [98]
 - [6] **gracilescens** (Web. & Mohr) Schimp.]
 [Wales]
 - †7 **fallax** Limpr.
 (90).
25. **Oncophorus** Brid.
- 1 **virens** (Hedw.) Brid.
 69, 70, 88–90, 92, 97, 98, 104, 107.
 - 2 **wahlenbergii** Brid.
 87, 88, 90, 92, 98, 99, 105.
26. **Dichodontium** Schimp.
- 1 **pellucidum** (Hedw.) Schimp.
 1–6, 8–17, 27, 30, 33–52, (55), 56–60, 62–92, 94–112. H 1–3,
 5, 7–10, 12–14, 16, 18, 20, 21, 25–40. [22]
 - β **fagimontanum** (Brid.) Schimp.
 39, 42, 43, 46, 49, 50, 57, 59, 60, 62, 64–66, 68–72, 85, 86, 88,
 90, 96, 97, 100, 105, 107–109, 111, 112. H 2, 27, 30, 37–40.
 - γ **flavescens** (With.) Husn.
 2, 3, 5, 6, 14, 16, 34–37, 39–50, 52, 57–60, 62–73, 75–77, 79–81,
 83, 85–92, 94–98, 100, 101, 104, 107, 108, 110, 112. H 1–6, 11,
 13, 14, 16, 20, 21, 27–31, 33–36, 38–40. [30, 99, 109]

BRITISH MOSSES

27. **Dicranoweisia** Lindb.

- 1 **cirrata** (Hedw.) Lindb.
1–97, 99–101, 104–107, 109, 112. H 1, 3–6, 12, 19–21, 31, 34–40. C.
- 2 **crispula** (Hedw.) Lindb.
40, 47–49, (62, 65), 69, 72, 73, (86), 87–92, 94–99, 103–105, 107, 108. [3, 42, 52, 55, 56, 58, 59, 61, 83]

28. **Arctoa** B., S. & G.

- 1 **fulvella** (Dicks.) B., S. & G.
48, 49, (62*, 65*), 69, 70, 72, 86–90, 92, 94, 96–98, 100, 103–105, 108, 110. H 1.

29. **Dicranum** Hedw.

- 1 **falcatum** Hedw.
(49, 65*, 66, 69), 72, 78, 86–90, 92, 94, 96–98, 100, 102, 104–108, 110. [99]
- 2 **blyttii** B., S. & G.
48, 49, (65), 66, 68–70, 72, 73, 78, 86–92, 96–99, 105, 106, 110. H 7, 38.
- 3 **starkei** Web. & Mohr
49, (65), 69, 87, 88, 90, 92, 94, 96–98, 103, 105–109. H 7, 20. [H 21]
- 4 **glaciale** Berggr.
88–90, 92, 94, 96–98, 106.
- 5 **montanum** Hedw. [56]
11, 13–17, 19–21, 23–25, 29, 30, 32, 34, 37–40, 54–57, 64, 66–68, 70, 81, 89, 90, 96, 99. ^
- 6 **flagellare** Hedw.
3, 13, 15–17, 19–21, 23, 30, 38, 39, [62], 64, 73, 88. H 2. [22]
- 7 **strictum** Schleich. ex Schwaegr.
13–17, 20–24, 32, 33, 37–39, 55, 57, 63, 64, 66–68, 83, 95, 96.
- 8 **scottianum** Turn.
1–5, 14, 16, 34–36, 39, 44–46, 48, 49, 52, 58, 60, (62), 67, 68, 70, 73, 75, 85–88, 90, 92, 97–102, 104–106, 108, 110, 111. H 1–3, 5–7, 12, 16, 20, 25–27, 29, 30, 33–36, 38. [63]
- 9 **elongatum** Schleich. ex Schwaegr.
(68, 90), 92, 96, 97, 105, 109, 112.

BRITISH MOSSES

- 10 **fuscescens** Sm.
 1, 3, 5, 6, 11, 13, 14, 17, 34, 36, 37, (38), 39, 40, 42–52, 57–70,
 72, 73, 75–83, 85–92, 94–112. H 1–3, 6, 7, 16, 20, 21, 26, 27,
 29, 30, 33–36, 38–40. [18]
- β **congestum** (Brid.) Husn.
 48, (65), 66, 88, 92, 94, 97, 98, 105, 108–110.
- 11 **majus** Sm.
 1–20, (21*), 22–24, 27, 28, (29*), 30, 32–50, 52–55, 57–92,
 94–112. H 1–3, 5–7, 10–14, 16, 20, 21, 25–31, 33–36, 38–40. C.
- 12 **bonjeanii** De Not.
 1–28, 30, 32–52, 54–112. H 1–4, 6–10, 12, 13, 15–19, 21, 23–27,
 29–31, 33–40. C.
- 13 **scoparium** Hedw.
 1–112. H 1–40. C.
- 14 **polysetum** Michx. (*D. rugosum* Brid.)
 17, 26–28, 31, 34, (38*), 40, 54, 55, 61, 70, 73, 79, 85, 87–90.
- 15 **undulatum** Brid. (*D. bergeri* Bland.)
 40, 58, 68, 70, 80, 81, 89, 92, 95, 109. H 18.
- 16 **spurium** Hedw.
 3, 8, 9, 11–14, 17, 22, 27, 28, (38*), 54, 61, (62–64), 68, 69, 72,
 85, 87, 90–92, 95, 96.

30. **Dicranodontium** B., S. & G.

- 1 **uncinatum** (Harv.) Jaeg.
 69, 70, 86–90, 92, 94, 96–99, 104–108. H 2, 16, 27.
- 2 **asperulum** (Mitt.) Broth.
 80, 86–88, 90, 92, 94, 96–99, 102, 105–108. H 30, 33. [72]
- 3 **denudatum** (Brid.) Britt.
 3, 9, 14, 38–40, 42, 45–49, 57–60, 62–64, 67, 69, 70, 72, 73,
 78, 80, 86–92, 96–109, 112. H 1, 2, 6, 12, 14, 16, 20, 21, 27,
 28, 33, 35, 36, 38–40. [44]
- β **alpinum** (Schimp.) Hagen
 48, 49, 59, 60, 64, 65, 69, 70, 72, 75, 78, 79, 86–88, 90, 92, 97,
 98, 105, 106, 108. H 1, 2, 16, 20, 21, 27, 39.

31. **Campylopus** Brid.

- 1 **subulatus** Schimp.
 2, 5, 6, 9, (11), 17, 36, 42–49, 64, 69, 70, 72, 88–90, 95, 96,
 98–100, 110, 111. H 2, 3, 16, 27–29, 34, 39. C. [55]

BRITISH MOSSES

- 2 ***schimperi*** Milde
86–90, 96–99, 104, 106, 108, 110–112. H 1, 2, 20.
- 3 ***schwarzii*** Schimp.
48, 49, 69, 70, 73, 86–88, 90, 96–99, 103–110. H 1–3, 7, 16, 20, 27, 28, 30, 34–36.
- β ***huntii*** (Stirt.) Dix.
49. H 35.
- 4 ***fragilis*** (Brid.) B., S. & G.
1–6, 8–17, 19, 23, 25, 27, 31, 33, 35–52, 54, 57–92, 95–112.
H 1–7, 10–14, 16–18, 20–40. C. [55]
- 5 ***pyriformis*** (Schultz) Brid.
1–55, 57–92, 94, 96–106, 108–111. H 1–9, 12, 14–23, 25, 27–31, 33–40. C.
- 6 ***flexuosus*** (Hedw.) Brid.
1–18, 20–30, 32–112. H 1–14, 16, 18–40. C.
- β ***uliginosus*** Ren.
1, 2, 11, 13, 14, 45, 48, 49, 57, 60, 62, 64, 66, 69, 73, 88, 100, 105, 109, 112. H 3, 38, 39. [3]
- γ ***paradoxus*** (Wils.) Husn.
3, 4, 11, 17, 25, 26, 36, 39, 40, 42, 44, 45, 48–50, 57, 58, 60–66, 68, 69, 71, 73, 83, 86, 88, 93, 97, 98, 100, 101. H 2, 3, 12, 14, 16, 20, 21, 27, 30, 32, 33, 35, 38. [1, 35]
- δ ***zonatus*** (Mol.) Anzi
2, 3, 41, 42, 44, 47–50, 60, 67–70, 74, 87, 88, 97, 103–105, 108, 110. H 1, 16, 21, 27, 33, 39.
- 7 ***shawii*** Wils. ex Braithw.
104, 105, 108, 110. H 1, 3.
- 8 ***setifolius*** Wils.
40, 48, 49, 57, 66, 69–71, 73, 98, 100, 103–105, 110. H 1–3, 6, 7, 9, 15–17, 20, 21, 27, 30, 32, 34, 35, 38, 40.
- β ***intermedius*** D. A. Jones
48.
- 9 ***atrovirens*** De Not.
1–4, 41–50, 52, 57, 58, 60, 62, 64–67, 69–77, 85–92, 95–112.
H 1–4, 6, 7, 9, 14–17, 20, 21, 26–40. [9]
- β ***falcatus*** Braithw.
69, 102, 104, 105, 108, 110, 112. H 1, 3, 16, 35.
- γ ***gracilis*** Dix.
48, 49, 64, 65, 69, 70, 88, 90, 104. H 3.

BRITISH MOSSES

- 10 ***polytrichoides*** De Not. (4)
1–3, 45, [48] 49. H 1–3, 16, 27. C.
- 11 ***introflexus*** (Hedw.) Brid. (4)
1, 2, 6, 9, 11–14, 17, 18, 22, 24, 25, 38, 40, 45, 46, 49, 52, 67, 86, 88, 90, 97, 98, 100. H 2, 6, 8, 9, 14–18, 20–23, 26, 27, 30, 33, 36, 40.
- 12 ***brevipilus*** B., S. & G.
1–4, 6–15, (16), 17, 22, 24, 25, 27, 28, 34, 41, 43, 45, 46, 48, 49, 52, 58–61, (62, 67), 69–73, 81, 87–91, 93, 96, 97, 100–112. H 1–3, 6–8, 10, 12, 15–17, 20, 21, 26–29, 31, 33–35, 38, 39. C. [44]
- 32. ***Paraleucobryum*** (Lindb.) Loeske
†1 ***longifolium*** (Hedw.) Loeske
(72*), 88, (90*). [89]
- 33. ***Leucobryum*** Hampe
1 ***glaucum*** (Hedw.) Schimp.
1–20, (21*), 22–30, 32, 34–112. H 1–8, 12–31, 33–40. C.
- 34. ***Encalypta*** Hedw.
1 ***alpina*** Sm.
49, 87, 88, 90, 92, 97, 98, 108. H 28.
2 ***vulgaris*** Hedw.
1, 3, 6–10, 12–17, 19, (20), 21–30, 32–42, 44–47, 49–57, 59–70, 76, 77, 79–92, 94–96, 98, 106, 110. H 1, 2, 4–7, 9, 11, 13–16, 18–21, 23, 24, 27, 32, 33, 35, 39, 40. [4, 11]
3 ***ciliata*** Hedw.
36, 42–44, 48, 49, 64–66, 68–70, 72, 75, 78, 80, 83, 85–92, 94–100, 104–109. H 8, 27, 28, 39, 40. [35, 40]
4 ***rhabdocarpa*** Schwaegr.
49, 50, 64–66, 69, 82, 85, 87–90, 96, 98, 104, 105, 109, 112. H 9, 27–29.
5 ***streptocarpa*** Hedw.
1–17, 20, 22–24, 28–30, 32–92, 94–111. H 1–40.
- 35. ***Tortula*** Hedw.
1 ***ruralis*** (Hedw.) Crome
1–73, 75–83, 85–92, 94–96, 98, 100, 101, 103, 106, 108, 109, 111, 112. H 1, 4, 5, 8–11, 13–22, 24, 25, 27, 28, 30, 31, 33, 34, 37–40. C. [74]

BRITISH MOSSES

- 2 **ruraliformis** (Besch.) Rich. & Wall.
1–6, 8–11, 13–17, 19, 22, 23, 25–29, 34, 41, 44–46, 48–52,
58–61, (62), 66–71, 73–75, 81–85, 90–97, 100–112. H 1, 2, 5, 6,
9, 12, 16, 19–22, 27, 28, 31, 33–35, 37–40. C. [54]
- 3 **norvegica** (Web. f.) Wahlenb. ex Lindb.
88, 92.
- 4 **intermedia** (Brid.) Berk.
1–17, 19–45, 47–73, 75, 77–79, 81–91, 94, 95, 98, 100, 102, 103,
108, 112. H 4–9, 12–19, 21–26, 28, 31–35, 38, 39. C. [99]
- 5 **princeps** De Not.
40, 47, 49, 57, (65), 72, 75–77, 81, 83, 85, 87–92, 96, 99, 106,
108. H 28, 39, 40.
- 6 **laevipila** (Brid.) Schwaegr.
1–83, 85–91, 94, 95, 98–103, 106, 109, 110. H 1, 2, 4–12, 14,
15, 18–22, 25, 28, 30–33, 35–40. C.
 β **laevipiliformis** (De Not.) Limpr.
1–12, 14, 15, 17, 22, 25, 27, 28, 30, 33, 34, 36, 37, 41, 43, 45,
48, 75, 86. H 12, 14, 18, 25, 30, 33.
- 7 **virescens** (De Not.) De Not.
36, 65, 89.
- 8 **papillosa** Wils. ex Spruce
2, 3, 5–9, 11, 13–17, 19, (20, 21*), 22–29, (30), 32–34, 36–40,
48–50, 53–56, 60–62, 64–66, 68–75, 77, 78, 80–83, 85–92, 95,
97–100, 106. H 1, 9, 12, 15, 20, 21, 31, 34, 36, 38–40. C. [63,
111]
- 9 **latifolia** Hartm.
3–27, 29–40, 42–44, 48, 49, 53–55, 57–62, 64–70, 75–77, 80–83,
85, 86, 88–91, 94. H 4, 6, 14, 20, 21, 36, 38–40. [2]
- 10 **subulata** Hedw.
1, 3–20, (21), 22–30, 32–112. H 1, 3–5, 8, 9, 11–14, 16, 20, 21,
25, 27, 29–40.
 β **subinermis** (B. & S.) Wils.
8, 9, 13, 34–36, 42, 43, 47, 50, 58, 60–62, 75, 85, 86. [11, 14,
64, 90]
 γ **angustata** (Wils.) Limpr.
3, 11, 12, 19, 20, 22, 24, 32, 34–37, 54, 55, 57–59, 61, 62, 64–68,
81–83, 111. H 38. [23]
 δ **graeffii** Warnst.
35, 42, 57, 64, 65, 69, 72, 80, 86, 89, 94, 96, 99, 105, 108. H 30.

BRITISH MOSSES

- 11 **canescens** Bruch ex Mont.
1–3, (14), 43, 45, 48. C. [88, 89]
- 12 **muralis** Hedw.
1–112. H 1–40. C.
β aestiva Hedw.
3, 13, 14, 16–19, 21–25, 27, 30, 32–34, 36–39, 50, 53, 55–58,
63–65, 68, 74, 81. H 38.
- 13 **marginata** (B. & S.) Spruce
3, 5–19, (20), 22–27, 29, 32–40, 51, 56, 58, 59, 62–66, 99. H 15,
17, 36, 38, 39. C. [69]
- 14 **stanfordensis** Steere
1.
- 15 **vahliana** (Schultz) Wils.
3, 5–7, 10, 13, 16, 17, 19, 29, 33, 34, 36, 41, 54. H 20, 21, 29, 39.
- 16 **cuneifolia** (With.) Turn.
1–5, (6), 13, 14, (15*), 17–19, (22*), 25, 36, 37, 39, 45, 48, 52.
H 1, 3–5, 8, 12, 14, 21, 38. C. [11 or 12, 16, 20]
36. **Aloina** Kindb.
- 1 **brevirostris** (Hook. & Grev.) Kindb.
57, (61), 63, 64, 83.
 - 2 **rigida** (Hedw.) Limpr.
(1), 3, (5), 10, 11, 13, 14, (15), 17–19, 21–24, 26–29, 31–37, (38),
39, 48–50, 52–59, (61, 62), 63, 64, 66, 69, 72, 76, 77, 82, 83, 89.
H 4, 21, 38, 39. [4, 16, 20, 90]
 - 3 **ambigua** (B. & S.) Limpr.
1–6, 8–30, 32–41, 44–50, 52–64, 66–71, 76, 77, 81–86, 88, 90,
93–96. H 2, 4–6, 8, 9, 12, 14, 16, 19, 21, 23, 28, 30, 31, 33, 34,
37–40. C.
 - 4 **alooides** (Schultz) Kindb.
1–10, 13–30, 32–45, 47, 49–70, 72, 75, 77, 80–83, 85, 86, 90, 95,
100. H 1, 2, 5, 6, 8, 9, 11–13, 15–23, 27–30, 32, 33, 36–40. C.
[99]
37. **Desmatodon** Brid.
- 1 **cernuus** (Hüben.) B. & S.
56, 63, 64.
 - 2 **convolutus** (Brid.) Grout
1–5, 9, 10, 13–15, 36, (38), 41, 44–46, 48, 49, 52, 57, 68, 71, 73,
81, 85, 90, 94, 99. H 1, 3–5, 12, 16, 20, 21, 38, 39. C.

BRITISH MOSSES

- 3 **leucostoma** (R. Br.) Berggr. (*D. suberectus* (Hook. ex Drumm.) Limpr.)
89, (90).
- 38. **Pterygoneurum** Jur.
 - 1 **ovatum** (Hedw.) Dix.
3, 6, 10, 12–15, (16, 17), 19, 20, 22–34, 36, 37, (38), 40, 45, 47, 52–59, (61–64), 66–68, 70, 72, 77, 81–83, 85, 90, 92, 95, 96, 106, 112. H 4, 21. [2, 5, 35, 99]
 - 2 **lamellatum** (Lindb.) Jur.
3, (6, 13), 14, (16), 23, 24, 26, 28, 29, 32–34, 37, 53, 55, 57, (62–64), 83, 85, (90). H 21, 38. [10, 61]
- 39. **Stegonia** Vent.
 - 1 **latifolia** (Schwaegr.) Vent.
88, 89, (90), 92, 94.
- 40. **Pottia** Fürnr.
 - 1 **lanceolata** (Hedw.) C. Müll.
1–17, 19–30, 32–41, 50–58, 60–69, 80, 81, 83–85, 89, 90, 92, 94, 95, 99, 100, 109. H 4–6, 19, 21.
 - 2 **caespitosa** (Bruch ex Brid.) C. Müll.
1, 9, 11, 13–17, 22, 36.
 - 3 **heimii** (Hedw.) Fürnr.
1–6, 9–11, 13–21, 25–28, (32), 34, 35, 37, 38, 41, 44–46, 48, 49, 52, 54, 56, 58–76, 81–86, 90–95, 97–103, 106, 108–112. H 2–5, 9, 12, 16, 20, 21, 27, 28, 31, 34, 35, 38–40. C.
 - 4 **intermedia** (Turn.) Fürnr.
1–11, 13–30, 32–42, 44–46, 48, 49, 52, 54–64, 66–71, 73, 75, 76, 78, 79, 81, 83, 85, 88–92, 95, 99, 104–106. H 1, 3, 4, 13, 15, 18, 20, 21, 26, 27, 33, 37–39. C.
 - β **littoralis** (Mitt.) Dix.
2, 3, 5, 10, 13, 14, 18, 50, 52, 58–60, 69, 71, 81, 90. C.
 - 5 **truncata** (Hedw.) Fürnr.
1–92, 94–99, 101–105, 108, 109, 111, 112. H 1, 3–5, 8, 9, 14–16, 19–23, 27–34, 36–40. C.
 - 6 **crinita** Wils. ex B., S. & G.
 α **crinita**
1–5, 9–11, 13, 14, 25, 26, 44, 45, 48, 49, 52, 58, 68, 71, 73, 74, 77, 81, 82, 85, 90–94, 106, 108, 109. H 1, 2, 4, 5, 21, 38–40. C.

BRITISH MOSSES

- β **viridifolia** (Mitt.) Mönk.
1–4, 45–48, 52. H 12, 39, 40. C.
- 7 **wilsonii** (Hook.) B. & S.
1–4, (5), 13, 14, 19, 27, 40, 44, 45, 48–50, 52, 58, 59, 85. H 3,
5, 20, 21. C. [62, 83, 90]
- 8 **asperula** Mitt.
1, 2, (13), 85. H 21, 38. C. [3]
- 9 **davalliana** (Sm.) C. Jens.
1–30, 32–41, 44–46, 49, 50, 52–70, 75, 77, 80–83, 85, 86, 90,
103. H 1, 2, 28, 33, 38–40. C.
- 10 **commutata** Limpr.
1, 3, 4, 9, 10, 14.
- 11 **starkeana** (Hedw.) C. Müll.
1–6, 9, 10, 12–17, 19, (20), 25–27, 32–34, 36, 37, 41, 45, 52, 56,
57, 60–64, 69, 85, (90). H 4, 5, 21, 33, 38, 39. C.
- 12 **bryoides** (Dicks.) Mitt.
3, 4, 6, 8, 10, 11, 13, 14, 16–18, 22, 23, 25–29, 32–34, 36, 39, 40,
45, 49, 53–57, 60–64, 66–70, 82, 85, 90, 109. H 21, 39. [20, 30]
- 13 **recta** (Sm.) Mitt.
1–17, 19, 20, 22–24, 26, 27, 29, 30, 32–34, 36, 37, 41, 45, 49,
50, 52–57, 59–61, 63–66, 69, 71, 75, 81, 83, 111. H 1, 4, 5, 20,
21, 23, 28, 34. C. [99]
41. **Phascum** Hedw.
- 1 **curvicollum** Hedw.
3–6, 8, 10–17, 19, 20, 22–24, 26, 27, 29, 30, 32–34, 36–38, 40,
50, 53, 54, 56, 57, 61, 63–66, 68, 69, 90, 94. H 16, 21. [2, 67]
- 2 **cuspidatum** Hedw.
1–42, 44–73, 75, 77, 78, 80–86, 88–93, 95, 96, 99, 106, 109,
111, 112. H 1, 3–5, 14, 16, 18, 20, 21, 24, 28, 32–34, 37–40. C.
[74]
- β **piliferum** (Hedw.) Hook. & Tayl.
3, 5, 6, 9, 13–16, 18, 19, 41, 67, 68, 81, 83–85, 89–91. [1, 22,
25, 27, 28, 30, 31, 39, 50, 57, 59, 60, 62, 66, 70. H 21, 39]
- γ **maximum** Web. & Mohr (*P. cuspidatum* var. *schreberianum*
(Dicks.) Brid.)
13 or 14, 17, 19, (29), 40, 61, 62, 66. [67]
- δ **curvisetum** (Dicks.) Nees & Hornsch.
11, 13, 14, 25, 34, (38). [17, 30, 63]

BRITISH MOSSES

- 3 **floerkeanum** Web. & Mohr
 5, 7–17, 19, 20, 22, 23, 27, 29, 30, 33, 34, 49, 50, 61–63, 66.
 [3, 67]

42. **Acaulon** C. Müll.

- 1 **muticum** (Hedw.) C. Müll.
 1–6, 8–27, 29, 30, 32–34, 36–40, 43, 45, 46, 48, 50, 52, 54–69,
 73, 77, 80, 81, 83, 85, 88, 90–92, 95, 100, 101, 104. H 1, 4, 21,
 34, 35, 39, 40. [99]
 β **minus** (Hook. & Tayl.) B., S. & G.
 3, 5, 13, 27, 52, 71. [2, 17]
- 2 **triquetrum** (Spruce) C. Müll.
 3, 9, 10, 14. [13, 91, 99]

43. **Cinclidotus** P. Beauv.

- 1 **fontinaloides** (Hedw.) P. Beauv.
 1–9, 11–14, 16, 17, 20–24, 29–45, 48–52, 54, 55, 57–70, 72–92,
 94–100, 102–105, 108–111. H 1, 2, 4–10, 12–17, 20–40. [56]
- 2 **riparius** (Web. & Mohr) Arn. (*C. nigricans* (Brid.) Loeske)]
 [36, 37, 40. H 9]
- 3 **mucronatus** (Brid.) Mach.
 3, 4, 6–9, 11, 13, 14, 16–20, 22–24, 29, 32–45, 49, 52, 54, 66,
 80, (90). [69]

44. **Barbula** Hedw.

- 1 **convoluta** Hedw.
 1–93, 95–101, 104–112. H 1–9, 11–23, 25–40. C.
 β **commutata** (Jur.) Husn.
 1–20, 22, 23, 27, 29, 31–36, 39, 42, 43, 45–50, 57, 60–64, 67,
 69, 70, 72, 74, 76, 81, 83, 85–88, 91, 99, 110. H 1–3, 5–7, 16,
 20, 21, 27, 28, 30, 32, 33, 36, 38–40. C. [52]
- 2 **unguiculata** Hedw.
 1–92, 94–112. H 1–5, 7–40. C.
 β **cuspidata** (Schultz) Brid.
 4–11, 14, 16, 19, 32, 37–39, 41, 46, 48, 56, 57, 59–62, 64, 65,
 68, 72, 79, 81, 83, 90. H 22, 23, 31, 38, 39.
- 3 **revoluta** Brid.
 1–17, 19, 20, (21), 22–91, 94, 96–105, 107–111. H 1, 2, 4–14,
 16–25, 27–40. C.

BRITISH MOSSES

- 4 **hornschuchiana** Schultz
1–17, 19–41, 43–75, 77, 79, 81–85, 87–91, 95, 96, 100, 105–107,
109–112. H 1–3, 5, 8, 12, 15, 16, 19, 21, 30, 33, 36–40. C.
- 5 **icmadophila** Schimp. ex C. Müll.
70, 88, 104.
- 6 **acuta** (Brid.) Brid.
1, 4, 6–9, 13, 14, 22, 23, 25, 29, 33, 34, 36, 37, 40, 41, 43, 45,
50, 53, 54, 56–58, 63, 64, 69, 90, 93. H 8, 9, 18, 26–28, 38. C.
[99, H 4, 39]
- 7 **fallax** Hedw.
1–73, 75–92, 94–101, 103–112. H 1–40. C.
- 8 **reflexa** (Brid.) Brid.
1, 3, 9, 12, 14, 15, 17, 20, 22, 23, 27, 30, 32–36, 38–40, 42, 45,
46, 49–53, 56, 57, 59, 60, 62–72, 75, 86–91, 94, 101, 105, 106,
108–111. H 1–3, 9, 11, 12, 15, 16, 21, 23, 26–29, 32–35, 38–40.
[6, 61]
- β **robusta** Braithw.
H 28, 29.
- 9 **spadicea** (Mitt.) Braithw.
3, 6, 9, 12, 14, 16, 33–37, (38), 39–45, 47–52, (55), 57, 59, 60,
62–73, 75–95, 97, 99, 100, 104–106, 108–112. H 1, 4, 5, 7, 9–11,
14, 20, 23, 25, 28–33, 35, 36, 38–40. [1]
- 10 **glauca** (Ryan) Möll.
7, 11, 13, 65.
- [11] **rufa** (Lor.) Jur.
[88]
- 12 **rigidula** (Hedw.) Milde
1–20, 22–24, 26–42, 44–112. H 1–6, 8–12, 14–21, 23–30, 32–40.
C.
- 13 **nicholsonii** Culm.
3, 11, 13, 17, 21–25, 29, 34–38, 42, 62, 64, 67, 68, 80, 81, 100.
H 2, 5, 12.
- 14 **trifaria** (Hedw.) Mitt.
1–25, 28–30, 32–42, 44, 45, 47–50, 52–57, 59–70, 72, 74, 81–85,
94. H 1, 2, 4–6, 8, 12, 13, 17, 18, 21, 26, 29, 33–35, 38, 39. C.
- 15 **cordata** (Jur.) Loeske
4.
- 16 **tophacea** (Brid.) Mitt.
1–11, 13–20, (21), 22–30, 32–42, 44–91, 93–95, 97–101, 103–112.
H 1–6, 8–10, 12, 14–21, 23, 25–29, 31–40. C.

BRITISH MOSSES

- 17 **cylindrica** (Tayl.) Schimp.
1–25, 29–52, 54–112. H 1–14, 16–40. C.
- 18 **vinealis** Brid.
1–40, 45, 46, 48–52, 54, 55, 57–60, 62–69, 72, 73, 78, 80–86,
88, 90, 92, 96, 97, 99–101, 106, 108, 110. H 4–6, 11, 12, 14,
18–21, 27, 28, 33, 34, 36–39. C.
- 19 **ferruginascens** Stirz.
5, 36, 39, 42, 43, 48–51, 59, 64–66, 69, 70, 72, 75, 86–91,
96–100, 104–106, 108, 110, 111. H 1, 7, 14, 16, 27, 28, 35, 39.
- 20 **recurvirostra** (Hedw.) Dix.
1–30, 32–112. H 1–6, 8–14, 16, 18–25, 27–40. C.
45. **Gymnostomum** Hedw.
- 1 **aeruginosum** Sm.
5, 6, 35, 36, 39–44, 47–50, 57–60, 62–92, 94–112. H 1–3, 6, 7,
9, 16, 20, 21, 25–29, 31, 33–36, 38–40.
- 2 **recurvirostrum** Hedw.
9, 41, 42, 44–46, 48–52, 57, 59, 60, 62, 64–72, 76, 77, 81–91,
95–112. H 1, 2, 4, 9, 10, 16, 18, 21–23, 27–31, 33–36, 38–40.
[3, 63]
- β **cataractarum** Schimp.
104.
- γ **insigne** (Dix.) Rich. & Wall.
88, 97, 98, 104, 108. H 28, 29.
- 3 **calcareum** Nees & Hornsch.
1, 3, 5, 6, 9, 10, 15, 24, 33–37, 40–42, 45, 49, 50, 57, 62–64, 69,
73, 86, 88, (91), 97–99, 105, 108. H 4–6, 9, 14, 16, 28, 29, 33–36,
38.
46. **Gyroweisia** Schimp.
- 1 **tenuis** (Hedw.) Schimp.
1, 3–17, 19, 20, (21), 22–24, 28, 29, 32–42, 45, 48, 49, 54, (55),
56–62, 64–70, 72–77, 80, 81, 83, 85, 86, 88–91, 96, 98–101, 104,
108. H 1, 5, 21, 28, 33, 34, 36, 38–40.
- †2 **reflexa** (Brid.) Schimp.
38.
47. **Eucladium** B., S. & G.
- 1 **verticillatum** (With.) B., S. & G.
1–7, 9–17, 19, 22, 23, 27–30, 32–46, 48–52, 54–77, 80–86, 88–91,
93–95, 97–112. H 1, 2, 4–6, 9, 12–21, 23, 26, 28, 29, 32–40. C.

BRITISH MOSSES

48. **Anoectangium** Schwaegr.

- 1 **aestivum** (Hedw.) Mitt. (*A. compactum* Schwaegr.)
 39, 41–44, 46, 48, 49, 52, (59), 62, 64–67, 69, 70, 72, 73, 75–78,
 80, 83, 85–92, 96–108, 110. H 1–3, 6–8, 16, 20, 27, 28, 31,
 33–35, 38, 39. [1, 56, 63, 109]

49. **Tortella** (C. Müll.) Limpr.

- 1 **fragilis** (Drumm.) Limpr.
 85, 88, (90), 109. [92, 112, H 2, 9, 16, 27, 28, 32, 33, 35]
- 2 **tortuosa** (Hedw.) Limpr.
 1–4, 6, 7, 9, 11, 13, 14, (16), 17, 20, 22–24, 29, 30, 33–37, (38*),
 39–55, 57–60, 62–83, 85–112. H 1–12, 14–23, 25–36, 38–40. C.
 [5]
- 3 **nitida** (Lindb.) Broth.
 1–7, 9, 20, 34–36, 39, 41, 44, 45, 48, 49, 52, 57, 60, 64, 69, 73,
 75, 98. H 1, 5, 9, 15, 26, 28. C. [37, 42, 50, 59, 61, 62, 65, 66,
 83, 100, 101, 104, 107, H 2, 6, 7, 16, 21, 27, 29, 35, 40]
- 4 **inclinata** (Hedw. f.) Limpr.
 17, (23), 28, 29, 33, 41, 44, 45, 52, 53, 66, 82, 85, 91, 107. H 38.
 [55, 65, H 23, 31, C]
- 5 **densa** (Lor. & Mol.) Crundw. & Nyh. (*T. tortuosa* forma *curta*
 Albertson)
 33, 64–66, 69, 71, 108. H 9.
- 6 **flavovirens** (Bruch) Broth.
 α **flavovirens**
 1–6, 9–11, 13, 14, 25, 27, 28, 45, 46, 48, 49, 52, 54, 59, 61, 67,
 68, 70, 73–75, 81, 82, 84, 85, 90, 91, 97, 98, 100, 101, 105, 106,
 109–112. H 1, 5, 6, 9, 17, 28, 34, 35, 37–39. C. [15, 16, 19, 41,
 44, 50, 51, 58, 60, 71, 76, 93, 94, 104, H 2, 3, 12, 16, 20, 21, 27,
 40]
- β **glareicola** (Christens.) Crundw. & Nyh.
 9, 13, 14, 27, 68, 91. C.
- †7 **limosella** (Stirt.) Rich. & Wall.
 97.
- 8 **inflexa** (Bruch.) Broth.
 7–9, 11, 13–17, 20, 23, 24, 29, 30.

50. **Pleurochaete** Lindb.

- 1 **squarrosa** (Brid.) Lindb.
 1–6, 8–11, 13–17, 22, (23), 24, 26, 28, 33, 34, 36, 41, 45, 50–52,
 57, 60, 64, 69. H 9, 20, 21. C.

BRITISH MOSSES

51. **Trichostomum** Bruch

- 1 **tenuirostre** (Hook. & Tayl.) Lindb.
1–5, 14, 34–37, 40–50, 57, 62–70, 72–77, 85–88, 90, 96–106, 108, 110. H 1–3, 6, 7, 16, 20–22, 27, 28, 31, 33–36, 38, 39.
- β **holtii** (Braithw.) Dix.
5, 48–50, 59, 66, 69–71, 98, 100. H 1, 2.
- 2 **hibernicum** (Mitt.) Dix.
72, 86, 88, 97, 99, 103–106, 110. H 1, 2, 5, 16, 27.
- 3 **sinuosum** (Mitt.) Lindb. ex Herzog
1–17, 19, 20, 22–26, 28–30, 32–38, 40, 41, 44–46, 48–50, 52, 55–57, 60, 62–66, 68, 70, 81, 97, 98. H 1, 2, 6–8, 15–17, 19, 21–23, 28, 30, 32, 33, 36, 38, 39. C.
- 4 **crispulum** Bruch
1–17, 20, 22–24, 29, 30, 32–53, 55–57, 59–77, 81–83, 85, 87–90, 93–105, 107–112. H 1–10, 12, 14, 16–23, 25, 26, 28–30, 32–40. C.
β **elatum** Schimp.
2–6, 8, 36, 42, 48, 50, 52, 57, 64, 65, 81, 82, 98, 100, 101. H 1, 2, 5, 8, 28, 35, 39.
- γ **nigroviride** (Braithw.) Dix.
36, 39, 50, 57, 64, 66, 69. H 2.
- δ **brevifolium** B., S. & G.
3, 9, 15, 41, 42, 50, 57, 60, 66, 69, 97, 100. H 34. C.
- ε **viridulum** (Bruch) Braithw.
3, 9, 10, 14, 36, 64, 70. [35]
- 5 **brachydontium** Bruch
1–6, 9–17, 20, 24, 29, 33–53, 55, 57–60, 62–65, 67–76, 80, 81, 85–87, 90–112. H 1–3, 5, 6, 8, 9, 14–17, 21, 25–31, 33–35, 38–40. C.
β **littorale** (Mitt.) C. Jens.
1–4, 6, 9, 10, 13, 14, 34, 37, 40, 42–45, 47–50, 52, 57, 59, 60, 62, 64, 65, 67–74, 76, 81, 82, 85, 88–94, 96–101, 103–112. H 1–3, 6, 8, 11, 12, 16, 21, 22, 26–28, 31–35, 38–40. C.
γ **cophocarpum** (Schimp.) Rich. & Wall.
2, 6, 34, 35, 39, 41, 42, 48, 50, 57, 60, 64, 65, 69, 97, 103–105, 108. H 2, 9, 28, 29, 33, 39. C. [H 38]

52. **Weissia** Hedw.

- 1 **controversa** Hedw.
1–30, 32–92, 94–112. H 1–9, 11–16, 18–24, 26–40. C.

BRITISH MOSSES

- β **densifolia** (B., S. & G.) Wils.
1–4, 36, 46, 48, 49, 60, 64–67, 70, 71, 81, 84, 87. H 1.
- 2 **wimmerana** (Sendtn.) B., S. & G.
96.
- 3 **crispata** (Nees & Hornsch.) Jur.
1–4, 6, 8–11, 13, 14, 16, 17, 33–37, 39, 40, 43, 45, 48–50, 57, 59, 60, 62–66, 69–71, 75, 80–83, 85, 88, 104, 105, 110. H 2, 6, 15, 33, 34, 38.
- 4 **rutilans** (Hedw.) Lindb.
1–3, 5, 7, 10, (11), 13–17, 19, 20, 22, 23, 34, 36–40, 42, 45–49, 52, 57–62, 64, 68, 69, 72, 77, 83–86, 88, (90), 91, 92, 97, 102, 103, 105, 107–109, 111, 112. H 35, 38–40. C. [55]
- 5 **tortilis** (Schwaegr.) C. Müll.
6, 9, 11, 13–17, 34, 36, 37, 51, 69, 81. H 18. [H 5, 35]
- 6 **microstoma** (Hedw.) C. Müll.
1–17, 19, 20, (21), 22–30, 32–34, 36–41, 43–46, 48, 49, 52, 54–72, 74–77, 80–83, 85, 86, 88–92, 96, 97, 99–102, 104, 105, 108, 109, 111, 112. H 1, 4, 5, 15, 20, 21, 23, 31, 34, 37–40. C.
- β **brachycarpa** (Nees & Hornsch.) C. Müll.
11, 14, 15, 17, 20, 22, 23, 45, 48, 57, 61, 62. [3, 16, 34]
- 7 **squarrosa** (Nees & Hornsch.) C. Müll.
3, 9, 13–17, 22, 24, 32, 35, 37, 45, 55–60, (62), 64, 69, 85. [4, 74]
- 8 **rostellata** (Brid.) Lindb.
9, 13–15, 17, 22, 23, 29, (38), 55, 57, 58, 63. H 39. [3, 67, 92]
- †9 **mittenii** (B., S. & G.) Mitt.
13, 14.
- 10 **multicapsularis** (Sm.) Mitt.
13, 14, 16, 17, 23, 29, (38), 58. [30]
- 11 **crispa** (Hedw.) Mitt.
1, 3, 5–17, 19–26, 27 or 28, 29–34, 36–40, 43, 49, 50, 53–62, 64–67. H 19, 21, 35, 38, 39. [2, 83]
- β **aciculata** (Mitt.) Dix.
13–17, 19, 22, 29, 32–34, 37, 38, 55, 65.
- 12 **sterilis** Nicholson
3, 8, 10, 13–17, 20, 22, 29, 33, 37.
- 13 **levieri** (Limpr.) Kindb.
6.

BRITISH MOSSES

53. **Leptodontium** Hampe1 **flexifolium** (Sm.) Hampe

1–6, 9, 12–14, 16, 17, (21*), 22, 24, 28, 30, 32, 34–40, 43, 45, 46, 48–51, 55, 57–60, 62–75, 77–81, 83, 84, 86–91, 96–102, 104–106, 108–111. H 1, 6, 12, 20, 21, 27–30, 33, 35, 39. [23, H 36]

2 **gemmae** (Mitt.) Braithw.

3, 5, (11), 13, 14, (16*), 17, (20*), 33, 36, (90*).

3 **recurvifolium** (Tayl. ex Wils.) Lindb.

48, 49, 69, 70, 86–88, 96–98, (99), 104–108. H 1, 2, 16.

54. **Coscinodon** Spreng.1 **cribrosus** (Hedw.) Spruce

4, 44–46, 48–50, 69, 70, 72, 88.

55. **Grimmia** Hedw.1 **maritima** Turn.

1–5, 44–46, 48, 49, 52, 58, (59), 60, (62), 66, 68–71, 73–76, 81–85, 90–106, 108–112. H 1, 3–6, 8, 9, 12, 13, 16, 20, 21, 27–29, 31, 34, 35, 38–40. C.

2 **apocarpa** Hedw.

1–112. H 1–40. C.

β **homodictyon** (Dix.) Crundw. (*G. homodictyon* Dix.)
69, 88, 89, 97, 105, 108.

3 **conferta** Funck

3, 43, 49, 65, 69, 70, 76, 77, 80, 83, 85, 87–89, 96, 99, 104.
H 26, 31, 32, 38–40. [48, 64, 81, H 9]

4 **stricta** Turn. (*G. apocarpa* var. *gracilis* auct.)

2, 3, 36, 37, 46–50, 57, 59, 60, 64–66, 68–70, 72, 85–90, 92, 96–101, 104–111. H 1, 2, 4, 6, 8, 18, 30, 39. [16, 38]

5 **trichodon** Brid.

49, 66, 69, 88, 89, 108.

6 **atrofusca** Schimp.

96.

7 **alpicola** Hedw.

α **alpicola**

36, 42, 43, 48, 57, 64–69, 72, 80, 81, 88, 90–92, 96. H 19.

β **rivularis** (Brid.) Broth.

2–6, 34–40, 42–52, 55, 57–62, 64–106, 108, 109, 111, 112. H 1, 5, 6, 16, 21, 29, 30, 33, 34, 38–40.

BRITISH MOSSES

- 8 **anodon** B. & S.
69, 83.
- *9 **crinita** Brid.
(38*.)
- 10 **commutata** Hüben.
14, (16*, 19), 34–36, 42, 43, 48, 50, 69, 70, 73, 81, 82, 85, 88–90,
98, 107. [64, 83]
- 11 **laevigata** (Brid.) Brid.
1–4, 7, 14, (16), 22, 36, 43, 45, 48–50, 52, 55, 71, 82, 83, 85,
87–89, (90), 99. H 3, 5, 39. C.
- *12 **unicolor** Hook.
(90*.)
- 13 **doniana** Sm.
α **doniana**
3–5, 35–37, 40–50, 52, 57–60, 64–78, 80–83, 85–92, 94–100,
104, 105, 108, 110. H 1, 2, 19–21, 27, 34, 37–39.
β **arenaria** (Hampe) Loeske
48–50.
- †14 **alpestris** Schleich. ex Nees & Hornsch.
(90*, 92.)
- 15 **montana** B. & S.
3, 35, 37, 40, 43, 48, 49, 65, 70, 73, 82, 92. C. [45, 69]
- 16 **ovalis** (Hedw.) Lindb.
3, 4, 39, 43, 48, 49, (55*, 64), 66, 68–70, 80, 82, 83, 85, 87–93,
98, 102, 104, 105, 108. H 1, 4, 6, 21, 38, 39. [36, 37]
- 17 **elongata** Kaulf.
49, 68–70, (90), 92.
- 18 **atrata** Mielich. ex Hornsch.
48, 49, 69, 70, 72, 87–90, 92, 96.
- 19 **incurva** Schwaegr.
40, 49, 68, 70, 72, 73, 90–92, 94. [48]
- 20 **pulvinata** (Hedw.) Sm.
1–112. H 1–40. C.
β **africana** (Hedw.) Dix.
5, 13, (16), 34, 37, 39, 40, 48, 49, 57. [2, 3, 99]
- 21 **orbicularis** Bruch ex Wils.
3, 4, 6, 9, 13, 14, (16), 22–24, 33, 34, 36, 37, 40, 41, 43, 45, 46,
48–50, 52, 60, 64, (65), 66, 69, 82, 83, 85, 88, 89, 104, 108.
H 4, 5, 21, 38.

BRITISH MOSSES

- 22 **funalis** (Schwaegr.) B. & S.
 47–50, 64–66, 69, 70, 72, 73, 75, 85–90, 92, 94, 96–100, 104–110.
 H 1, 4, 7, 16, 20, 35, 38–40. [1, 67]
- 23 **torquata** Hornsch. ex Grev.
 42, 44, 48, 49, 64–66, 68–70, 72, 73, 75, 78, 79, 85–90, 92,
 94–99, 103–108. H 1, 2, 7, 20.
- 24 **trichophylla** Grev.
 1–7, 11, 13, 14, 16, 17, 22, 29, 34–40, 42–52, 54, 55, 57–59,
 62–101, 103–112. H 1–4, 6, 9, 13, 14, 16, 19–21, 23, 26–28,
 30–32, 34–40.
- 25 **subsquarrosa** Wils. ex Schimp.
 1–4, 7, 36, 43, 45, 46, 48, 49, 52, (55), 58, 64, 70, 82, 83, 85,
 86, 88, 89, 99, 101. H 1, 11. C. [37, 73]
- 26 **stirtonii** Schimp.
 1, 5, 7, 13, 34, 36, 37, 43, 45, 47–50, 52, 57, 58, 60, 64, 68–70,
 73, 77, 81–83, 85, 88, 90, 100, 111. H 19, 21, 38, 39.
- 27 **muehlenbeckii** Schimp.
 1, 77, 92, 96.
- 28 **hartmanii** Schimp.
 3, 34–36, 42, 43, 45, 47–50, 52, 64, 66–70, 72, 73, 75, 81, 86–102,
 104–108. H 2, 3, 7, 16, 20, 26, 31, 34, 38–40.
- 29 **retracta** Stirt.
 36, 42, 43, 47–50, 64, 69, 70, 73, 81, 86–88, 98, 99, 102, 105,
 110. H 1–3, 16, 33. [4]
- 30 **decipiens** (Schultz) Lindb.
 1–4, 6, 7, 13, 14, 22, 35, 36, 43–45, 47–49, 52, (55*, 62), 66,
 68–71, 73, 79, 80, 82, 85–90, 92, 94, 96–98, 103, 104, 108–110.
 H 6, 16, 20, 21, 31, 38, 39. C. [16, 50, 76, 83]
- β **robusta** (Ferg. ex Braithw.) Braithw.
 3, 48, 49, 69, 70, 73, 86, 88, 90, 92, 96–99, 104, 105, 108. H 1,
 2, 16, 21, 38, 39.
- †31 **elatior** B. & S.
 (90*), 92.
- 32 **patens** (Hedw.) B. & S.
 1–3, 44, 45, 47–50, (65), 68–73, 75, 78, 80, 82, 85–92, 94–99,
 101–110, 112. H 1–3, 6, 7, 16, 20, 21, 27, 31, 33, 35, 38–40.
 [5, 55]

56. **Rhacomitrium** Brid.

- 1 **ellipticum** (Turn.) B. & S.
48, 49, 58, (65), 69, 70, 72, 73, 86, 88, 90–92, 94, 96–99, 103–106,
108, 110. H 1, 3, 4, 16, 20, 21, 27, 28, 31, 34, 35, 37–40. [2, 52]
- 2 **aciculare** (Hedw.) Brid.
1–6, 13, 14, (16, 17), 34–37, 39–52, (55), 57–60, 62–112. H 1–4,
6–9, 11–16, 18, 20–22, 25–40.
- 3 **aquaticum** (Brid.) Brid.
1–6, (37), 40–52, (55), 59, 60, 64–79, 82, 85–92, 96–112. H 1–3,
6, 7, 11–13, 16, 18, 20, 21, 25–32, 35–39. [57]
- 4 **fasciculare** (Hedw.) Brid.
1–6, 14, 16, 17, 30, (32*), 33–52, 55, 57–60, 62–112. H 1–4,
6–8, 11–16, 19–21, 25–40.
- 5 **heterostichum** (Hedw.) Brid.
1–6, 9, 11, 13–17, 29, 30, (32*), 34–52, 55–60, 62–112. H 1–9,
11–17, 19–21, 25–40. C.
 β **alopecurum** (Brid.) Hüben.
2–4, 7, 34–37, 39–46, 48–50, 52, 60, 64, 68–73, 81–83, 85, 88,
90, 92, 94, 96–98, 104, 108, 110. H 1, 3, 6, 13, 20, 21, 26, 27,
30, 31, 35, 38, 39. C.
- γ **gracilescens** B., S. & G.
1–5, 14, 36, 40–42, 44–49, 52, 57, 60, 64–66, 68–73, 77, 85–92,
94–101, 103–112. H 1–3, 6, 7, 11, 12, 14, 16, 20, 21, 26, 27,
29–31, 33, 35–39. [H 40]
- 6 **microcarpon** (Hedw.) Brid.
88, 97, 98, 104, 105, 109, 110, 112. H 1.
- 7 **canescens** (Hedw.) Brid.
1–9, 11–14, 16, 17, 19, (20), 21–23, 25–30, 33–37, (38), 39–52,
54, (55), 56–112. H 1–4, 6–8, 11, 12, 14–16, 19–21, 26–28,
30–40. C.
- 8 **lanuginosum** (Hedw.) Brid.
1–6, 9, 11–14, 16, 17, 22, 27, 29, 30, 33–50, 52, 55, 57–92,
94–112. H 1–7, 9, 11–17, 19–21, 25–40. [21]

57. **Discladium** Brid.

- 1 **nudum** (Dicks.) Brid.
14, 32, 37, 39, 57–60, 62–67, 69, 70, 75, (77, 82), 88. H 30. [17]

BRITISH MOSSES

58. **Funaria** Hedw.

- 1 **hygrometrica** Hedw.
1–112. H 1–9, 11–24, 26–40. C.
- 2 **muhlenbergii** Turn.
(2), 3, 6, 9, (13, 14), 33, 34, 36, 39–42, 45, 47–52, 55, 57, 59, 60, 64–66, 69, 88, 89, (90), 98, 100, 106, 112. H 3–5, 33, 39, 40. [1, 4, 30, 35]
- 3 **attenuata** (Dicks.) Lindb.
1–5, 42–50, 52, 58–60, (62), 63–76, 83, 86–88, (90, 91), 97–105, 107–112. H 1–5, 7, 9, 16, 20, 21, 27–29, 31, 33–36, 38–40. C. [21]
- 4 **fascicularis** (Hedw.) Schimp.
1–19, (20), 22–28, 32–50, 52, 55, 57–59, (61, 62, 64), 66, 67, 69–73, 75–77, 81, 83, 85–89, 91, 92, 98, 100, 111, 112. H 1–5, 8, 16, 19, 21, 27, 31, 36, 38–40. C. [30, 74, 90]
- 5 **obtusa** (Hedw.) Lindb.
1–7, 9–17, (20), 24, 27, 34, 36, 37, 40–42, 44–50, 52, 58–60, (61), 62–75, 77–81, 83, 85–92, 95–112. H 1–5, 7, 9, 10, 12, 14–16, 20, 21, 27, 30, 31, 33–40. C.

59. **Physcomitrium** Brid.

- 1 **pyriforme** (Hedw.) Brid.
1–41, 43–46, 48–73, 75–77, 79–92, 95, 97–99, 102, 103, 109, 110. H 1–5, 8, 11, 18–23, 28, 30, 33, 34, 36–40. C.
- 2 **eurystomum** Sendtn.
20, 28.
- 3 **sphaericum** (Schkuhr) Brid.
14, 16, 17, 39, 57, 58, 64, 85.

60. **Physcomitrella** B., S. & G.

- 1 **patens** (Hedw.) B., S. & G.
1–3, 5–8, 11, 13–29, (30), 31–34, 36–41, 50, 52, 54–64, 66–68, 79, 83, 84. H 4, 9, 15, 21, (39).

61. **Nanomitrium** Lindb.

- 1 **tenerum** (Bruch) Lindb.
13, 14, 16, 17.

BRITISH MOSSES

62. **Ephemerum** Hampe

- 1 **recurvifolium** (Dicks.) Boul.
5–7, 9–11, 13–17, 19, 20, 22–25, 28–30, 32, 34, 54, 58, 66.
- 2 **sessile** (Bruch) Rabenh.
1, 7, 10, 12–14, 16, 23, 58. [92]
- 3 **cohaerens** (Hedw.) Hampe
13. H 15. [91]
- 4 **stellatum** Philib.
14, 16. H 1.
- 5 **intermedium** Mitt. ex Braithw.
13.
- 6 **serratum** (Hedw.) Hampe
1–27, 29–50, 52, 54–64, 67–70, 72–75, 77, 80, 81, 83–92, 95–97,
99, 105, 107, 109. H 1, 4, 18, 33, 34, 36, 38–40.
 α **serratum**
4, 12, 14, 17, 22, 23, 36, 40, 41, 49, 52, 67, 73, 83, 86, 90, 91,
95–97, 99, 105. H 1.
 β **minutissimum** (Lindb.) Grout (*E. serratum* var. *angustifolium*
auct.)
1, 3, 5–7, 9, 11–13, 16, 17, 19, 20, 22, 23, 25, 29, 31–33, 35, 36,
40, 42–45, 47, 48, 59, 61, 63, 64, 67, 70, 73, 74, 87, 90, 91, 99,
107. H 33, 36, 38–40.

63. **Oedipodium** Schwaegr.

- 1 **griffithianum** (Dicks.) Schwaegr.
42, 44, 47–49, (64), 65, 68–70, 72, 73, 78, 80, 86–92, 96–98,
103–105. H 1, 35.

64. **Tayloria** Hook.

- 1 **lingulata** (Dicks.) Lindb.
86–89, (90), 98, 108.
- †2 **longicolla** (Dicks.) Dix.
66, 87, 88, (90, 91), 92, 96, 104, 105, 109. (H 40).

65. **Tetraplodon** B., S. & G.

- 1 **angustatus** (Hedw.) B. & S.
49, (61), 88–90, 92, 94, 96, 97, 104–106, 108. [64, 98]

BRITISH MOSSES

- 2 **mnioides** (Hedw.) B. & S.
3, 4, 17, 40–43, 46, 48, 49, 54, 58–70, 72, 73, 75–78, 80, 81,
83, 85–98, 100–111. H 1–3, 7, 14, 16, 19, 20, 27, 28, 30, 33,
35, 36, 38–40.
66. **Aplodon** R. Br. (*Haplodon* auct.)
- 1 **wormskjoldii** (Hornem.) R. Br.
66, 69, 70, 88.
67. **Splachnum** Hedw.
- 1 **sphaericum** Hedw. (*S. ovatum* Hedw.)
3, (4), 35, 36, 42, 44, 48, 49, 57–60, 62–73, 75–78, 81, 83–92,
94–112. H 1, 16, 20, 21, 26–30, 33, 35, 36, 38–40. [2]
- 2 **ampullaceum** Hedw.
2–4, (5), 9, 11, 12, 14, (15–17, 22*, 23*), 25–27, (29–32), 35, 39,
40, 42–50, (52, 55), 56, 58, 59, 62–70, 72–75, 77, 80, 81, 83,
85–92, 95–106, 110. H 1–3, 9, 15–17, 19–22, 27, 28, 33, 34,
36–40.
- 3 **vasculosum** Hedw.
(65), 68, 69, 72, 79, 87–90, 92, 95, 96, 106, 107.
68. **Schistostega** Mohr
- 1 **pennata** (Hedw.) Web. & Mohr
1–6, 13, 17, 32, 34, 36, 37, 39, 40, 47–49, 55–59, 62–65, 69, 70,
76, 86, 97.
69. **Tetraphis** Hedw.
- 1 **pellucida** Hedw.
1–25, 27–81, 83–92, 94–109. H 1–3, 6, 11, 13, 18, 20, 21, 23,
27–30, 32–40.
- 2 **browniana** (Dicks.) Grev.
3, 13, 14, (16), 36, 39, 42, 46, 48, 49, 57–60, 62–70, 72, 73, 75–77,
80, 83, 85–88, 90, 91, 96–101, 103–105, 107. H 1, 20, 21, 33,
36, 39, 40.
- β **repanda** (Funck) Hampe
14, 62.
70. **Mielichhoferia** Hornsch.
- 1 **elongata** (Hornsch.) Hornsch.
62, 92. [90]

BRITISH MOSSES

71. **Orthodontium** Schwaegr.

- 1 **gracile** Schwaegr. ex B., S. & G.
3, 14, 39, 40, 50, 51, 55, 57, 58, 64, 68, 70, 75, 77, 83, 86. [16, 54]
- 2 **lineare** Schwaegr.
3, 5, 6, 8, 9, 11–32, 34, 35, 37–40, 42, 43, 47, 50–52, 54–67, 69, 70, 72–76, 85, 90, 91, 99. H 21, 36.

72. **Leptobryum** (B., S. & G.) Wils.

- 1 **pyriforme** (Hedw.) Wils.
1–6, 8–11, 13–23, 25–41, 48–50, 54–73, 75, 77, 79, 80, 82–86, 88–92, 95, 97–99, 102, 104, 105, 108–110. H 3, 4, 7, 9, 14, 21, 23, 31, 33, 34, 38–40. C.

73. **Pohlia** Hedw.

- 1 **acuminata** Hornsch. (5)
46, 49, 69, 70, 86, 88, 90, 92, 98, 105, 106, 108. H 1, 2, 34 or 35.
[48, 65, 87, 96, 97, 104, H 7, 16, 20, 31, 38]
- 2 **polymorpha** Hornsch. (5)
49, 69, 70, 86, 88, 90, 92, 98, 99, 105–107. H 1. [46, 48, 65, 68, 71–73, 87, 97, 104, 108, 110, H 7, 21]
- 3 **elongata** Hedw. (5)
5, (11), 35, 40–44, 46, 48, 49, 60, 64–70, 72, 73, 75, 78, 86–88, 90, 92, 97–99, 103, 105–107. H 1, 2, 20, 38. [2, 3, 36, 39, 47, 50, 59, 63, 108, H 7, 12, 27, 31, 34, 36, 39, 40]
- 4 **cruda** (Hedw.) Lindb.
3, 4, 35, 36, 40, 42–44, 46–50, 52, 57, 59, 60, 62–70, 72, 73, 75–100, 104–110. H 1, 7, 8, 16, 20, 21, 34, 38, 39.
- 5 **nutans** (Hedw.) Lindb.
1–112. H 1–3, 5–12, 14, 16, 18–25, 27, 29–40.
- 6 **cucullata** (Schwaegr.) Bruch
88, 96, 100, 105. [97]
- 7 **drummondii** (C. Müll.) Andr.
48, 49, 59, 69, 83, 86, 88, 90, 92, 96–99, 104, 105, 108–110.
- 8 **gracilis** (B. & S.) Lindb.
85, 86, 88, (90), 96.
- 9 **rothii** (Correns) Broth.
1–4, 7, 10–13, 16, 17, 22, 23, 26–28, 36–38, 40, 43, 45, 47–50, 54, 57, 60–63, 68, 72–74, 76, 81, 86–90, 93, 95–99, 104–108, 110. H 1, 2, 16, 25, 33, 36, 39, 40.

BRITISH MOSSES

- 10 **bulbifera** (Warnst.) Warnst. (6)
48, 68, 81, 83, 90, 95, 96, 107. H 1, 33, 36.
- 11 **annotina** (Hedw.) Loeske
1–8, 10, 11, 13–23, 25, 27, 30, 32, 34–43, 45–52, 54–88, 90–111.
H 1, 16, 19–21, 27, 28, 33, 36–40. C.
- 12 **proligera** (Lindb.) Limpr. ex Arnell (6)
50, 67, 69, 72, 80, 88, 96, 106.
- 13 **ludwigii** (Schwaegr.) Broth.
48, 49, (65), 68–70, 86, 88–90, 92, 94, 96–99, 105–108.
 β **latifolia** (Schimp.) Braithw.
69, 70, 88, 96, 97, 108.
- 14 **wahlenbergii** (Web. & Mohr) Andr. (*P. albicans* (Wahlenb.)
Lindb.)
1–19, (20), 21–23, 28, 29, 32–112. H 1, 4–6, 8–10, 12, 14–16,
18–24, 27–40.
 β **glacialis** (Schleich. ex Brid.) E. F. Warb. (*P. albicans* var.
glacialis (Schleich. ex Brid.) Lindb.)
49, 57, 68–70, 88, 90, 92, 96–98, 100, 105–107, 110. [85]
 γ **calcarea** (Warnst.) E. F. Warb. (*P. albicans* var. *calcarea*
(Warnst.) Rich. & Wall.)
1, 2, 9, 10, 14, 17, 22, 34, 49, 64. H 16, 39.
- 15 **delicatula** (Hedw.) Grout
1–42, 44, 45, 47–52, 54–77, 80–85, 88–93, 95, 97–100, 103–112.
H 1, 4, 5, 8, 9, 14–21, 27, 30, 32, 33, 38–40. C.
74. **Epipterygium** Lindb.
- 1 **tozeri** (Grev.) Lindb.
1–5, 8–11, 13, 14, (16), 17, 34–36, 41–45, 48, 49, 71. H 2, 4,
38, 39. C.
75. **Plagiobryum** Lindb.
- 1 **zieri** (Hedw.) Lindb.
(1), 35, 36, 39–44, 47–50, 57, (59), 60, 62, 64–70, 72, 73, 75–80,
82, 83, 85–90, 92, 96–101, 104–110. H 1, 16, 28, 34, 39, 40. [3]
- 2 **demissum** (Hoppe & Hornsch.) Lindb.
88, (90), 98.
76. **Anomobryum** Schimp.
- 1 **filiforme** (Dicks.) Solms-Laub.
(3), 35, 36, 39–50, 57, 59, 60, 63–76, 78–81, 83, 85–110, 112.
H 1–3, 6, 7, 15, 16, 20, 21, 27, 28, 30, 31, 33–40.

BRITISH MOSSES

- 2 **concinnatum** (Spruce) Lindb.
42, 43, 64–66, 69, 70, 80, 88, 96, 103, 104, 108. H 9, 29. [36, 48,
49, 63, 75, 83, 87, 92, 95, H 1, 7, 16, 20, 28, 34, 39]
- †3 **juliforme** Solms-Laub.
(1).
77. **Bryum** Hedw.
- 1 **marratii** Wils.
48, 54, 59, 60, (62*), 70, 75, 85, 90, 110. H 40. [H 21]
 - 2 **warneum** (Röhl.) Bland. ex Brid.
4–6, 41, 44, 48, 49, 52, 54, 58–60, (62*), 66, 69, 75, 82, 85, 90,
95, 105. H 21, 29.
 - 3 **mamillatum** Lindb.
28, 54, 59.
 - 4 **pendulum** (Hornschr.) Schimp.
1–6, 9–11, 13–17, 20, (21), 22, 23, 25, 26, 28, (30), 33, 34, 36, 37,
(38), 39–46, 48–50, 52, 54, 56–73, 75, 77, 78, 82–88, 90, 93,
95–97, 102, 104–106, 108–112. H 1, 2, 4, 5, 7, 9, 12–14, 16,
18–23, 25, 27–31, 33, 34, 38–40. C. [55]
 - 5 **arcticum** (R. Br.) B., S. & G.
88.
 - †6 **lawersianum** Philib.
(88).
 - 7 **knowltonii** Barnes (*B. lacustre* (Web. & Mohr) Bland.)
4, 9, 25, 26, 48, 52, 54, 56, 58–60, (61, 62), 64, (65), 66, 68, 85,
90. [6, 42]
 - 8 **inclinatum** (Brid.) Bland.
1–6, 8–15, 17–19, 21–25, 28, (30), 32–37, (38), 39–45, 48–52,
54–75, 77, 78, 82, 83, 85–88, 90, 91, 94–99, 103–112. H 2–6, 8,
9, 11, 15, 16, 19–21, 23, 25–30, 33, 35, 37, 38, 40. C. [16, 29]
 - 9 **salinum** Hagen ex Limpr.
5, 75, 91, 102. H 17.
 - 10 **calophyllum** R. Br.
1, 4, 46, 48, 49, 52, 58, 59, (62*), 66, 68, 82, 85, 90, 95, 105, 109.
[H 21, 40]
 - [11] **purpurascens** (R. Br.) B., S. & G.]
[64]
 - 12 **uliginosum** (Brid.) B. & S.
19, (22*, 23*), 37, (38*), 39, 48, 49, 53, 57–60, (61–65), 66, 68,
70, 72, 77, 82, 85, 86, 90, 92, 108, 109. H 1, 7, 18, 19, 21, 32, 33,
35, 39, 40. [2, 4]

BRITISH MOSSES

- 13 **pallens** Sw.
 1–11, 13–17, 19–26, 29, 30, 32–73, 75–112. H 1, 4, 6–11, 13,
 15–21, 23, 25–28, 30–40. [C]
 β **fallax** Jur.
 (14), 49, 59, 88. H 20.
- 14 **turbinatum** (Hedw.) Turn.
 (13, 23), 27, 35, 39, 48, 59, 67, 96, 104. H 27. [1, 3, 6, 20–22,
 28, 55, 58, 62, 66, 77, 88, 100, 110, H 21, 39]
- †15 **schleicheri** Schwaegr. var. **latifolium** (Schwaegr.) Schimp.
 86, 88, 112.
- 16 **weigelii** Spreng.
 40, 49, 64, 65, 68–70, 72, 77–79, 87–92, 94–96, 98, 103–109,
 111. H 6.
- 17 **tortifolium** Funck ex Brid.
 69, 70, 86, 105.
- 18 **neodamense** Itzigs.
 59, (65*, 90*), 109. H 9, 17. [H 40]
- 19 **pseudotriquetrum** (Hedw.) Schwaegr.
 1–9, 11, 13–17, 19, 20, 22, 23, 25–28, (30), 32–92, 94–112.
 H 1–11, 14–16, 18–22, 26–40. C. [29]
 β **bimum** (Brid.) Lilj.
 2–4, 6, 9–16, 18–23, 26, 27, 29–34, 36–40, 43–50, 53–66, 68–73,
 75, 77, 81–88, 90, 91, 94, 95, 98, 101, 104, 105, 108–110. H 1,
 2, 4, 5, 8, 12, 13, 18, 20, 21, 23, 27, 28, 30–34, 37–40. C. [1,
 5, 74]
- 20 **creberrimum** Tayl. (*B. affine* Lindb. & Arnell)
 2, 3, 11, 13, 14, (16), 19, 20, (23), 29, 32, 34, 35, 38, 42, 43,
 56–66, 69, 71, 72, 75, 80, 82, 86, 88, 90, 92, 97. H 2. [22, 37]
- 21 **pallescens** Schleich. ex Schwaegr.
 1, 2, 10, 11, 16, 18, 34, 37–39, 41, 48–50, 57–60, 62–71, 77,
 85–90, 92, 96, 98. H 1, 7, 21, 28, 33, 35, 38, 39.
- 22 **intermedium** (Brid.) Bland.
 1–6, 8–14, 16–19, 22, 23, 25, 26, 28, 29, 32–34, 36–40, 44–46,
 48–50, 52–70, 73, 74, 77, 81–83, 85, 86, 89–92, 95, 104, 105,
 107–109, 112. H 4, 12, 21, 31, 34, 37–40. [35, C]
- 23 **caespiticium** Hedw.
 1–92, 94–100, 102, 104–109, 111, 112. H 1, 2, 4–9, 12, 13, 15,
 18–21, 23, 27, 28, 30–40. C.
 β **imbricatum** B. & S. (*B. caespiticium* var. *kunzei* (Hoppe &
 Hornsch.) Braithw.)
 14, 36, 43, 57, 63, 66. [62]

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- *24 **dixonii** Card. ex Nicholson
(98*).
- 25 **argenteum** Hedw.
1–105, 107, 109–112. H 1–6, 8–16, 18–23, 26–28, 30–40. C.
 β **lanatum** (P. Beauv.) Hampe
1–3, 5, 6, 9–15, 17, 20–23, 26, 29–39, 41, 43, 45–50, 52, 53, 55–60, 62–72, 74, 76, 77, 81–83, 85, 89–91, 94, 96, 100, 104, 106, 108. H 1, 2, 34, 38–40. C.
- 26 **bicolor** Dicks.
1–30, 32–50, 52–77, 79–91, 94–101, 104–107, 111, 112. H 1–5, 8, 9, 14–16, 19–23, 30–34, 36–40. C.
- 27 **radiculosum** Brid. (*B. murale* Wils. ex Hunt)
1–11, 13–19, (20), 22–25, 27–29, (30), 32–42, 44–50, 52–55, 57, 58, 60, 61, 64, 65, 68–72, 75, 101, 102, 105. H 2, 3, 8, 10, 12, 14, 20, 21, 23, 29–33, 35, 36, 38, 39. C. [99]
- 28 **erythrocarpum** Schwaegr.
1–20, (21), 22–41, 43–55, 57–65, 67–77, 79, 80, 84–92, 95–97, 99, 100, 102, 104–106, 108, 109, 111. H 1–5, 12, 14, 16, 19–21, 25, 27, 31, 36–40. C. [81]
- 29 **rubens** Mitt.
13, 14, 23, 32, 34, 36, 40, 45, 48, 85. H 18, 27, 35, 39. [9, 10]
- 30 **klinggraeffii** Schimp.
13, 23, 29, 31, 58, 62, 65.
- 31 **sauteri** B., S. & G.
1, 2, 4, 14, 43, 87, 99.
- 32 **muehlenbeckii** B., S. & G.
88, 96, 97, 103, 105, 106, 108.
- 33 **gemmae** De Not.
2–4, 35, 42.
- 34 **alpinum** With.
1–5, 9–12, 14, 34–36, 40–52, (55*), 57, 59, 60, 63–76, 78, 81–93, 95–112. H 1–4, 6, 7, 9, 13, 14, 16, 20, 21, 24–27, 30, 31, 33–40. C. [16]
 β **viride** Husn.
3, 4, 42, 45, 46, 48–50, 52, 63, 64, 66, 68–70, 74, 82, 86, 99, 100, 102, 105, 110. H 1, 38, 39. C.
 γ **meridionale** Schimp.
1, 45, (62, 65).
- 35 **mildeanum** Jur.
36, 42, 46, 47, 49, 64–66, 69, 70, 80, 87, 88, 92, 96, 98, 107, 108, 110. H 1, 2, 16, 21, 27, 39. [39]

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- 36 **donianum** Grev.
1–10, 12–17, 25, 34, 36, 37, 40, 45, 48, 49, 52, 53, 57, 59. H 1,
3, 4, 19–21. [21, 26, 86]
- 37 **capillare** Hedw.
1–112. H 1–40. C.
- β **torquescens** (Bruch ex De Not.) Husn.
1–3, 5, 6, 9–11, 13–17, 23, 33, 34, 36, 38, 42, 48, 50, 54, 62,
63, 69, 75, 85, 86, 100. H 2, 5, 8, 16, 21. [90]
- γ **elegans** (Nees) Husn.
1, 6, 9, 14, 28, 35, 42, 50, 51, 57, 64, 66, 68–70, 81, 87, 88, 94,
97, 108.
- 38 **obconicum** Hornsch.
1–4, 6, 10, 13, 14, 28, 34, 36, 38–40, 49, 50, 54, 58, 62, (64),
65, 66, 69, 71, 75, 86–88, 92, 100, 102, 103. H 2, 16, 20, 21, 24,
33, 34, 39. [23]
- 39 **rufifolium** (Dix.) Rich. & Wall.
43, 49, 50, 104, 105. H 9.
- 40 **canariense** Brid. var. **provinciale** (Philib.) Husn.
6, 13, 14, (16), 34, 36, 40, 45, 47, 50, 60. C.
78. **Rhodobryum** (Schimp.) Limpr.
- 1 **roseum** (Hedw.) Limpr.
2–6, 8–17, (20), 22–30, 32–41, 43–50, 52, 55–60, 62–78, 81–92,
95, 96, 98–102, 104–106, 108. H 1, 2, 4, 5, 9, 15, 18, 20, 26,
33, 34, 36, 38–40.
79. **Mnium** Hedw.
- 1 **hornum** Hedw.
1–112. H 1–21, 23–40. C.
- 2 **orthorhynchum** Brid.
49, 60, 64, 65, 69, 70, 87–90, 96–98, 105, 108. H 16, 28, 29. [59]
- 3 **lycopodioides** Schwaegr.
88.
- 4 **marginatum** (With.) P. Beauv.
 α **marginatum**
3, (13, 14), 26, 34–37, 39, 40, 42, 44, 46, 48–51, 53, 54, 57–60,
62–73, 75–92, 94, 95, 99, 101, 105–109, 111, 112. H 1, 6, 16,
20, 28, 29, 33, 39, 40. [17, 55, 61]
 β **dioicum** (H. Müll.) Crundw. (*M. riparium* Mitt.)
13, 36, (62), 65, 70, 77, 88. H 26, 37, 39.

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- 5 **spinosum** (Voit) Schwaegr.
88–90, 97.
- 6 **stellare** Hedw.
3–6, 10, 12, 13, 15, 16, (17*), 19, 23, 24, 32–44, 46–52, 54–73,
75–92, 95–101, 104–108, 112. H 2, 6, 20, 21, 23, 28, 33, 35,
36, 39.
- 7 **cuspidatum** Hedw.
1–9, 12–20, 22–30, 32–50, 52, 53, 55–73, 75–77, 79–92, 95,
97–99, 102–104, 108–110, 112. H 1, 2, 7, 9, 12, 13, 15–17, 20,
21, 23, 26, 28, 30, 32, 36, 38–40.
- †8 **medium** B. & S.
88.
- 9 **longirostrum** Brid.
1–92, 95–101, 103, 104, 108–112. H 1–5, 10, 11, 13, 14, 18–23,
25, 26, 28–40. C.
- 10 **affine** Bland. (7)
2–7, 9–26, 28–32, 35–40, 42, 43, 47–51, 54, 55, 57–60, 62–75,
77–80, 83–91, 93–97, 104, 105, 107, 111, 112. H 1, 2, 13–16,
21, 25, 27, 28, 35–40. C. [61]
- 11 **rugicum** Laur.
2, 6, 17, 18, 21–23, 26–28, 32, 41, 56, 57, 59, 64, 65, 69, 70,
73, 83, 85, 88, 90, 95–99, 102, 104, 105, 110, 112. H 9, 15, 17,
23, 27, 33, 38–40. [55]
- 12 **seligeri** (Lindb.) Limpr.
2, 5–7, 10–15, 18, 22, 23, 26–30, 32, 33, 36–40, 43–46, 48, 52,
55–73, 76, 79, 80, 87–91, 94–98, 100, 101, 104–110, 112. H 5,
19, 23, 26–28, 33, 35, 36.
- 13 **undulatum** Hedw.
1–112. H 1–40. C.
- 14 **punctatum** Hedw.
1–112. H 1–9, 11–16, 18, 20–36, 38–40. C.
- 15 **pseudopunctatum** B. & S.
3, 5, 6, 10–12, 14, 18, 22, 26–28, 36–42, 44, 47–49, 52, 56–60,
62–70, 72–78, 80–92, 95–97, 101, 103, 105, 109–111. H 2, 6,
12, 21, 27, 31–33, 36–40.
- 16 **cinclidioides** Hüben.
46, 48, 49, 68–70, 73, 75, 76, 79, 80, 87–92, 94, 95, 98, 99, 106,
109.

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80. **Cinclidium** Sw.1 **stygium** Sw.

(26*), 27, 48, 60, 64–66, 69, 70, 79, 80, 87–92, 97, 98, 108.

81. **Aulacomnium** Schwaegr.1 **palustre** (Hedw.) Schwaegr.

1–6, 8–28, (29*), 30, 32–112. H 1–6, 8–40. C.

β **imbricatum** B. & S.

10, 26, 36, 49, 54, 64, 66, 75. [62]

2 **turgidum** (Wahlenb.) Schwaegr.

(65*), 88, 98, 105–107.

3 **androgynum** (Hedw.) Schwaegr.

2, 3, 5–41, 43, 46–48, 50, 51, 53–70, 73, 75, 77, 83–86, 88–92, 95–98, 105–109. H 18, 20, 30, 33, 37–40.

82. **Paludella** Brid.*1 **squarrosa** (Hedw.) Brid.

(58*, 61*, 62*.)

83. **Meesia** Hedw.1 **uliginosa** Hedw.

52, 59, 60, 65–70, 75, 78, 79, 82, 85–92, 94, 98, 105, 106, 109.

2 **tristicha** B. & S.

H 27.

84. **Amblyodon** B. & S.1 **dealbatus** (Hedw.) B. & S.

4, (26, 27), 37, (38*), 44, 48, 49, 52, 57–60, (62, 63), 64–70, 74, 75, 81–83, 85–90, 92, 94–96, 105, 106, 108, 109, 112. H 1, 17, 21, 27–29, 31–35, 38–40.

85. **Catoscopium** Brid.1 **nigritum** (Hedw.) Brid.

52, 59, 60, (64), 65, 66, 68, 71, 82, 85, 88–90, 94, 109, 112. H 34, 39, 40. [58, 69, 74]

86. **Plagiopus** Brid.1 **oederi** (Brid.) Limpr.

(1), 34–36, 39, 41–44, 46, 48–50, 57, 60, (62), 64–66, 69, 70, 72, 75–77, 83, 85–92, 94, 96–99. H 1, 39.

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87. **Bartramia** Hedw.

- 1 **hallerana** Hedw.
35, 42–44, 48, 49, (62), 64–66, 69, 70, 72, 73, 75, 77, 80, 86–92,
95, 96, 98–101, 103–106, 108. H 1, 2, 4, 6, 7, 20, 27, 36, 39. [85]
- 2 **pomiformis** Hedw.
1–28, (29*), 30, 32, 34–50, 52, 54–60, 62–92, 94–110, 112.
H 1–7, 11–13, 19–21, 26, 27, 30, 31, 33, 34, 36–40. C.
 β **elongata** Turn. (*B. pomiformis* var. *crispa* (Brid.) Limpr.)
3, 5, 14, 24, 41–43, 47–50, 52, 64–70, 72, 73, 75, 76, 81–92,
96–99, 108. H 1, 2, 38.
- 3 **ithyphylla** Brid.
3, 5, 13–15, (16), 25, 35–37, 40–44, 46–50, (55*), 58, 60, (62),
64–112. H 1, 6, 7, 16, 20, 21, 27, 31, 34–36, 38–40. [4, 63]
- 4 **stricta** Brid.
(14*), 43, 45, 47. C.

88. **Conostomum** Sw.

- 1 **tetragonum** (Hedw.) Lindb.
49, 69, 86–90, 92, 94, 96–98, 100, 102, 103, 105–108, 112. [99]

89. **Bartramidula** B., S. & G.

- 1 **wilsonii** B., S. & G.
48, (90*), 97, 98, 105, 110. H 1, 3.

90. **Philonotis** Brid.

- 1 **rigida** Brid.
1, 4, 10, 48–50, 71, 87. H 1–3, 20, 33. C. [35]
- 2 **fontana** (Hedw.) Brid.
1–27, (29*, 30*), 32–112. H 1–10, 12–16, 18–21, 24, 25, 27–40.
C.
 β **adpressa** (Ferg.) Limpr.
48, 49, 57, 59, 63–66, 69–71, 88–90, 92, 96–98, 103, 104, 108,
110. H 2, 20, 38, 39.
 γ **tomentella** (Mol.) Dix.
48, 49, 65, 68, 69, 88, 90, 92, 94, 96, 98, 104–106, 110. H 31, 35.
[H 39]
- 3 **caespitosa** Wils. ex Milde
1–3, 5, 7, 8, 10, 11, 13, 14, 17, 22, 27, 37–39, 41, 42, 45, 48,
49, 52, 57–59, 62–64, 67, 69, 70, 86, 88, 99, 100. H 20, 31, 35.
[65]

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- 4 **capillaris** Lindb.
1, 3, 6–10, 13–17, 22, 23, 34, 36–38, 40, 42–44, 47–50, 58, 62, 64, 68–70, 73, 81, 82, 86, 88, 90, 96, 98, 103, 104, 109, 110, 112. H 36, 38, 39. [11, 65]
- 5 **seriata** Mitt.
88, 90, 92, 94, 96–98, 105, 106, 108, 111. [H 2, 31, 32, 37]
- 6 **calcarea** (B. & S.) Schimp.
3–5, 7–9, 11, 12, 22, 23, 26–28, 32–40, 42, 44–46, 48–50, 52, 53, 57–72, 74, 75, 78–96, 98, 105–111. H 1, 2, 7–9, 14, 19–21, 23, 24, 27–29, 31–33, 35–40. [29, 55, 99]
91. **Breutelia** Schimp.
- 1 **chrysocoma** (Hedw.) Lindb.
1–6, 9, (11), 35, 36, 39–50, 52, 54, (55*), 57, 59, 60, (61), 62, 64–81, 83, 85–92, 95–112. H 1–3, 5–9, 11, 13–18, 20, 21, 24–40. [58]
92. **Timmia** Hedw.
- 1 **austriaca** Hedw.
88, 90.
- 2 **norvegica** Zett.
88, 90, 97, 98. H 28.
93. **Campylostelium** B., S. & G.
- 1 **saxicola** (Web. & Mohr) B., S. & G.
12–16, 36, 42, 46, 48, 49, 57, 58, 60, 62, 64, 65, 67–70, 77, 86, 99, 103. H 1, 2, 20, 21, 28, 29, 40. [87]
94. **Ptychomitrium** Fürnr.
- 1 **polyphyllum** (Sw.) Fürnr.
1–6, 13, (32*), 33–50, 52, 55, 57–60, 62–92, 95–112. H 1–21, 23, 25–40. C. [17, 56]
95. **Glyphomitrium** Brid.
- 1 **daviesii** (With.) Brid.
(2), 3, 45, 48, 49, (52*), 69, 70, 86, 97–99, 103–105, 108, 110. H 1–3, 15, 16, 34, 35, 38–40. [88]
96. **Amphidium** Schimp.
- 1 **lapponicum** (Hedw.) Schimp.
43, 44, 48, 49, 64–66, 68–70, 72, 73, 80, 86–88, 90–92, 96–99, 104–106, 108. [76, 77, 85]

BRITISH MOSSES

- 2 **mougeotii** (B. & S.) Schimp.
1–5, 35–37, 40–52, 56, 57, 59, 60, 62–92, 94–112. H 1–9, 13,
14, 16, 20, 21, 27, 28, 30, 31, 33–40.

97. **Zygodon** Hook. & Tayl.

- 1 **viridissimus** (Dicks.) R. Br.
1–50, 52–55, 57–105, 108–112. H 1–23, 25, 27, 28, 30–40. C.
 β **stirtonii** (Schimp. ex Stirt.) Hagen
1–4, 6, 9–11, 13–15, 17, 32, 34–37, 40, 42–45, 47–50, 52, 57, 60,
63–65, 68–71, 73–75, 77, 81–91, 93, 94, 97–100, 104, 109, 111,
112. H 2, 3, 5, 6, 9, 11, 20–22, 28, 31, 33, 34, 38–40. C. [22, 23]
 γ **vulgaris** Malta
3–6, 11, 33, 42, 48, 69, 70, 87, 88, 90, 97, 98, 105, 108. H 1, 2,
14.
 2 **conoideus** (Dicks.) Hook. & Tayl.
1–14, 18–20, 22, 23, 33, 35, 36, 42, 45, 47–49, 52, 58, (59), 60,
62, 65, 69–75, 80, 86, 88, 90–92, 97–101, 103–105, 110. H 1–5,
12, 14–18, 20, 25–27, 29, 33, 35, 38–40.
 3 **gracilis** Wils. ex Berk.
64.
 4 **forsteri** (Brid.) Mitt.
(5), 11, (18, 24, 37). [9, 13, 14]

98. **Orthotrichum** Hedw.

- 1 **rupestre** Schleich. ex Schwaegr.
3, 7, 8, 22, 34, 37, 40, 47–49, 51, 52, 59, 60, 65–71, 73–83,
85–93, 95–112. H 1, 2, 16, 20, 21, 26, 27, 34, 35, 37–40. [14,
38, 64]
 β **sturmii** (Hornschr.) Jur.
69, 75, 83, 85–88, 99, 104. H 1, 20, 38, 39.
 γ **franzonianum** (De Not.) Vent.
69, 73, 88. [95]
 2 **anomalum** Hedw.
1–20, 22–62, 64–73, 75–112. H 1–4, 6, 8–23, 25–40. C. [63]
 3 **cupulatum** Brid.
3–9, 11–14, 16, 17, 22, 23, 25, 27, 29, 30, 32–46, 48–52, 54, 55,
57, 59–72, 75–78, 80–83, 85–98, 100, 101, 105–108, 112. H 1, 2,
4, 5, 8, 10, 15, 16, 21, 23, 25, 26, 28–30, 32, 35, 38–40.

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- β **nudum** (Dicks.) Braithw.
 6, 9, 14, 22–24, 32, 33, 36, 37, 39, 42, 50, 51, 55, 57, 59, 60,
 64–72, 74, 77, 80, 81, 83–91, 94, 108, 109. H 8, 9, 21, 26, 33,
 34, 36, 38–40.
- 4 **speciosum** Nees
 (13*, 14*, 62*), 86, 88, 89, (90, 91), 92, 94–96. [64, 70]
- 5 **affine** Brid.
 1–17, (18), 19, 20, (21*), 22–110, 112. H 1–6, 8–23, 26–40. C.
- †6 **shawii** Wils. ex Schimp.
 75.
- 7 **striatum** Hedw.
 1–6, 8–17, (18–20, 22, 23), 24–27, 32–37, (38), 40–50, 52, (55),
 56, 57, 60, (61–65), 67–73, 75, 77, 78, 80–83, 85–109. H 1–6,
 9, 12–14, 20, 21, 23, 31–33, 36–40. C.
- 8 **lyellii** Hook. & Tay.
 1–17, (18–20), 21–29, (30), 31–60, (61, 62), 64–83, 85–92,
 94–101, 105–107. H 1, 2, 6, 7, 11–14, 18–23, 30–33, 36, 38–40. C.
- 9 **rivulare** Turn.
 1–5, 9, 13, 14, 16, 33–37, (38), 39, 40, 42–45, 47–50, (55*),
 57–60, (62, 64), 65–73, 75–78, 80, 81, 84–93, 95, 97, 102, 103.
 H 1, 2, 4, 6, 20, 21, 31, 36, 38–40. [56]
- 10 **sprucei** Mont. ex Spruce
 3, 5, 8, 9, 11, 13, 14, 16, (17*, 19), 32–40, 42, 43, 55, 57, 58,
 (62, 64, 65), 68–70, 75–77, 80, 86, 88. H 2, 6, 38, 39. [61]
- 11 **schimperi** Hammar
 3, 26, 27, 32, 91. [17, 19, 36, 48, 52, 62, 64, 65, 75–77, 80, 83,
 85, 86, 88, 90, H 3, 19, 21, 22, 37]
- 12 **stramineum** Hornsch. ex Brid.
 (1), 3, 11–14, (16), 17, (19), 22–24, 33–37, (38), 39–44, 46–51,
 57, (58), 59, 60, (61), 62, (64, 65), 66–75, 77–83, 85–101, 105–
 108. H 1, 2, 10–12, 20, 38, 39. [4, 54]
- β **patens** (Bruch ex Brid.) Vent.
 (55), 58, 72, 75. [62, 64]
- 13 **pallens** Bruch ex Brid.
 (19), 59, (62), 64, (65), 66, 75, 80, 92, 97, 106. H 4, 16, 17, 20, 21. [2]
- 14 **tenellum** Bruch ex Brid.
 1–11, 13–17, (19), 22–28, (30), 32–37, (38), 43, 45, 48–50, 52,
 55, 57, 58, 60, (61, 62), 64, 65, 67, 69–71, 75–77, 81, 83, 85–91,
 97–101, 104, 105, 110. H 1–3, 5, 7, 8, 11, 12, 15, 20, 21, 32–34,
 36, 38, 40. C. [63, H 39]

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- 15 **pulchellum** Brunton
 1–9, 11–17, 22–25, 27, 28, (30), 33, 34, 36, 38, 40, 44, 45, 47–49,
 52, 54, 55, 57, 58, 60, (61), 62, (63), 64, (65), 66–75, 77, 78,
 80–93, 95, 96, 98–100, 104–112. H 2, 4, 5, 8–10, 14, 16, 19, 21,
 23, 25, 28, 30, 32–40. C.
- 16 **diaphanum** Brid.
 1–96, 98–101, 103–105, 108–112. H 1, 2, 4–6, 8, 9, 11, 12, 14–21,
 23, 25–28, 30–34, 36–40. C.
- 17 **obtusifolium** Brid.
 (22*, 23*), 24, 32–34, 36, 37, (38, 65), 66, 90, (91). [62]
99. **Ulota** Brid.
- 1 **phyllantha** Brid.
 1–6, 9–15, 17, 22, 23, 26, 27, 32, 33, 36, 41–50, 52, 54, 58, 60,
 (61), 62, (64), 66, 68–77, 80–112. H 1–40. C. [16, 35, 65]
 - 2 **vittata** Mitt.
 49, 75, 86, 97, 98, 104, 108, 110, 112. H 1, 2, 9, 14, 16, 18, 26,
 28–30, 33, 35, 39, 40. [70]
 - 3 **crispa** (Hedw.) Brid.
 1–17, (18, 19), 20, (21*), 22–28, (29), 30, 32–52, (53), 54, (55),
 56–60, (61), 62–77, 79–83, 85–92, 94–111. H 1–23, 25–28,
 30–40. C.
 - 4 **crispula** Brid.
 2, 3, 9, 13, 14, 22, 40, 48–50, (62, 64, 65), 69, 70, 72, 73, 75, 87, 88,
 90, 92, 95–97, 103, 105. H 1–3, 5, 13–16, 18, 23, 27–29, 32–40.
 - 5 **bruchii** Hornsch. ex Brid.
 1–6, 8–17, (20), 22–24, 27, 32–37, 40, 41, 43–51, 57, 58, 60, (61,
 62), 64–83, 85–111. H 1, 2, 4–10, 12, 14–16, 20, 27, 28, 31,
 34–36, 38–40. C. [38]
 - 6 **drummondii** (Hook. & Grev.) Brid.
 46–49, 60, 63, 65–68, 70, 72, 73, 75, 81–83, 85–98, 100, 101,
 104–109, 111. H 1, 2, 6, 7, 20, 33, 36, 39. [57, 62, 64, 69]
 - 7 **ludwigii** (Brid.) Brid.
 5, 11, (13), 27, 48, 86–88, 90, 92, 96–98, 105, 106. H 1, 2.
 - 8 **hutchinsiae** (Sm.) Hammar (*U. americana* (P. Beauv.) Limpr.,
 non Mitt.)
 2–4, 7, 44, 48, 49, (62, 65), 69, 70, 73, 86–92, 95–99, 101, 102,
 104–110, 112. H 1–7, 15, 16, 20, 21, 27, 32, 34, 35, 37, 38, 40.
 [27]
 - †9 **nicholsonii** Culm.
 H 27.

BRITISH MOSSES

100. **Fontinalis** Hedw.1 **antipyretica** Hedw.

1–112. H 1–4, 6–9, 11–21, 23–40. C.

β **gigantea** (Sull.) Sull.

11, (22*), 23, 38, 46, 48, 49, 57, 64, 70, 89, 92. H 9, 22, 25, 26, 36, 38–40. [2]

γ **gracilis** (Lindb.) Schimp.

1–3, 37, 39, 45, 46, 48, 50, 57, 59, 60, 63–65, 67–71, 74, 78, 80, 83, 86, 88–91, 96–98, 100, 103–105, 107, 108, 110, 112. H 1, 12, 21, 38, 39.

δ **cymbifolia** Nicholson

5, 7, 14, 21, 24, 31, 32, 57, 64.

†2 **dolosa** Card.

(30), 40.

3 **squamosa** Hedw.

1–5, 36, 37, 39, 40, 42–50, 57–60, 63–77, 80, 83, 86–92, 95–100, 102, 104, 105, 108, 110. H 1–6, 8, 12, 16, 20, 21, 27, 33, 36, 38, 40. [21, 31, 62]

β **curnowii** Card.

1, 58. [57]

4 **dixonii** Card.

48, 49, 57, 70, 97, 103, 110. H 33.

[5] **dalecarlica** B., S. & G.]

[3, 36, 60, 73. H 1]

*6 **hypnoides** Hartm. (*F. seriata* auct.)
(36*).101. **Climacium** Web. & Mohr1 **dendroides** (Hedw.) Web. & Mohr

(1), 3–9, 11–15, 17, 18, 20–29, (30), 31–112. H 1–6, 8, 9, 12–17, 19–40. [2, 16]

102. **Hedwigia** P. Beauv.1 **ciliata** (Hedw.) P. Beauv.

1–7, 13, 14, (16), 17, 22, 34–37, (38*), 39, 40, 42–50, 52, (55*), 57, (58, 62), 64–92, 94–110, 112. H 1–4, 6–8, 10–16, 19–22, 24–31, 33–40. C. [56]

2 **integrifolia** P. Beauv.

48, 49, 52, 69–73, 75, 82, 87, 92, 97, 98, 100, 104. H 1, 3, 20, 39.

BRITISH MOSSES

103. **Cryphaea** Mohr

- 1 **heteromalla** (Hedw.) Mohr
 1–17, (18, 19, 20*, 21*), 22–29, (30), 32–34, 36–40, 44–46, 48,
 49, 52, 54–58, (61, 62, 64), 66, 67, 69–75, 77, 80–83, 85, 87,
 90, 98, 99, 104, 110. H 2, 4–26, 28, 30–33, 35–40. C. [65, 68, 88]
- †2 **lamyana** (Mont.) C. Müll.
 (3, 4).

104. **Leucodon** Schwaegr.

- 1 **sciurooides** (Hedw.) Schwaegr.
 1–19, (20, 21*), 22–45, 47–50, 52–73, 76, 78–83, 85, 87–92, 94,
 96–98, 103, 105, 107, 108. H 3, 6, 7, 9, 11, 14, 16, 18–23, (39*).
- β **morensis** (Schwaegr.) De Not.
 9, 17, 73, 88, 90, 96. [2, 22]

105. **Antitrichia** Brid.

- 1 **curtipendula** (Hedw.) Brid.
 2–4, 6, 9, 10, 12, 13, (14), 15, (18*–23*), 25, 27, 32, 33, 35–37,
 39, 40, 42, 46–50, 52, (55*), 57, 60, (62), 64–66, 68–70, 72, 73,
 75, 77–83, 85–92, 94–99, 101, 103–110. H 1, 6, 12, 20, 21, 28,
 32–34, 36, 39, 40. [74]

106. **Pterogonium** Sm.

- 1 **gracile** (Hedw.) Sm.
 1–5, 7, 9, 11–14, (16), 17, 26, 34–37, 40–52, 60, 64–66, 68–75,
 79–83, 85–92, 96–105, 108, 110, 112. H 1–6, 16, 20, 21, 31, 33,
 35, 38, 39. C.

107. **Myurium** Schimp.

- 1 **hebridarum** Schimp.
 97, 103, 104, 108, 110.

108. **Leptodon** Mohr

- 1 **smithii** (Hedw.) Mohr
 1–15, 17, (18*), 22, (23*), 41, 45, 48, 49, 52, (70*), 71. H 3, 6. C.

109. **Neckera** Hedw.

- *1 **pennata** Hedw.
 (90*).

BRITISH MOSSES

- 2 **crispa** Hedw.
1, (2), 3–17, 22–24, 30, 33–37, 39–54, (55), 56, 57, 59–73, 75–77, 79–81, 83, 85–92, 94, 96–101, 103–106, 108–111. H 1–9, 15–17, 20, 25, 26, 28–31, 33–36, 38–40. C. [20, 21]
 - 3 **pumila** Hedw.
1–19, (20*), 22, 23, 27, 28, 32–36, 40, 41, 44, 45, 47–50, 52, (55), 56–58, 60, (62), 64, 65, 69, 70, 72, 73, 75, 77, 86–88, (90), 96–99, 104, 105. H 1, 2, 4–7, 9–12, 14–16, 18–23, 25, 30–33, 36, 38, 39. [37, 85]
 - 4 **complanata** (Hedw.) Hüben.
1–92, 94–111. H 1–40. C.
110. **Omalia** (Brid.) B., S. & G. (*Homalia* auct.)
- 1 **trichomanoides** (Hedw.) B., S. & G.
1–92, 96–100, 102, 106, 109, 111. H 3–6, 8–10, 13–16, 18–21, 26, 28, 29, 31, 33–40. C.
111. **Thamnium** B., S. & G.
- 1 **alopecurum** (Hedw.) B., S. & G.
1–27, 29–60, 62–92, 94–112. H 1–40. C. [61]
 - 2 **angustifolium** Holt
57. [H 39]
112. **Daltonia** Hook. & Tayl.
- 1 **splachnoides** (Sm.) Hook. & Tayl.
98, 105. H 1–3, 21.
113. **Hookeria** Sm.
- 1 **lucens** (Hedw.) Sm.
1–6, 8–11, 13–18, 27, 34–37, 39–52, (55*), 57–60, 62–78, 80–112. H 1–4, 6–16, 20, 21, 25, 27–29, 31–36, 38–40. C.
114. **Cyclodictyon** Mitt.
- 1 **laetevirens** (Hook. & Tayl.) Mitt.
(1*). H 1, 2, 4, 6.
115. **Myurella** B., S. & G.
- 1 **julacea** (Schwaegr.) B., S. & G.
49, 64, 65, 88–90, 94, 96–98, 101, 105. H 6, 16. [35, 69]

BRITISH MOSSES

- β **scabrifolia** Lindb.
88.
- 2 **tenerima** (Brid.) Lindb.
88, 90.
116. **Myrinia** Schimp.
- 1 **pulvinata** (Wahlenb.) Schimp.
9, 14, (30), 36, 40, 42, 58, (59, 61–63), 64, 73, 75, 77, 86, 88,
89. [65]
117. **Habrodon** Schimp.
- 1 **perpusillus** (De Not.) Lindb.
3, 4, 6, (65), 69, 70, 75, 86, 88, 90, 98–100.
118. **Leskea** Hedw.
- 1 **polycarpa** Hedw.
(1*), 2–9, 11–25, 27–50, 52–77, 80–91, 98, 99, 108. H 1, 2, 7, 8,
15, 19–21, 24, 25, 28–30, 32–40.
- †2 **nervosa** (Brid.) Myr.
88.
119. **Lescuraea** B., S. & G.
- †1 **saxicola** (B., S. & G.) Mol. (*L. mutabilis* (Brid.) Lindb. var.
saxicola (B., S. & G.) Hagen)
88.
120. **Pseudoleskea** B., S. & G.
- 1 **catenulata** (Brid.) B., S. & G.
49, 64–66, 69, 70, 86, 88–90, 94, 98, 108. [72, 91, 110]
- β **acuminata** (Culm.) Dix.
69, 88, 90, 96, 105, 108.
- 2 **patens** (Lindb.) Limpr.
88, 90, 96–98, 106. [49]
- 3 **incurvata** (Hedw.) Loeske
(80), 85, 87–90, 92, 96–98. [102]
121. **Heterocladium** B., S. & G.
- 1 **heteropterum** (Bruch ex Schwaegr.) B., S. & G.
1–6, 13–15, 34–37, 39–50, 52, 55, 57–60, 62–78, 80–92, 96–112.
H 1–7, 9, 13–16, 20, 21, 27, 31, 33–40. [16]

BRITISH MOSSES

 β **flaccidum** B., S. & G.

1–6, 9, 14–17, 34–37, 39, 40, 42–50, 52, 60, 63–65, 67–71, 73–75, 77, 81, 83, 86, 90, 97–103, 105, 106. H 1–3, 6, 16, 28, 33–35, 38–40. C.

- 2 **dimorphum** (Brid.) B., S. & G. (*H. squarrosulum* (Voit) Lindb.) 86, 88, 90, 96, 99.

122. **Anomodon** Hook. & Tayl.

- 1 **longifolius** (Brid.) Hartm.
(6), 34–36, (65), 66, 88, 90. [64]

- †2 **attenuatus** (Hedw.) Hüben.
88, (90)

- 3 **viticulosus** (Hedw.) Hook. & Tayl.
1–45, 47–52, 54–73, 75–77, 79–81, 83, 85–92, 94, 97, 98, 101, 105, 108. H 1–11, 13–26, 28–36, 38–40. C.

123. **Thuidium** B., S. & G.

- 1 **abietinum** (Hedw.) B., S. & G.

1, 8, 12, 13, 15, 19, 20, 23, 25–29, 32, 33, 41, 44, 45, 49, 52, 53, 55, 66, 75, 85, 88, 89, (90), 94. H 16, 21, 27, 28, 34, 35, 40. C. [17, 64, 87]

- 2 **hystricosum** Mitt.

7, 8, 11–13, 15–17, 20, 22–24, 30, 64, 65, 88. H 28, 34, 35, 40. [26]

- 3 **tamariscinum** (Hedw.) B., S. & G.

1–112. H 1–40. C.

- 4 **delicatulum** (Hedw.) Mitt.

2, 3, 5, 6, 11, 34, 42–50, 52, 60, 64, 65, 67, 69, 70, 72–76, 80, 85–88, 90, 91, 96–110. H 1–3, 9, 15, 16, 20, 21, 23, 27–30, 33–36, 38–40.

- 5 **philibertii** Limpr.

3–17, 19–30, 32–39, 42, 43, 46–52, 54, 55, 57, 60, 62–67, 69, 70, 72, 74, 75, 80, 82–90, 94, 97, 98, 100, 101, 104–106, 108–110. H 1, 9, 14, 16, 19, 28, 32, 34, 39, 40.

- 6 **recognitum** (Hedw.) Lindb.

34, 49, 50, 57, 60, 64, 69, 86, 88, 90, 92, 98, 105–108. H 9, 26, 40. [6, 36, 37, 65, 83, 89, 96, H 19, 29, 38]

Species 5 or 6 also in 59, 61, 73, 77, 91, H 3, 8, 31.

BRITISH MOSSES

124. **Helodium** Warnst.

- *1 **blandowii** (Web. & Mohr) Warnst.
(58*, 62*, 64*, 65*.)

125. **Cratoneuron** (Sull.) Spruce

- 1 **filicinum** (Hedw.) Spruce
1–112. H 1–40. C.

- β **curvicaule** (Jur.) Mönk.
88, 104.

- γ **fallax** (Brid.) Roth
1, 3, 6, 9, 10, 13–15, 22, 23, 29, 30, 32–41, 49, 53–55, 57, 62,
64–67, 73–75, 85, 86, 88, 99, 108, 109, 111. H 8, 18, 21, 37–39.
[2]

- 2 **commutatum** (Hedw.) Roth

- α **commutatum**
1–7, 9, 10, 12, (13), 14–16, 19, (20), 22, 23, 25–27, 29, (30),
32–112. H 1–9, 13–16, 18–21, 23, 26–29, 31–40. C. [17]

- β **falcatum** (Brid.) Mönk.
1, 3–5, 7–9, 11, 12, 14, 18, 22–28, 32–52, 54, 55, 57–83, 85–112.
H 1–3, 9, 12, 15–19, 21, 23, 26, 28–40. [2]

- γ **virescens** (Schimp.) Rich. & Wall.
32, 37, 39, 50, 57, 59–62, 64, 65, 67, 69, 108. [1, 66]

- δ **sulcatum** (Lindb.) Mönk.
88, (90), 97, 98, 103.

- 3 **decipiens** (De Not.) Loeske
61, (62), 88–92, 96.

126. **Campylium** (Sull.) Mitt.

- 1 **stellatum** (Hedw.) J. Lange & C. Jens.

1–9, 11–15, (16), 17–29, (30), 32, 34–52, 54–92, 94–112. H 1–4,
8–21, 23–40. C.

- 2 **protensum** (Brid.) Kindb.

2–6, 8–26, 29–37, 40–42, 44, 45, 48–53, 55, 57, 59–70, 72, 73,
75–78, 80–84, 86, 88–91, 94–102, 104–106, 108, 110, 111. H 1,
2, 7–9, 16, 18, 22, 28, 30–37, 39, 40.

- 3 **chrysophyllum** (Brid.) J. Lange

1–24, 26, 28–30, 32–42, 44, 45, 47–71, 75–77, 80–83, 85, 86,
88–90, 92, 96, 100, 105–110, 112. H 1, 2, 4, 5, 9, 11, 12, 14–21,
23, 25–40. C.

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- 4 **polygamum** (B., S. & G.) J. Lange & C. Jens.
1, 3–6, 9, 11, 13–15, 17, 23, 26, 27, 29, 37–41, 43–46, 48–50, 52, 54, 55, 58–62, 64, 68–70, 74, 75, 77, 80–83, 85, 86, 90, 91, 93, 95, 98, 100, 102, 105, 108, 109. H 3, 9, 12, 16, 19–21, 27, 28, 31–35, 37–40. [16, 87]
 - 5 **elodes** (Lindb.) Kindb.
1, 2, 4, 11, 12, 15, 17, 22, 26–30, 34, 38, 40, 44, 48–52, 54, (55), 59–62, 64, 65, 68, 69, 73, 80–82, 85, 87, 89, 90, 104, 105, 108–110, 112. H 2, 9, 15–21, 26, 30, 35–37, 40.
 - 6 **calcareum** Crundw. & Nyh. (*C. sommerfeltii* auct. eur.)
3, 7, 9–11, 13–17, 20, (21), 22–24, 29, 32–37, 40, 49–55, 57, 58, 61–65, 67, 69, 73, 75, 85, 86, 88–90, 94–96, 112. H 16, 21, 23, 26, 39, 40. [6]
 - 7 **halleri** (Hedw.) Lindb.
88, 97. [98]
127. **Leptodictyum** (Schimp.) Warnst.
- 1 **riparium** (Hedw.) Warnst.
1–30, 32–42, 44, 45, 48, 49, 51–73, 75–77, 80–90, 92, 95, 99, 102–106, 110, 111. H 1, 2, 4–6, 8, 11, 12, 14–16, 19–21, 23–25, 27, 29–33, 35–40. C. [50]
128. **Hygroamblystegium** Loeske
- 1 **tenax** (Hedw.) Jenn.
2–9, 11–17, 19, 20, (21), 22–25, 32–45, 47–50, 52, 54–70, 72, 73, 75, 77, 78, 80, 81, 83, 85–90, 94, 99, 106, 109, 111. H 1, 2, 5–9, 15, 20, 21, 25, 28, 33, 37–40. C.
 - 2 **fluviatile** (Hedw.) Loeske
2–5, 22, 33–37, (38), 39–45, 48–50, 53, 57–60, 62–70, 72–81, 83, 85–91, 95, 99, 103, 109. H (4), 5, 15, 20, 35, 38, 39. C.
129. **Amblystegium** B., S. & G.
- 1 **serpens** (Hedw.) B., S. & G.
1–106, 108–112. H 1–25, 27–40. C.
 - β **salinum** Carr.
1, 3–5, 41, 44–46, 48, 50, 52, 59, 60, 62, 68, 69, 73, 75, 82, 85, 90, 91, 105, 108–112. H 2, 9, 12, 16, 19, 21, 34, 35, 38–40.
 - 2 **juratzkanum** Schimp.
1–3, 5–7, 9–25, 28–42, 45, 48, 50, 51, 53–68, 71, 72, 77, 79–82, 85, 88–91, 94, 106, 110, 111. H 9, 21, 38, 39.

BRITISH MOSSES

- 3 **kochii** B., S. & G.
3, 7, 8, 11, 13, 14, 16, 17, 24, 27, 32, 36, 48–50, 54, 61–64, 85, 90. H 34, 39, 40.
- 4 **varium** (Hedw.) Lindb.
1–3, 5–11, 13–17, 19–27, 29, 30, 32, 33, 35–40, 45, 48–50, 52, 54–65, 67, 69, 70, 80, 89–91, 97, 99, 110. H 8, 15, 17, 24, 25, 30, 33, 35–40. C. [85, H 34]
- 5 **compactum** (C. Müll.) Aust.
34, 36, 37, 40, 57, 60, 63, 64, 67, 68, 72, 81, 83, 85, 90, 108. H 28.

130. **Amblystegiella** Loeske

- 1 **confervoides** (Brid.) Loeske
2, 3, 6, 16, 22, 23, 33–36, 39, 57, (62), 64, (65), 69, 70, 90. H 9, 16, 20, 21, 28. [H 40]
- 2 **sprucei** (Bruch) Loeske
34–37, 40, 42, 48, 57, 59, (62), 64–66, 69, 70, 72, 86, 88, 90, 92, 96, 97, 99, 108. H 21, 23, 28, 29. [63]

131. **Drepanocladus** (C. Müll.) Roth

- 1 **aduncus** (Hedw.) Warnst.
1–34, 36–41, 44, 45, 47–49, 51–65, 67–70, 73, 75–78, 80–92, 94–96, 98–102, 104, 105, 109–111. H 1–5, 8, 9, 12, 14–16, 20, 21, 23, 25, 28, 29, 34–40. C.
- 2 **sendtneri** (Schimp.) Warnst.
1–4, 11, 15, 27, (30), 37, (38), 39, 45, 48, 52, 54, 56–62, 64, 68, 70, 82, 85–87, 90, 104. H 26, 28, 31, 34–37, 39, 40. [69]
- β **wilsonii** (Schimp. ex Lor.) Warnst.
1, 4, (23*, 24*), 26, 27, 32, 35, 41, 52, 54, 58–65, 68, 82, 85, 90, 96, 100, 109, 110. H 9, 37. [28]
- 3 **lycopodioides** (Brid.) Warnst.
1, 3, 4, 11, 12, 25, 27, 28, 32, 41, 45, 52, 54, 59–66, (67), 68, 69, 85, 90, 96, 109–111. H 9, 17, 20, 21, 38–40. [2, 16, 70]
- 4 **fluitans** (Hedw.) Warnst. (8)
1–9, 11–22, 24–28, (29*), 30, 32–52, 54–92, 95–112. H 1–5, 7, 8, 12, 15, 16, 18–21, 23, 27–31, 33–40. C. [23]
- α **fluitans**
1–4, 8, 9, 11–18, 20, 22, 30, 35, 37, 39, 40, 42–49, 54, 55, 57–67, 69–72, 75, 77, 83, 86–90, 92, 96–99, 102, 104–111. H 3, 15, 16, 20, 21, 23, 27, 30, 33, 39.

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- β **falcatus** (B., S. & G.) Warnst.
 1, 3, 4, 11, 12, 17–19, 22, 30, 34, 35, 37, 40, 42, 44, 46, 48, 49, 55, 57–67, 69, 70, 72, 73, 75–77, 80, 83, 85–90, 96–98, 102, 104, 105, 109, 110, 112. H 32.
- 5 **exannulatus** (B., S. & G.) Warnst. (8)
 1–6, 8, 9, 11–22, 26–28, 30, 33–52, 54–73, 75–93, 95–112. H 1, 3, 6, 8, 12, 20, 21, 24, 27, 28, 30–40.
- α **exannulatus**
 1–5, 9, 11, 12, 17, 18, 20, 27, 30, 34, 35, 37, 41, 44–46, 48–50, 55, 57–67, 69, 70, 72, 73, 75–78, 83, 86–90, 92, 93, 96–99, 103–105, 108–111. H 3, 12, 20, 21, 24, 31, 33, 38, 39.
- β **rotae** (De Not.) Wynne
 1, 11, 12, 15, 18, 19, 27, 37, 38, 41, 44, 46, 48, 49, 52, 57, 59–66, 69, 70, 75, 77, 80, 83, 86, 88–90, 92, 95–97, 99, 100, 104–106, 108–110. H 39.
- 6 **revolvens** (Turn.) Warnst.
 α **revolvens**
 1–5, 8, 9, 11, 12, (13), 17, 25–28, (29*), 32, 35–54, 56–83, 85–112. H 1–3, 5–7, 9, 10, 13–16, 19–21, 23, 24, 26–40. [6, 22, 23]
- β **intermedius** (Lindb.) Rich. & Wall.
 3, 5, 6, 9, 11, 12, 22, 23, 25–27, (30), 32–34, 36–43, 46, 48–50, 52, 57–69, 71, 73, 75, 76, 78–80, 83, 85–96, 98–101, 104–110. H 1, 2, 9, 15–17, 19, 21–23, 25–28, 31–40. [45, 53]
- 7 **vernicosus** (Lindb.) Warnst.
 3, 11, (13), 27, 28, 37–40, 42–44, 46, 48, 49, 52, 57–65, 69, 70, 72, 73, 75, 76, 79, 82, 86–88, 90, 91, 98 or 99, 104, 106, 110. H 1, 2, 20, 21, 23, 27, 28, 34, 38–40. [5, 15, 35]
- 8 **uncinatus** (Hedw.) Warnst.
 1–3, 5, 6, 9, 11, 13, 14, 17, 19, 25–27, 33–37, 39–45, 47–52, 57–60, 62–112. H 1, 2, 4, 6–9, 14–17, 20, 21, 28, 31–40. [4, 21]

132. **Hygrohypnum** Lindb.

- 1 **ochraceum** (Turn. ex Wils.) Loeske
 1–5, 8, 35, 39, 41–50, 57–60, 62–81, 83–92, 94–100, 102, 104–109, 111, 112. H 1–3, 6, 9, 12, 16, 19–21, 31, 33–36, 38–40. [36]
- 2 **luridum** (Hedw.) Jenn.
 1–9, (11), 13, 14, 17, 19, 20, (21), 22–26, 32–53, 55–92, 94–105, 107–112. H 1–4, 7–10, 13, 14, 16, 18–23, 25–36, 38–40. [27, 28]
- β **subsphaericarpon** (Schleich. ex Brid.) C. Jens.
 36–39, 43, 48, 50, 58–60, 64–66, 69, 75, 83, 86–88, 104. H 2. [35, H 39]

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- 3 **eugyrium** (Schimp.) Broth.
4, 40, 42, 45, 48–50, 52, (62), 64–66, 68–70, 72–75, 78, 79, 81, 83, 85–92, 96–100, 103, 105, 108, 112. H 1–3, 6, 20, 31, 33–36, 38, 39.
- 4 **smithii** (Sw.) Broth.
88–90, 92, 97.
- 5 **molle** (Hedw.) Loeske
90, 92, 96, 97.
- 6 **dilatatum** (Wils. ex Schimp.) Loeske
49, (65), 69, 70, 88, 90–92, 96–98, 108, 112. H 1, 2. [72]

133. **Scorpidium** (Schimp.) Limpr.

- 1 **scorpioides** (Hedw.) Limpr.
1–3, 5–7, 9, 11, 12, (13), 17, 25–29, (30*), 35, 37, 40–52, 54, 57–77, 79–81, 83, 85–92, 94–112. H 1, 3, 4, 8–10, 14–21, 23, 25–27, 30–40.
- 2 **turgescens** (T. Jens.) Loeske
88. [48]

134. **Acrocladium** Mitt.

- 1 **stramineum** (Brid.) Rich. & Wall.
1–15, (16), 17–19, (20*), 21, 22, 24, 25, 27, 28, 30, 34–46, 48–50, 54, 57–78, 80–100, 104–112. H 1, 5, 14, 20, 21, 26–28, 30, 31, 33, 34, 36–40.
- 2 **trifarium** (Web. & Mohr) Rich. & Wall.
86–89, (90), 92, 96–99, 104–108. H 9.
- 3 **cordifolium** (Hedw.) Rich. & Wall.
1–6, 8–23, 25–28, 30–52, 54–78, 80, 81, 83–88, 90–92, 94–101, 105, 106, 108–112. H 1–5, 8, 12, 15, 16, 20, 21, 23–25, 27–34, 36–40.
- 4 **giganteum** (Schimp.) Rich. & Wall.
3, 5–7, 9, 11–14, 17, 21, 22, (23), 26–29, 32–37, (38), 39–46, 48, 49, 52, 54, 55, 58–70, 72–83, 85–92, 94–96, 98–101, 103, 104, 106, 108–112. H 9, 10, 15, 17, 19–23, 25–28, 31–40.
- 5 **sarmentosum** (Wahlenb.) Rich. & Wall.
1, 2, 3 or 4, 42, 44–49, 52, 59, 60, 64–66, 69–77, 85–92, 94–101, 103–112. H 1–3, 16, 20, 27, 34, 38, 39.
- 6 **cuspidatum** (Hedw.) Lindb.
1–112. H 1–40. C.

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135. **Isothecium** Brid.

- 1 **myurum** Brid.
1–52, 54–92, 94–112. H 1–40. C.
- 2 **myosuroides** Brid.
1–25, 27–52, 54, 55, 57–112. H 1–23, 25–40. C. [56]
 β **brachythecioides** (Dix.) C. Jens.
49, 72, 85, 88, 92, 93, 95–100, 104, 105, 108, 110–112. H 1, 2, 16, 27, 30, 33–36.
- 3 **holtii** Kindb.
2, 3, 42–44, 46–50, 64, 69, 70, 73, 74, 86–88, 96–98, 108, 109. H 1–3, 20, 38, 40. [4]
- 4 **striatum** (Spruce) Kindb.
3, 6, 9–14, 17, 34–36, 41, 45, 49, 50, 52, 57, 64, 69. H 1, 2, 5, 8, 9, 16, 17, 20.

136. **Scorpiurium** Schimp.

- 1 **circinatum** (Brid.) Fleisch. & Loeske
1–4, 6, 8–11, 13–15, (17), 34–36, 41, 44, 45, 52. H 1, 2, 5, 6, 8, 9, 15. C. [16]

137. **Camptothecium** B., S. & G.

- 1 **sericeum** (Hedw.) Kindb.
1–112. H 1–40. C.
- 2 **lutescens** (Hedw.) B., S. & G.
1–41, 43–73, 75, 77, 78, 80–94, 97, 98, 101–112. H 1, 2, 4–35, 37–40. C.
- 3 **nitens** (Hedw.) Schimp.
(26*), 27, 28, (37*), 40, 49, 58, (62), 64, (65), 66–70, 77–81, 83, 85, 88, 89, (90), 91, 96, 98. H 19, 27, 33. [1]

138. **Brachythecium** B., S. & G.

- 1 **albicans** (Hedw.) B., S. & G.
1–78, 80–112. H 1, 3–6, 12, 19, 21, 22, 27, 31, 34, 35, 37–40. C.
- 2 **glareosum** (Spruce) B., S. & G.
1–17, 19–30, 32–43, 48–50, 52–55, 57–70, 72, 75, 77, 79–83, 85, 86, 88–91, 94, 95, 97, 98, 100, 101, 104, 108. H 1–3, 6, 9, 16, 18–21, 28, 29, 31, 33, 38–40. C.
- 3 **erythrorrhizon** B., S. & G.
108.

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- 4 **salebrosum** (Web. & Mohr) B., S. & G.
 1, 5, 6, 8, 9, 11, 13–18, (20), 21–23, 27, 29, 32, 33, 36–39, 48,
 53–56, 58–60, 62–64, 66, 68–70, 77, 80, 82, 85, 88–92, 94, 97, 100,
 104, 107. H 1, 2, 4–6, 12, 16, 20, 21, 27, 31–33, 35, 37–40. [30]
- 5 **mildeanum** (Schimp.) Milde
 1, 3–6, 9–19, 22–24, 26, 29, 32, 34, 36–39, 41, 44–46, 48, 49,
 52–55, 57–60, 62, 68–70, 75, 81, 83, 85, 86, 88, 90–92, 97, 105,
 107–111. H 1, 16, 17, 21, 22, 27, 28, 34, 35, 40. [2]
- 6 **rutabulum** (Hedw.) B., S. & G.
 1–112. H 1–40. C.
- 7 **rivulare** B., S. & G.
 1–26, 29, 32–112. H 1–3, 5–13, 15, 16, 18–21, 23, 26–40. C.
- 8 **starkei** (Brid.) B., S. & G.
 88.
- 9 **glaciale** B., S. & G.
 88, 92, 96–98, 105, 106.
- 10 **reflexum** (Starke) B., S. & G.
 88, 89, (90), 92, 96, 97, 105.
- 11 **velutinum** (Hedw.) B., S. & G.
 1–73, 75–96, 99, 101, 102, 104, 106, 109. H 1, 2, 5–9, 12, 13, 16,
 20–24, 26–28, 30, 32–40. C.
- 12 **populeum** (Hedw.) B., S. & G.
 1–9, 11, 13–17, 19, 21–24, 27, 29, 32–55, 57–94, 96–107, 109–
 112. H 1, 2, 4–15, 19–22, 25, 27–30, 32–40. C.
- 13 **plumosum** (Hedw.) B., S. & G.
 1–6, 11, 13–16, 34–37, 39–92, 94–112. H 1–10, 12–16, 18, 20,
 21, 27–36, 38–40. C. [21, 27 or 28]
139. **Scleropodium** B., S. & G.
- 1 **caespitosum** (Wils.) B., S. & G.
 1–17, 19, 20, (21), 22, 23, 29, 32–40, 42, 43, 45–47, 52, 55, 57–59,
 61–65, 68, 70, 73, 81, (89 or 90). H 3, 5–7, 30, 33, 39. C.
- 2 **tourretii** (Brid.) L. F. Koch (*S. illecebrum* auct.)
 1–7, 9–20, 22, 23, 26–29, 33–40, 42, 43, 45, 47, 49, 50, 52, 56–58,
 71, 72, 88. H 1–7, 12, 21, 37, 39. C.
140. **Cirriphyllum** Grout
- 1 **piliferum** (Hedw.) Grout
 1–91, 93–101, 103–106, 108–111. H 1–7, 9, 11, 12, 14–16, 18–24,
 28–30, 33–40. C.

BRITISH MOSSES

- 2 **cirrosum** (Schwaegr.) Grout
88.
- 3 **crassinervium** (Tayl.) Loeske & Fleisch.
1–17, 19, 20, (21), 22–24, 29, 30, 32–45, 47–55, 57, 59–73,
75–77, 80–91, 98–101, 105, 106, 108, 111. H 1, 2, 4–12, 15–22,
24–30, 32, 33, 36, 38–40. C. [74]
141. **Eurhynchium** B., S. & G.
- 1 **striatum** (Hedw.) Schimp.
1–77, 79–112. H 1–40. C.
- 2 **meridionale** (Schimp.) De Not.
6, 9.
- 3 **pulchellum** (Hedw.) Jenn.
** α* **pulchellum**
(1*, 3*.)
- * β* **diversifolium** (B., S. & G.) C. Jens.
(90*.)
- γ **praecox** (Hedw.) C. Jens.
26.
- 4 **praelongum** (Hedw.) Hobk.
1–112. H 1–40. C.
- β **stokesii** (Turn.) Hobk.
1–6, 8–11, 15, 19, 27, 33–51, 55–58, 60–62, 64–70, 73, 74, 76,
81–83, 85, 86, 88, 90–92, 94–97, 99, 100, 103–105, 107–111.
H 1–3, 7, 13, 14, 17, 18, 20, 21, 25–34, 36–40. C.
- 5 **swartzii** (Turn.) Curn.
1–101, 103–112. H 1–9, 11–23, 25–30, 32–40. C.
- β **rigidum** (Boul.) Dix.
3, 6, 9–14, 22, 23, 28, 29, 33–36, 62, 64, 67, 68, 70, 72, 80, 81,
88, 90, 98, 105, 108. H 9, 34.
- 6 **schleicheri** (Hedw. f.) Lor.
1, 3–5, 7–17, 19, 20, 22–24, 27, 33–37, (38), 40, 42, 43, 60, 62,
64, 67, 68, 81, 108. [21]
- 7 **speciosum** (Brid.) Milde
1–3, 7, 8, 10, 11, 13–15, 17, 18, 20–23, 25, 28, 29, 32, 33, 36,
37, (38), 40–42, 44–46, 48, 49, 52, 54, 55, 58–64, (68), 69, 71,
73, 81, 90, 91, 102, 109. H 2, 4–6, 9, 20, 21, 36–40. C. [16, 34,
50]
- 8 **riparioides** (Hedw.) Rich.
1–27, 29–112. H 1–40. C.

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- 9 **alopecuroides** (Brid.) Rich. & Wall.
1–3, 5, 35, 36, 42, 46, 48–51, 57, 60, 69, 70, 90, 91, 104, 105, 108. H 2, 19–21, 35. [4]
- 10 **murale** (Hedw.) Milde
1, 3–26, 28–30, 32–46, 48–70, 72–77, 80–87, 89–92, 94, 95, 98, 99, 108, 111. H 2, 4, 5, 7–9, 12, 14, 18–23, 28, 33, 34, 36–40. C. [2]
- 11 **confertum** (Dicks.) Milde
1–73, 75–91, 95–103, 105, 106, 109–111. H 1–6, 8–14, 16–24, 27–40. C. [74]
- 12 **megapolitanum** (Bland.) Milde
1–4, 6, 7, 9–20, (21), 22–30, 37, 38, 41, 44–46, 52, 54, 56–60, 73, 85, (90). H 1, 21, 33. C. [34]
- 13 **rotundifolium** (Brid.) Milde
(6), 14, 33.

142. **Rhynchostegiella** (B., S. & G.) Limpr.

- 1 **pumila** (Wils.) E. F. Warb. (*R. pallidirostra* (Brid.) Loeske)
1–45, 47–52, 54–70, 72–77, 80, 81, 85, 86, 88–91, 94, 95, 97–100, 102–104, 108, 111. H 1–6, 8, 9, 11, 13–16, 19–21, 28, 29, 32–34, 37–40. C.
- 2 **curviseta** (Brid.) Limpr.
5–11, 13–17, 22, 23, 30, 32–38, 40, (62), 69. H 1, 29, 39. C.
- 3 **teesdalei** (Sm.) Limpr.
1–3, 5, 6, 9–12, 22, 23, 33–37, (38), 40, 42–45, 49–52, 57–62, 64–70, 72, 73, 75–77, 81, 85–91, 99, 100, 108, 111. H 3, 15, 16, 20, 21, 28, 29, 33, 34, 38–40.
- 4 **tenella** (Dicks.) Limpr.
1–25, 27, 29, 30, 32–50, 52–58, 60–66, 68–77, 81–83, 85, 88–91, 97–104, 106, 108. H 1, 2, 4–9, 11–23, 25, 27–36, 38–40. C.
 β **litorea** (De Not.) Rich. & Wall.
3, 11, 13–17, 21, 23, 29.

143. **Pterygynandrum** Hedw.

- 1 **filiforme** Hedw.
42, 49, 68–70, 73, 86, 88–90, 92–96, 98, 102, 105–108. H 20, 21, 38, 40. [64, 65, 67, 75]
 β **majus** De Not. (*P. filiforme* var. *decipiens* (Web. & Mohr) Limpr.)
49, 88–90, 96, 106. H 38. [75]

BRITISH MOSSES

144. **Orthothecium** B., S. & G.

- 1 **rufescens** (Brid.) B., S. & G.
49, 64, 65, 69, 88–90, 92, 96–99, 103–105, 108, 111. H 9, 28, 29.
[42, 56, 63, 87, 112, H 35]
 - 2 **intricatum** (Hartm.) B., S. & G.
1, 4, 6, 34–36, 42, 43, 48–51, 57, 59, 60, (62), 64–67, 69–73,
75–77, 79, 80, 83, 86–90, 92, 94, 96–99, 101, 103–108, 112.
H 1, 2, 7, 16, 28, 29, 33–35, 39. [63]
- β **abbreviatum** Dix.
64, 69, 70.

145. **Entodon** C. Müll.

- 1 **concinnus** (De Not.) Paris (*E. orthocarpus* (Brid.) Lindb.)
6–17, 19, 20, 22–24, 29, 30, 32–34, 36, 37, 39, 41, 49, 50, 52–55,
57, 59–62, 64–67, 69–71, 80, 85, 86, 88–90, 92, 98, 101, 103–106,
108–110. H 1, 6, 8, 9, 16, 19–21, 26–28, 30, 33–35, 38–40.

146. **Pseudoscleropodium** (Limpr.) Fleisch.

- 1 **purum** (Hedw.) Fleisch.
1–112. H 1–40. C.

147. **Pleurozium** Mitt.

- 1 **schreberi** (Brid.) Mitt.
1–112. H 1–40. C.

148. **Isopterygium** Mitt.

- 1 **seligeri** (Brid.) Dix. ex C. Jens.
13, 14, 16, 17, 19, 22–25, 27, 29, (61, 62). [65]
 - 2 **depressum** (Bruch) Mitt.
3–17, 20, 22–24, 33–38, 40–44, 48, 50–52, 56–60, 62–73, 75,
77, 81, 83–90, 97, 98, 108. H 2, 9, 16, 21, 28, 29, 33, 34, 38–40.
[61]
 - 3 **pulchellum** (Hedw.) Jaeg. & Sauerb.
3, 35, 36, 42, 44, 46–49, 51, 57, 59, 60, 62–73, 75–77, 79–83,
85–92, 95–101, 103–108, 110–112. H 1, 2, 7, 8, 16, 20, 21, 27,
28, 33–35, 38–40.
- β **nitidulum** (Wahlenb.) Broth.
49, 63–65, 69, 70, 86, 88, 92, 108.

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- 4 **elegans** (Hook.) Lindb.
1–25, 27, 28, 30, 32–52, 54–91, 93–112. H 1–3, 5–9, 11–14, 16, 19–21, 23, 25–40. C.
- 5 **muelleranum** (Schimp.) Lindb.
49, 88, 90, 97, 98, 103–108. H 1.

149. **Plagiothecium** B., S. & G. (9)

- 1 **latebricola** B., S. & G.
3, 5, 6, 10–25, 33–41, 45, 48, 54–59, 62–64, 81, 86, 87, 105.
[65, 88]
- 2 **striatellum** (Brid.) Lindb.
71, 86–90, 92, 94, 96–99, 105–109.
- 3 **piliferum** (Sw. ex Hartm.) B., S. & G.
88, 90.
- 4 **denticulatum** (Hedw.) B., S. & G.
α **denticulatum**
1, 2, 4–6, 8, 9, 11–14, 17–20, 22–25, 27–30, 32–35, 37–44, 47–50, 55, 57, 64, 66, 69, 70, 72, 73, 75–77, 83, 86–88, 90, 91, 93, 94, 96–100, 104–109. H 12, 33, 36–39.
- β **obtusifolium** (Turn.) Paris
2, 42, 48, 49, 64, 70, 72, 86, 88, 90, 92, 96–98, 100, 104–108.
H 7, 40.
- 5 **ruthei** Limpr.
9, 11, 12, 16, 17, 22, 23, 28, 29, 61, 104.
- 6 **curvifolium** Schlieph. ex Limpr.
6, 7, 9, 11–20, 22, 23, 25, 29, 30, 34, 35, 37–39, 50, 57, 64, 68–70, 73, 77, 86, 90, 92, 94, 96, 104. H 33. C.
- 7 **laetum** B., S. & G.
79, 86, 96, 99.
- 8 **platyphyllum** Mönk.
49, 70, 88–90, 96, 98, 104, 105, 107, 108. H 21.
- 9 **roeseanum** B., S. & G.
45, 49, 60, 62, 70, 87, 88, 90, 93, 95–97, 105–108.
- 10 **succulentum** (Wils.) Lindb.
1–6, 10, 11, 13, 14, 17, 20, 23–25, 28, 32, 34–37, 39–43, 45–50, 52, 57, 63–73, 75–80, 86, 87, 90, 91, 93–100, 103–112. H 1–3, 15, 16, 28, 33, 38–40.

BRITISH MOSSES

- 11 **sylvaticum** (Brid.) B., S. & G.
1, 2, 4–14, 16–26, 29, 31, 33–35, 37–41, 43–47, 49, 51, 52, 57, 63–67, 70–73, 75, 76, 80, 86–88, 90, 91, 94, 95, 97–100, 104, 105, 108–111. H 1, 2, 21, 25, 27, 36, 38. C.
- 12 **undulatum** (Hedw.) B., S. & G.
1–28, 30, 32, 34–112. H 1–14, 16, 20, 21, 24–40.
- 150. **Sematophyllum** Mitt.
 - 1 **demissum** (Wils.) Mitt.
48, (49, 70*). H 1–3.
 - 2 **novae-caesareae** (Aust.) Britt.
48, 70, 86, 97, 98, 103, 105. H 1–3.
- 151. **Pylaisia** B., S. & G.
 - 1 **polyantha** (Hedw.) B., S. & G.
6, 8, 13–15, 19, 22, 23, 33, 34, 36, 37, (38), 40, 49, 52, 54, 55, 57, 61, 62, 64–70, 73–75, 78, 80, 81, 83, 85, 88, 90, 91. H 1, 2, 5. C. [17, 35, H 38]
- 152. **Platygyrium** B., S. & G.
 - 1 **repens** (Brid.) B., S. & G.
22.
- 153. **Homomallium** (Schimp.) Loeske
 - 1 **incurvatum** (Brid.) Loeske
57, 64–66, 69–71, 75, 84, 87–89.
- 154. **Hypnum** Hedw.
 - 1 **cupressiforme** Hedw.
1–112. H 1–40. C.
 - β **resupinatum** (Wils.) Schimp.
1–93, 95–112. H 1–9, 12–19, 21–40. C.
 - γ **filiforme** Brid.
1–19, 22–24, 26–28, 30, 32–52, 55–58, 60–62, 64–77, 79–92, 94–110, 112. H 1–3, 5, 7 or 8, 9–14, 16–36, 38–40. C. [20]
 - δ **mamillatum** Brid.
1–4, 11, 33, 34, 36, 41, 42, 46, 48, 49, 60, 69, 70, 72, 75, 77, 80, 97–100, 105, 108. H 1, 2, 16, 29, 33, 38.
 - ϵ **ericetorum** B., S. & G.
1–20, 22–30, 32–112. H 1, 3–40. C.

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 ζ **tectorum** B., S. & G.

1–18, 20, 22–30, 32–52, 55, 57–78, 80–83, 85–88, 90–93, 95, 96, 99–101, 103–108, 110–112. H 1, 3, 5, 6, 8, 14, 15, 17, 19, 21, 22, 24, 27–31, 33, 34, 36, 38, 39. C.

 η **lacunosum** Brid.

1–4, 6, 9–17, 19, 22–27, 29, 30, 32–35, 37–40, 44–46, 48–50, 52, 54, 55, 57, 59, 63, 65–69, 71, 72, 81, 82, 85, 86, 88, 90, 94, 96, 103, 104, 106, 108–112. H 1, 2, 8, 9, 12, 16, 17, 20, 21, 23, 25–31, 33–35, 37–40. [62]

2 **imponens** Hedw.

2, 3, 8, 9, 11–15, 17, 22, 49, 59, 61, 62, 64, 67–70, 72, 77, 78, 80, 81, 83, 88, 98, 105. [4]

3 **revolutum** (Mitt.) Lindb.

88.

4 **hamulosum** B., S. & G.

48, 49, 64, 69, 70, 87–90, 92, 96–98, 104–108. [65, 72]

5 **callichroum** (Brid.) B., S. & G.

47–49, 67, 69, 70, 72, 73, 78, 79, 85–88, 90, 92, 96–108, 110. H 1, 2, 16, 27, 29, 35.

6 **bambergeri** Schimp.

88, 90, 96–98.

7 **lindbergii** Mitt. (*H. patientiae* Lindb. ex Milde)

1–9, 11–17, 20, 22–24, 30, 31, 34–53, 55, 57–60, 62–70, 72–91, 94, 95, 97–105. H 1–6, 8, 12, 14–16, 19, 20, 23, 27, 29, 31–34, 36–40.

155. **Ptilium** (Sull.) De Not.1 **crista-castrensis** (Hedw.) De Not.

26, 48, 49, (62, 64), 65, 69, 70, 72, 73, 78–81, 83, 85–92, 94–99, 101, 103–106, 108.

156. **Ctenidium** (Schimp.) Mitt.1 **molluscum** (Hedw.) Mitt.

1–92, 94–112. H 1–40. C.

 β **condensatum** (Schimp.) Britt.

5, 36, 37, 39, 40, 42, 46–50, 57, 59, 64–70, 72, 74, 78, 80, 81, 83, 85–88, 90–92, 96–100, 102–106, 108, 110–112. H 1–3, 6, 7, 27, 33, 36, 39. [35, 63, H 38]

 γ **fastigiatum** (Bosw. ex Hobk.) Braithw.

4, 39, 57, 62, 64, 65, 70, 88, 97, 103–105, 108. H 1, 2, 9, 28, 33.

 δ **robustum** Boul. ex Braithw.

49, 64, 69, 70, 72, 73, 86, 88, 90, 92, 98, 104, 110. H 1, 2, 6, 38, 39.

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- 2 **procerrimum** (Mol. ex De Not.) Lindb.
88, 96.

157. **Hyocomium** B., S. & G.

- 1 **flagellare** B., S. & G.
1–6, 11, 13–16, 34, 35, 39–50, (55), 57–60, 62–76, 80, 86–88,
90–92, 96–112. H 1–4, 6, 7, 11–14, 16, 18, 20, 21, 26–31, 33–40.

158. **Ptychodium** Schimp.

- 1 **plicatum** (Schleich. ex Web. & Mohr) Schimp.
88, 90, 97.

159. **Rhytidium** (Sull.) Kindb.

- 1 **rugosum** (Hedw.) Kindb.
26, 28, 29, 36, 39, 49, 57, 59, 60, 64–66, 69, 70, 85–90, 92, 93,
96, 98, 105, 106, 108. H 40. [3, 72, 99]

160. **Rhytidadelphus** (Lindb.) Warnst.

- 1 **triquetrus** (Hedw.) Warnst.
1–20, (21), 22–112. H 1–40. C.
2 **squarrosus** (Hedw.) Warnst.
1–112. H 1–40. C.
 β **calvescens** (Wils.) Mönk.
36–39, 44, 48, 57, 58, 64, 65, 69, 71, 88, 104.
3 **loreus** (Hedw.) Warnst.
1–17, 19, (20, 21*), 22, 23, 26, 27, 32–37, (38), 39, 40, 42–54,
(55), 56–60, 62–92, 94–112. H 1–3, 5–9, 11–21, 25–40. C. [29]

161. **Hylocomium** B., S. & G.

- 1 **brevirostre** (Brid.) B., S. & G.
1–6, 8, 9, 11–17, (20), 22–24, 32–37, (38), 39, 40, 42–44, 46–50,
55, 57–60, (62, 63), 64, (65), 67, 69, 70, 72, 73, 75–77, 86–90,
97–105, 107, 108, 110. H 1–10, 12–18, 20, 21, 23, 25–30, 32–36,
38–40. C. [83]
2 **pyrenaicum** (Spruce) Lindb.
88, 90, 92, 97, 98, 105–107.
3 **umbratum** (Hedw.) B., S. & G.
46, 48, 49, 69, 70, 72, 79, 86–90, 92, 96–101, 103–108. H 1, 2,
16, 27, 35, 39.
4 **splendens** (Hedw.) B., S. & G.
1–30, 32–112. H 1–40. C.

NOTES

- (1) The distribution of these species has been revised by E. M. Lobley and only vice-counties from which she has recently examined specimens are accepted.
- (2) In this genus records enclosed in brackets are vice-counties where the species is not known to have been seen since 1900, as the plants are of such sporadic occurrence that it is scarcely possible to state that they are extinct.
- (3) Except for *C. bruntonii* and *C. jenneri* the records are based on Crundwell (1960) and only specimens seen by him are recorded. Two old records of *C. polycarpum* of which no specimens have been seen are treated as doubtful records of *C. jenneri* to which species they are most likely to belong.
- (4) The separation and distribution of these two species follow unpublished work by P. W. Richards.
- (5) *P. polymorpha* has been restored in the light of unpublished work by E. V. Watson. Records in [] are not recently revised but are likely to be mainly correct.
- (6) These two species have been much confused with forms of *P. annotina*. Only records based on specimens recently seen by me are accepted.
- (7) Many of the records, particularly the Scottish ones, may belong to *M. rugicum* or *M. seligeri*.
- (8) The records of the varieties are all based on specimens seen by E. Lodge.
- (9) Records for species 4–11 have been revised according to Greene (1957) and Crundwell (1959). The aggregate is recorded for all vice-counties except H 10, 17, 18, 22, 23.

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1963 Moss Cat., Ed. 3, BBS, Warburg, E.F.

