

1926 Duncan Mosses

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H CENSIUS Catalogue

BRITISH MOSSES.

Descriptive Catalogue of British Mosses, including homologous

and List of Species of Foreign

(3rd EDITION)

The British Biological Society

London: Printed by W. H. Foulis, 1904.

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A Census Catalogue

OF

BRITISH MOSESSES,

WITH

List of the Botanical Vice-Counties and their boundaries,
and Lists of Sources of Records

(*2nd EDITION*),

COMPILED FOR

The British Bryological Society

(FORMERLY THE MOSS EXCHANGE CLUB)

BY

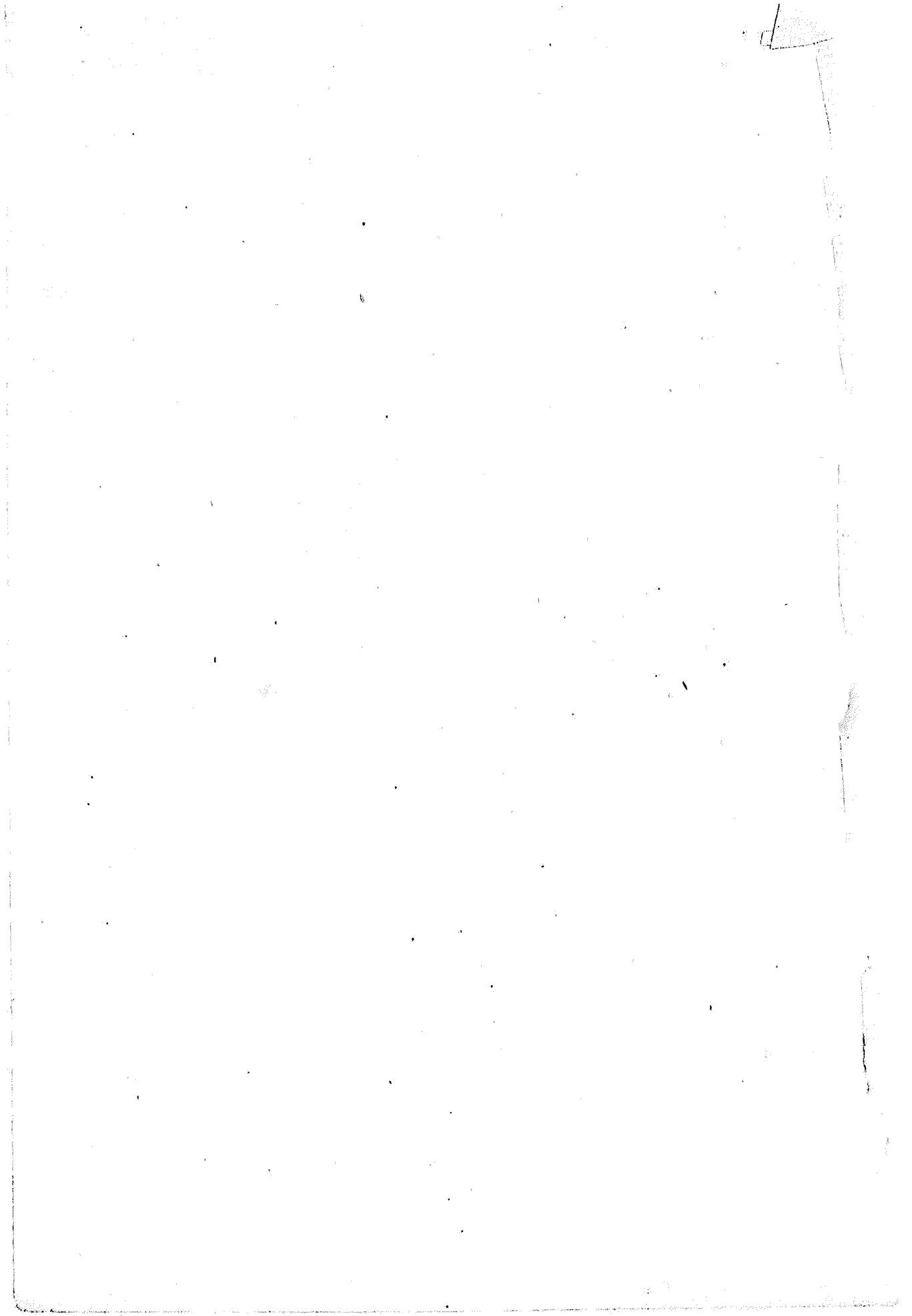
J. B. Duncan.

Showing the comparative frequency of each Species and Variety
by means of a Census, indicating its distribution through the
112 Watsonian Vice-County Divisions of Great Britain, and
R. Lloyd Praeger's 40 County Divisions of Ireland,
also the Channel Islands.

Berwick-on-Tweed:

MARTIN'S PRINTING WORKS, LTD., 64 AND 66 WEST STREET.

1926.



EXPLANATORY NOTES BY H. N. DIXON,
M.A., F.L.S.

The First Edition of this Catalogue, issued in 1907, having been for some time out of print, it has been decided by the British Bryological Society to issue a new one.

Mr. J. B. Duncan, 6 Summerhill Terrace, Berwick-on-Tweed, was asked to undertake the preparation, and he has for the past two or three years been engaged in the necessary preliminary work.

The Lists of Sources of New Records will give some idea of the amount of new material that has been gone through and incorporated in this Edition.

It has not been thought necessary to repeat the lists of sources of the earlier records, as these can be consulted in the First Edition.

The arrangement follows that of the Third Edition of *The Student's Handbook of British Mosses* by Dixon and Jameson (1924).

A Supplementary List of the Sphagna, arranged on the Warnstorffian system, has been drawn up by Mr. W. R. Sherrin, v.c. records being given so far as he himself has verified them.

In the Explanatory Notes to the First Edition the hope was expressed that by the aid of that Catalogue "in the course of a few years it may be possible to compile a very fairly accurate and complete statement of Moss Distribution in Britain."

This hope has scarcely been realized.

There are still several Vice-Counties, notably in Scotland, with a few in Wales, and several of the Irish Provinces, for which it is certain that the present Catalogue does not give anything like a complete List of Mosses.

Nor has there been any systematic attempt to deal with the records indicated by round brackets as "doubtful" in the First Edition.

Much remains to be done in this direction.

Round brackets, thus (15), as in the former edition, indicate that a certain amount of doubt attaches to the record, for one reason or another, and that it is desirable to have it confirmed.

Square brackets, thus [15], in this edition, in the case of a few rare species, indicate that the record is an old one, and has not been confirmed for many years, and the plant is presumably extinct.

In some instances a reliable record for a County does not specify the locality, and the V.C. is therefore uncertain ; these are entered thus : 15 or 16.

As in the previous edition, the species and sub-species are numbered consecutively without distinction, but the sub-species (of the Handbook) are indicated by different type and by being set back in the column.

It is earnestly desired that any errors may be pointed out, and any information or criticism may be sent to the Editor, and that Bryologists will endeavour to fill the remaining gaps and verify doubtful records in their own localities.

COUNTY and VICE-COUNTY DIVISIONS OF THE BRITISH ISLES (FOR BIOLOGICAL PURPOSES).

Hewett C. Watson's 112 Divisions of Great Britain (1852).

[See Introduction to "Topographical Botany," Edition II.
(Baker & Newbould), 1883].

ENGLAND AND WALES.

C. Channel Islands.

I. Peninsula Province.	VI. South Wales Province.
1 West Cornwall with Scilly.	41 Glamorgan.
2 East Cornwall.	42 Brecon.
3 South Devon.	43 Radnor.
4 North Devon.	44 Carmarthen.
5 South Somerset.	45 Pembrokeshire.
6 North Somerset.	46 Cardigan.
II. Channel Province.	VII. North Wales Province.
7 North Wilts.	47 Montgomery.
8 South Wilts.	48 Merioneth.
9 Dorset.	49 Carnarvon.
10 Isle of Wight.	50 Denbigh.
11 South Hants.	51 Flint.
12 North Hants.	52 Anglesey.
13 West Sussex.	VIII. Trent Province.
14 East Sussex.	53 South Lincoln.
III. Thames Province.	54 North Lincoln.
15 East Kent.	55 Leicester with Rutland.
16 West Kent.	56 Nottingham.
17 Surrey.	57 Derby.
18 South Essex.	IX. Mersey Province.
19 North Essex.	58 Cheshire.
20 Herts.	59 South Lancashire.
21 Middlesex.	60 West (<i>i.e.</i> Mid) Lancashire.
22 Berks.	X. Humber Province.
23 Oxford.	61 South east York.
24 Bucks.	62 North-east York.
IV. Ouse Province.	63 South-west York.
25 East Suffolk.	64 Mid-west York.
26 West Suffolk.	65 North-west York.
27 East Norfolk.	XI. Tyne Province.
28 West Norfolk.	66 Durham.
29 Cambridge.	67 Northumberland, South.
30 Bedford.	68 Cheviotland, or Northumberland, North.
31 Hunts.	XII. Lakes Province.
32 Northampton.	69 Westmorland with North Lancashire.
V. Severn Province.	70 Cumberland.
33 East Gloucester.	71 Isle of Man.
34 West Gloucester.	
35 Monmouth.	
36 Hereford.	
37 Worcester.	
38 Warwick.	
39 Stafford.	
40 Shropshire.	

SCOTLAND.

XIII. West Lowlands Province.

- 72 Dumfries.
73 Kirkcudbright.
74 Wigtown.
75 Ayr.
76 Renfrew.
77 Lanark.

XIV. East Lowlands Province.

- 78 Peebles.
79 Selkirk.
80 Roxburgh.
81 Berwick.
82 Haddington.
83 Edinburgh.
84 Linlithgow.

XV. East Highlands Province.

- 85 Fife with Kinross.
86 Stirling.
87 West Perth with Clackmannan.
88 Mid Perth.
89 East Perth.
90 Forfar.
91 Kincardine.
92 South Aberdeen.
93 North Aberdeen.

- 94 Banff.
95 Elgin or Moray.
96 Easterness (East Inverness with Nairn).

XVI. West Highlands Province.

- 97 Westerness (West Inverness).
98 (Main) Argyll
99 Dumbarton.
100 Clyde Isles.
101 Cantyre.
102 South Ebudes (Islay, &c.).
103 Mid Ebudes (Mull, &c.).
104 North Ebudes (Skye, &c.).

XVII. North Highlands Province.

- 105 West Ross.
106 East Ross.
107 East Sutherland.
108 West Sutherland.
109 Caithness.

XVIII. North Isles Province.

- 110 Outer Hebrides.
111 Orkneys.
112 Shetlands.

R. Lloyd Praeger's 40 County Divisions of Ireland (1901).

(See "Journal of Botany" and "Irish Naturalist" of February, 1896, and "Irish Topographical Botany," 1901).

IRELAND.

- | | | |
|--------------------------|-----------------------|------------------|
| 1 South Kerry. | 14 Queen's County. | 27 West Mayo. |
| 2 North Kerry. | 15 South-east Galway. | 28 Sligo. |
| 3 West Cork. | 16 West Galway. | 29 Leitrim. |
| 4 Mid Cork. | 17 North-east Galway. | 30 Cavan. |
| 5 East Cork. | 18 King's County. | 31 Louth. |
| 6 Waterford. | 19 Kildare. | 32 Monaghan. |
| 7 South Tipperary. | 20 Wicklow. | 33 Fermanagh. |
| 8 Limerick. | 21 Dublin. | 34 East Donegal. |
| 9 Clare with Aran Isles. | 22 Meath. | 35 West Donegal. |
| 10 North Tipperary. | 23 Westmeath. | 36 Tyrone. |
| 11 Kilkenny. | 24 Longford. | 37 Armagh. |
| 12 Wexford. | 25 Roscommon. | 38 Down. |
| 13 Carlow. | 26 East Mayo. | 39 Antrim. |
| | | 40 Derry. |

Particulars of Division of the Larger Counties.

The following are particulars of the lines of separation which are taken to divide the Larger Counties into two or more Vice-Counties. These particulars are, in the case of Great Britain, taken from the fourth volume, pp. 139-142, of the late Hewett C. Watson's "Cybele Britannica" (1859). In the case of Ireland, they are taken (1) partly from a paper by the late Charles C. Babington, M.A., F.R.S., read before the Dublin University Zoological and Botanical Association, in February, 1859, entitled "Hints towards a 'Cybele Hibernica'" (see Nat. Hist. Review, vi. part 2, Dublin, 1859), and (2) partly from a paper by R. Lloyd Praeger, B.A., B.E., M.R.I.A., entitled "On the Botanical Sub-division of Ireland," published simultaneously in the "Journal of Botany" (p. 57) and in the "Irish Naturalist" (p. 29) of February, 1896, and again in "Irish Topographical Botany," 1901.

ENGLAND AND WALES.

West Cornwall (1) is separated from *East Cornwall* (2) by a line traced along the high road from Truro, through St. Columb to the inland extremity of Padstow Creek, the salt water at the two ends of this line completing the division; *South Devon* (3) from *North Devon* (4) by a line following the watershed that separates the streams flowing to the English Channel, from those flowing to the Bristol Channel; *South Somerset* (5) from *North Somerset* (6) by a line along the river Parret from Bridgwater to Ilchester, thence curving round to the northern extremity of Dorset; *North Wilts* (7) from *South Wilts* (8) by a line drawn along the Kennet and Avon Canal; *South Hants* (11) from *North Hants* (12) 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) from *East Sussex* (14) by a line traced along the high road from Brighton to Cuckfield, thence by Crawley to the borders of Surrey; *East Kent* (15) from *West Kent* (16) by the river Medway and its tributaries, nearly up to Staplehurst, thence by the high road through Cranbrook to the border of Sussex near Hawkhurst; *South Essex* (18) from *North Essex* (19) by the high road from Waltham and Epping to Chelmsford, thence by the Blackwater river to the coast; *East Suffolk* (25) from *West Suffolk* (26), and *East Norfolk* (27) from *West Norfolk* (28) by the meridian of 1° east longitude; *East Gloucester* (33) from *West Gloucester* (34) by the Thames and Severn Canal, and by the river Severn from the point of junction up to Tewkesbury; *South Lincoln* (53) from *North Lincoln* (54) by the Witham river from Boston to Lincoln, thence by the Foss Dyke to the Border of Nottingham; *South Lancashire* (59) from *West (i.e. Mid) Lancashire* (60) by the river Ribble; that more northerly (and detached) portion of the county situate to the north-west of Morecambe Bay, is taken with the Lakes Province and treated as a part of Westmorland.

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 York* (61) is separated from *North-east York* (62) by the political line which divides the East Riding from the rest of the county; *South-west York* (63) is separated from *Mid-west York* (64) by the Leeds and Liverpool Canal, and by the river Aire below Leeds. *Mid-west York* (64) is separated from *North-west York* (65) 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. *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.

Note.—The boundaries of the several counties are those employed previous to the readjustment completed in some in 1889.

SCOTLAND.

East Perth (89) is cut off from *Mid Perth* (88) by the rivers Garry and Tay. *Mid Perth* (88) is separated from *West Perth* (87) by a line traced over the high ground or water-shed 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; [When Perthshire or Stirlingshire material has been gathered in the Loch Lomond drainage area, it would be well to state this]. *South Aberdeen* (92) is separated from *North Aberdeen* (93) by lines traced along the water-sheds eastward and westward of Inverurie. Inverness is divided by the line of water-shed between the eastern and western sides of Scotland continued along Loch Ericht to the border of Perthshire. The easterly portion of the county, with the addition of Nairnshire, forms the large vice-county of *Easterness* (96). The remainder of Inverness, the waters of which drain to the western coast, along with the detached portion of Argyll situated to the north-west of Loch Linnhe, makes up the vice-county of *Westerness* (97); [In "Top. Bot." this definition of *Westerness* is adhered to in the text, but the map unfortunately includes in *Westerness* the portion of Argyll, south of Loch Linnhe, that lies between Loch Etive and Loch Leven, and has led to some erroneous records in past years]. *Main Argyll* (98) and *Cantyre* (101) are separated by the Crinan Canal. The *Clyde Isles* (100) include Bute, Arran, the Cumbraes and the islets Inchmarnock, Holy Isle and Pladda; (Ailsa Craig goes with Ayrshire). *South Ebudes* (102) include Islay, Jura and Colonsay with adjacent islets. *Mid Ebudes* (103) consist of Mull, Coll and Tiree, with their adjacent islets. *North Ebudes* (104) include Skye, Rum, Eigg and Canna, with their adjacent islets. *East Ross* (106) is separated from *West Ross* (105) by a line traced along the water-shed between the eastern and western coasts. The fragmentary county of Cromarty belongs to East Ross or West Ross according to the geographical position of its detached fragments. *East Sutherland* (107) is separated from *West Sutherland* (108) by the line of water-shed, this being so traced as to divide the south-eastern portion of the county from that draining to the west and north; [As "*West Sutherland*" includes two well-defined areas, one draining to the north, the other to the west, it should be indicated in all new records, to which of these they refer]. The three groups of North Isles, viz., the *Outer Hebrides* (110), *Orkneys* (111), and *Shetlands* (112) are treated as counties and numbered accordingly.

Note.—The boundaries of the several counties are those employed previous to the readjustment completed in some in 1892.

IRELAND.

South Kerry (1) is separated from *North Kerry* (2) by a line following the southern and western boundaries of the baronies of Magunihy and Trughanaemy (R. Ll. Praeger); *West Cork* (3) from *Mid Cork* (4) by a line drawn from Millstreet through Macroom to Bandon, the boundary being completed by the Killarney Railway in the north, and the Bandon River in the south (Rev. Thos. Allin, 1883); *Mid Cork* (4) from *East Cork* (5) by the Great Southern and Western Railway from Charleville to Cork, thence by the western shore of Cork harbour to the ocean (R. A. Phillips and R. Ll. Praeger); *South Tipperary* (7) from *North Tipperary* (10) by the Great Southern and Western Railway (C. C. Babington); *West Galway* (Connemara) (16) from *North-east Galway* (17) by Lough Corrib and the River Corrib (C. C. Babington); *South-east Galway* (15) from *North-east Galway* (17) by the Midland Great Western from Oranmore to Ballinasloe (R. Ll. Praeger); *East Mayo* (26) from *West Mayo* (27) by Lough Mask and the course of the river Ayle, thence to Castlebar by the Tuam road, and down the Clydagh River, Lough Conn, and the Moy River to the sea (C. C. Babington); *East Donegal* (34) from *West Donegal* (35) by a line dividing the baronies of Raphoe and Boylagh and those of Inishowen and Kilmacrennan (R. Ll. Praeger).

SOURCES OF ADDITIONAL RECORDS.

GENERAL.

- Student's Handbook of Brit. Mosses*, 1924, H. N. Dixon & H. G. Jameson.
Moss Exchange Club Reports, 1907-1922.
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Census Report on Mosses of Ireland, Proc. R.I.A., 1915, H. W. Lett.
Irish Sphagna, *Irish Nat.*, W. A. Lee.
Ireland, many add. and corrections, W. N. Tetley.
Herb. H. N. Dixon, many add. to V.C. records.
Herb. E. M. Holmes, in Bot. School, Cambridge—Comm. P. G. M. Rhodes.
Marrat's Collection of Brit. Mosses, J. of B., 1910, J. A. Wheldon.
Herb. (Sphagna), W. R. Sherrin.
Sphagna, Miss E. Armitage, J. of B., 1910, for V.C. 22, 43, 69, 95, 96.
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V.C. RECORDS—ENGLAND & WALES.

- V.C. 1 & 2, Cornwall. *Mosses of Cornwall*—J. of B., 1919. F. Rilstone and MS. List.
- V.C. 3 & 4, Devon. *Devon Mosses* (V.C. 3), C. E. Larter, 1908—*Mosses of Silverton* (V.C. 3 & 4), G. B. Savery, 1910.
- V.C. 5 & 6, Somerset. *Mosses of Somerset*, Som. Arch. & Nat. Hist. Soc., 1912, W. Watson.
- V.C. 7 & 8, Wiltshire. *Mosses of E. Wiltshire*, J. of B., 1918, C. P. Hurst. *East Wiltshire Mosses*, Wilts. Arch. & Nat. Hist. Magazine, Vol. 39-41, C. P. Hurst.
- V.C. 10, Isle of Wight. Add. MS., H. H. Knight.
- V.C. 11 & 12, Hampshire. *Moss Flora of Hampshire and Isle of Wight*, Hants. F. Club & Arch. Soc., 1907, A. B. Jackson.
- V.C. 13 & 14, Sussex. *Mosses of Sussex*, Hastings & E. Sussex Nat., 1908, W. E. Nicholson—MS. add., W. E. Nicholson.
- V.C. 17, Surrey. Add., W. R. Sherrin.
- V.C. 18 & 19, Essex. Add., W. R. Sherrin—Add., St. John Marriott.
- V.C. 21, Middlesex. Several add., P. W. M. Richards.
- V.C. 23, Oxford. *Mosses of Oxfordshire*, 1922, G. C. Druce—MS. add., C. H. Binstead—Add., H. C. Napier.
- V.C. 24, Bucks. Several add., P. W. M. Richards.
- V.C. 25 & 26, Suffolk. Add. (V.C. 25), C. A. Cheetham—Add. (V.C. 25 & 26), A. Mayfield—V.C. 25, *Mosses of a Boulder Clay Area*, Ipswich & Dist. F. Club, 1913, A. Mayfield.
- V.C. 27 & 28, Norfolk. *Supp'y. List of Norfolk Mosses*, Trans. Norfolk & Norwich Nats'. Soc., 1910, W. H. Burrell.
- V.C. 33 & 34, Gloucester. *Mosses of Gloucester*, Proc. Cotteswold Nat. F.C., 1914, H. H. Knight—MS. add. and corrections, H. H. Knight.
- V.C. 35, Monmouth. 24 add., H. H. Knight and J. B. Duncan, 1911—*Herb.* A. Ley, at Birmingham University.
- V.C. 36, Hereford. Add. and corrections, Miss E. Armitage—Add., C. H. Binstead.
- V.C. 37, Worcester. Add. and corrections, J. B. Duncan and H. H. Knight.
- V.C. 38, Warwick. Add., J. B. Duncan and A. J. Dodd.
- V.C. 40, Shropshire. Many add., J. B. Duncan.
- V.C. 41, Glamorgan. Add., H. H. Knight—Add., P. W. M. Richards.

- V.C. 42, Brecon.
 " 43, Radnor.
 " 44, Carmarthen. } MS., add., H. H. Knight.
- V.C. 45, Pembroke. Add., C. H. Binstead.
 V.C. 46, Cardigan. Add., R. Jackett.
 V.C. 48, Merioneth.
 " 49, Carnarvon. } Numerous add., D. A. Jones. See Reports.
- V.C. 50, Denbigh. *Mosses and Hepaticas of Denbigh*, Naturalist, 1917,
 D. A. Jones.
- V.C. 51, Flint. *Notes on Flora of Flint*, J. of B., 1908, A. A. Dallman.
- V.C. 52, Anglesey. *Mosses and Hep.*, S.W. of Anglesey, Lancs. & Cheshire
 Nat., 1917, D. A. Jones.
- V.C. 53 & 54, Lincoln. Add. (V.C. 54), J. J. Marshall—Add. (V.C. 54),
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- V.C. 55, Leicester. *Catalogue of Leicestershire Mosses and Hepaticas*,
 A. R. Horwood, circa. 1905.
- V.C. 58, Cheshire. *Muscineae of the Wirral*, Lancs. & Ches. Nat., 1921,
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- V.C. 59 & 60, Lancashire. *Flora of West Lancashire* (V.C. 60), 1907,
 J. A. Wheldon and A. Wilson.
- V.C. 61, 62, 63, 64, 65, Yorkshire. *Supplement to West Riding Flora*
 (V.C. 63, 64), 1908, W. Ingham—*New Records for Moss Flora of Durham and*
Yorks., Naturalist, 1915, R. Barnes—Add., V.C. 61, J. J. Marshall.
- V.C. 66, Durham. *New Records Moss Flora of Durham*, Naturalist, 1915,
 R. Barnes.
- V.C. 67 & 68, Northumberland. *Flora of Northumberland and Durham*,
 Trans. Northd., Durham, &c., Nat. Hist. Soc., 1831, and addenda, 1836,
 Winch—*Mosses and Hepaticas of North Northumberland and Berwickshire*, Hist.
Berwickshire Nats' Club, 1924-1925, J. B. Duncan—Add., V.C. 67, E. H.
 Stevens.
- V.C. 69, Westmorland with N. Lancashire. Add., C. H. Binstead.
- V.C. 70, Cumberland. Add., J. B. Duncan, S. J. Owen, and J. C. Wilson,
 1910—Add., H. C. Napier.
- V.C. 71, Isle of Man. *Some add. to the Manx Sphagna*, Lancs. Nat., 1910,
 J. A. Wheldon.

SCOTLAND.

- J. R. Lee—V.C. 75, 76, 77, 86, 87, 88, 98, 99, 100, 103.
 J. McAndrew—V.C. 82, 83, 84, 101.
 Wm. Evans—V.C. 78, 79, 82, 83, 110.
 Rev. D. Lillie—V.C. 107, 108, 109, 111.
 H. H. Knight and J. B. Duncan—V.C. 88, 96, 97, 98.
 J. A. Wheldon and A. Wilson—V.C. 94, 96.
 C. McIntosh comm. R. H. Meldrum—V.C. 96, 106.
 Rev. G. Birnie Do. —V.C. 94, 95.
 J. B. Duncan—V.C. 72, 81. W. G. Travis—V.C. 100.
 J. R. Simpson—V.C. 79. P. Ewing—V.C. 101.
 E. A. Richards—V.C. 92. J. Grant—V.C. 111.
 L. B. C. Trotter—V.C. 111.

IRELAND.

- W. N. Tetley—V.C. 11, 13, 14, 18, 25, 26, 27, 28, 29, 30, 31, 33, 35.
 A. J. Dodd—V.C. 3. Miss P. C. M. French—V.C. 5.
 J. B. Duncan—V.C. 23. W. R. Megaw—V.C. 33, 38, 39, 40,
 W. E. Nicholson, H. H. Knight, and J. B. Duncan—V.C. 2, 16.

Census Catalogue of British Mosses.

I. SPHAGNACEÆ.

1. Sphagnum Dill.

A. CYMBIFOLIA.

- 1 *cymbifolium* *Ehrh.* 1—6, 8—10, 19, 21—28, 30, 32, 34—41, 43, 45—52, 54—83, 85—92, 95—112. I. 1—4, 6—21, 24—29, 31—35, 37—39.
 β *squarrosum* *Nees & Hornsch.* 1, 2, 6, 9, 14, 16, 24, 25, 27, 30, 36, 38—41, 48, 54, 57—60, 63, 67, 73, 85, 86, 88. I. 20, 37.
 γ *congestum* *Schp.* 1, 2, 4, 8, 11, 14, 16, 36, 38, 59—62, 64, 69, 70, 85, 86, 88, 111. I. 1, 16, 38.
2 *medium* *Limpf.* 9, 11, 14—17, 22, 24, 27, 40, 48, 58, 60, 62, 65, 66, 68—70, 72, 73, 75, 77, 79, 83, 86, 88, 96, 97, 102, 109, 111. I. 3, 8—10, 18, 25, 30, 33—35, 37, 38.
3 *papillosum* *Lindb.* 1—6, 9—14, 16, 17, 22, 24, 34—42, 44—51, 53—55, 57—66, 68—73, 75—78, 83, 85, 86, 88, 90, 91, 95—103, 105, 106, 108—112. I. 1, 3, 7—14, 16—18, 21, 23—33, 35—39.
 β *confertum* *Lindb.* 1—3, 5—9, 26, 27, 38—41, 48—50, 60—62, 65, 66, 69—71, 77, 86, 88, 95—97, 99, (106), 108, (110). I. 1, 17, 20, 34, 38, 39.
 γ *stenophyllum* *Lindb.* 1, 39, 70, 73.
4 *Austini* *Sull.* (40), 48, 62, 65, 66, 69, 70, 73, 83, 86, 88, 106, 107, 109, 110. I. 17, 18, 39.
 β *imbricatum* *Lindb.* 69, 73, 86, 109, 110. I. 17, 18.

B. TRUNCATA.

- 5 *rigidum* *Schp.* 1—6, 9, 11—14, 16, 17, 22, 24, 27, 45, 48, 49, 54, 60—62, 66, 68—73, 75—79, 83, 85—88, 96—99, 101, 102, 105, 109. I. 1, 2, 14, 16, 17, 20, 21, 27, 30—35, 37—39.
 β *compactum* *Schp.* 1—6, 9—14, 16, 17, 22, 24, 27, 45, 48, 49, 54, 60—62, 66, 69—73, 75—79, 83, 85—88, 90—92, 94—97, 103—105, 108—111. I. 1, 2, 16, 20, 21, 27, 28, 31—39.
 γ *squarrosum* *Russ.* 6, 8, 9, 11, 17, 19, 21, 27, 48, 55, 58, 61, 62, 72, 73, 75, 79, 84, 87, 88, 96, 101. I. 27, 31, 33, 35, 37.

C. SUBSECUNDA.

- 6 *subsecundum* *Nees* 1—4, 6, 8, 9, 11, 12—14, 16—18, 20, 24, 31, 36—54, 57—66, 69—75, 77, 78, 83—86, 88, 90, 92, 94, 96, 98—101, 103—109, 111. I. 1, 3, 4, 6, 11, 16, 17, 20, 21, 25—28, 30, 31, 35, 37—40.

- β contortum *Schp.* 1—4, 6, 9—11, 13, 14, 16—18, 22, 24—26, 28, 32, 35, 36, 38—40, 43, 45, 47—50, 56—66, 68—73, 75, 81, 83—85, 87, 88, 90—92, 97, 100, 105, 106, 109, 111. I. 1, 2, 4, 6, 8, 11—13, 16, 20, 21, 25, 27, 29—31, 33, 35—39.
 γ turgidum *C.M.* 2—4, 10, 13, 14, 16, 18, 22, 28, 35, 38, 45, 48, 61—66, 70, 73.
 δ obesum *Schp.* 1—4, 11, 12, 16, 17, 21, 22, 25, 34—41, 45, 48—50, 58—60, 62, 69, 71, 73, 75, 77, 88, 90, 100, 108, 109. I. 14, 17, 21, 26, 27, 30, 33, 35, 37, 38, 40.
 ϵ viride *Boul.* 1—4, 11—19, 20—22, 24, 34—41, 45, 46, 48, 49, 57, 60—62, 66, 70, 85, 89, 109, 111. I. 2, 38.
7 laricinum *Spruce* 1, 13, 14, 16, 40, 45, 48, 49, 52, 58, 60—62, 69, 71, 73, 86—88, 90, 92, 96, 98, 99, 109. I. 3, 6, 8, 12, 16, 20, 21, 27, 29—31, 34, 35, 38, 39.
 β platyphyllum *Lindb.* 49, (87).
 γ cyclophyllum *Lindb.* 87.

D. SQUARROSA.

- 8 teres *Ångstr.* 4, 11, 13, 17, 42, 46—49, 57—60, 64—66, 69, 71, 73, 75—78, 86—88, 90, 91, 95, 96, 99, 109. I. 20, 34, 37—39.
 β subteres *Dixon* 13, 14, 40, 42, 48, 49, 57, 59, 60, 62, 65, 66, 69, 71, 88, 109. I. 37—39.
 γ squarrosulum *Warnst.* 13, 14, 17, 40, 47, 48, 58—60, 66, 69, 91, 109.
 δ laxum *Dixon* 30, 59, 60, 62, 69,
9 squarrosum *Pers.* 1—3, 5, 8—10, 12—14, 16—20, 22, 23, 25—27, 30, 34, 36—40, 44, 50, 52, 55—66, 68—73, 75—77, 79—81, 83, 85, 86, 88, 90, 92, 94, 98, 103, 105—109, 112. I. 2, 4, 5, 7, 8, 13, 16, 20—22, 27, 31—34, 36—39.
 β imbricatum *Schp.* 10, 12, 14, 18, 35, 38, 58, 59, 62, 71, 90, 94, 99. I. 8, 38.

E. ACUTIFOLIA.

- 10 molle *Sull.* 12, 14, 17, 34, 44, 45, 48, 49, 57, 62, 66, 69, 73, 75, 83, 88, 91, 108, 112. I. 34, 35, 37—39.
 β tenerum *Braithw.* 4, 13, 14, 16, 17, 27, 39, 48, 57, 62, 73, 91, 109. I. 35.
11 acutifolium *Ehrh.* 1—6, 9—17, 19—28, 30, 32, 34, 36—41, 45, 47—88, 90—92, 94—105, 107—110, 112. C. I. 1, 2, 4, 5, 7—9, 16—21, 25—40.
 β subnitens *Dixon* 1—6, 9, 11—19, 22, 24—27, 34—38, 40—51, 54—66, 69—73, 75, 82, 88—90, 95, 96, 99, 100, 102, 104—111. I. 1, 3, 6—9, 11—13, 15, 16, 18, 25—28, 30—39.
 γ rubellum *Russ.* 1—5, 8, 9, 11—14, 16, 17, 22, 24, 27, 30, 35, 36, 38—40, 44—49, 51, 55, 57, 58, 60, 62—66, 69—73, 75, 79, 80—83, 85, 86, 88—90, 92, 94—97, 99, 102, 104—111. I. 1—3, 6—10, 12, 14, 16—18, 20, 21, 23, 27, 28, 30, 31, 33—39.
 δ gracile *Russ.* 5, 48, 58, 60, 62, 65, 66, 71, 79, 88, 90, 105.
 ϵ fuscum *Schp.* 1, 46, 48, 49, 60, 65, 66, 68—71, 73, 88, 90, 94, 96, 98, 107. I. 2, 18, 32—34, 39.

- ζ quinquefarium *Lindb.* 1, 2, 4, 5, 13, 15, 35, 37—39, 42, 44, 46—49, 57, 60, 62, 64, 66, 69, 70, 72, 73, 79, 86, 88, 90, 94, 96, 99, 105, 107—109. I. 1—3, 6, 7, 14, 16, 27, 29, 33—36, 38, 39.
- 12 Girgensohnii *Russ.* 5, 24, 39, 46, 48—50, 57, 60, 62, 65, 66, 69, 71—73, 75, (76), 81, 83, 85—88, 90—92, 96—99, 105, 108, 109, 111. I. 20, 34, 38, 39.
- β robustum *Russ.* 42, 46, 48, 49, 57, 60, 62, 69—71, 85, 88, 90, 92, 96, 109, 111. I. 34, 39.
- 13 fimbriatum *Wils.* 1—3, 8—14, 16—18, 21—23, 25—27, 30, 34—40, 43—46, 48—50, 57—66, 68—73, 77, 81, 83, 85, 86, 90—92, 97, 99, 100—102, 104, 106, 108—112. I. 20, 30, 33—35, 37—39.

F. CUSPIDATA.

- 14 Lindbergii *Schp.* 106, 112.
- 15 intermedium *Hoffm.* 1—5, 8—18, 21—25, 27, 28, 30, 32, 34—51, 54, 56—60, 72—73, 75—79, 83, 85, 86, 88—91, 96, 98—100, 102, 104, 107—110. I. 1, 6, 7, 11—14, 16, 20, 25—31, 35—40.
- β pulchrum *Lindh.* 1—3, 5, 9, 11, 12, 16, 17, 22, 24, 38—40, 46, 48, 58—60, 69, 71, 96, 109. I. 3, 31, 34, 38.
- γ parvifolium *Warnst.* 27, 46, 57, 62, 64—66, 69, 71, 96, 100, 107, 109. I. 39.
- 16 riparium *Ångstr.* 39, 58, 60.
- 17 cuspidatum *Ehrh.* 1—6, (8), 9, 11—19, 21, 22, 24, 27, 28, 30, 35—46, 48, 49, 51, 54—66, 68—83, 85—88, 90, 95—99, 101—106, 108—112. I. 1, 2, 7—14, 16, 18, 21, 25—40.
- β falcatum *Russ.* 1—3, 9, 11, 13—18, 22, 35—39, 43—45, 48, 49, 58—62, 65, 66, 69—73, 77, 83, 88—90, 104, 105, 109, 111. I. 1, 2, 7, 8, 11, 13, 14, 17, 18, 20, 25, 27, 29, 30, 32, 33, 35—39.
- γ plumosum *Nees & Hornsch.* 1—3, 5, 11, 16, 17, 22, 35, 36, 40—43, 48, 49, 54, 58—66, 69—71, 73, 75, 83, 85, 86, 88, 90—92, 96, 103, 105, 108, 109, 111. I. 14, 17, 20, 26, 28, 30, 33, 37—39.
- δ Torreyanum *Braithw.* 40, 48, 59, 60.
- ε brevifolium *Lindb.* 1, 57, 73, 92, 107.
- 18 tenellum *Ehrh.* 1—3, 6, 9, 11—19, 22, 24, 27, 28, 34, 35, 37, 40, 41, 44, 45, 48—50, 56—66, 69—73, 75—81, 83, 85, 86, 88, 90—92, 94—98, 100—106, 108, 109, 111, 112. I. 1, 2, 6, 14, 16, 18, 20, 21, 26—28, 30, 32—39.

II. ANDREÆACEÆ.

2. Andreæa Ehrh.

- 19 petrophila *Ehrh.* 1—4, (14), 40, 42, 44—46, 48—50, 57, 60, 62—73, 75—92, 94—105, 107—111. I. 1, 2, 6, 11, 12, 16, 20, 27, 29, 31, 35, 37—40.
- β acuminata *B. & S.* 48, 62, 65—67, 70, 76, 90—92, 94, 96, 97, 104, 112. I. 31, 38, 39.

- γ gracilis *B. & S.* 48, 69, 70, 92, 94, 96, 97. I. 18, 38, 39.
 δ alpestris *Thed.* 86—88, 92, 94, 96, 97.
 ϵ sparsifolia *Lindb.* 69, 88.
- 20 *alpina Smith.* [41], 42, 44, 46, 48—50, (57), 64—70, 72, 73, 75, 86—92, 94, 96—100, 103—105, 108, 110. I. 1, 2, 7, 16, 20, 21, 28, 31, 35—40.
 β compacta *Hook.* 41, 49, 88, 92, 97.
 γ flavicans *Hook.* 97.
- 21 *Rothii Web. & Mohr* 1—4, 34, 37, 40—42, 44—46, 48—50, 52, 58, 60, 62—66, 68—77, 79, 82, 83, 85—94, 96—101, 104, 108—110. I. 1, 2, 4—6, 11—13, 16, 20, 21, 25—31, 33—36, 38—40.
 β grimsulana *Hook. & Wils.* 64, (88), 92, 96, 97.
 γ hamata *Lindb.* 1, 2, 48, 71. I. 1, 12, 20, 30, 37, 38.
 δ falcata *Lindb.* 1—3, 41, 42, 46, 48—51, 60, 64—66, 69—71, 73, 75, 76, 86—88, 90—92, 96—99, 105. I. 2, 6, 25, 27, 29, 30, 35, 38, 39.
- 22 *crassinervia Bruch* 3, 4, 48, 49, 57, 58, 60, 63—66, 69—71, 86—89, 91, 92, 96, 98, 99, 105. I. 2, 16, 20, 21, 27, 38.
 β Huntii *Braithw.* 48, 70, 92. I. 38.
- 23 *nivalis Hook.* 92, 94, 96, 97, 98.
 β fuscescens *Hook.* 92, 97.

III. TETRAPHIDACEÆ.

3. *Tetraphis Hedw.*

- 24 *pellucida Hedw.* 1—6, 8, 11, 13, 14, 16—24, 27, 29, 30, 32—42, 44—52, 54—73, 75—78, 80, 81, 83—90, 92, 94—101, 107—109. I. 1, 2, 6, 13, 18, 20, 21, 27—30, 32—35, 38, 39, 40.
- 25 *Browniana Grev.* 3, 13, 14, 16, 36, 42, 46, 48, 49, 57—60, 62—70, 72, 75—77, 83, 85—88, 90, 91, 97—99. I. 20, 21, 35, 39.

IV. POLYTRICHACEÆ.

4. *Catharinea Ehrh.*

- 26 *undulata Web. & Mohr* 1—34, 36—103, 105—111. C. I. 1—6, 8—16, 18—21, 23, 26—40.
 β minor *Web. & Mohr* 5, 10, 11, 16—22, 32, 36, 38, 39, 42, 48, 55—57, 60, 62, 65, 69, 85, 88, 98, 102.
 γ Haussknechtii *Dixon* 20, 37, 38, 40, 56, 59, 70.
- 27 *tenella Roehl.* 7, 16, 85, 89, 97.
- 28 *angustata Brid.* 9, 13, 14, 16, 17, 19, 33, 37, 87.
 β rhystophylla (C.M.) *Dixon* 13, 14. I. 38.
- 29 *crispa James* 3, 41, 44, 48, 49, 57—61, 63—65, 69.
 β densifolia *Lindb.* 49, 58.

5. Oligotrichum De Cand.

- 30 *hercynicum* Lam. 2, 39, 42, 44, 46—50, 57—61, 63—65, 68—73, 75—78, 83, 85—92, 94, 96—98, 100, 103—105, 108, 110—112.
I. 1, 2, 4, 5, 13, 20, 27, 29, 31, 34, 38, 39.
 β *laxum* Braithw. 49, 60, 69, 88, 97.

6. Polytrichum Dill.

- 31 *nanum* Neck. 1—14, 16—27, 29, 30, 32—40, 42—52, 55—64, 66—79, 81, 83—92, 94—97, 100—104, 106, 109, 111. C. I. 1—5, 10, 12, 13, 20, 21, 27, 28, 32—35, 37—40.
 β *longisetum* Hampe 1—3, 10, 11, 20, 22, 36—40, 48, 57, 60, 71, 85, 91. I. 38—40.
- 32 *aloides* Hedw. 1—14, 16—28, 30, 32—65, 67—79, 82—93, 95—99, 101—104, 106—112. C. I. 1—6, 8, 9, 11—14, 18, 20, 21, 24, 26, 27, 30—40.
 β *Dicksoni* Wallm. 1—3, 5, 7, 19, 25, 38, 48—50, 58—60, 62, 73, 83—85, 88, 90, 96, 105, 111. I. 5, 38—40.
- 33 *urnigerum* L. 1—8, 10, 12—14, 16, 17, 21—23, 26, 27, 30, 32—52, 54—92, 94—101, 103—111. I. 1—5, 7, 10, 12, 14—16, 18, 20, 21, 25, 26, 28—40.
 β *humile* Wahl. 60.
- 34 *alpinum* L. (1), 2—4, 34, 36, 37, 40—42, 44, 48—50, 52, 57, 60, 62—73, 75—79, 81—83, 85—94, 96—104, 106, 108—112.
I. 1, 2, 7, 13, 16, 20, 21, 23, 27—31, 34—36, 38—40.
 β *silvaticum* Lindb.
 γ *septentrionale* Lindb. 97. I. 1, 26, 35.
- 35 *sexangulare* Floerke (86), 88, 90, 92, 94, 96, 97, 105.
- 36 *piliferum* Schreb. 1—28, 30, 32—104, 106—109, 111, 112. C. I. 1—4, 6, 7, 9—16, 18, 20, 21, 25—27, 30—40.
- 37 *juniperinum* Willd. 1—23, 25—30, 32—73, 75—92, 95—103, 106—112. C. I. 1—6, 9, 11—14, 16—21, 24—40.
- 38 *strictum* Banks 2—4, 9, 14, 15, 25, 28, 39, 41, 42, 44, 48—50, 57—66, 68—73, 75—79, 83, 85—92, 97, 99, 108, 111.
I. 1, 3, 20, 21, 28, 29, 38, 39.
- 39 *gracile* Dicks. 1—3, 5—7, 10, 12—14, 16, 17, 19, 21, 22, 24—27, 31—33, 36—40, 42—44, 46, 48, 50, 53, 54, 57—65, 67—69, 71—73, 75—80, 82—90, 97—101, 111. I. 1—3, 7, 8, 11—14, 17, 18, 20, 21, 25, 26, 29, 30, 33, 36—40.
- 40 *formosum* Hedw. 1—14, 16—24, 26—30, 32, 33, 34, 36—73, 75—79, 81—83, 85—92, 96—101, 103, 108, 109, 111, 112. C. I. 1, 2, 7, 9—14, 16—18, 20, 23—33, 35, 36, 38—40.
- 41 *commune* L. 1—30, 32—34, 36—50, 52—92, 94—104, 106—112.
I. 1—3, 5—9, 11—14, 16—18, 20, 21, 26—40.
 β *perigoniale* B. & S. 2, 3, 32, 36—39, 48, 54, 59, 62, 85, 88.
 γ *minus* Weis 2, 3, 6, 12—14, 17—19, 38, 42, 43, 45, 48, 58, 59, 61, 62, 71, 85, 88, 96. I. 38.

V. BUXBAUMIACEÆ.

7. *Buxbaumia* Haller.

- 42 *aphylla* L. (17), 22, 27, 37, 39, 48, 58, 59, (64), 68, 73, 78, 79, 81, 83, 85—88, 90—92, 95, 98, 99. I. 1.
 43 *indusiata* Brid. 92, 96, 106.

8. *Diphyscium* Mohr

- 44 *foliosum* Mohr 1—5, 14, 23, 35, 36, 39—42, 44—49, 57, 60, 62—66, 68—73, 75—79, 85—92, 95, 97—99, 101, 103—110. I. 1—3, 16, 20, 27, 29, 31, 35, 37—40.
 β *acutifolium* Lindb. 1, 3, 14, 45, 46, 48, 49, 60, 64—66, 69, 70. I. 16, 20, 21, 27, 29, 39.

VI. DICRANACEÆ.

9. *Archidium* Brid.

- 45 *alternifolium* Schp. 1—4, 6—11, 13, 14, 16—18, 21—24, 29, 30, 33, 34, 36—40, 44, 45, 48, 49, 52, 55, 57—66, 68, 69, 75, 77, 79, 81—83, 86, 88—92, 97, 109. C. I. 1, 3, 21, 27, (38), 39.

10. *Pleuridium* Brid.

- 46 *axillare* Lindb. 1—11, 13—23, 26, 27, 30, 32—34, 36—40, 42, 44—46, 48—50, 54—67, 69—71, 73, 75, 77—79, 81, 83—85, 90—92, 97, 104, 109, 111. C. I. 1, 2, 4, 21, 33, 38, 39.
 β *strictum* Braithw. 61, 62, Scot.
 47 *subulatum* Rabenh. 1—14, 16—23, 25—30, 32—40, 42—46, 48, 49, 52, 54—64, 66—73, 75, 77—93, 95, 97, 100, 103, 109, 111, 112. C. I. 1, 4, 14, 18, 20, 21, 31, 34, 37—40.
 48. *alternifolium* Rabenh. 2, 3, 5, 6, 9, 11 or 12, 13, 14, 16, 17, 19, 21—23, 26, 32—34, 36—40, 43—45, 48, 50, 52—55, 57—65, 67—74, 77, 80, 81, 83—86, 88—92, 96, 99, 104. C. I. 1—3, 21, 31, 38, 39.

11. *Ditrichum* Timm

- 49 *tenuifolium* Lindb. 1, 13, 14, 23, 34, 36, 48, 57, 58, 62, (87), 88, 90—92, 101. I. 2, 38, 39.
 50 *tortile* Lindb. 6, 14, 16, 46, 60, 62, 64. I. 12, 32, 35, 38.
 β *pusillum* B. & S. 14, 48, 57, 62, Scot. I. 5, 39.
 51 *homomallum* Hampe 1—6, 14, 16, 19, 24, 27, 32, 34—40, 42, 44—50, 55, 57—64, 66—78, 81—83, 85—90, 92, 94—102, 105, 107—109, 111. I. 1—6, 12, 16, 20, 21, 27, 29, 31—36, 38—40.
 52 *zonatum* Limpr. 48, 49, 88, 90—92. I. 39.
 β *seabrifolium* Dixon 48, 49, 86, 88, 97.
 53 *vaginans* Hampe 97. I. 39.

- 54 *subulatum* *Hampe* 1—3.
 55 *flexicaule* *Hampe* 1—3, 5—15, 17, 20, 22—27, 30, 32—34, 36—42,
 44, 45, 47—55, 57—72, 75, 77, 79, 81—83, 85—92, 94, 95,
 97—100, 103, 106, 108, 109, 111. C. I. 1—3, 6, 8, 10,
 12—14, 16, 17—21, 23, 25—35, 38—40.
 β *densum* *B. & S.* 2, 6, 8, 10, 11, 14, 28, 32, 35, 36, 39, 42, 44,
 48—52, 57, 59, 60, 63—66, 69, 82, 88, 92, 98, 102, 108.
 I. 34, 35, 39.

12. *Swartzia* Ehrh.

- 56 *montana* *Lindb.* 17, 35, 42, 44, 48—50, 52, 57, 60, 62—70, 72, 73,
 77, 79—83, 85—92, 95—97, 99—105, 107—109. I. 1, 3,
 9, 16, 20, 21, 27—29, 33—35, 40.
 β *compacta* (*Hübn.*) 64, 88. I. 33.
 57 *inclinata* *Ehrh.* 44, 52, 57, 59, 62, 64—66, 68, 75, 82, 85, 88—90,
 (92), 107—109, 111. I. 16, 27, 28, 34, 35, 39, 40.

13. *Seligeria* B. & S.

- 58 *Doniana* *C.M.* 36, 40, 57, 62—69, 75 or 76, 83, 88—90, 92, 94, 96,
 98, 108. I. 39.
 59 *pusilla* *B. & S.* 6, 11, 16, 21, 23—39, 42, 48, 50, 54, 57, 58, 60,
 62—66, 69, 72, 74, 86, 89, 90, 92, 94, 108. I. 39.
 60 *acutifolia* *Lindb.*
 β *longiseta* *Lindb.* 36, 57, 60, 64, 65, 69.
 61 *tristicha* *B. & S.* 57, 64, 65, 89.
 62 *paucifolia* *Carruth.* 9—11, 13—17, 20, 22—24, 54, 61, (64).
 63 *calcarea* *B. & S.* 7—21, 23, 24, 26, 28—30, 33, 34, 37, 54, 57, 61.
 I. 39.
 64 *recurvata* *B. & S.* 3, 10, 14, 34—37, 40, 42, 44, 48—50, 54, 57—60,
 62—67, 69, 70, 73, 75—77, 81, 83, 85, 86, 88—92, 98, 108.
 I. 1, 30, 34.

14. *Brachyodus* Fuernr.

- 65 *trichodes* *Fuernr.* 13, 17, 36, 42, 48, 49, 57—60, 62—65, 68—70,
 75—77, 81, 83, 88—92, 97, 98, 102, 103, 105. I. 20, 21.

15. *Sælania* Lindb.

- 66 *cæsia* *Lindb.* (89), 90.

16. *Ceratodon* Brid.

- 67 *purpureus* *Brid.* 1—112. C. I. 1—6, 8—18, 20—27, 29—36,
 38—40.
 68 *conicus* *Lindb.* 11, 14, 25, 27, 32, 33, 36—39, 48, 53, 58, 59, 62, 63,
 66, 69, 87, 96, 102. C. I. 21, 27.

17. *Rhabdoweisia* B. & S.

- 69 *fugax* B. & S. 2, 3, 35, 39—42, 44, 46—50, 58, 63—66, 68—73, 76, 77, 82, 85—93, 97, 98, 106. C. I. 1, 7, 16, 20, 21, 31, 35, 38—40.
- 70 *denticulata* B. & S. 2, 3, 40—42, 44—46, 48—50, 57, 60, 63, 65, 66, 69—73, 75, 76, 84—88, 90, 91, 96—99, 103, 108, 109. I. 1, 2, 6, 7, 16, 20, 27, 31, 33, 38, 39.
- 71 *crenulata* Jameson 44, 47—49, 66, 69, 70, 73, 75, 86, 87, 98, 99. I. 27, 33.

18. *Cynodontium* B. & S.

- 72 *Bruntoni* B. & S. 2, 3, 5, 16, 34—37, 40, 42—46, 48—50, 52, 57, 58, 62—66, 68—71, 73, 76, 78, 81—93, 95, 96, 98, 108, 109. I. 1, 5, 6, 20, 30, 39.
- 73 *polycarpum* Schp. 48, 49, 65, 69, 70, 72, 73, 75, 76, 85—93, 96, 98, 108, 111.
- 74 *strumiferum* De Not 65, 89, 90, 92, 98.
- 75 *gracilescens* Schp. 80.
- 76 *Jenneri* Stirr 49, 66, 68, 81, 88, 92, 98, 109.
- 77 *virens* Schp. 69, 70, 88, 90, 92.
 β *serratum* B. & S. 88.
- 78 *Wahlenbergii* Ren. & Card. 87, 88, 92.
 β *compactum* Schp. 88, 92.

19. *Dichodontium* Schp.

- 79 *pellucidum* Schp. 2—6, 8—10, 13, 14, 16, 22, 27, 33—52, 55—60, 62—92, 94, 95, 97—105, 107—109, 111. I. 1—3, 5, 7—9, 12—14, 16, 20, 21, 26—40.
 β *fagimontanum* Brid. 39, 43, 46, 49, 50, 57, 59, 60, 66, (69), 71, 72, 86, 88, 111. I. 27, 30, 37—40.
 γ *strictum* Braithw. 35, 49.
 δ *compactum* Schp. MS. 64, 66, 68, 69, 88, 96, 104. I. 34, 39.
- 80 *flavescens* Lindb. 2, 3, 5, 14, 16, (33), 34—37, 39, 40, 42, 44—50, 52, 57—60, 62—73, 75—77, 81, (83), 85—92, 94—98, 100, 101, 107—109, 112. I. 1—6, 13, 14, 20, 21, 27, 28, 30, 31, 33—35, 38—40.

20. *Trematodon* Michx.

*81 *ambiguus* Hornsch. [88].

21. *Dicranella* Schp.

- 82 *heteromalla* Schp. 1—30, 32—103, 106—112. C. I. 1—8, 10, 12—14, 16, 18—21, 23, 25, 27, 29—36, 38—40.
 β *stricta* B. & S. 2, 16, 37, 82, 88, 90, 96. I. 2, 31, 38.
 γ *interrupta* B. & S. 2, 3, 5, 6, 10, 14, (17), 37, 38, 46, 48—51, 58—60, 62—66, 71, 83, 97, 98. I. 27.

*81 A single tuft only, found in 1883. Not found since.

- δ sericea Schp. 2, 5, 6, 14, 32, 34, 36, 39, 48, 49, 58—60, 62—66, 68, 71, 81, 90, 98. I. 38.
- 83 cerviculata Schp. 1—6, 8, 10, 11 or 12, 13, 14, 16—18, 21, 23—28, 30, 32, 33, (34), 37—50, 52, 54, 55, 57—64, 67—75, 77, 81, 83—92, 95, 97, 109, 111, 112. I. 1—6, 14, 16, 20, 21, 24, 25, 29, 33—35, 37—39.
- β pusilla Schp. 1, 2, 37, 58, 59, 60, 62. I. 39.
- 84 crispa Schp. 1, 3, 13, (14), 16, 21, 25, 38, 39, 57—59, 61—63, 66, 68—71, 76, 77, 80, 81, 85, 86, 88—92, 94—96, 98, 101, 106, 111. I. 2, 5, 16, 34, 38—40.
- 85 secunda Lindb. 1, 3, 4, 10, 16, 35, 43, 44, 48, 49, (56), 58, 59, 62, 63, 65, 66, 69—72, 75, 81, 83, 85—92, 95, 96, 98, 99, 107—109, 112. I. 1, 3, 5, 13, 21, 35, 38, 39.
- 86 curvata Schp. 35, 41, 48, 49, 62, 63, 69—71, (76), 85, 88, 98. I. (6), 12, 27.
- 87 rufescens Schp. 1—5, 7, 8, 13, 14, 16—18, 21, 25, 27, 32—34, 36—40, 42, 44—50, 55, 57—66, 68—71, 75—80, 83, 85, 86, 88—92, 95, 96, 99, 103, 104, 107, 109, 111. C. I. 1, 2, 6, 14, 20, 21, 31, 32, 38—40.
- 88 varia Schp. 1—14, 16, 17, 19—42, 44—46, 48—52, 54—71, 73, 75—92, 94, 95, 99, 100, 108, 109, 111, 112. C. I. 1—4, 6, 7, 10, 12, 14, 16—18, 20, 21, 25, 27, 29—40.
- β tenuifolia B. & S. 2, 10, 13, 18, 32, 48, 49, 51, 52, 58, 59, 61—63, 69, 70, 85, 89, 91. I. 5, 38, 39.
- γ tenella Schp. 39, 62, 66. I. 12, 25, 32.
- δ callistoma B. & S. (40), 52, 57—59, 61, 62, 65, 73, 74. I. 39, 40.
- 89 Grevilleana Schp. 88, 89. I. 20.
- 90 Schreberi Schp. 1—3, (5), 6, 7, 13—16, 23, 25, 27, 30, 32—37, 39, 40, 42, 43, 45, 48, 50, 53—55, 57—71, 75—77, 79, 81—83, 85, 86, 88—91, 95, 98, 104, 105. I. 1, 2, 21, 25, 34, 38, 39.
- β elata Schp. 3, 14, 16, 32, 33, 37—40, 48, 50, 55, 57—60, 62—65, 69—71, 75, 79—81, 109. I. 1, 2, 21, 38—40.
- 91 squarrosa Schp. 1, 3—5, 14, 34, 36—40, 42, 44—50, 57—60, 62—92, 94—99, 101, 103—105, 107—109, 112. I. 1—3, 5—7, 14, 16, 18, 20, 21, 27—35, 37—40.

22. Blindia B. & S.

- 92 cæspiticia Lindb. 88.
- 93 acuta B. & S. 1, 3, 4, 35, 36, 40—42, 44—49, 57, 59, 60, 62—77, 82, 83, 85—92, 94—105, 107—112. I. 1—3, 6, 7, 13, 16, 20, 21, 26—28, 31, 33—35, 37—39.
- β trichodes Braithw. 36, 40—42, 48, 49, 58, 59, 62, 63, 66, 69, 88, 92, 100, 108.

23. Dicranoweisia Lindb.

- 94 cirrata Lindb. 1—28, 30, 32—46, 48—96, 100, 101, 105, 107, 109. C. I. 3—6, 19—21, 31, 34—40.

- 95 *crispula* *Lindb.* 2, (3), 40, 42, 48, 49, 52, (55), (56), (58), 59, 61, 62, 69, 72, 73, (83), 85, 87—92, 94, 95, 98, 99, 103, 104, 108.

24. *Campylopus* Brid.

- 96 *subulatus* *Schp.* 5, 6, 9, 11, 36, 42, 43, 45, 48, 49, 69, 70, 88—90, 98—100, 111. C. I. 2, 3, 16, 27, 29, 34.
- 97 *Schimpéri* *Milde* 86—90, 96—98, 104, 106, 108, 110, 112. I. 1, 2, 20, (39).
- 98 *Schwarzii* *Schp.* 48, 49, 69, 70, 73, 86—88, 90, 97—99, 103—105, 108—110. I. 1—3, 7, 16, 27, 28, 34—36.
 β *Hunti* *Stirt.* 49. I. 35.
- 99 *flexuosus* *Brid.* 1—7, 9—11, 13—18, 20—28, 30, 32—42, 44—92, 95—112. C. I. 1—9, 12—14, 16, 18—21, 25—40.
 β *uliginosus* *Ren.* 1, 2, 11, 13, 14, 45, 48, 49, 57, 60, 62, 64, 73, 88, 105, 112. I. 3, 38, 39.
 γ *paradoxus* *Husn.* 1, 3, 11, 17, 25, 26, 36, 39, 40, 42, 44, 45, 48—50, 57, 60—66, 68, 69, 71, 73, 83, 86, 88, 98, 100, 101. I. 2, 3, 12, 14, 16, 21, 27, 30, 32, 33, 35, 38.
 δ *zonatus* *Limpr.* 2, 47—50, 60, 68—70, 88, 110.
- 100 *pyriformis* *Brid.* 1—23, 25—27, 32—34, 36—42, 44—55, 57—66, 68—90, 92, 96—104, 108—110. C. I. 1—8, 11, 14, 17, 18, 20, 21, 23, 27, 29, 30, 33—40.
- 101 *fragilis* *B. & S.* 1—6, 9—14, 16, 17, 19, 23, 25, 27, 33, 35—40, 42—46, 48—52, 54, 57—66, 68—79, 81—92, 95, 97—102, 104, 105, 107—112. C. I. 1—7, 10—14, 16—18, 20, 21, 24—40.
- 102 *Shawii* *Wils.* 104, 110. I. 3.
 β *hamatus* *Schp.* 110. I. 3.
- 103 *setifolius* *Wils.* 40, 48, 49, 57, 66, 71, 98, 104, 105, 110. I. 1—3, 6, 7, 9, 16, 17, 20, 21, 30, 32, 34, 35, 38.
 β *intermedius* *Jones* 48.
- 104 *atrovirens* *De Not.* 1—4, 9, 11, 41—50, 52, 57, 60, 62, 64—66, 69—73, 75—77, 85—92, 96—105, 107—112. I. 1—4, 6, 7, 14, 16, 20, 21, 26—35, 37—40.
 β *falcatus* *Braithw.* 102, 104, 108. I. 3, 16, 35.
 γ *muticus* *Milde* 42, 48, 49, 61, 70, 76, 104, 108, 111.
 δ *gracilis* *Dixon* 48, 49, 65, 69, 70, 90, 104. I. 3.
- 105 *introflexus* *Brid.* 1—3, 48, 49, (70), (103), (104). I. 1—3, 16, 27.
- 106 *brevipilus* *B. & S.* 1—4, 6, 7, 9, 11—14, 17, 22, 24, 27, 28, 34, 41, 44, 45, 48, 49, 52, 58—62, 69, 71, 73, 81, 87—91, 97, 100—112. C. I. 1—3, 6—8, 16, 20, 21, 26—29, 31, 33—35, 38, 39.
 β *auriculatus* *Ferg.* 90, 97, 104. I. 3.

25. *Dicranodontium* B. & S.

- 107 *longirostre* *B. & S.* 3, 14, 39, 40, 42, 44—46, 48, 49, 57—60, 62—64, 69, 70, 72, 73, 78, 86—88, (89), 90—92, 97—101, 103—106, 108, 109. I. 1, 2, 6, 20, 21, 27, 28, 33, 35, 36, 38, 39.

β . *alpinum* *Milde* 48, 49, 59, 60, 64, 69, 78, 86—88, 90, 92, 97, 98, 106, 108. I. 1, 16, 20, 21, 27, 39.

26. *Dicranum* Hedw.

- 108 *fulvellum* *Smith* 48, 49, 62, 65, 69, 70, 72, 86—90, 92, 94, 96—98, 100, 103, 108. I. 1.
- 109 *falcatum* *Hedw.* 49, 65, 66, 69, 88—90, 92, 94, 96—100, 102, 104—106, 108.
- 110 *schisti* *Lindb.* 48, 49, 65, 66, 68—70, 73, 86—88, 90, 92, 97, 98, 105. I. 7, 38.
- 111 *Starkei* *W. & M.* 49, 65, 69, 87, 88, 90, 92, 94, 96—98, 105, 106, 108, 109. I. 7, 20, (21).
- 112 *molle* *Wils.* 88—90, 92, 94, 96—98, 106.
- 113 *undulatum* *Ehrh.* 17, 34, 38, 54, 61, 85, 88, 90.
- 114 *spurium* *Hedw.* 3, 13, 14, 16, 17, 38, 54, 61—64, 68, 72, 87, 90—92.
- 115 *Bergeri* *Bland.* [58], 80, 90 or 91 or 92, 109.
- 116 *Bonjeani* *De Not.* 1—28, 30, 32—52, 54—73, 75—92, 94—101, 103, 105, 107—109, 111, 112. C. I. 1—4, 6—9, 12, 13, 15—19, 21, 23—27, 29—31, 33—39.
 β *juniperifolium* *Braithw.* 1—3, 6, 9, 36, 37, 62, 64, 66, 68, 69, 85, 88.
 γ *calcareum* *Braithw.* 13, 14, 37, 45, 62, 111.
 δ *rugifolium* *Bosw.* 2, 3, 5, 16, 21, 30, (34), 37, 40, 48, 49, 52, 54, 60—63, 67, 69, 91. I. 27, 29, 38, 39.
- 117 *scoparium* *Hedw.* 1—30, 32—112. C. I. 1—21, 24—40.
 β *paludosum* *Schp.* 3, 5, 17, 18, 22, 24, 32, 34, 37, 39, 46, 48, 50, 54, 56, 57, 60, 62, 64, 69, 72, 73, 88, 105, 108, 109, 112.
 γ *orthophyllum* *Brid.* 1—3, 5, 6, 8—10, 12, 14, 16, 17, 19, 22, 23, 27, 32, 33, 37—40, 45—52, 57—60, 62—64, 68, 69, 71—73, 81—83, 85, 87, 88, 92, 95, 96, 100, 108, 111. C. I. 6, 7, 20, 23, 27, 30, 31, 33, 37—39.
 δ *spadiceum* *Boul.* 2, 5, 13, 14, 16, 17, 21, 34, 36, 37, 40, 42, 43—51, 56, 59, 60, 62, 64—66, 68, 69, 71, 72, 81, 82, 86, 88, 89, 92, 98, 101, 102, 108, 109, 111. I. 2, 6, 7, 10, 12, 13, 24, 25, 27—33, 35, 37—40.
- 118 *majus* *Turn.* 1—14, 16—18, 21, 23, 24, 30, 32—34, 36—40, 42—50, 52—55, 57—92, 94—105, 107—112. C. I. 1—3, 5—7, 10—13, 20, 21, 25—31, 33—36, 38—40.
- 119 *fuscescens* *Turn.* 3, 6, 14, (18), 34, 36—40, 45, 46, 48—50, 52, 57—70, 72, 73, 75—78, 81—83, 85—92, 94—103, 106—109, 111, 112. I. 2, 6, 7, 16, 20, 21, 26, 27, 29, 30, 34, 35, 38, 40.
 β *falcifolium* *Braithw.* 34, 36, 44, 50, 57, 58, 60, 62, 64—66, 68—70, 75, 81, 83, 88, 90, 92, 98.
 γ *congestum* *Husnot* 48, 66, 88, 92, 94, 97, 108.

- 120 *Scottianum Turn.* 1—4, 14, 16, 34—36, 39, 44, 48, 49, 58, 60, 62, (63), 68, 70, 73, 75, 86, 88, 90, 92, 97—99, 101, 102, 105, 106, 108, 111. I. 1—3, 5—7, 16, 20, 25—27, 29, 30, 33, 35, 38.
- 121 *elongatum Schleich.* 68, 92, 97, 105, 109, 112.
- 122 *strictum Schleich.* 33, 37, 39, 63, 64, 83, 96.
- 123 *flagellare Hedw.* 16, 21, 39, 62. I. 2.
- 124 *montanum Hedw.* 14, 16, 21, 24, 30, 32, 34, 37—40, 54—56, 88—90.
- 125 *uncinatum C.M.* 69, 70, 86, 88—90, 92, 94, 96—99, 105, 107, 108. I. 27.
- 126 *asperulum Mitt.* (72), (80), 86—88, 90, 92, 94, 96—99, 105, 106, 108. I. 30, 33.
- 127 *longifolium Ehrh.* 72, 88, (89), 90.

27. Leucobryum Hampe

- 128 *glaucum Schp.* 1—9, 11—28, 30, 32, 34, 36—40, 43—105, 107—112. C. I. 1—5, 7, 13—18, 20, 21, 25—31, 33—35, 37—40.
- 129 *albidum Lindb.* 11.

VII. FISSIDENTACEÆ.

28. Fissidens Hedw.

- 130 *exilis Hedw.* 1—14, 16—23, 32—34, 36—40, 42, 44, 48—51, 53—65, 69, 70, 72, 77, 81, 83, 88—90, 95, 109. C. I. 1, 19, 20, 21, 38, 39.
- 131 *viridulus Wahl.* 1—7, 9, 10, 12—14, 16, 17, 19—23, 25, 27, 30, 32—41, 44—46, 48—52, 54—66, 68—72, 75, 77, 80, 81, 83, 85, 86, 89—92. C. I. 7, 12, 14, 16, 18, 20—22, 31, 33, 37—39.
 β *Lylei Wils.* 1—5, 13, 14, 17, 22, 23, 25, 33, 34, 36—39, 45, 48, 57, 58, 60, 62, 64, 67—69, 81, 86. I. 33.
- 132 *pusillus Wils.* 1—6, 9, 13, 14, 16, 17, 19, 23, 32—40, 44, 45, 48—50, 53, 55—64, 68—70, 72, 75—77, 81—84, 86, 89, 90. C. I. 1, 39.
 β *madidus Spruce* 14, 37, 42, 57, 58, 62, 64, 65, 69. I. 1, 39.
- 133 *incurvus Starke* 1—10, 12—14, 16, 17, 19—26, 30, 32—38, 40, 48, 50, 53—66, 69, 75, 77, 80, 81, 83—85, 90. C. I. 21, 31, 33, 37—39.
- 134 *bryoides Hedw.* 1—30, 32—42, 44—101, 103, 108—111. C. I. 1—4, 7—10, 12, 13, 16, 20, 21, 23, 27, 30, 31, 33—40.
 β *intermedius Ruthe* 2, 13, 14. I. 21, 33.
- 135 *Curnowii Mitt.* 1—4, 9, 24, 44, 45, 47—49, 60, 64, 68. C. I. 2, 34.
- 136 *rivularis Spruce* 3, 14. C.

- 137 *crassipes* Wils. 5—8, 13, 14, 17—24, 30, 32—38, 40, 44, 47, 50, 57—60, 62, 64—66, 68, 69, 71, 77, 81—83, 86. I. 38.
- 138 *rufulus* B. & S. 35, 42—44, 62, 64, 65, 69, 70. I. 38.
- 139 *algarvicus* Solms. 3, 33.
- 140 *osmundoides* Hedw. 1—3, 40—42, 44—50, 57—60, 62—73, 75—77, 82, 83, 85—92, 95—101, 103, 106, 108, 110—112. I. 1—3, 6, 7, 10, 12, 14, 16, 18, 19, 21, 23—25, 27, 28, 30—39.
- 141 *serrulatus* Brid. 1, 3.
- 142 *polyphyllus* Wils. 1—3, 47—49. I. 1—4, 28.
- 143 *adiantoides* Hedw. 1—30, 32—42, 44—92, 94—112. C. I. 1—10, 13, 14, 16—18, 20, 21, 23, 25—40.
- 144 *decipiens* De Not. 1—4, 6, 9—11, 13, 14, 16, 17, 20, 23, 27, 29, 32—37, 39, 40, 42—46, 48—53, 55, 57, 58, 60—66, 68—77, 79, 81, 83, 86—88, 91, 98, 99, 101, 105, 107—110, 111. C. I. 1—3, 6, 11, 12, 14, 16, 17, 25, 26, 28—30, 33, 35, 38.
 β *brevifolius* Lindb. 32, 33, 34. I. 2, 21.
- 145 *taxifolius* Hedw. 1—92, 94—101, 103, 108—112. C. I. 1—15, 17—21, 23—40.

29. Octodiceras Brid.

- 146 *Julianum* Brid. 22, 23, 33, 34, 37, 38, 40, 58.

VIII. GRIMMIACEÆ.

30. Grimmia Ehrh.

- 147 *apocarpa* Hedw. 1—20, 22—104, 106—112. C. I. 1—4, 6—23, 25—40.
 β *alpicola* Hook. & Tayl. 36, 42, 43, 57, 64, 66—69, 81, 88, 90, 92, 96.
 γ *rivularis* W. & M. 2—6, 34, 36—40, 42—44, 46—52, 55, 57—60, 62, 64—77, 79, 81—90, 92, 95, 101—104, 108, 109, 111. I. 1, 5, 6, 16, 21, 29, 30, 33, 34, 38, 39.
 δ *gracilis* W. & M. 2, 3, 16, 36—38, 47—50, 57, 59, 60, 64—66, 68, 69, 72, 85—88, 90, 111. I. 1, 2, 4, 6, 8, 18, 30, 39.
 ε *pumila* Schp. 39, 43, 48, 49, 57, 62, 64—66, 69, 70, 88. I. 32.
- 148 *conferta* Funck 43, 49, 64, 65, 69, 76, 77, 80, (81), 83, 85, 88—90. I. 26, 31, 32.
 β *pruinosa* Braithw. (48), 83, 85, 87, 99. I. (9), 38—40.
- 149 *maritima* Smith 1—5, 44—46, 48, 49, 52, 58—60, 62, 66, 68—71, 73—76, 81—85, 90—92, 94—103, 105, 106, 108—112. C. I. 1, 3, 4, 5, 8, 9, 16, 20, 21, 27—29, 31, 34, 35, 38—40.
- 150 *anodon* B. & S. 69, (83).
- 151 *crinita* Brid. [38].
- 152 *incurva* Schwaeg. 40, (48), 49, 68, 70, 72, 73, 90—92, 94.

- 153 *funalis* Schp. 48—50, 64—67, 69, 70, 72, 73, 87—90, 92, 94, 96—98, 108, 109. I. 1, 4, 16, 20, 35, 38—40.
- 154 *torquata* Hornsch. 42, 44, 48, 49, 64—66, 68—70, 72, 73, 85—90, 92, 94, 96—98, 106, 108. I. 1, 2, 7, 20.
- 155 *andreaeoides* Limpr. 49.
- 156 *pulvinata* Smith 1—34, 36—109, 111, 112. C. I. 1—4, 6, 8—21, 23, 25, 27—31, 33—40.
 β *obtusa* Huebn. 2, (3), 5, 13, 16, 34, 37, 39, 40, 48, 49, 57, 99.
- 157 *orbicularis* Bruch 3, 4, 6, 9, 13, 14, 16, 22—24, 33, 34, 36, 37, 40, 45, 46, 48—50, 52, 60, 64—66, 69, (83), 85, 88, 89, 99. I. 4, 5, 21, 38.
- 158 *trichophylla* Grev. 1—4, 6, 7, 13, 14, 16, 22, 34—40, 42—52, 54, 55, 57—59, 62—66, 68—92, 94—101, 104, 107—112. C. I. 1—4, 6, 13, 16, 20, 21, 23, 26, 27, 30—32, 34—39.
- 159 *Muehlenbeckii* Schp. 1, 14, 77, 92, 96.
- 160 *Stirtoni* Schp. 5, 34, 36, 37, 45, 48, 50, 52, 57, 58, 64, 68—70, 73, 81—83, 88, 99.
- 161 *subsquarrosa* Wils. 1—4, 7, 36, (37), 43, 45, 46, 49, 52, 58, 64, 73, 82, 83, 85, 86, 88, 89, 99, 101. C. I. 11.
 β *edinensis* Braithw. 83, 88.
- 162 *decipiens* Lindb. 1—4, 6, 7, 13, 14, 16, 22, 36, 43—45, 47—49, (50), 52, (55), 62, 69—71, 73, 76, 79, 80, 82, (83), 85, 87—90, 92, 96—99, 103, 108, 109. C. I. 6, 16, 20, 21, 31, 38, 39.
- 163 *robusta* Ferg. 3, 48, 49, 69, 70, 86, 88, 90, 92, 98, 99, 105 or 106, 108. I. 16, 21, 38, 39.
- 164 *elatior* B. & S. 90, 92.
- 165 *Hartmani* Schp. 3, 34, 36, 42, 43, 45, 48—50, 64, 68—70, 73, 75, 86—92, 94, 97, 99—101, 108. I. 2, 3, 16, 26, 34, 38, 39.
- 166 *retracta* Stirton 42, 43, 48—50, 69, 70, 73, 87, 88, 98, 99. I. 2, 33.
- 167 *patens* B. & S. 1—3, 5, 44, 45, 47—50, (55), 65, 68—73, 75, 82, 85—92, 94, 96—99, 101, 103, 105, 106, 108, 109. I. 1—3, 6, 7, 16, 20, 21, 27, 31, 33, 35, 38—40.
- 168 *Doniana* Sm. 3—5, 35, 37, 40, 42—50, 52, 57—60, 63—66, 68—73, 75—78, 80—83, 85—92, 94, 96, 97, 99, 104, 105, 108. I. 2, 34, 37—39.
- 169 *arenaria* Hampe 48—50.
- 170 *ovata* Schwaeg. 3, 4, 36, (37), 39, 42, 43, 48, 49, [55], 64, 66, 68—70, 82, 83, 87—93, 98, 104, 108, 109. I. 4, 6, 21, 38, 39.
- 171 *commutata* Huebn. 14, 16, 19, 34—36, 42, 43, 48, 50, 69, 70, 73, 82, (83), 88—90, 98.
- 172 *montana* B. & S. 3, 35, 37, 40, 43, (45), 48, 49, 69, 70, 73, 82, 92. C.
- 173 *alpestris* Schleich. 90, 92.
- 174 *leucophæa* Grev. 1—3, 7, 14, 16, 22, 36, (37), 43, 45, 48, 50, 52, 71, 82, 83, 85, 87—89, 99. C. I. 3, 39.

- 175 *homodictyon* *Dixon* 108.
 176 *elongata* *Kaulf.* 49, 69, 70, 90, 92.
 177 *atrata* *Mielich.* 49, 70, 72, 87, 88, 90, 92.
 178 *unicolor* *Hook.* 90.

31. *Rhacomitrium* Brid.

- 179 *ellipticum* *B. & S.* 2, 35, 48, 49, 52, 58, 65, 69, 70, 72, 73, 86, 88, 90—92, 94, 96—98, 103, 104, 108, 110. I. 1, 3, 4, 16, 20, 21, 27, 28, 31, 34, 35, 37—40.
 180 *aciculare* *Brid.* 1—5, 13, 14, 16, 17, 34, 36, 37, 39—52, 55, 57—60, 62—92, 94—105, 107—112. I. 1—4, 6, 7, 9, 11—16, 18, 20, 21, 25—40.
 181 *protensum* *Braun* 2—4, [37], 40, 42—50, 52, [55], (57), 60, 64—66, 68—75, 77, 78, 82, 85—92, 96—99, 101—105, 107—109. I. 1—3, 7, 11, 12, 13, 16, 18, 20, 25—32, 35, 37—39.
 182 *fasciculare* *Brid.* 1—6, 14, 32—37, 39—52, 55, 57—60, 62—92, 94—105, 107—112. I. 1—4, 6, 7, 11—16, 20, 21, 25—40.
 183 *heterostichum* *Brid.* 1—5, 9, 11, 13, 14, 16, 17, 32, 34—50, 52, 55—60, 62—92, 94—109, 111. C. I. 1—9, 12—14, 16, 17, 20, 21, 25—40.
 β *alopecurum* *Huebn.* 2—4, 7, 34—37, 39, 40, 44—46, 48—50, 52, 60, 64, 68—73, 81, 85, 88, 90, 94, 96, 97, 104, 108. C. I. 1, 3, 6, 13, 20, 21, 26, 27, 30, 31, 35, 38, 39.
 γ *gracilescens* *B. & S.* 1—5, 36, 40, 42, 44—46, 48, 49, 57, 60, 64—66, 68—73, 77, 85, 87, 88, 90, 92, 94, 96—100, 104, 107—109, 112. I. 1—3, 6, 11, 12, 20, 21, 26, 27, 29—31, 35, 37—39.
 *184 *sudeticum* *B. & S.* (2), (3), (4), (41), (47), 48, 49, (52), (64), (65), 69, 70, (72), (73), (77), (85), (86), (87), 88, 90, (91), (92), (94), (95), (96), 97, (98), (100), (101), (103), (104), (105), (110). I. (1), (6), (7), (16), (20), (21), (27), (31), (33), 35, (37), (38), (39), (40).
 185 *ramulosum* *Lindb.* 88, 98, 109, 110, 112.
 186 *lanuginosum* *Brid.* 1—6, 9, 11—14, 16, 21, 27, 33—50, 52, 55, 57—92, 94—112. I. 1—7, 9, 11—14, 16, 17, 19—21, 25—40.
 187 *canescens* *Brid.* 1—9, 11, 13, 14, 16, 17, 20—23, 25—29, 33—50, 52, 54—60, 62—105, 107—112. I. 2, 4, 6—8, 11, 12, 14, 16, 20, 21, 27, 30—40.
 β *ericoides* *B. & S.* 1—3, 5, 14, 19, 25, 28, 36, 39, 40, 42—46, 48—50, 52, 54, 57—60, 62, 63, 65, 66, 68—71, 73, 74, 79, 81—90, 94—98, 101, 102, 104, 107—109, 111. I. 2, 6, 21, 28, 30, 31, 34, 38.

*184 Many of these may belong to 183 γ . Confirmation desired.

32. *Coscinodon* Spreng.188 *cribrosus* Spruce 4, 44—46, 48—50, 69, 70, 88.33. *Ptychomitrium* B. & S.189 *polyphyllum* Fuern. 1—6, 13, 17, 32—42, 44—50, 52, 55, (56),
57—60, 62—92, 95—105, 107, 108, 110—112. C. I. 1—4
6—14, 16—18, 20, 21, 23, 26—40.34. *Glyphomitrium* Brid.190 *Daviesii* Brid. 3, 45, 48, 49, 52, 69, 70, 86, (88), 97—99, 103, 104,
108, 110. I. 1—3, 16, 34, 35, 38—40.35. *Campylostelium* B. & S.191 *saxicola* B. & S. 13, 14, 36, 48, 49, 57, 58, 60, 62—65, 69, 70, (87).
I. 1, 2, 20, 21, 29.36. *Hedwigia* Ehrh.192 *ciliata* Ehrh. 1—5, 7, 13, 14, 34, 36—40, 42—50, 52, 55, (56), 57,
[58], 62, 64—92, 94—110, 112. C. I. 1—4, 6—8,
10—14, 16, 20, 21, 25—31, 33—40.
 β leucophæa B. & S. 2, 3, 6, 73, 104.
 γ viridis B. & S. 14, 36, 37, 48, 69, 75, 80. I. 20.
 δ striata Wils. 48, 49, 69, 73, 87, 98, 108. I. 3.
193 *imberbis* Spruce 48, 49, 52, 69—71, 73, 75, 82, 87, 92, 98, 104.
I. 1, 3, 20, 39.

IX. TORTULACEÆ.

37. *Acaulon* C. M.194 *muticum* C.M. 1—4, 8—10, 12—23, 26, 27, 32, 33, 34, 36—40, 45,
46, 48, 50, 52, 55—66, 68, 69, 73, 77, 80, 81, 83, 85, 88,
90—92, 100, 101, 104. I. 1, 4, 21, 34, 35, 39, 40.
 β minus Hook. & Tayl. 2, 3, 13, 17, 27, 52, 71.
195 *triquetrum* C.M. 3, 9, 10, (13), 14, (91).38. *Phascum* Schreb.196 *cuspidatum* Schreb. 1—20, 32—42, 44, 45, 47—50, 52—74, 77, 78,
80—85, 88—92, 95, 109, 112. C. I. 4, 5, 18, 20, 21, 34,
37—40.
* β piliferum Hook. & Tayl. (1), (3), (6), 13, 14, (16), 18, (22), (25),
(27), (28), (31), (39), (50), (57), (59), (60), (62), (66), 67,
68, (70), 81, (83), (85), (89), (90), (91). I. (21), (39).*196 β Confirmation seems desirable here.

- γ Schreberianum *Brid.* 13 or 14, 17, 19, 29, 40, 61, 66, 67.
 δ curvisetum *N. & H.* 13, 14, 17, 25, 30, 34, 38, 63.
- 197 **Flœrkeanum** *W. & M.* 5, 7, 8, 12—14, 16, 17, 23, 27, 29, 33, 34, 49, 50, 61—63, 66, 67.
 β badium *Brid.* 13, 49, 50, 62.
- 198 **curvicolle** *Ehrh.* 2—4, 6, 10, 11—17, 19, 27, 29, 30, 32—34, 36, 37, 50, 54, 56, 57, 61, 63—69, 90. I. 16, 21.
- 39. Pottia Ehrh.**
- 199 **recta** *Mitt.* 1—6, 8—17, 19, 22, 24, 26, 27, 29, 30, 32—34, 36, 37, 45, 49, 50, 52—54, 56, 57, 59—61, 63—66, 69, 81, 83, 99, 111. C. I. 4, 5, 20, 21, 34.
- 200 **bryoides** *Mitt.* 3, 4, 6, 8, 13, 14, 16—18, 20, 22, 23, 25—30, 32—34, 36, 39, 40, 45, 49, 53—57, 60—64, 66—70, 82, 85, 90, 109. I. 21, 39.
 β Thornhillii *Wils.* 67.
- 201 **Heimii** *Fuernr.* 1—6, 9, 10, 13—19, 25—27, 28, 32, 34, 37, 41, 44—46, 48, 49, 52, 54, 56, 58—76, 81—86, 90—92, 94, 95, 97—103, 108, 109, 111, 112. C. I. 4, 5, 9, 16, 21, 27, 28, 31, 34, 38—40.
- 202 **truncatula** *Lindb.* 1—40, 42, 44—86, 88—92, 94—97, 99, 101—103, 109, 111, 112. C. I. 4, 5, 8, 9, 14, 16, 19—21, 27, 30, 31, 33, 34, 36—40.
- 203 **intermedia** *Fuernr.* 2—5, 7, 8, 13, 14, 16—28, 30, 32—40, 44—46, 48, 49, 52, 54—64, 66—69, 75, 76, 79, 81, 83, 85, 88—92, 99, 109. C. I. 4, 13, 15, 21, 26, 27, 33, 37—39.
 β littoralis (*Mitt.*). 3, 5, 10, 13, 14, 18, 50, 52, 58—60, 69, 71, 81. C.
- 204 **crinita** *Wils.* 1—4, 6, 9, 10, 13, 14, 25, 26, 44, 45, 48, 49, 52, 58, 68, 71, 74, 81, 82, 85, 90—92, (98). C. I. 1, 2, 4, 5, 21, 39.
- 205 **viridifolia** *Mitt.* 1—4, 45—48, 81. C. I. 12, 39.
- 206 **Wilsoni** *B. & S.* 1—5, 13, 14, 19, 27, (37), 40, 44, 45, 48—50, 52, 58, 59, 62, (83), 85, 90. C. I. 5, 20, 21.
- 207 **asperula** *Mitt.* 1, 2, 13, 85. C. I. 21, 38.
- 208 **minutula** *Fuernr.* 1—10, 12—30, 32—40, 44, 45, 49, 50, 52—64, 66, 68—70, 75, 77, 80, 81, 83, 85, 86, 90, 103. C. I. 33, 38, 39.
- 209 **commutata** *Limpr.* 1, 14.
- 210 **Starkeana** *C.M.* 1—4, 6, 9, 10, 12—14, 16, 19, 20, 25—27, 32—34, 36, 37, 52, 56, 57, 60—64, 69, 85. C. I. 4, 5, 21, 33, 38, 39.
 β brachyodus *Wils.* 14, 45, 52. C. I. 21.
- 211 **cæspitosa** *C.M.* 13, 14, 16, 17, 36.
- 212 **lanceolata** *C.M.* 2—6, 8—17, 19—30, 32—34, 36—40, 50—58, 60—66, 68, 69, 81, 83—85, 89, 90, 94, 95, 99, 109. I. 4, 5, 21.

- 213 *latifolia* C.M. 88—90, 92, 94.
40. *Tortula* Hedw. (*emend.* Lindb.)
- 214 *pusilla* Mitt. 3, 5, 6, 10, 12—17, 19, 20, 22—34, 36—38, 45, 47, 52—59, 61—64, 66—68, 70, 72, 77, 81, 83, 85, 90, 92, 95, 99, 112. I. 4, 21.
 β *incana* N. & H. 14, 20, 32, 37, 38, 55, 85, 90.
- 215 *lamellata* Lindb. 3, 6, 10, 13, 14, 16, 23, 24, 26, 28, 32—34, 37, 53, 55, 57, 61—64, 83, 85, 90. I. 21, 38.
- 216 *brevirostris* Hook. & Grev. 57, 61, 64, 83.
- 217 *rigida* Schrad. 1, 3—5, 10, 11, 13—19, 21—24, 26—28, 31—34, 36—39, 48—50, 52, 55—59, 61—64, 66, 68, 69, 72, 76, 77, 82, 83, 89, 90. I. 4, 21, 38, 39.
- 218 *ambigua* Ångstr. 1—6, 8—10, 12—14, 16—19, 21—30, 32—34, 36—41, 44—50, 52—64, 66, 68, 69, 77, 81—85, 88, 90, 93, 94. C. I. 2, 4, 8, 19, 21, 23, 30, 31, 33, 34, 37—39.
- 219 *alooides* De Not. 1—6, 8—10, 13—21, 23—27, 29, 32—34, 36—42, 44, 45, 49, 50, 52—66, 68—70, 75, 77, 80—83, 85, 95, 99. I. 1, 2, 6, 8, 11—13, 15—17, 20, 21, 27—30, 36—39.
- 220 *cernua* Lindb. 63, 64.
- 221 *suberecta* Drumm. 90.
- 222 *atrovirens* Lindb. 1—5, 9, 13—15, 36, 38, 44—46, 48, 49, 52, 68, 81, 85, 90, 94, 99. C. I. 3—5, 16, 20, 21, 39.
- 223 *cuneifolia* Roth 1—6, 11 or 12, 13—19, 22, 25, 36, 37, 39, 45, 48, 52. C. I. 1, 3—5, 8, 14, 21.
- 224 *Vahliana* Wils. 3, 5, 13, 16, 17, 29, 33, 34, 36, 54. I. 20, 21, 29.
 β *subflaccida* Lindb. 16. I. 20, 21.
- 225 *marginata* Spruce 3, 5, 6, 8—19, 22—25, 27, 32—34, 36—40, 51, 56, 58, 59, 62—64, 69, 85, (99). I. 17, 38, 39.
- 226 *muralis* Hedw. 1—34, 36—109, 111, 112. C. I. 1—11, 13—23, 25—40.
 β *rupestris* Schultz 1—6, 14, 16, 23, 32—40, 42, 43, 45, 46, 48—52, 54—60, 62—65, 68, 69, 71, 73, 75, 76, 81, 83, 85—90, 96, 97, 100, 103, 109. I. 8, 9, 16, 21, 29, 38, 39.
 γ *aestiva* Brid. 3, 13, 14, 16—19, 21, 24, 25, 27, 32—34, 36—39, 50, 53, 55—58, 63—65, 68, 81.
- 227 *canescens* Mont. 2, 3, (14), 43, 45, 48, 88. C.
- 228 *subulata* Hedw. 1—30, 32—97, 99—102, 107—109, 111, 112. I. 3—5, 8, 9, 11—14, 16, 20, 21, 27, 29—34, 37—40.
 β *subinermis* Wils. 11, 14, 34—36, 42, 58, 60, 61, 75, 85, 90.
- 229 *angustata* Wils. 3, 12, 20, 23, 24, 32; 34—37, 54, 55, 58, 59, 61, 62, 64—66, 82, 83. I. 38.
- 230 *mutica* Lindb. 2—10, 12—17, 19—27, 29, 31—34, 36—40, 42—44, 48, 49, 53—55, 57—62, 64—69, 75—77, 80—83, 85, 86, 88, 89, 94. I. 4, 6, 20, 21, 38, 39.

- 231 *lævipila* Schwaeg. 1—65, 67—75, 77—83, 85—91, 94, 99—102, 109.
 C. I. 2, 4—9, 11, 12, 14, 20, 21, 25, 30, 31, 33, 35—40.
 β *lævipilæformis* Limp. 1—9, 14, 17, 22, 25, 27, 28, 33, 34, 37, 43,
 45, 48. I. 33.
- 232 *intermedia* Berk. 1—17, 19—34, 36—45, 47—66, 68—71, 73, 77—79,
 81—83, 85, 87—90, 94, 99, 100, 102, 103, 108. C. I. 8,
 9, 12—18, 21, 23, 24, 28, 31, 33, 35, 38, 39.
- 233 *ruralis* Ehrh. 1—34, 36—83, 85—92, 94—96, 98—101, 103, 106,
 109, 111, 112. C. I. 4, 8—11, 13, 14, 16—21, 27, 28,
 30, 31, 33, 34, 37—40.
- 234 *ruraliformis* Dixon 1—6, 9—11, 13—15, 19, 25—28, 34, 41,
 44—46, 48—52, 54, 58—62, 66, 68, 70, 71, 73—75, 81—85,
 90—93, 97, 100, 108, 109, 111, 112. C. I. 1, 6, 9, 16,
 21, 27, 28, 31, 34, 35, 37—40.
- 235 *norvegica* Wahl. 88.
- 236 *princeps* De Not. 40, 47, 49, 57, 65, 72, 77, 83, 85, 87—92, 99, 106,
 108. I. 28, 39, 40.
- 237 *papillosa* Wils. 2, 3, 5—8, 11, 13—17, 19—28, 32—34, 36—40,
 48—50, 53—56, 60—66, 68—75, 77, 78, 80—83, 85—90, 98,
 99, (111). I. 9, 15, 20, 21, 31, 34, 38—40.

41. *Barbula* Hedw.

- 238 *lurida* Lindb. 1—11, 13—18, 21—25, 28, 32—34, 36—40, 42, 44, 45,
 47—50, 52—57, 59—70, 74, 81, 83—85, 94. C. I. 1, 2,
 4—6, 17, 18, 26, 33, 35, 38.
- 239 *cordata* Dixon 4, 25.
- 240 *rubeola* Lindb. 1—30, 32—34, 36—92, 94—105, 107—109, 111, 112
 C. I. 1—6, 8—14, 16, 18—25, 27—40.
 β *dentata* Schp. 14, 36, 46, 48, 50, 56—58, 60, 62, 64, 66, 73, 88,
 105. I. 2.
 γ *ruberrima* Ferg. 36, 39, 42, 43, 48—50, 59, 60, 64—66, 69, 70,
 75, 86, 88—90, 108. I. 7, 27, 35.
- 241 *tophacea* Mitt. 1—10, 13—19, 21—28, 30, 32—34, 36—42, 44—77,
 79—91, 93—95, 98, 99, 101, 108, 109, 111, 112. C. I. 1,
 4—6, 8—10, 12, 14—18, 20, 21, 23, 25—29, 31, 33—35,
 37—40.
- 242 *fallax* Hedw. 1—14, 16—73, 75—92, 95—99, 101, 103, 109, 111,
 112. C. I. 1—14, 16—23, 25—40.
 β *brevifolia* Schultz 3—6, 10, 13, 14, 16, 19, 21, 22, 23, 25, 30,
 32—34, 36—40, 44, 45, 49, 50, 52, 55—64, 66, 69, 73,
 81—83, 86, 88, 90, 108. I. 38.
- 243 *recurvifolia* Schp. 1, 3, 6, 9, 14, 27, 32—36, 38—40, 49—52, 56,
 57, 59—66, 69, 71, 72, 75, 86, 88—91, 101, 108, 109. I.
 1—3, 11, 16, 21, 23, 26, 28, 29, 32, 35.
 β *robusta* Braithw. I. 28.

- 244 *spadicea* Mitt. (1), 2, 3, 9, 12, 14, 16, 33—40, 42—45, 47—52, 57, 59, 60, 62—73, 75—78, 81—94, 108, 109, 111. I. 1, 4, 5, 7, 10, 11, 14, 20, 25, 28—33, 35, 36, 38, 39.
- 245 *rigidula* Mitt. 1—6, 8—11, 13, 14, 16, 17, 19, 23, 24, 26—29, 31—34, 36, 37, 39—42, 44—50, 52, 54—66, 68—92, 94—96, 98, 100, 101, 105, 107—109, 111, 112. C. I. 1, 2, 4, 5, 8, 10—12, 14, 17, 19—21, 23, 25—29, 32—35, 37—40.
- 246 *Nicholsoni* Culmann 3, 13, 34, 36, 37, 42, 62, 68, 81.
- 247 *cylindrica* Schp. 1—10, 12—17, 19—25, 31—45, 47—52, 54—73, 75—90, 94, 96, 97, 99, 101, 103, 107—109, 111, 112. C. I. 1, 2, 5, 6, 8, 11—13, 16, 17, 20—23, 25—39.
- 248 *vinealis* Brid. 1—17, 20—28, 31—40, 45, 48—52, 55, 57—60, 62—66, 68, (69), 72, 73, 78, 81—85, 88, 90, 92, 97, 99, 101. C. I. 4, 5, 11, 14, 18—21, 27, 28, 33, 34, 36—39.
- 249 *glaucia* Dixon 65.
- 250 *sinuosa* Braithw. 1—10, 12—17, 19, 20, 22—25, 32—37, 40, 44, 45, 48—50, 52, 55—57, 60, 62—66, 68, 81. I. 8, 16, 21, 30, 33.
- 251 *gracilis* Schwaeg. 4, 6, 8, 9, 13, 14, 23, 33, 34, 36, 37, 40, 45, 50, 56—58, 64, 69; 90. C. I. (4), 8, 26, 38, 39.
 β *viridis* B. & S. 14. I. 38.
- 252 *icmadophila* Schp. 88, 104.
- 253 *Hornschlorchiana* Schultz 1—10, 13, 14, 16, 17, 19, 20—25, 27, 32—41, 43, 44, 48—54, 56—65, 68, 69, 71, 73, 75, 77, 79, 81—84, 88—90, 96, 111. C. I. 3, 5, 8, 21, 37—39.
- 254 *revoluta* Brid. 1—17, 19—28, 31—34, 36—69, 71—77, 79—91, 96—102, 104, 107—109, 111. C. I. 1, 2, 4, 5, 7—14, 16—25, 27—40.
- 255 *convoluta* Hedw. 1—23, 25—28, 30, 32—77, 79—92, 95, 96, 99, 101, 107—109, 111. C. I. 1—5, 7, 8, 11—18, 20, 21, 23, 25—27, 29—31, 33—40.
 β *Sardoa* B. & S. 1—8, 11—14, 16—18, 22, 23, 27, 31—36, 39, 42, 43, 45, 47—50, (52), 57, 60, 61, 63, 64, 69, 81, 83, 86, 99. C. I. 2, 5, 7, 20, 21, 27, 30, 38, 39.
- 256 *unguiculata* Hedw. 1—92, 94, 95, 97—99, 101, 103, 107—109, 111, 112. C. I. 1—4, 7—27, 29—35, 37—40.
 β *cuspidata* B. & S. 4—6, 8, 10, 19, 32, 37—39, 46, 48, 56, 57, 59—61, 64, 68, 81. I. 23, 31, 39.

42. *Leptodontium* Hampe

- 257 *gemmascens* Braithw. 3, 5, 13, 14, 16, 17, 33, 64, 90.
- 258 *flexifolium* Hampe 1—6, 9, 13, 14, 16, 17, 21—23, 32, 34—40, 43, 46, 48—50, 55, 57—60, 62—65, 67—75, 77—79, 81, 83, 84, 86—91, 96—101, 108, 109, 111. I. 6, 12, 21, 27, 28, 35, 39, 40.
- 259 *recurvifolium* Lindb. 48, 49, 69, 70, 86—88, 97—99, 108. I. 1, 2.

43. *Weisia* Hedw.

- 260 *crispa* Mitt. 2, 3, 6—17, 19, 21, 23—26, 27 or 28, 29, 30, 32—34, 36—40, 49, 50, 53—62, 65—67, (83), (85). I. 19, 21, 35, 38, 39.
 β *aciculata* Braithw. 13, 14, 32—34, 37, 55, 65.
- 261 *sterilis* Nicholson 10, 13—15, 17, 33, 37.
- 262 *multicapsularis* Mitt. 13, 14, 16, 17, 22, 23, 30, 38, 58.
- 263 *Mittenii* Mitt. 13, 14.
- 264 *rostellata* Lindb. 13, 14, 17, 38, 55, 58, 67, (92). I. 39.
- 265 *squarrosa* C.M. 3, 9, 13, 14, 16, 17, (24), 32, 37, 45, 55—60, 62, 64, 69, 74, 85.
- 266 *microstoma* C.M. 1, 3—14, 16, 17, 19, 21—28, 32—34, 36—40, 44—46, 48, 49, 52, 54—69, 71, 74, 75, 80—83, 85, 86, 88—92, 96, 97, 100, 101, 108, 109, 112. C. I. 4, 5, 20, 21, 31, 34, 37—39.
 β *elata* B. & S. 1, 48, 64.
 β *brachycarpa* C.M. 14, 17, 20, (34), 45, 48, 57, 61.
- *267 *tortilis* C.M. (1), (3), (6), (9), (10), (11), 13, 14, 15, 16, (33), 34, 37, (39), (45), (48), (49), (50), 51, (57), (59), (64), (66), 81. I. (2), (5), (15), (35), (39).
- 268 *crispata* C.M. 1, 3, 4, 6, 9, 13, 14, 16, 17, 33, 34, 36, 37, 39, 40, 43, 45, 48—50, 57, 59, 60, 63—66, 69, 71, 81—83, 85, 88, 110. I. 34, 38.
- 269 *viridula* Hedw. 1—30, 32—34, 36—52, 54—92, 94—104, 106, 107, 109, 111, 112. C. I. 1—9, 11—14, 16, 18—21, 24, 26—34, 36—40.
 β *amblyodon* B. & S. 2—6, 35, (37), 52, 56, 57, 60, 61, 64, 69. C. I. 39.
 γ *densifolia* B. & S. 2, 4, 48, 49, 60, 64—66, 71, 87. I. 1.
- 270 *mucronata* B. & S. 1—3, 5, 13—17, 19, 20, 33, 34, 36—40, 45, 46, 48, 49, 52, 58, 61, 62, 64, 68, 69, 77, 81, 83, 85, 86, 88, 90—92, 102, 103, 109, 111, 112. C. I. 35, 38.
 β *subgymnostoma* Limpr. 14, 57.
- 271 *tenuis* C.M. 5—7, 9—11, 13, 14, 16, 21, 23, 28, 32—34, 36—40, 45, 48, 49, 56—62, 64—66, 68—70, 75—77, 81, 83, 85, 86, 88—91, 99, 101. I. 1, 5, 21, 28, 34, 38, 39.
- 272 *calcarea* C.M. 6, 34—37, 41, 50, 57, 64, 69, 88, 108. I. 4, 5, 9, 35, 38.
 β *viridula* C.M. 1, 3, 45, 62, 64, (69), 91.
- 273 *rupestris* C.M. 5, 35, 36, 39—44, 47—50, 57—60, 62—66, 68—92, 94—101, 103—105, 108, 109, 111, 112. I. 1—3, 6, 7, 16, 20, 21, 25—27, 29, 31, 33—35, 38, 39.

*267 Many of these may belong to 268. Confirmation would seem desirable.

- 274 *curvirostris* C.M. 9, 42, 44—46, 48—50, 52, 57, 62—66, 68, 71, 72, 76, 77, 81—83, (84), 85—91, 96, 98—100, 104, 105, 107—109. I. 1, 2, 4, 10, 18, 21—23, 27, 28, 30, 31, 33, 35, 38—40.
 β *commutata* Dixon 41, 42, 49, 50, 57, 60, 64—66, 68, 71, 81, 88, 98, 99, 105.
 γ *scabra* Lindb. 65, 88. I. 38.
 δ *insignis* Dixon 88, 97, 98, 108.
- 275 *verticillata* Brid. 1—6, 9, 11, 12, 14—16, 22, 23, 27, 32—37, 39—46, 48—52, 56—58, 60—71, 74—77, 80—86, 88—91, 94, 95, 97, 99, 100, 106—109, 111, 112. C. I. 1, 2, 4, 5, 13, 14, 18, 20, 21, 26, 28, 29, 33—35, 37—39.

44. *Trichostomum* B. & S. *emend.*

- 276 *crispulum* Bruch 1—6, 9—11, 13—15, 17, 23, 32—37, 39—46, 48—52, 55—57, 59—65, 68—71, 73—75, 77, 81—83, 85, 88, 90, 93, 99—101, 103, 108, 109. C. I. 1—4, 8—10, 12, 14, 16, 17, 20—23, 26, 28—30, 32—35, 37—40.
 β *elatum* Schp. 3—5, 36, 48, 50, 52, 64, 65, 100. I. 1, 2, 8, 35, 39.
 γ *nigro-viride* Braithw. 36, 50, 57, 64, 69. I. 2.
 δ *brevifolium* B. & S. 9, 15, 42, 50, 60, 66. C.
 ϵ *viridulum* Braithw. 3, 14, 35, 36, 64.
- 277 *mutabile* Bruch 1—6, 9, 10, 12—15, 17, 24, 33—45, 48—50, 52, 57—60, 62—65, 68—76, 80, 81, 85, 86, 90, 93, 96—101, 103, 107—112. C. I. 1—3, 6, 8, 9, 14—17, 21, 25—31, 33—35, 38—40.
 β *littorale* Dixon 1—4, 6, 9, 10, 13, 14, 34, 37, 40, 42—45, 48—50, 52, 57, 59, 60, 62, 64, 65, 68—71, 73, 74, 76, 81, 82, 85, 88, 89, 91—94, 96—98, 100, 101, 107—112. C. I. 1—3, 6, 8, 11, 12, 16, 21, 22, 26—28, 31—35, 38—40.
 γ *cophocarpum* Schp. 2, 6, 34, 39, 42, 48, 50, 57, 60, 64, 65, 97, 105. C. I. 2, 29, 33, 38.
- 278 *tenuirostre* Lindb. 1, 3—6, 14, 34, 36, 37, 40, 42—45, 47—49, 57, 62, 64—66, 68—70, 72, 73, 75—77, 85—88, 90, 96—99, 101, 104, 105, 108. I. 1, 2, 6, 7, 16, 20—22, 27, 28, 31, 33—35, 38, 39.
 β *Daldinianum* De Not. 48, 49, 70, 87, 88, 97—99. I. 2.
 γ *Holtii* Braithw. 5, 48, 49, 59, 66, 69—71, 98, 100. I. 1, 2.
- 279 *hibernicum* Dixon 86, 97. I. 1, 2, 5, 16.
- 280 *flavovirens* Bruch 1—6, 9, 10, 13—15, 19, 27—29, (33), 41, 44, 45, 48—52, 54, 58—60, 68, 71, 81, 82, 84, 85, 90, 91, 93, 94, 98, 100, 101, 107, 109, 111. C. I. 1, 2, 5, 6, 12, 16, 20, 21, 27, 28, 34, 35, 38, 40.
- 281 *limosellum* Stirton 97.

- *282 *inclinatum* *Dixon* (1), (2), 23, 33, 37, 44, (48), (65), (70), (71), (73), 85, 108. C. I. (1), (9), (12), (23), (28), (31), (35), (38), (39), (40).
- 283 *nitidum* *Schp.* 1—4, 6, 9, 34—37, 39, 41, 42, 44, 45, 48—50, 52, 57, 59—62, 64—66, 69, 73, 75, 83, 101, 104, 107. C. I. 1, 2, 6, 7, 9, 16, 17, 21, 26—29, 34, 35, 40.
- 284 *tortuosum* *Dixon* 2—6, 9, 13, 14, 16, 17, 23, 24, 29, 33—55, 57—60, 62—78, 81—83, 85—92, 94, 96—102, 104, 105, 107—109, 111, 112. C. I. 1—11, 14—16, 18, 21, 23, 25—31, 33—36, 38—40.
 β *dicranoides* *Dixon* 48, 88, 89.
 γ *fragilifolium* *Dixon* 35—37, 40, 48, 49, 57, 59, 60, 62, 64, 66, 83, 88, 90—92, 108—111.
- 285 *fragile* *Dixon* 85, 88, 90, (92), 109, (112). I. 2, 9, 16, 27, 28, 32, 33, 35.

45. Pleurochæte Lindb.

- 286 *squarrosa* *Lindb.* 1—6, 9, 10, 13—15, 17, 23, 24, 33, 34, 36, 45, 50—52, 57, 60, 69. C. I. 20, 21.

46. Cinclidotus P. Beauv.

- 287 *Brebissoni* *Husnot* 3, 6—9, 11, 13, 14, 16—20, 23, 32—40, 42—45, 49, 52, 66, 69, 80, 90.
- 288 *fontinaloides* *P. Beauv.* 1—8, 11—17, 21—23, 30, 32—37, 39—45, 48—52, 54, 55, (56), 57—70, 72—92, 96, 98—100, 102, 103, 108, 109. I. 1, 2, 4—10, 12, 13, 15—17, 20—30, 32—40.

X. ENCALYPTACEÆ.

47. Encalypta Schreb.

- 289 *commutata* *N. & H.* 49, 87, 88, 90, 92, (98).
 β *imberbis* *Lindb.* 88.
- 290 *vulgaris* *Hedw.* 3, 4, 6, 8, 9, 11—14, 16, 17, 19—27, 29, 32—37, 39—42, 44—47, 49—57, 59—70, 77, 80—92, 95, 96, 98, 99, 106. I. 1, 2, 4, 5, 11, 13, 16, 18, 20, 21, 23, 27, 33, 35, 39, 40.
- 291 *ciliata* *Hoffm.* 36, (40), 41—44, 48, 49, 64—66, 68—70, 72, 75, 83, 85—92, 94—96, 98, 100, 104, 108, 109. I. 27, 28, 39, 40.
- 292 *rhabdocarpa* *Schwaeg.* 49, 50, 64, 65, 82, 85, 87—90, 98, 109. I. 9, 27—29.
- 293 *streptocarpa* *Hedw.* 2—7, 9, 10, 12—17, 23, 24, 32—73, 75—92, 94—105, 107—109. I. 1, 2, 4—6, 8—14, 16—18, 20—23, 25—40.

*282 It is probable that some of these belong to 280. Confirmation desired.

XI. ORTHOTRICHACEÆ.

48. *Anœctangium* Schwaeg.

- 294 *compactum* Schwaeg. (1), 5, 39, 41—44, 46, 48, 49, 52, (56), 59, 62—66, 69, 70, 72, 73, 75—78, 83, 85—90, 92, 96—104, 108, 109. I. 1—3, 6—8, 16, 20, 27, 28, 31, 34, 35, 38, 39.
 β *pellucidum* Dixon 70, 88, 97, 98, 108.

49. *Zygodon* Hook. & Tayl.

- 295 *lapponicus* B. & S. 43, 44, 48, 49, 64—66, 68—70, 72, 73, (76), (77), 80, 85—88, 90—92, 96, 99, 104.
- 296 *Mougeotii* B. & S. 1—5, 35—37, 40—50, 52, 56, 57, 59, 60, 62—92, 95—105, 107—109, 111, 112. I. 1—9, 16, 20, 27, 28, 30, 31, 33—40.
- 297 *viridissimus* R. Brown 1—29, 31—50, 52—55, 57, 58, 60—69, 71—91, 95, 97—103, 105, 108, 109, 111, 112. C. I. 1—14, 16, 18—21, 23, 25, 27, 28, 30—34, 36—40.
- * β *rupestris* Hartm. 3, (4), 13, 14, (16), (21), (23), (33), (34), (36), (37), (45), (48), (50), (52), (57), (61), (64), (65), (69), (71), (73), 81, (83), (84), (85), 88, 92, (102), 109. C. I. 1, (38), (39), (40).
- 298 *Stirtoni* Schp. 1, 3, 4, 9, 10, 13, 14, 22, 23, 32, 34, 36, 37, 39, 40, 42, 44, 45, 48—50, 52, 57, 60, 64, 65, 68, 70, 71, 73, 74, 77, 81—86, 88—90, 93, 94, 98—100, 109, 111, 112. C. I. 2, 3, 6, 11, 20—22, 31, 33, 34, 38—40.
- 299 *conoideus* Hook. & Tayl. 1—5, 9, 13, 14, 18, 19, 23, 36, 42, 45, 48, 49, 52, 58—60, 62, 65, 69, 71—75, 86, 88, 91, 92, 97, 98, 100, 101, 103. I. 1—5, 14, 16, 18, 20, 25—27, 29, 33, 35, 38—40.
- 300 *Forsteri* Mitt. 5, 9, (13), (14), 18, 37.
 β *Sendtneri* Dixon 18, 24.
- 301 *gracilis* Wils. 64.

50. *Ulota* Mohr

- 302 *Ludwigii* Brid. 5, 13, 27, 48, 86—88, 90, 92, 98. I. 1, 2.
- 303 *Drummondii* Brid. 47, 48, (57), 60, (62), 63, (64), (65), 66—68, 70, 72, 73, 75, 81, 83, 85—92, 95—98, 101, 105, 107—109, 111. I. 1, 2, 6, 7, 20, 33, 39.
- 304 *Bruchii* Hornsch. 2—6, 9—11, 13—17, 20, 23, 24, 27, 32, 33, 36—38, 40, 44—51, 57, 58, 60—62, 64—66, 68—83, 85—104, 107—109. C. I. 1, 2, 4, 5, 7, 8, 14, 16, 20, 27, 28, 34—36, 38—40.

*297 β This has often been confused with 298. Confirmation is much needed.

- 305 *crispa* *Brid.* 1—19, 21—23, 25—29, 32—34, 36—40, 44—50, 52, 54—64, 66—70, 72, 73, 75—77, 79—83, 85—92, 94—103, 105—109. I. 1—6, 8, 9, 11—14, 16—21, 23, 25—28, 30—40.
 β *intermedia* *Braithw.* 2, 3, 5, 6, 9, 11, 12, 22, 23, 25, 32—34, 36—40, 47—50, 53—55, 60—64, 66, 68—70, 72, 73, 81, 83, 86, 88, 89, 95—99, 101—105, 107—109. I. 1, 27, 36, 38, 39.
 β *crispula* *Hamm.* 2, 3, 13, 14, 40, 48—50, 62, 64, 65, 69, 70, 72, 73, 75, 87, 88, 95, 97, 103, 105. I. 1—3, 5, 13—16, 18, 23, 27—29, 32—40.
306 *vittata* *Mitt.* 49, (69), (70), 75, 86, 97, 98. I. 1, 2, 14, 18, 26, 28, 29, 33, 35, 39.
307 *phyllantha* *Brid.* 1—5, 9, 10, 11, 13—16, 23, 26, 27, 32, 33, 35, 36, 41, 42, 44—50, 52, 54, 58, 60—62, 64—66, 68—77, 80—85, 87—112. C. I. 1—3, 5—14, 16—40.
 β *stricta* *Nicholson* 109, 112.
308 *Hutchinsiæ* *Hamm.* 2—4, 7, (27), 44, 48, 49, 62, 65, 69, 70, 73, 86—88, 90—92, 95, 97—99, 101, 104, 105, 108—110. I. 1—7, 16, 20, 21, 27, 32, 34, 35, 37, 38, 40.

51. *Orthotrichum* Hedw.

- 309 *rupestre* *Schleich.* 3, 7, 8, 14, 19, 22, 34, 37, 38, 40, 48, 49, 51, 52, 60, 64—66, 68—71, 73—83, 85—93, 95—103, 105—109, 111, 112. I. 1, 2, 16, 20, 21, 26, 27, 34, 35, 37—40.
 β *Sturmii* *Juratz.* 69, 75, 83, 85—88, 99. I. 1, 20, 38, 39.
 γ *Franzonianum* *Vent.* 73, 88, (95).
*310 *anomalum* *Hedw.* (1), (3), (12), (37), (39), (45), (46), (48), 49, 52, (57), (63), (68), 70, (75), (76), (77), 78, (80), (81), (82), 83, 85, (86), (87), 88, (89), (90), (91), (92), (95), (97), (99), 107. C. I. (2), (4), (9), (10), (13), (16), (21), (23), (28), (32), (34), (35), (36), (37), 39, (40).
 β *saxatile* *Milde* 1—20, 22, 23, 25—42, 44—46, 48—70, 72, 73, 75, 77—79, 81, 83, 85, 86, 88—92, 94, 99, 100—103, 106—109. I. 4, 8—11, 14—16, 18—21, 23, 25—27, 29—31, 33—40.
311 *cupulatum* *Hoffm.* 3, 4, 6—9, 12—14, 16, 17, 22, 23, 25, 27, 32—34, 36—40, 42, 48—52, 54, 55, 57, 59—72, 75, 77, 78, 80—83, 85—92, 94, 96, 98, 101, 107, 108, 112. I. 4, 8, 16, 21, 26, 28, 35, 38—40.
 β *nudum* *Braithw.* 9, 14, 23, 32, 33, 36, 37, 39, 42, 50, 51, 55, 57, 59, 60, 64—69, 71, 77, 81, 83, 87—89, 108, 109. I. 8, 9, 21, 26, 33, 39, 40.
312 *Shawii* *Wils.* 75.
*310 Older records included var. β . Confirmation for the segregate is desirable.

- 313 *leiocarpum* *B. & S.* 1—6, 8—19, 22—27, 32—34, 36—38, 40—50, 52, 55—57, 60—62, 64, 65, 68—73, 75, 77, 78, 80—83, 85—92, 95—99, 101, 107—109. C. I. 1—4, 13, 14, 20, 21, 33, 36—40.
- 314 *Lyellii* *Hook. & Tayl.* 1—62, 64—83, 85—92, 95, 98—101, 105—107. C. I. 1, 2, 7, 11—13, 18—23, 30—33, 36, 38, 39.
- 315 *speciosum* *Nees* 13, 14, 62, (64), (70), 86, 88—92, 95, 96.
- 316 *affine* *Schrad.* 1—34, 36—96, 98, 99, 101, 102, 104, 106—109, 112. C. I. 1—6, 8—14, 16—21, 23, 26—40.
 β *rivale* *Wils.* 2, 34, 36—38, 42; 43, 57, 60, 62, 67, 73, 75, 96. I. 12, 39.
* γ *fastigiatum* *Huebn.* 3, 14, (36), (38), (48), 49, (50), (52), (57), (58), (62), (64), 65, (66), (69), (73), (75), (76), 83, (86), (87), (88), (90), (98). I. (19), (21).
- 317 *rivulare* *Turn.* 1—4, 9, 13, 14, 16, 33, 34, 36—44, 47—50, (56), 57—60, 62, 64—69, 71—73, 75—78, 80, 81, 84—93, 95, 97, 102, 103. I. 1, 2, 4, 6, 20, 21, 31, 38, 39.
- 318 *Sprucei* *Mont.* 3, 9, 13, 14, 16, 17, 19, 32—38, 40, 55, 57, 58, 61, 62, 64, 65, 69, 70, 75—77, 86, 88. I. 2, 6, 38, 39.
- †319 *Schimperi* *Hamm.* (17), (19), 26, 27, 32, (36), (48), (52), (62), (64), (65), (75), (76), (77), (80), (83), (85), (86), (88), (90). I. (3), (19), (21), (22), (37).
- 320 *stramineum* *Hornscl.* 1, 3, 11—14, 16, 17, 24, 33, 34, 36—44, 46, 48—51, 54, 57, [58], 59, 60—62, 64—66, 68—75, 77—83, 85—96, 98—101, 107, 108. I. 1, 2, 10—12, 20, 38, 39.
 β *patens* *Vent.* 55, 58, 62, 64, 72, 75.
- 321 *pallens* *Bruch* 1, 2, 19; 59, 62, 64—66, 75, 80, 92. I. 4, 16, 17, 20, 21.
- 322 *tenellum* *Bruch* 2—4, 6—11, 13—17, 19, 22—28, 32—34, 36—38, 43, 45, 48—50, 52, 55, 57, 58, 60—65, 69—71, 75—77, 81, 83, 85—91, 97—99, 101, 105. C. I. 2, 3, 5, 8, 11, 20, 21, 33, 38, 39.
- 323 *pulchellum* *Smith* 1—4, 7, 9, 12—14, 17, 23, 25, 27, 30, 33, 40, 48, 49, 52, 54, 55, 57, 58, 60—73, 75, 77, 78, 80—92, 95, 98, 107—109. C. I. 2, 4, 5, 8, 9, 14, 19, 21, 25, 33—40.
- 324 *diaphanum* *Schrab.* 1—30, 32—34, 36—42, 44—73, 75, 77—86, 88—92, 94—96, 98—101, 108, 109, 111, 112. C. I. 1, 2, 4, 5, 8, 9, 11, 12, 14, 15, 17—21, 23, 26—28, 30, 31, 33, 34, 36—39.
- 325 *obtusifolium* *Schrab.* 22—24, 32, 33, 36—38, (62), 65, 91.

*316 γ This has been much misunderstood. Confirmation is much to be desired.

†319 Older records are very doubtful. Confirmation required.

XII. SCHISTOSTEGACEÆ.

52. *Schistostega* Mohr

- 326 *osmundacea* Mohr 1—6, 13, 17, 32, 34, 36, 37, 39, 40, 48, 49, 55—59, 62—64, 70, 86.

XIII. SPLACHNACEÆ.

53. *Oedipodium* Schwæg.

- 327 *Griffithianum* Schwæg. 42, 44, 48, 49, 64, 65, 68—70, 72, 73, 80, 86—90, 92, 97, 98. I. 1, 35.

54. *Splachnum* L.

- 328 *ampullaceum* L. 2—5, 9, 11, 12, 14, 16, 17, 22, 23, 25—27, 29, 32, 39, 40, 42—50, 52, 56, 58, 59, 62—67, 69, 70, 72—75, 77, 81, 83, 85—92, 95—101, 103. I. 1—3, 9, 16, 17, 19—22, 28, 33, 34, 37—40.
- 329 *sphaericum* Linn. fil. 3, 36, 42, 44, 48, 49, 57—60, 62—73, 75—78, 83, 85—92, 94—109, 111, 112. I. 1, 20, 21, 26—30, 35, 38—40.
- 330 *vasculosum* L. 65, 86—90, 92.

55. *Tetraplodon* B. & S.

- 331 *mnioides* B. & S. 4, 11, 40, 42, 43, 46, 48, 49, 54, 58—60, 62, 64—66, 68—70, 72, 73, 76—78, 80, 81, 83, 85—97, 100—109, 111. I. 1—3, 14, 16, 20, 27, 30, 35, 38, 39.
- 332 *angustatus* B. & S. 49, [61], (64), 89, 90, 92, 94, 96, 97, (98), 105, 106, 108.
- 333 *Wormskjoldii* Lindb. 66, 88.

56. *Tayloria* Hook.

- 334 *tenuis* Schp. 66, 87, 88, 90—92, 94 or 96, 104, 105, 109. I. 40.
- 335 *lingulata* Lindb. 86—90, 98.

XIV. FUNARIACEÆ.

57. *Disclerium* Brid.

- 336 *nudum* Brid. 14, 17, 32, 37, 57—60, 62—66, 75, 77, 88.

58. *Nanomitrium* Lindb.

- 337 *tenerum* Lindb. 13, 14, 16, 17.

59. *Ephemerum* Hampe

- 338 *serratum* Hampe 2, 3, 5, 7, 8—10, 12—23, 25—27, 29, 32—34, 36—40, 42, 44—46, 48, 50, 54—64, 69, 70, 77, 80, 81, 83—86, 88—92, 109. C. I. 4, 18, 33, 34, 38—40.
- β *angustifolium* B. & S. 7, 16, 19, 59. I. 38, 39.

- 339 *intermedium* *Mitt.* 13.
 340 *stellatum* *Philib.* 14, 16.
 341 *cohærens* *Hampe* 13, (91). I. 15.
 342 *sessile* *Rabenh.* 1, 7, 13, 14, 16, 58, (92).
 β *brevifolium* *Schp.* 7, 10, 14, 58.
 343 *recurvifolium* *Lindb.* 5, 6, 9, 10, 13—17, 22, 24, 25, 32, 58, 66.

60. *Physcomitrella* B. & S.

- 344 *patens* *B. & S.* 3, 5, 7, 8, 14—27, 30, 32—34, 36—40, 50, 54—62,
 66, 68, 79, 83, 84. I. 4, 21, 39.
 β *Lucasiana* *Schp.* 14, 20, 57—59.

61. *Physcomitrium* Brid.

- 345 *sphæricum* *Brid.* 14, 16, 17, 39, 57, 58.
 346 *pyriforme* *Brid.* 1—6, 8—10, 12—34, 36—41, 43—46, 48—64,
 66—73, 75—77, 79—92, 95, 97, 98, 102, 103, 109. C. I.
 3—5, 8, 11, 18, 20, 21, 28, 33, 34, 36—40.

62. *Funaria* Schreb.

- 347 *fascicularis* *Schp.* 1—8, 10—14, 16—20, 22, 23—28, 30, 32—40,
 42—45, 48—50, 52, 55, 58, 59, 61, 62, 64, 66, 67, 69, 70,
 72—77, 81, 83, 85—92, 98—100, 111, 112. C. I. 1, 2,
 4, 5, 8, 14, 16, 21, 27, 31, 36, 38—40.
 348 *ericetorum* *Dixon* 1—4, 6, 7, 9—14, 16, 24, 27, 34, 36, 37, 40, 42,
 44, 45, 47—49, 52, 58—75, 77—81, 83, 85—92, 95, 97—102,
 105, 108—111. C. I. 1—5, 7, 9, 16, 20, 21, 27, 31, 34,
 35, 37—39.
 349 *Templetoni* *Sm.* 1—4, 21, 42—45, 47—50, 52, 58—60, 62—66,
 69—76, 83, 86, 88, 97, 98, 100, 101, 103—105, 109—112.
 C. I. 1—5, 7, 9, 16, 20, 21, 27, 31, 33—35, 38—40.
 350 *calcarea* *Wahl.* 2—4, 6, 13, 14, 33, 34, 36, 39—42, 45, 48—50, 55,
 57, 60, 64, 66, 69, 88, 90, 98, 100, 106, 112. I. 3, 4, 5,
 33, 39, 40.
 β *patula* *B. & S.* 3, 13, 34.
 351 *hygrometrica* *Sibth.* 7—34, 36—92, 94—106, 108—112. C. I.
 1, 2, 4, 7—9, 11, 13, 14, 17—19, 21, 26—40.
 β *arctica* *Berggr.* 27.
 **[microstoma* *B. & S.* (3), (11), (14), (27), (34), (38), (49), (52),
 (57), (64), (69), (90).]

*The existence of the true *F. microstoma* in Britain is exceedingly doubtful.

XV. MEESIACEÆ.

63. *Amblyodon* P. Beauv.

- 352 *dealbatus* P. Beauv. 26, 27, 37, 38, 44, 48, 49, 52, 57—60, 62—69, 75, 81—83, 85—90, 92, 94, 96, 108, 109, 112. I. 21, 27, 31, 32, 34, 35, 38, 39.

64. *Meesia* Hedw.

- 353 *trichoides* Spruce 52, 59, 60, 65—69, 75, 82, 85—92, 98, 109.
 β *alpina* Boul. 88.
 γ *minor* Boul. 88.

65. *Paludella* Ehrh.

- 354 *squarrosa* Brid. 52, [58], 61, [62], 70.

66. *Aulacomnium* Schwæg.

- 355 *turgidum* Schwæg. 65, 88, 106.
356 *palustre* Schwæg. 1—6, 8—28, 30, 32—92, 94—104, 106—109, 111, 112. C. I. 1, 2, 4—6, 8—14, 16—21, 24—39.
 β *imbricatum* B. & S. 10, 26, 36, 54, 62, 64, 66, 75.
 γ *fasciculare* B. & S.
 δ *laxifolium* Kindb. 25, 30, 57, 61.
357 *androgynum* Schwæg. 2, 3, 5, 6, 8, 9, 11—14, 16—18, 20—30, 32, 34—40, 46—48, 50, 51, 53—70, 73, 77, 83, 85, 86, 88—92, 95, 96, 98, 106—109. I. 18, 20, 30, 37—40.

XVI. TIMMIACEÆ.

67. *Timmia* Hedw.

- 358 *austriaca* Hedw. 88, 90.
359 *norvegica* Zett. 88, 90.

XVII. BARTRAMIACEÆ.

68. *Catoscopium* Brid.

- 360 *nigritum* Brid. 52, (58), 59, 64—66, 68, 69, 74, 82, 85, 88—90, 109. I. 39, 40.

69. *Conostomum* Swartz

- 361 *boreale* Swartz 49, 69, 86—90, 92, 94, 96—100, 102, 108, 112.

70. *Bartramia* Hedw.

- 362 *Œderi* Swartz 34—36, 39, 42—44, 46, 48—50, 57, 60, 62, 64—66, 69, 70, 75—77, 83, 85, 86, 88—92, 97, 99. I. 1, 39.
363 *stricta* Brid. 14, 43, 45. C.

- 364 *ithyphylla* *Brid.* 3, 4, 13—16, 35—37, 40—44, 46—50, 55, 58, 60, 62—103, 105, 107—111. I. 1, 6, 7, 20, 21, 27, 31, 34—36, 38, 39.
- 365 *pomiformis* *Hedw.* 1—27, 29, 30, 32, (33), 34—50, 52, 54—60, 62—92, 94—103, 106—110, 112. C. I. 1, 2, 4—6, 11—13, 19—21, 26, 27, 30, 31, 33, 34, 36—40.
 β *crispa* *B. & S.* 3, 5, 14, 24, 41—43, 47—50, 52, 64—66, 68—70, 72, 73, 75, 76, 82—86, 88—90, 92, 96, 99. I. 1, 2.
- 366 *Halleriana* *Hedw.* 35, 42—44, 48, 49, 62, 64—66, 69, 70, 72, 73, 75, 77, 85—92, 95, 98, 99, 101, 104. I. 1, 2, 4, 6, 7, 20, 27, 36, 39.

71. *Philonotis* *Brid.*

- 367 *Wilsoni* *Braithw.* 48, 90. I. 1, 3.
- 368 *rigida* *Brid.* 1, 10, 35, 48—50, 71, 87. I. 1—3, 20.
- 369 *fontana* *Brid.* 1—9, 11—27, 29, 30, 32, (33), 34—112. C. I. 1—10, 12—16, 18, 20, 21, 25, 27—40.
 β *tomentella* *Mol.* 48, 49, 68, 88, 90, 92, 94. I. 31, 35, 39.
 γ *falcata* *Brid.* 2, 3, 5, 24, 26, 48, 49, 69, 75, 85, 86, 88. I. 20, 31, 34, 39.
 δ *adpressa* (*Ferg.*) *L. & M.* 48, 57, 64—66, 69—71, 88—90, 96—98, 104, 108. I. 38, 39.
 ε *ampliretis* *Dixon* 48, 58, 59, 63, 96.
- 370 *cæspitosa* *Wils.* 3, 5, 7, 8, 11, 13, 14, 22, 27, 37—39, 48, 49, 52, 58, 59, 63, (67), 86, 88. I. 20.
 β *adpressa* *Dism.* 8.
- 371 *seriata* *Mitt.* 88, 90, 92, 96—98, 108, 111. I. 2, 31, 32, 37.
- 372 *calcarea* *Schp.* 3—5, 9, 12, 22, 23, 26, 27, 29, 32—34, 36—40, 42, 44—46, 48—50, 52, 53, 55, 57—71, 74, 75, 78, 79, 81—95, 108, 109, 111. I. 1, 2, 7, 8, 14, 20, 21, 27, 28, 31—33, 35, 37—40.
 β *mollis* *Vent.* 7, 8, 22, 36.
- 373 *capillaris* *Lindb.* 3, 7, 8, 10, 11, 13, 14, 16, 34, 36—38, 40, 42—44, 48—50, 58, 64, (65), 68, 70, 73, 81, 86, 88, 96, 98, 104. I. 38.

72. *Breutelia* *Schp.*

- 374 *arcuata* *Schp.* 1—6, 9, 11, 35, 36, 39, 40, 42—50, 52, 54, 55, 57, (58), 59—62, 64—66, 68—81, 83, 85—92, 95—105, 107—112. I. 1, 2, 5—9, 11, 13, 14, 16, 18, 20, 21, 25—40.

XVIII. BRYACEÆ.

73. *Oreas* *Brid.*

- 375 *Mielichhoferi* *Brid.*
 β *elongata* *B. & S.* 62, 92.

74. *Orthodontium* Schwæg.

- 376 *gracile* Schwaeg. 3, 14, (16), 39, 40, 50, 51, (54), 57, 58, 63, 64, 68, 75, 83, 86.
 β *heterocarpum* Watson 39, 58, 63.

75. *Leptobryum* Wils.

- 377 *pyriforme* Wils. 1—6, 8—11, 13, 14, 16, 17, 19—21, 23, 25—27, 29, 30, 32—34, 36—40, 48—50, 54—66, 68—73, 75, 77, 79, 80, 82—86, 88, 89, 91, 92, 95, 98, 99, 102, 105, 108, 109.
C. I. 3, 4, 7, 21, 31, 33, 34, 38—40.
 β *minus* Husn. 48, 59, 62.

76. *Webera* Hedw.

- 378 *polymorpha* Schp. 46, 48, 49, (58), 65, 68, 69, 71—73, 86—88, 90, 92, 97—99, 108. I. 1, 7, 21.
 β *brachycarpa* Schp. 92.
379 *acuminata* Schp. 48, 49, 65, 69, 70, 85—88, 90, 96—98, 105, 108. I. 1, 2, 20, 31, 38.
380 *elongata* Schwaeg. 3, 11, 35, 36, 39, 40, 42—44, 46—50, 59, 60, 63—66, 68—70, 72, 73, 78, 86—88, 90, 92, 97—99, 105, 108. I. 1, 7, 12, 20, 31, 34, 36, 38—40.
381 *cruda* Schwaeg. 3, 30, 35, 36, 40, 42—44, 46, 48—50, 52, 57, 59, 60, 62—66, 68—70, 72, 73, 75—92, 94—99, 104, 107. I. 1, 20, 21, 34, 38, 39.
382 *nutans* Hedw. 1—30, 32—34, 36—92, 94—112. I. 1—3, 5, 6, 8—12, 14, 16, 18, 20, 21, 25, 29—40.
 β *longiseta* B. & S. 3, 5, 6, 9, 11, 17, 18, 32, 37—40, 48, 50, 57—63, (69), 71, 85, 88, 96, 108. I. 30, 34, 37, 38, 40.
 γ *bicolor* B. & S. 35, 36, 50, 57, 60, 64, 69.
383 *cucullata* Schp. 88, (97), 100, 105.
384 *annotina* Schwaeg. 1, 3—8, 10, 11, 13, 14, 16—18, 21, 22, 27, 32, 34, 36—40, 42, 43, 46, 48—50, 52, 54, 55, 57—60, 62—66, 68—79, 83—86, 88, 90, 92, 94—96, 98, 99, 101, 108, 109, 111. I. 20, 21, 33, 37—39.
 β *erecta* Correns 7, 10, 26—28, 36, 37, 40, 48, 57, 60, 68, 81, 88, 98, 107.
 γ *bulbifera* Correns 19, 48, 49, 54, 57, 58, 64, 68, 79, (87), 108. I. 37.
385 *proligera* Bryhn 1—3, 14, 17, 18, 27, 28, 32, 37—39, 44, 45, 48—50, 57—59, 63, 64, 68, 69, 71, 81—84, 87, 88, 99. I. 38.
386 *Ludwigii* Schp. 41, 48, 49, 65, 69, 70, 86, 88, 90, 92, 94, 96—99, 107, 108.
 β *latifolia* Schp. 70, 88, 97, 108.
387 *commutata* Schp. 48, 49, 59, 69, 83, 86, 88, 92, 96—98, 108, 109.
 β *catenulata* Dilon 88.
388 *gracilis* De Not. 85, 86, 88, 90, 96.

- 389 *carnea* Schp. 1—10, 13—30, 32—42, 44, 45, 47—52, 54—64, 66—72, 75—77, 80—83, 85, 88—93, 95, 98—100, 104, 107—109.
C. I. 4, 5, 8, 9, 20, 21, 27, 33, 38—40.
- 390 *albicans* Schp. 1—10, 12—19, 21—23, 32—73, 75—92, 94—97, 99—102, 106, 108, 109, 111. I. 1, 8, 12, 14, 18, 20, 21, 31—35, 37—40.
 β *glacialis* Schp. 85, 88, 90, 92, 96.
- 391 *calcarea* Warnst. 14. I. 39.
- 392 *Tozeri* Schp. 1—5, 9—11, 13, 14, 16, 17, 34, 36, 42—45, 48, 49.
C. I. 2, 4, 39.

77. *Plagiobryum* Lindb.

- 393 *Zierii* Lindb. 1, 35, 36, 40, 42—44, 47—50, 57, 60, 62, 64—66, 68—70, 72, 73, 75—78, 80, 82, 83, 85—90, 92, 97—99, 101, 105, 108, 109. I. 1, 34, 39, 40.
- 394 *demissum* Lindb. 88, 90, 98.

78. *Bryum* Dill.

A. ANOMOBRYUM.

- 395 *filiforme* Dicks. 3, 36, 40, 42—46, 48, 49, 57, 59, 60, 63—66, 68—73, 75, 76, 78—81, 83, 86—92, 95—99, 101—103, 105, 107—109.
I. 1—3, 6, 7, 16, 20, 21, 27, 28, 30, 31, 34, 35, 37—40.
 β *juliforme* Dixon 1.
*396 *concinnum* Spruce (36), 42, 43, (48), (49), (63), (64), 65, 66, (69), (75), (83), (87), (88), (92), (95), 103. I. (1), (7), (16), (20), (28), (34), (39).

B. PTYCHOSTOMUM.

- 397 *pendulum* Schp. 1—6, 9, 10, 13—16, 21—23, 25, 26, 28, 30, 33, 34, 36—46, 48—50, 52, 54—66, 68—73, 77, 82—88, 90, 95, 96, 102, 104, 108, 109, 111. C. I. 1, 2, 4, 5, 7, 12, 18, 19, 21, 29, 31, 33, 38—40.
- 398 *Warneum* Bland. 4—6, 44, 48, 49, 52, 54, 58—60, 62, 66, 75, 82, 85, 90. I. 21, 29.
- 399 *arcticum* R. Br. 88.

C. CLADODIUM.

- 400 *calophyllum* R. Br. 4, 48, 52, 58, 59, 62, 66, 68, 82, 85, 90, 109.
I. (21).
- 401 *Marratii* Wils. 48, 54, 59, 60, 62, 70, 75, 85, 110. I. (21).
[402 *purpurascens* B. & S. 64].

*396 Some of these records may be doubtful. Others agree quite well with the Pyrenean type, but that is very close to *B. filiforme*, and doubtfully worth maintaining even as a sub-species.

- 403 *lacustre* *Brid.* 4, (6), 9, 25, 26, 42, 48, 52, 54, 56, 58—62, 64—66, 85, 90.
- 404 *mamillatum* *Lindb.* 28, 54, 59.
- 405 *inclinatum* *Bland.* 1—6, 8—14, 16—19, 21, 23—25, 28, 30, 32—40, 42, 44, 45, 48—52, 54—66, 68—71, 73, 77, 82, 83, 85—88, 90, 91, 94, 95, 98, 103, 104, 108, 109, 111, 112. C. I. 2—6, 8, 9, 11, 15, 16, 19, 21, 25—27, 30, 33, 35, 37, 38, 40.
- 406 *uliginosum* *B. & S.* 4, 19, 22, 23, 37—39, 48, 49, 53, 57—66, 68, 70, 77, 82, 85, 86, 90, 92, 108, 109. I. 1 or 2, 7, 18, 19, 21, 32, 33, 35, 39, 40.
- 407 *Lawersianum* *Philib.* 88.

D. LEUCODONTIUM.

- 408 *pallens* *Sw.* 1—11, 13, 14, 16, 17, 19, 21—23, 25, 26, 32—73, 75—92, 94—98, 100—102, 105, 107—112. C. I. 1, 4, 6, 7, 9, 11, 13, 16, 18—21, 23, 25, 27, 30—40.
 β *speciosum* *Schp.* 88.
 β *euryphyllum* *Jones* 48, 49.
- 409 *fallax* *Milde* 14, 49, 59, 88. I. 20.
- 410 *Duvalii* *Voit* 40, 49, 64, 65, 68—70, 72, 77, 87—90, 92, 94, 96, 104, 106, 108, 109, 111. I. 6.
- 411 *cyclophyllum* *B. & S.* 69, 70, 105.
- *412 *turbinatum* *Schwaeg.* (6), 13, (21), (22), 23, 27, (28), (39), 48, (58), 59, (62), (66), 67, (77), (88), 96, (100), (110). I. (21), (39).
 β *latifolium* *B. & S.* 86, 88, 112.

E. EU-BRYUM.

- 413 *neodamense* *Itzigs.* 59, 65, 90, 109.
- 414 *pseudo-triquetrum* *Schwaeg.* 1—9, 11, 13—17, 19, 20, 23, 25—30, 32—54, 56—73, 75—92, 94—105, 107—112. C. I. 1—10, 14, 16, 18—21, 27, 28, 30—40.
 β *compactum* *B. & S.* 2, 4, 13, 48, 49, 51, 52, 59, 60, 70.
- 415 *bimum* *Schreb.* 1—6, 9, 10, 12—16, 18, 19, 21—23, 26, 27, 29, 30, 32—34, 36—40, 43—50, 53—64, 66, 69—75, 77, 82—88, 90, 91, 94, 101, 104, 105, 108, 109. C. I. 1, 2, 4, 5, 8, 13, 14, 18, 20, 21, 27, 28, 30, 31, 33, 34, 37—40.
- 416 *affine* *Lindb.* 3, 13, 14, 16, 19, 22, 23, 32, (37), 38, 43, 56—66, 71, 72, 75, 88, 90. I. 2.
 β *cirratum* *Braithw.* 88, 92, 97.
- 417 *pallescens* *Schleich.* 1, 2, 10, 16, 34, 38, 39, 48—50, 57—60, 62—66, 68—71, 85—90, 92, 98. I. 1, 7, 21, 28, 35, 38, 39.

*412 Sterile plants of 408, etc., are often so named. It would be well if all could be verified.

- 418 *intermedium* *Brid.* 1—6, 8—14, 16—19, 23, 25, 26, 32—34, 36—40, 44—46, 48—50, 52—66, 68—70, 73, 77, 81—83, 85, 86, 89—92, 95, 104, 107—109, 112. C. I. 4, 12, 21, 31, 34, 37—39.
- 419 *cæspiticium* *L.* 1—34, 36—92, 94—96, 98—100, 102, 107—109, 111, 112. C. I. 2, 4—9, 12, 13, 15, 18—21, 23, 27, 28, 30—40.
 β *imbricatum* *B.* & *S.* 14, 36, 43, 57, 62, 63, 66.
 γ *badium* *Brid.* 62, 64, 69.
- 420 *provinciale* *Philib.* 6, 13, 14, 16, 34, 36.
- 421 *capillare* *L.* 1—109, 111, 112. C. I. 1—16, 18—40.
 β *torquescens* *Husn.* 1—6, 10, 13—17, 23, 33, 34, 36, 38, 42, 48, 50, 54, 62, 69, 75, 85, 86, 90, 100. I. 2, 5, 8, 16, 21.
 γ *macrocarpum* *Huebn.* 3, 5, 6, 36—40, 48, 57, 60, 68, 69, 73. I. 2, 19.
 δ *rosulatum* *Mitt.* 13, 14, 33, 34, 54, 60, 61.
 ε *flaccidum* *B.* & *S.* 4—6, 13, (15), 16, 23, 37—39, 47—49, 51, 59, 60, 62, 64, 69, 86.
 ζ *elegans* *Braithw.* 6, 14, 28, 50, 51, 57, 64, 69, 81, 87, 88, 108.
- 422 *obconicum* *Hornschr.* 1—4, 6, 10, 11, 13, 14, 23, 28, 34, 36, 38—40, 49, 50, 58, 62, 64—66, 69, 71, 75, 86, 92, 100, 102, 103. I. 2, 20, 21, 33, 39.
- 423 *rufifolium* *Dixon* 50, 105.
- 424 *Donianum* *Grev.* 1—6, 9, 10, 12—17, (21), 25, (26), 34, 36, 37, 40, 45, 48, 49, 52, 53, 57, 59, (86). I. 1, 3, 4, 20, 21.
- 425 *erythrocarpum* *Schwaeg.* 1—6, 8—11, 13, 14, 16—19, 21—23, 25, 27, 28, 32—40, 44—46, 48—52, 54, 55, 57—63, 69—71, 79, 81, 85, 86, 88—92, 95, 97, 100, 105, 108, 109, 111. C. I. 2—5, 12, 16, 19—21, 25, 27, 36—39.
- 426 *rubens* *Mitt.* (10), 13, 14, 23, 32, 34, 36, 40, 45, 48. I. 18, 27, 35, 39.
- 427 *atropurpureum* *W.* & *M.* 1—30, 32—40, 44—50, 52, 54—65, 68—74, 76, 77, 80—85, 88—91, 94—97, 100, 101, 111. C. I. 1, 2, 4, 5, 8, 9, 16, 19—21, 34, 37—39.
 β *gracilentum* *Tayl.* 1—4, 8, 10, 13, 14, 16—18, 22, 32—34, 36, 37, 39, 40, 45, 50, 57, 62, 63, 66, 68, 79. I. 38.
- 428 *murale* *Wils.* 1—11, 13—19, 22—25, 27, 28, 30, 32—34, 36—42, 44—50, 52, 54, 55, 57, 58, 60, 61, 64, 65, 69—72, 75, 99, 101, 102. C. I. 2, 3, 8, 10, 12, 21, 23, 29—33, 35, 38, 39.
- 429 *alpinum* *Huds.* 1—4, 9—11, 14, 16, 34, 36, 40—52, (55), 57, 59, 60, 63—76, 78, 81—92, 96—112. C. I. 1—4, 6, 7, 9, 13, 14, 16, 20, 21, 25—27, 30, 31, 34, 35, 37—40.
 β *viride* *Husn.* 4, 48—50, 64, 66, 70, 82, 110.
 γ *distantifolium* *Dixon* 70.
 δ *meridionale* *Sehp.* 1, 45, 62, 65.

- 430 *gemmae* *parum* *De Not.* 3, 42.
 431 *Muehlenbeckii* *B. & S.* 69, 97, 105, 108.
 432 *Mildeanum* *Jur.* 36, (39), 42, 49, 64—66, 69, 70, 87, 88, 92, 98, 108. C. I. 1, 2, 21, 39.
 433 *Dixoni* *Card.* 98.
 434 *argenteum* *L.* 1—34, 36—92, 94, 95, 97—105, 109, 111. C. I. 2—6, 8—14, 16, 18—21, 27, 31, 33—40.
 β *majus* *B. & S.* 2, 3, 23, 36, 37, 44, 48, 57—59, 62, 63, 65, 69, 86, 88. I. 20, 21, 39.
 γ *lanatum* *B. & S.* 1—3, 5, 10, 11, 13, 14, 17, 21, 31—34, 36—39, 41, 45, 48—50, 52, 53, 55, 57—60, 63, 65, 68, 69, 82, 83, 85, 89. I. 1, 2, 34, 39.

F. RHODOBRYUM.

- 435 *roseum* *Schreb.* 2—6, 8, 9, 10, 12—17, 20, 22—27, 29, 30, 32—34, 36, 37, 39, 40, 43—46, 48—50, 52, 55—60, 62—78, 81—92, 95, 98—102. I. 1, 2, 4, 5, 15, 34, 38—40.

79. *Mnium* *L.* (*emend.* *B. & S.*)

- 436 *affine* *Bland.* 2—7, 9—17, 19, 21—23, 25, 26, 28, 30, 32, 36—38, 40, 42, 47—51, 54, 55, 57—75, 77, 79, 80, 83—85, 87—91, 94, 95, 107, 109, 111, 112. C. I. 1, 2, 9, 12, 13, 15, 16, 21, 27, 28, 35—40.
 β *elatum* *B. & S.* 2, 5, 7, 10, 13, 14, 16, 18, 23, 28—30, 32, 33, 36—38, 40, 44—46, 48, 55—66, 69, 71, 79, 88, 91, 96, 108, 109, 112. I. 23, 33, 35.
 γ *rugicium* *B. & S.* 6, 17, 18, 21, 27, 32, 55—57, 85, 90, 96, 112.
 437 *cuspidatum* *Hedw.* 1—8, 12—20, 22, 23, 25—27, 29, 32—42, 44—46, 48—50, 52, 53, 55—60, 62—73, 75—77, 79—92, 95, 97, 99, 109, 110, 112. I. 2, 9, 11—15, 23, 25, 26, 28, 38, 40.
 438 *rostratum* *Schrad.* 1—10, 12—30, 32—40, 42—79, 81—92, 95—101, 103, 108, 109, 111, 112. C. I. 2—5, 11, 13, 20, 21, 26, 29, 30, 32—40.
 439 *undulatum* *L.* 1—101, 104, 106—109, 111, 112. C. I. 1, 2, 4—16, 18—25, 27—40.
 440 *hornum* *L.* 1—20, 32—34, 36—112. C. I. 1—21, 23—40.
 441 *serratum* *Schrad.* 3, 13, 14, 17, 26, 34—37, 39, 40, 42, 44, 46, 48—51, 53, 54, [55], 57—73, 75—79, 81—92, 95, 99, 101, 108, 111, 112. I. 1, 20, 28, 39.
 442 *orthorrhynchum* *B. & S.* 49, 59, 60, 64, 65, 69, 70, 88, 108.
 443 *lycopodioides* *Schwaeg.* 88.
 444 *riparium* *Mitt.* 13, (14), 36, 37, 62, 70, 77, 88. I. 26, 37, 39.
 445 *spinosum* *Schwaeg.* 88—90.

- 446 *stellare* *Reich.* 3—6, 10, 12, 13, 15—17, 24, 32—44, 48—52, 54—73, 75—79, 81—88, 90, 91, 97, 99, 101, 107. I. 2, 6, 20, 33, 36, 39.
- 447 *cinctidioides* *Huebn.* 48, 49, 69, 75, 76, 87, 88, 90—92, 99, 109.
- 448 *punctatum* *L.* 1—27, 29, 30, 32—34, 36—93, 95—105, 107—112. C. I. 1—4, 6—9, 11—16, 18, 20—22, 26—36, 38—40.
 β *elatum* *Schp.* 42, 56, 57, 62, 65, 70, 88, 90, 92, 96, 97, 108.
- 449 *subglobosum* *B. & S.* 3, 5, 6, 10, 12, 14, 18, 26, 27, 36—42, 44, 47—49, 56—60, 62—66, 68—70, 72—78, 80—92, 95—97, 101, 103, 105, 109. I. 2, 6, 12, 21, 27, 31, 32, 36—39.

80. *Cinclidium* Swartz

- 450 *stygium* *Swartz* 26, 27, 48, 60, 64—66, 69, 87—91, 98, 108.

XIX. FONTINALACEÆ.

81. *Fontinalis* Dill.

- 451 *antipyretica* *L.* 1—19, 21—34, 36—92, 94—99, 101—103, 106—112. C. I. 1, 2, 4, 6—9, 11, 13, 14, 16—21, 25—40.
 β *gigantea* *Sull.* (2), 38, 46, 49, 57, 64, 89. I. 22, 26, 36, 38—40.
 γ *gracilis* *Schp.* 1, 2, 37, 39, 45, 48, 50, 57, 60, 63—65, 68, 70, 71, 78, 83, 86, 88—90, 96, 97, 103, 108, 112. I. 1, 12, 21, 38, 39.
 δ *cymbifolia* *Nicholson* 7, 14, 24, 31, 32.
- 452 *dolosa* *Cardot* 30, 40.
- 453 *squamosa* *L.* 1—3, 5, 21, 31, 36, 37, 39, 40, 42—50, 57—60, 62—66, 68—73, 75—77, 80, 83, 86—92, 95—99, 104, 108. I. 1, 2, 4—6, 8, 16, 20, 21, 27, 38, 40.
 β *Curnowii* *Cardot* 1, (57), 58.
- *454 *dalecarlica* *B. & S.* (3), 36, 60.
- 455 *Dixoni* *Cardot* 48, 49, 57, 103, 110.
- 456 *seriata* *Lindb.* 36.

XX. CRYPHÆACEÆ.

82. *Cryphæa* Mohr

- 457 *heteromalla* *Mohr* 1—27, 29, 30, 32—34, 36—40, 44—46, 48, 49, 52, 54—58, 61, 62, 64—73, 75, 77, 80—83, 85, 87, (88), 90, 98. C. I. 2, 4, 8—14, 16, 18—21, 23, 28, 30, 32, 33, 36—40.

β *aquatilis* *C.M.* 3.

*454 Records all doubtful in the absence of fruit.

XXI. NECKERACEÆ.

83. Neckera Hedw.

- 458 *pennata* *Hedw.* 90.
 459 *crispa* *Hedw.* 1—4, 6, 8—17, 20, 21, 23, 24, 30, 33—37, 39, 40—57,
 59—73, 75—77, 80, 81, 83, 85—92, 94, 97—101, 103, 104,
 106, 108, 109. C. I. 1, 2, 4—9, 15—17, 25, 26, 28—31,
 33—35, 38—40.
 β *falcata* *Boul.* 3, 6, 13, 14, 16, 17, 33, 34, 36, 37, 39, 48—51, 57,
 59, 60, 62, 64, 65, 69, 81, 88.
 460 *pumila* *Hedw.* 1—20, 22, 23, 27, 28, 32—36, (37), 40, 41, 44, 45,
 47—50, 52, (55), 56—58, 62, 64, 65, 69, 70, 72, 73, 75, 77,
 85, 87, 88, 90, 98, 99. I. 1, 4—6, 9, 14, 18, 20, 22, 23, 38.
 β *Philippeana* *Milde* 2—9, 13, 14, 17, 33, 35, 44, 45, 48, 49, 60,
 64, 69, 70, 73, 87, 88, 97. I. 14, 22, 30.
 461 *complanata* *Huebn.* 1—34, 36—92, 95—101, 103, 104, 107—109,
 111. C. I. 1, 2, 4—34, 36—40.
 β *tenella* *Schp.* 32, 38.

84. Homalia Brid.

- 462 *trichomanoides* *B. & S.* 1—27, 29—92, 97—100, 109, 111. C. I.
 3—6, 8, 9, 13, 14, 16, 18, 20, 21, 26, 28, 29, 33—40.

XXII. HOOKERIACEÆ.

85. Daltonia Hook. & Tayl.

- 463 *splachnoides* *Hook. & Tayl.* I. 1, 2, 21.

86. Hookeria Tayl.

- 464 *laete-virens* *Hook. & Tayl.* I. I. 1, 2, 4, 6.

87. Pterygophyllum Brid.

- 465 *lucens* *Brid.* 1—6, 8, 9, 13—18, 27, 34—37, 39—52, 55, 57—60,
 62—78, 80—104, 107—112. C. I. 1—4, 6—9, 11
 13—16, 20, 21, 27—29, 31—36, 38—40.

XXIII. LEUCODONTACEÆ.

88. Leucodon Schwæg.

- 466 *sciurooides* *Schwæg.* 1—45, 47—50, 52—73, 78—83, 85, 87—92, 94,
 97, 103, 108. I. 3, 9, 11, 14, 16, 18, 20—23, 39.
 β *morensis* *B. & S.* 2, 17, 22, 73, 88, 90.

89. *Pterogonium* Swartz

- 467 *gracile* *Swartz* 1—5, 7, 9, 11—14, 16, 17, 26, 34, 36, 37, 43—52,
60, 64—66, 68—75, 79—83, 85—92, 97—102, 104, 108, 112.
C. I. 1—6, 20, 21, 31, 33, 39.
 β *harlecorensis* *Jones* 48, 49, 88.

90. *Habrodon* Schp.

- 468 *Notarisii* *Schp.* 3, 4, 6, 64, 69, 70, 75, 86, 88, 98—100.

91. *Helicodontium* Schwæg.

- 469 *pulvinatum* *Lindb.* 9, 14, 36, 58, 59, 61—65, 73, 75, 77, 86, 88, 89.

92. *Antitrichia* Brid.

- 470 *curtipendula* *Brid.* 2—4, 6, 9, 10, 12—15, 18—23, 25, 27, 32, 33,
36, 37, 39, 40, 46—49, 52, 55, 57, 60—62, 64—66, 68—70,
72—75, 77—83, 85—92, 94—99, 101, 103, 104, 108, 109.
I. 1, 6, 12, 20, 21, 28, 32, 34, 39, 40.

93. *Porotrichum* Brid.

- 471 *alopecurum* *Mitt.* 1—27, 29—92, 94—104, 108, 109, 111, 112.
C. I. 1—15, 17—23, 25—40.

β *aridulum* *Jones* 48.

- 472 *angustifolium* *Dixon* 57. I. 39 (?).

XXIV. LESKEACEÆ.

94. *Myurella* B. & S.

- 473 *julacea* *B. & S.* 49, 64, 69, 88, 90, 98. I. 6, 16.
 β *scabrifolia* *Lindb.* 88.
474 *apiculata* *B. & S.* 88.

95. *Leskea* Hedw.

- 475 *polycarpa* *Ehrh.* 1—9, 11—25, 29—34, 36—50, 52—70, 72—77,
80—86, 88—91. I. 1, 2, 8, 20, 21, 25, 28, 29, 34, 35,
37—40.
476 *nervosa* *Myrin* 88.

96. *Anomodon* Hook. & Tayl.

- 477 *longifolius* *Hartm.* 6, 34—36, 64, 65, 66, 88, 90.
478 *attenuatus* *Huebn.* 88, 90.
479 *viticulosus* *Hook. & Tayl.* 1—27, 29, 30, 32—45, 48—52, 54—73,
75—77, 79—81, 83, 85—91, 98, 101, 108. I. 1—5, 7—11,
13—23, 25, 26, 28—31, 33—36, 38—40.

97. *Leptodon* Mohr480 *Smithii* Mohr 1—15, 17, 18, [41], 45, 48, 49, 52, 70, 71. C.98. *Pterigynandrum* Hedw.481 *filiforme* Hedw. 42, 49, (64), (65), 67—70, 73, (75), 86, 88—90, 92—94, 96, 98, 102, 107, 108. I. 1, 20, 21, 38, 40.
 β *heteropterum* B. & S. 49, (75), 88, 89.99. *Heterocladium* B. & S.482 *heteropterum* B. & S. 1—5, 13, 14, 16, 34—37, 40—50, 52, 55, 57—60, 62—66, 68—78, 81—84, 86—92, 96—102, 105, 107—110. I. 1—4, 6, 7, 13, 15, 16, 20, 21, 27, 31, 34, 35, 38, 39.
 β *fallax* Milde 1—6, 14, 34—37, 39, 40, 42—45, 47, 48, 50, 64, 68, 69, 73, 75, 77, 81, 83, 86, 90. I. 2, 33—35, 38, 39.
483 *Macounii* Best 88, 97, 98. I. 28, 38.
484 *dimorphum* B. & S. 86, 88, 90, 96, 99.100. *Pseudoleskea* B. & S.485 *atrovirens* B. & S. [80], (85), 87—90, 92, 97, 98, (102).
486 *patens* Limpr. (49), 88, 90.
487 *catenulata* B. & S. 64—66, 69, 70 (72), 86, 88—90, (91), 97, 98, 108, (110).
488 *striata* Dixon
 β *saxicola* B. & S. 88.101. *Thuidium* B. & S.489 *abietinum* B. & S. 1, 8, 13, 17, 19, 20, 23, 25—29, 32, 33, 41, 44, 45, 49, 52, 64, 66, 75, 85, (87), 88—90, 94. I. 16, 21, 27, 28, 34, 35, 40.
490 *hystricosum* Mitt. 7, 11, 12, 15—17, 23, 24, 26, 64, 65, 88.
491 *Blandovii* B. & S. [58], [62], 64, 65.
492 *tamariscinum* B. & S. 1—112. C. I. 1—40.
493 *delicatulum* Mitt. 3, 5, 34, 42, 47—50, 60, 64, 69, 70, (73), (75), 87, 88, (90), 97—99, 103, 108, 109. I. 1, 16, 20, 21, 23, 27, 29, 33, 35, 38—40.
*494 *recognitum* Lindb. (3), (4), 6, (7), (8), (9), (11), (16), (17), (20), (21), (23), (24), (25), (32), 34, 36, 37, (43), (48), 50, (55), (57), (59), (60), (61), (62), (63), 64, (69), (70), (72), (73), (74), (75), (76), (77), (82), (83), (84), (86), (87), 88, (89), (90), (91), 96, (98), (99), (101), (108). I. (1), (3), (8), (31), (34), (38), 40.*494 Many of the older records belong without doubt to *T. Philiberti*; it is desirable to have them all verified.

- 495 *Philiberti Limpr.* 4—8, 10, 13, 14, 17, 23, 25, 26, 32—34, 37, 38, 42, 48, 50—52, 54, 62—64, 88, 98, 109.

XXV. HYPNACEÆ.

102. *Climacium W. & M.*

- 496 *dendroides Web. & Mohr* 1—9, 11—18, 20—23, 25—30, 32—34, 36—46, 48—92, 95—103, 108—111. I. 1—4, 6, 8, 13—15, 17, 20, 21, 24—30, 32—40.

103. *Cylindrothecium B. & S.*

- 497 *concinnum Schp.* 6—8, 10—14, 16, 17, 23, 24, 30, 32—34, 36, 37, 50, 53, 57, 59—62, 64—66, 69, 71, 88—90, 92, 108, 109. I. 1, 6, 20, 21, 33—35, 38—40.

104. *Myurium Schp.*

- 498 *Hebridarum Schp.* 97, 103, 104, 110.

105. *Pylaisia B. & S.*

- 499 *polyantha B. & S.* (4), 13, 14, 17, 19, 33, 34, 36—38, 49, 52, 54, 55, 57, 61, 62, 64—66, 68, (69), 73—75, 78, 81, 83, 85, 88, 90. C. I. 1, 2, 5, (38).

106. *Orthothecium B. & S.*

- 500 *rufescens B. & S.* 42, 49, (56), 63—65, 69, 87—90, 92, 97—99, 103, 104, 108, 112. I. 28, 29, 35.

- 501 *intricatum B. & S.* 1, 4, 6, 34, 36, 42, 43, 48—51, 57, 59, 60, 62—66, 69—71, 73, 75—77, 80, 83, 86—90, 92, 98, 108. I. 1, 2, 28, 29, 33—35, 39.

β *binervulum Husn.* Scot.

γ *abbreviatum Dixon* 64, 69.

107. *Camptothecium B. & S.*

- 502 *sericeum Kindb.* 1—92, 94—104, 106—109, 111, 112. C. I. 1—40.

- 503 *lutescens B. & S.* 1—34, 36—41, 43—66, 68—73, 75, 77, 78, 80—85, 87—92, 102—104, 107—111. C. I. 1, 2, 4—6, 8—16, 18—21, 23—25, 27—35, 37—40.

- 504 *nitens Schp.* 1, 26, 27, [37], 40, [58], 62, 64—66, 68, 77, 78, 80, 81, 83, 85, 88, 90, 98.

108. *Brachythecium B. & S.*

- 505 *plicatum B. & S.* 88.

- 506 *glareosum B. & S.* 1—17, 19—25, 27, 30, 32—34, 36—40, 43, 48, 49, 54, 55, 57—65, 68, 69, 72, 75, 77, 79, 81—83, 85, 86, 88, 90, 91, 95, 108. C. I. 1, 3, 16, 20, 21, 28, 29, 31, 33, 38—40.

- 507 **albicans** *B. & S.* 1—34, 36—41, 43—64, 66—75, 77, 78, 80—92, 94—97, 100, 101, 103, 104, 107—109, 111, 112. C. I. 1, 4, 5, 21, 27, 31, 34, 35, 37—40.
- 508 **salebrosum** *B. & S.* 1, (6), 8, 9, 14—18, 21—23, 27, 32, 33, 36—39, 48, 53—56, 58—60, 62, 64, 66, 68—70, 77, 80, 82, 85, 88—92, 94, 97, 100, 107. I. 1, 4—6, 12, 16, 20, 21, 27, 31—33, 35, 37—40.
 β *palustre Schp.* 1, 2, 4—6, 10, 11, 13—16, 19, 24, 32, (34), 36—39, (41), 44, 45, 48, 49, 52, 54, 55, 57—60, 62, 68, 69, 75, 83, 85, 86, 88, 91, 92, 107, 111. I. 21, 27, 28, 35.
[*campestre B. & S.* 58. I. 33].
- 509 **rutabulum** *B. & S.* 1—93, 95—104, 106, 108—112. C. I. 1—40.
- 510 **rivulare** *B. & S.* 1—9, 11—14, 16—19, 21—26, 32—52, 54—73, 75—92, 94, 95—101, 103, 107—112. C. I. 1, 2, 5—13, 15, 16, 18, 20, 21, 26—35, 37—40.
 β *latifolium Husn.* 39, 46, 48, 49, 60, 64, 66, 70.
 γ *tenue Dixon* 14. I. 21.
 δ *chrysophyllum Bagnall* 3, 5, 33, 37—39, 48, 49, (55), 60, 88, 108.
- 511 **Starkei** *B. & S.* 88.
- 512 **glaciale** *B. & S.* 88, 92.
- 513 **reflexum** *B. & S.* 88, 90, 92, 97.
- 514 **velutinum** *B. & S.* 1—30, 32—52, 54—73, 77—96, 99, 101, 102, 106, 109. C. I. 1, 2, 5—9, 12, 13, 16, 21—24, 26—28, 30, 32—40.
- 515 **populeum** *B. & S.* 1—9, 11, 14—17, 19, 21—23, 27, 32—55, 57—86, 88—94, 96—99, 101, 103, 104, 109, 111. I. 1, 2, 4—8, 10—13, 15, 20—22, 25, 27—30, 32—40.
 β *majus B. & S.* 50, 62, 64, 87. I. 27, 30.
- 516 **plumosum** *B. & S.* 1—6, 13, 14, 16, (21), 27 or 28, 34—37, 39—92, 94—101, 103, 105, 107—109, 111. C. I. 1—4, 6—10, 12—14, 18, 20, 21, 27—36, 38—40.
- 517 **cæspitosum** *Dixon* 1, 3—6, 8, 9, 12—17, 21, 22, 32—34, 36—40, 42, 43, 45, 46, 48, 52, 55, 57, 58, (59), 61—64, 70, 73, 89 or 90. C.
- 518 **illecebrum** *De Not.* 1—7, 9, 11—20, 22, 23, 26, 27, 33—40, 42, 43, 45, 49, 50, 52, 56—58, 71, 72, 88. C. I. 1, 2, 4, 5, 7, 12, 21, 37, 39.
- 519 **purum** *Dixon* 1—34, 36—92, 95—104, 106, 108—112. C. I. 1—9, 11—18, 20—40.

109. *Hyocomium* B. & S.

- 520 **flagellare** *B. & S.* 1—5, 11, 14, 35, 39—50, 57—60, 62—76, 86—88, 90—92, 97—101, 104, 105, 107—111. I. 1—4, 6, 7, 11—14, 16, 20, 21, 26—28, 30, 31, 33—40.

- 110. Eurhynchium B. & S. (*emend.* Milde.)**
- 521 *cirrosum* *Jur.* 88.
- 522 *piliferum* *B. & S.* 1—27, 30, 32—34, 36—40, 42, 44, 45, 47—50, 52—78, 80—91, 93—100, 106, 109—111. *C. I.* 1, 4, 5, 7, 9, 11, 12, 14, 15, 20, 21, 28, 29, 33—35, 37—39.
- 523 *crassinervium* *B. & S.* 1—14, 16, 17, 19—24, 30, 32—37, 39—45, 48—55, 57, 59—75, 77, 80—84, 86—88, 90, 91, 101, 108, 111. *C. I.* 1, 2, 4, 5, 8—10, 12, 15, 16, 20, 22, 26, 27, 33, 36, 39.
- 524 *speciosum* *Schp.* 1—3, 8, 10, 13, 14, 16—18, 20—23, 32, 33, (34), 36—38, 40, 42, 44—46, 48, 49, (50), 52, 54, 55, 58—62, 64, 68, 69, 71, 90, 102, 109. *C. I.* 2, 4, 20, 21, 38, 39.
- 525 *praelongum* *Hobk.* 1—50, 52—104, 106—112. *C. I.* 1—9, 11—40.
 β *Stokesii* *Brid.* 1—6, 9, 10, 15, 23, 27, 33, 34, 36—40, 42—45, 47—50, 55—58, 60, 62, 68, 69, 73, 85, 86, 88, 92, 94, 96, 99, 100, 107, 108, 111. *C. I.* 2, 7, 13, 17, 18, 20, 21, 25—29, 31—34, 36—40.
- 526 *Swartzii* *Hobk.* 1—92, 94, 95, 98, 99, 101, 104, 105, 107—109, 111. *C. I.* 1, 2, 4, 5, 8, 11—15, 17, 21, 23, 26—30, 32—34, 36—40.
 β *rigidum* *Boul.* 10, 14, 23, 62, 67, 68, 81, 108.
- 527 *abbreviatum* *Schp.* 3—5, 7, 10—14, 16, 17, 21—23, 27, 33—38, 40, 42, 43, 60, 62, 64, 68, 81, 108.
- 528 *pumilum* *Schp.* 1—14, 16, 17, 19—25, 27, 28, 32—45, 47—50, 52, 54, 56—66, 68—70, 73, 75—77, 80, 81, 85, 86, 88—91, 97, 99, 100, 102, 103, 111. *C. I.* 1, 2, 4, 5, 11, 16, 20, 21, 29, 32, 33, 37—39.
- 529 *curvisetum* *Husn.* 5—7, 10, 13—16, 23, 32—37, 40, 62. *C. I.* 39.
- 530 *Teesdalei* *Schp.* (1), 3, 5, 6, 10, 12, 22, 23, 33—38, 40, 42, 43, 45, 49—52, 57, 58, 60—62, 64, 65, 68—70, 75—77, 81, 85—91, 99, 100, 111. *C. I.* 3, 16, 20, 21, 33, 38—40.
- 531 *tenellum* *Milde* 1—6, 8—19, 21—25, 27, 29, 30, 32—42, 44—46, 48—50, 52—58, 60—66, 68—77, 81—83, 85, 88—91, 97, 100, 101, 108. *C. I.* 1, 2, 4, 5, 8, 11—13, 16, 17, 18, 20—23, 27, 30, 31, 33, 38, 39.
 β *scabrellum* *Dixon* 3, 11, 13, 14, 16, 17, 21.
- 532 *myosuroides* *Schp.* 1—14, 16—25, 27—30, 32—34, 36—52, 54, 55, (56), 57—92, 94—112. *C. I.* 1—7, 9—14, 16—18, 20—22, 25—40.
 β *rivulare* *Holt* 3, 42—44, 46—50, 64, 69, 87, 97, 98. *I.* 1—3.
 γ *brachytheciooides* *Dixon* 88, 95, (99), 104, 108, (110). *I.* 1, 16, 27, 30, 33, 34.

- 533 **myurum** *Dixon* 1—14, 16—27, 30, 32—34, 36—52, 54—92, 94—104, 106—112. C. I. 1, 2, 4—6, 8—14, 16, 17, 20, 21, 24—27, 29—35, 38—40.
 β minus *Bagnall* 25, 32, 38.
- 534 **circinatum** *B. & S.* 1—4, 6, 9—11, 14—17, 34—36, 41, 44, 45, 52, C. I. 1, 2, 5, 8, 9.
- 535 **strigosum** *B. & S.* 1.
 β *diversifolium* *Lindb.* 90.
- 536 **striatum** *B. & S.* 1—30, 32—77, 79—92, 94—103, 107—111. C. I. 1—40.
- 537 **meridionale** *De Not.* (6), 9.
- 538 **striatulum** *B. & S.* 3, 6, 9, 10, 12—14, 16, 34—36, 45, 52, 57. I. 1, 2, 8, 20.
- 539 **rusciforme** *Milde* 1—14, 16—27, 29—92, 94—104, 106—109, 111, 112. C. I. 1—14, 16—21, 24—40.
 β *alopecuroides* *Brid.* 1, 3, 36, 46, 48, (49), 50, 51, 57, 60, 108. I. 19, 21, 35.
 γ *atlanticum* *Brid.* 3, 4, 13, 38, 39, 47, 48, 56, 60, 62—64, 66, 76, 79, 81, 86, 100. I. 1, 7, 8, 21, 35.
- 540 **murale** *Milde* 1, 3—19, 21—26, 28, 30, 32—42, 44, 45, 48—50, 52—69, 73, 75, 77, 80—86, 89, 92, 94, 98, 99, 111. C. I. 4, 5, 7, 8, 12, 18, 20, 21, 22, 28, 34, 36—40.
 β *complanatum* *B. & S.* 36, 44, 56, 60, 63—65.
 γ *julaceum* *B. & S.* 14, 33, 34, 36—40, 42, 49, 57, 59, 60, 62, 64, 65, 68, 81.
- 541 **confertum** *Milde* 1—42, 44—86, 88—91, 95, 97—99, 101, 103, 105, 109, 111. C. I. 1—5, 8—14, 17—21, 27—34, 36—40.
- 542 **megapolitanum** *Milde* 1—4, 6, 7, 10, 13—17, 19, 21—25, 28, (34), 37, 38, 44, 45, 54, 56—60, 85. C. I. 1, 21.
- 543 **rotundifolium** *Milde* 6, 33.

111. Sematophyllum Mitt.

- 544 **demissum** *Mitt.* 48, 49, 70. I. 1—3.
 545 **micans** *Braithw.* 48, 70, 97, 98. I. 1—3.

112. Plagiothecium B. & S.

- 546 **depressum** *Dixon* 3—6, 8, 10, 13—17, 33—37, 40, 43, 44, 48, 50, 52, 55—66, 68, 69, 71—73, 75, 77, 81, 83—90. I. 2, 16, 21, 29, 38.
- 547 **elegans** *Sull.* 1—8, 10—14, 16—19, 21—23, 27, 32—50, 52, 54, 55, 57—73, 75—79, 81—91, 94, 96—103, 107—109, 111, 112. C. I. 1—3, 6—9, 11—13, 20, 25—31, 33—39.
 β *collinum* *Wils.* 13, 36, 58, 60, 64, 88.
- 548 **Muellerianum** *Schp.* 88, 98, 106, 108.
- 549 **piliferum** *B. & S.* 88.

- 550 **pulchellum** *B. & S.* 3, 19, 35, 36, 42, 44, 46—49, 51, 57, 59, 60, 62—66, 68—73, 75—77, 81—83, 85—92, 95—101, 103, 104, 107, 108, 111, 112. *I.* 1, 2, 7, 20, 21, 27, 28, 33—35, 38—40.
 β *nitidulum* *Husn.* 63—65, 69, 86, 88, 92, 108.
- 551 **silesiacum** *B. & S.* 14, 16, 61, 62, 65.
- 552 **Muehlenbeckii** *B. & S.* 49, 71, 86—90, 92, 96, 98, 99, 106, 108, 109.
- 553 **denticulatum** *B. & S.* 1—28, 30, 32—103, 108—112. *C. I.* 1, 2, 4—7, 9, 11, 13, 14, 16, 19—21, 27—36, 38—40.
 β *aptychus* *Spruce* 14, 16, 30, 32, 36—40, 57, 60—64, 92, 104.
 γ *majus* *Boul.* 18, 36, 37, 48, 49, 51, 57—60, 62, 64, 70, 79, 83, 88, 96, 108. *I.* 38.
 δ *obtusifolium* *H. & T.* 3, 4, 13, 49, 64, 69, 87, 88, 90, 92, 96, 108, 109. *I.* 7, 28, 34.
- 554 **silvaticum** *B. & S.* 1—24, 26—28, 32—42, 44, 45, 47—79, 81—92, 97, 100, 101, 103, 105, 111. *C. I.* 1, 2, 6, 7, 9, 13, 20, 21, 25—27, 29, 30, 32, 33, 35, 36, 38, 39.
 β *Sullivantiae* *Spruce* 58, 69.
 γ *succulentum* *Wils.* 1, 49, 58, 59, 63.
- 555 **undulatum** *B. & S.* 1—11, 13—18, 20—27, 30, 32, 34, 36—40, 42—112. *I.* 1—9, 11—14, 16, 20, 21, 24—36, 38—40.
- 556 **latebricola** *B. & S.* 3, 6, 10, 13, 14, 16, 17, 22, 25, 33—40, 45, 48, 54, 57—59, 62—65, 81, 86, 87, (88), 105.

113. *Amblystegium* *B. & S.*

- 557 **Sprucei** *B. & S.* 34, 36, 37, 40, 42, 48, 57, 59, 62—66, 69, 88, 92, 99, 108. *I.* 21, 23.
- 558 **confervoides** *B. & S.* 3, 6, 33, 34, 36, 39, 57, 62, 64, 65, 69, 90. *I.* 16, 20, 21, 28, 40.
- 559 **compactum** *Aust.* 34, 36, 37, 40, 57, 60, 68, 81, 108.
- 560 **serpens** *B. & S.* 1—92, 94—96, 99—104, 106, 108, 109, 111, 112. *C. I.* 1—4, 7—14, 16, 18—25, 28—40.
 β *salinum* *Carr.* 1, 41, 44, 48, 50, 52, 59, 60, 62, 68, 69, 82, 108, 109. *I.* 21, 34, 38—40.
- 561 **Juratzkanum** *Schp.* 1, 3, 5—7, 10, 13, 14, 16—18, 21—24, 32—34, 36—40, 42, 45, 48, 50, 51, 54, 55, 57—66, 68, 71, 79, 81, 82, 88, 89, 111. *I.* 38, 39.
- 562 **Kochii** *B. & S.* 3, 8, 13, 14, 16, 17, 32, 36, 48, 50, 54, 61—63, 85. *I.* 40.
- 563 **varium** *Lindb.* 2, 3, 6—8, 10, 13, 14, 16, 17, 21, 23—26, 32, 33, 36—40, 45, 48, 49, 52, 55—60, 62—65, 69, 70, 80, 85, 97. *C. I.* 8, 24, 33, (34), 35, 37, 39, 40.
- 564 **irriguum** *B. & S.* 2—6, 9, 12—17, 19, 21—23, 25, 32—40, 42—45, 47—50, 52, 54—69, 73, 75, 77, 78, 80, 81, 83, 85—90, 106, 109, 111. *C. I.* 1, 5, 8, 9, 21, 25, 28, 33, 37—39.

- 565 **fluviatile** *B. & S.* 2—5, 33—40, 42—45, 48—50, 53, 57, 58, 60, 62—67, 69, 72—79, 81, 83, 85—88, 90, (95), 99, 103, 109. C. I. (4), 5, 15, 35, 38, 39.
- 566 **filicinum** *De Not.* 1—30, 32—45, 47—92, 94—101, 103, 104, 106—109, 111, 112. C. I. 1, 2, 4—11, 13, 14, 16—18, 20, 21, 26—40.
 β *vallisclausæ* *Dixon* 1, 3, 6, 10, 13, 14, 29, 32—34, 36—40, 49, 53—55, 57, 62, 64, 65, 73—75, 81, 85, 88, 99. I. 8, 18, 21, 38, 39.
 γ *trichodes* *Brid.* 5, 6, 17, 36, 37, 40, 42, 43, 48, 50, 51, 57, 59, 60, 64—66, 68, 75, 79, 81, 108, 109. I. 21, 33, 34, 38, 40.
 δ *Whiteheadii* *Wheldon* 48, 59, 60, 68, 82.
- 567 **curvicaule** *Lindb.* 88.
 β *strictum* *Dixon* 88.

114. Hypnum L. (*emend. B. & S.*)

A. CAMPYLIUM.

- 568 **riparium** *L.* 1—30, 32—34, 36—40, 44, 45, 48, 49, (50), 51—70, 73, 76, 77, 80—86, 88, 90, 92, 102—105, 111. C. I. 1, 4—6, 8, 11, 12, 20, 21, 27, 30, 31, 35—39.
 β *longifolium* *Schp.* 5, 6, 14, 16, 18, 23, 32, 33, 36—40, 45, 48, 51—53, 55, 57—62, (63), 64, 66, 71, 77, 88, 99, 105. C. I. 38, 39.
 γ *splendens* *De Not.* 32, 37, 39.
- 569 **elodes** *Spruce* 1, 4, 15, 17, 26, 27—29, 38, 40, 44, 48—52, 59—62, 64, 65, 68, 73, 80—82, 85, 90, 99, 112. I. 2, 16, 20, 21, 33, 40.
- 570 **polygamum** *Schp.* 3—6, 9, 13—15, 17, 26, 27, 37—39, 43—45, 48—50, 52, 55, 58—62, 64, 68, 69, 74, 75, 77, 80, 81, 83, 85, 86, 90, 91, 100, 102, 109. I. 12, 16, 20, 21, 27, 28, 31—34, 37—39.
 β *stagnatum* *Wils.* 14, 16, 23, 26, 27, 38, 39, 43, 58—61, 64, (83), 85, 86, (87), I. 20.
 γ *minus* *Schp.* 27, 40, 45. I. 33.
- 571 **stellatum** *Schreb.* 1—9, 11—30, 32, 34—52, 54—92, 94—102, 107—112. C. I. 1, 2, 4, 8, 9, 11, 13—16, 18, 20, 21, 25—29, 31—40.
 β *protensum* *Roehl* 2—4, 6, 8, 11, 12, 14, 16, 18, 24, 25, 32—34, 36, 37, 40, 44, 45, 48, 50, 51, 53, 55, 57, 59—70, 73, 75—77, 81, 83, 84, 86, 88, 89, 98, 99, 101, 106, 108, 109, 111. I. 7—9, 28, 31—35, 37, 40.
- 572 **chrysophyllum** *Brid.* 1—3, 5—18, 21—24, 26, 29, 30, 32—41, 44, 45, 47—64, 66, 68—71, 75, 77, 80—83, 85, 86, 88—90, 92, 96, 100, 107—109. C. I. 2, 4, 5, 11, 12, 17, 18, 20, 21, 26—40.

- β erectum *Bagnall* 16, 39, 40, 57, 63, 64, 66, 70. I. 9, 10, 34, 35, 40.
 573 *hispidulum* *Brid.* var. *Sommerfeltii* *Myr.* 3, (6), 9, 10, 13—17
 21, 23, 24, 32—37, 40, 49, 52, 55, 57, 58, 61, 62, 64, 65,
 69, 73, 75, 85, 86, 88—90, 112. I. 16, 21, 23, 26, 39, 40.
 574 *Halleri* *Linn.* fil. 88, (98).

B. HARPIDIUM.

- 575 *aduncum* *Hedw.* non *L.* 1—4, 6—8, 13—18, 20—23, 25—30,
 32—34, 36—40, 45, 48, 49, 52, 54—65, 68—70, 73, 76,
 77, 80, 81, 83—92, 94—96, 98—100, 102, 111. I. 35, 38.
 β *gracilescens* *Schp.* 1, 3, 6, 14, 17, 18, 20, 26, 29, 30, 32—34,
 48, 53, 58—63, 88. I. 8.
 γ *aquaticum* *Sanio* 1, 6, 14, 18, 19, 22, 48, 52, 54, 55, 58, 59—62,
 65.
 δ *polycarpon* *Bland.* 1—3, 6, 8, 12—16, 18, 22, 23, 25—27, 30,
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 2, 4, 20, 21, 29, 34, 37—39.
 ε *pungens* *H. Müll.* 32, 45, 57, 58.
 ζ *intermedium* *Schp.* 3, 5—7, 8, 10, 15, 16, 19, 21, 23, 24, 27,
 28, 33, 36, 37, 44, 45, 49, 51, 53, 54, 57—63, 65, 88. I.
 37, 38, 40.
 η *paternum* *Sanio* 3—6, 8, 13, 14, 16, 19, 21, 25, 27, 29, 32—34,
 36, 37, 38, 40, 45, 51, 57—65, 82. I. 28, 35, 38.
 576 *Sendtneri* *Schp.* 2, 3, 27, 30, 37—39, 48, 52, 56—62, 64, 69, 70,
 82, 86, 87, (99). I. 28, 31, 35—37, 39, 40.
 577 *Wilsoni* *Schp.* 1, 23, 27, (28), 32, 52, 54, 58, 59—63, 65, 68,
 82, 90, 100. I. 37.
 β *hamatum* *Lindb.* 24, 26, 32, 59—61, 65. I. 37.
 578 *lycopodioides* *Schwaeg.* 1—4, 12, 16, 25, 27, 32, 52, 54, 59—62,
 65—70, 85, 90. I. 20, 21, 38, 39.
 579 *fluitans* *L.* 1—6, 8, 9, 11—14, 16—18, 20, 21, 23—30, 32, 33, 35,
 42, 48, 50, 52, 54—78, 81—92, 95, 97, 98, 100, 101, 103,
 105, 107—109, 111, 112. C. I. 1, 2, 4, 5, 7, 8, 12, 18,
 20, 21, 27—29, 31, 33—35, 37—40.
 β *Jeanbernati* *Ren.* 1, 3, 7, 14, 16—18, 22, 37, 38, 44, 48, 55, 57,
 58, 60—65, 69, 83, 111.
 γ *atlanticum* *Ren.* 3, 5, 38, 40, 42, 48, 49, 51, 55, 57, 59—64, 69,
 71, 83, 109.
 δ *gracile* *Boul.* 1—7, 15, 19, 26 or 27, 28, 42, 43, 45, 46, 48, 49,
 51, 57—64, 69—71, 79, 86, 88, 90, 92, 111. I. 38.
 ε *setiforme* *Ren.* 7, 36, 48, 60, 62, 63.
 ζ *Robertsiae* *Ren.* 48, 65.
 η *falcatum* *Schp.* 1, 3, 13, 18, 28, 34—40, 42, 45, 48, 49, 57—64,
 66, 68, 69, 71, 73, 83, 90.
 θ *anglicum* *Sanio* 3, 18, 52, 58, 62, 66, 71, 73,
 • *Arnelli* *Sanio* 28, 38, 61—63, 66.

- 580 *exannulatum* *Gümb.* 1—6, 8, 11—19, 21, 26, 28, 30, 33, 34, 36—40,
42—51, 54, 56—66, 69—73, 75—77, 79, 80, 82, 83—92,
95—103, 106—112. I. 1, 6, 8, 21, 27, 28, 31—35, 38—40.
 β *brachydictyon* *Ren.* 3, 11, 14, 18, 34, 37, 45, 46, 48, 51, 58—62,
70, 73, 76, 77, 87—90, 98, 104, 108, 111. I. 27, 30,
37, 38.
 γ *purpurascens* *Schp.* 1, 2, (3), (13), (22), 48, 49, 57—60, 64,
66, 69, 70, 87, 88, 91, 94—97, 99, 105, 106.
 δ *falcifolium* *Ren.* 1, 3, 5, 15—19, 36—39, 42, 44, 45, (48), 49,
51, 54, 57—64, 66, 69, 71, 88, 89, 92, 98. I. 31, 39.
- 581 *uncinatum* *Hedw.* 1—3, 5, (6), 9, 13, 14, 19, 21, 25—27, 33, 34,
36, 37, 39, 40, 42—45, 48—50, 57—60, 62—99, 101, 103,
105—111. I. 1, 2, 4, 6—9, 14, 16, 17, 20, 21, 31, 33—35,
37—40.
 β *plumulosum* *Schp.* 51, 52, 57, 63, 65, 66, 88, 89, I. 28.
- 582 *vernicosum* *Lindb.* 5, 11, (13), 15, 23, 27, 37—40, 42, 44, 46,
48, 52, 57—65, 69, 70, 73, 75, 86—88, 90, 91. I. 2, 20,
21, 28, 38, 39.
 β *majus* *Lindb.* 40, 44, 48, 60, 65, 69.
- 583 *revolvens* *Swartz* 1—6, 8, 9, 11, 12, (13), 25—27, 32, 35—52,
54, 56—83, 85—101, 103, 104, 106—112. I. 1—3, 5—7,
10, 13, 14, 16, 20, 21, 26—40.
- 584 *intermedium* *Lindb.* 3, 5, 25—27, 32—34, 36—40, 42, 43, (45),
46, 48—50, 53, 57—65, 68, 69, 71, 73, 75, 79, 83, 86, 88,
89—93, 95, 101, 108, 109. I. 16, 21, 25, 27, 28, 31,
32, 34—40.
- 585 *decipiens* *Limpr.* 62, 88—92.
- 586 *commutatum* *Hedw.* 1—6, 9, 10, 12—14, 16, 19, 22, 23, 25—27,
30, 32—34, 36—46, 48—92, 95—103, 105—109, 111. C. I.
2, 4—7, 8, 9, 13—16, 18, 20, 21, 27—29, 31—40.
- 587 *falcatum* *Brid.* 1—5, 7—9, 11, 12, 18, 22—28, 32—34, 36—40,
42—52, 54, 55, 57—79, 81—83, 85—92, 94, 98—101, 108,
109, 111. I. 2, 3, 9, 12, 15—17, 21, 29—31, 33—35,
37—40.
 β *gracilescens* *Schp.* 4, 37, 39, 65, 66, 70, 88, 97, 112.
 β *virescens* *Schp.* 1, 32, (36), 37, 39, 57, 59, 60, 62, 64, (66), 67.
- 588 *sulcatum* *Schp.* 88, 90.

C. DREPANIUM.

- 589 *incurvatum* *Schrad.* 57, 64—66, 69, 71, 75, 87—89.
- 590 *cupressiforme* *L.* 1—106, 108—112. C. I. 1—40.
 β *resupinatum* *Schp.* 1—12, 14—30, 32—40, 42—75, 77, 80—86,
88—92, 95, 97—103, 107—109, 111, 112. C. I. 1, 2,
4, 5, 8, 9, 12—14, 16, 18, 21—25, 27, 29, 30, 32—40.

- γ filiforme *Brid.* 1—8, 10—14, 17—20, 22—24, 26, 27, 30, 32—34, 36—40, 42—52, 55—58, 60—62, 64, 66, 68—74, 77, 79, 81—88, 91, 92, 95, 96, 99—102, 109, 112. I. 1—3. 5, 9—11. 13, 14, 16, 17, 22, 24, 27—36, 38.
- δ minus *Wils.* 2, 3. 5, 13, 14, 21, 25, 26, 33, 34, 36, 37, 42, 45, 46, 48, 49, 53, 56, 62, 64, 65, 69, 85, 91, 96, 98, 107—109.
- ϵ mamillatum *Brid.* 4, 33, 34, 46, 48, 49, 60, 69. I. 1, 2, 38.
- ζ ericorum *B. & S.* 1—11, 13—17, 19, 22—27, 30, 32—34, 36—53, 55—86, 88, 90, 92, 95, 96, 99—101, 104, 108, 109, 111. C. I. 1; 4, 9—14; 16—18, 23—39,
- η tectorum *Brid.* 1—3, 5—7, 9, 10—14, 16, 17, 20, 23, 25—28, 30, 32—34, 36—40, 42—46, 48—52, 55, 57—66, 68, 69, 71, 73—75, 81—83, 85, 88, 90, 95, 96, 100, 107. C. I. 1, 8, 27, 31, 38,
- θ elatum *B. & S.* 1—4, 6, 10, 13—17, 19, 23, 25, 26, 29, 30, 32—34, 37, 39, 40, 45, 46, 48, 50, 54, 57, 59, 62, 68, 71, 72, 81, 82, 85, 96, 103, 106, 108—112. I. 1, 2, 8, 9, 12, 21, 23, 25—31, 33—35, 37—40.
- 591 **imponens** *Hedw.* 3, 4, 11, 13—15, 17, 61, 62, 68, 69, 78, 83, 88. I. 1, 38.
- 592 **Patientiæ** *Lindb.* 1—9, 11—14, 16, 17, 20, 23, 24, 30, 34—40, 42—45, 48—51, 55, 57—60, 62—70, 72—79, 81—91, 97—101, 103, 105. I. 1—4, 8, 12, 19, 20, 27, 33, 34, 36—40.
- 593 **revolutum** *Lindb.* 88.
- 594 **hamulosum** *B. & S.* 48, 49, (65), (69), (72), 87, 88, 90, 96, 98, 104, 106, 108.
- 595 **callichroum** *Brid.* 47—49, 69, 70, 72, 73, 86—88, 90, 92, 96—101, 103, 106, 108, 110. I. 1, 2, 27, 29.
- 596 **Bambergeri** *Schp.* 88.
- 597 **procerrimum** *Mol.* 88.
- 598 **molluscum** *Hedw.* 1—30, 32—92, 94—104, 106—111. C. I. 1—4, 6—18, 20—23, 25—40.
- β condensatum *Schp.* 5, 35—37, 40, 42, 46, 48, 49, 50, 57, 63—66, 68—70, 78, 83, 86—88, 92, 96, 98, 110—112. I. 1—3, 6, 33, 38, 39.
- γ robustum *Boul.* 69, 70, 88, 98, 110. I. 1, 2, 6, 38.
- δ fastigiatum *Bosw.* 4, 39, 57, 62, 64, 65, 70, 88.
- 599 **crista-castrensis** *L.* 48, 49, 62, 64, 65, 69, 70, 72, 73, 78—81, 83, 85—92, 94—99, 103, 108.
- D. LIMNOBIUM.
- 600 **palustre** *Huds.* 1—4, 6—9, 11, 13, 14, 17, 21—23, 25, 26, (27), (28), 30, 33—45, 47—53, 55—92, 94—105, 107—109, 111, 112. I. 1—4, 8, 13, 14, 16, 20, 21, 23, 26—33, 35, 36, 38—40,

- β hamulosum *B. & S.* 14, 37, 60, 108.
 γ subsphaericarpon *B. & S.* 36—39, 43, 48, 50, 58—60, 64, 66, 69, 75, 83, 87, 88, 104. I. 2, 39.
- 601 molle *Dicks.* 90, 92, 96, 97.
 β Schimperianum *Schp.* 92.
- 602 dilatatum *Wils.* 49, 65, 69, 88, 90, 92, 96—98. I. 1, 2.
- 603 arcticum *Sommerf.* 88—90, 92.
- 604 eugyrium *Schp.* 4, 40, 45, 48—50, 52, 62, 64, 66, 69, 70, 72, 73, 75, 78, 83, 85—90, 92, 98, 99, 108. I. 1, 2, 6, 31, 33—35, 38, 39.
 β Mackayi *Schp.* 4, 48, 49, 64, 68—70, 72, 73, 85, 88, 96, 98, 99. I. 2, 3.
- 605 ochraceum *Turn.* 1—3, 5, 8, 35, 36, 39, 42—50, 57—60, 62—66, 68—81, 83—92, 94—100, 105—109, 111, 112. I. 1—3, 6, 9, 12, 16, 20, 21, 31, 34, 35, 38—40.
 β flaccidum *Milde* 1, 2, 46, 48, 49, 57—60, 62—65, 69, 88, 108.
- 606 scorpioides *L.* 1—3, 5, 9, 11—13, 17, 25—27, 29, 35, 37, 40—52, 54, 57—77, 79—81, 83, 85—92, 94—102, 105—112. I. 1, 3, 4, 8, 15, 16, 20, 21, 23, 27, 30—35, 37—40.

E. CALLIERGON.

- 607 stramineum *Dicks.* 1—7, 9—19, 21, 24, 25, 27, 30, 34, 36—40, 42, 44—46, 48—50, 54, 57—78, 80—83, 85—88, 90—92, 94—98, 106—109, 111, 112. I. 1, 5, 14, 20, 21, 26, 31, 33, 34, 36—40.
- 608 trifarium *W. & M.* 86—90, 92, 97, 98, 104, 108.
- 609 turgescens *Schp.* 48, 88.
- 610 cordifolium *Hedw.* 1—6, 8—23, 25—28, 30, 32—40, 42—45, 48—52, 54—67, 69—78, 80, 81, 83—88, 90—92, 94, 95, 97—101, 109, 111, 112. I. 1, 2, 4, 5, 8, 16, 20, 21, 27, 29, 31, 34, 36—39.
- 611 giganteum *Schp.* 5, 7, 13, 14, 17, 21, 23, 26—28, 32, 36—40, 42—46, 48, 52, 54, 58—62, 64—70, 73—83, 85—92, 98, 99, 101, 108, 109, 111. I. 21, 25, 27, 32—40.
- 612 sarmentosum *Wahl.* 1, (2), 42, 44—46, 48, 49, 52, 59, 60, 64—66, 69—73, 75—77, 86—90, 92, 94—101, 103, 105—112. I. 1—40.
- 613 cuspidatum *L.* 1—92, 94—104, 106—112. C. I. 1—13, 15, 16, 18—21, 23, 27—29, 31—40.
 β pungens *Schp.* 14, 50, 57, 59, 62, 64, 66.
 γ cæspitosum *Whitehead M.S.* 53, 57.
- 614 Schreberi *Willd.* 1—30, 32—92, 94—104, 106—112. I. 1, 2, 4, 6—9, 11—14, 16—18, 20, 21, 23, 25—40.

115. *Hylocomium* B. & S.

- 615 *splendens* B. & S. 1—30, 32—104, 106—112. C. I. 1, 2,
4—18, 20—40.
- 616 *umbratum* B. & S. 48, 69, 70, 72, 86—88, 90, 92, 97—99, 101,
103, 108. I. 2, 27.
- 617 *pyrenaicum* Lindb. 88, 92, 97, 98, (105).
- 618 *brevirostre* B. & S. 1—3, 6, 8, 9, 12—14, 16, 20, 23, 24, 32—40,
42, (43), 44, 46—50, 55, 57—60, 62—65, 69, 70, 72, 73,
75—77, (83), 86—90, 97—101, 103, 104, 108. C. I.
1—5, 8, 10, 12—16, 18, 20, 21, 25—30, 32—35, 38—40.
- * 619 *loreum* B. & S. 1—17, 19—21, 23, 27, 32—40, 42—60, 62—92,
94—112. C. I. 1—3, 5—9, 11—14, 16—18, 20, 21,
25—40.
- 620 *squarrosum* B. & S. 1—34, 36—93, 95—104, 106—112. C. I.
1—15, 17, 18, 20—40.
- β *calvescens* Hobkirk 36—39, 48, 57, 58, 64, 69, 71, 88, 104.
- 621 *triquetrum* B. & S. 1—30, 32—34, 36—103, 106—109, 111,
112. C. I. 1—40.
- 622 *rugosum* De Not. 26, 28, 36, 39, 57, 59, 60, 64—66, 69, 85—90,
92, 98, I. 40.

SUPPLEMENT.

Sphagna after Warnstorf (*Sphagnologia universalis*, 1911)

Colour varieties, forms and sub-forms are omitted. When species or varieties are synonymous with those given in the Sphagnum List at the beginning of this Catalogue, the records will be found there.

Sphagnum Dill.

ACUTIFOLIA Schlieph.

- 1 *S. fimbriatum* Wils. No. 13.
 β robustum Braithw. 1, 2, 9, 36, 58, 59, 62.
 γ validius Card. 2, 9, 11, 12, 22, 30, 35, 36, 48, 49, 57—60, 62, 64—66, 69, 71, 77, 104, 109, 111.
 δ intermedium Russ. 2, 18, 22, 36, 48, 58, 60—62, 64, 66. I. 34.
 ε tenue Grav. 2, 22, 36, 38, 48, 58—60, 62—64, 109, I. 37, 38.
 ζ laxifolium Warnst. 2, 19, 17, 36, 59, 62, 65.
 η concinnum (Berggr.). 66, 85.
 (flavescens Warnst. 27, 38, 49, 57, 109.).
- 2 *Girgensohnii* Russ. No. 12.
 β robustum Warnst. 5, 24, 62, 65, 69, 88, 96, 109, 111.
 γ microcephalum Warnst. 5, 62, 65, 69, 75, 88, 105.
 δ gracilescens Grav. 65, 66, 69, 71, 88, 101, 105, (107 or 108).
 ε stachyodes Russ. 48, 57, 62, 65, 66, 88, 90, 96, 105, 109.
- 3 *Russowii* Warnst. = *S. Girgensohnii* var. *robustum* Russ. No. 12 β
 β girgensohnioides Russ. 46, 57, 60, 62, 65, 66, 69, 71, 88, 90, 92, 96, 109, 111.
- 4 *fuscum* Schp. = *S. acutifolium* var. *fuscum* Schp. No. 11 ε .
 β robustum Roell. 78, 98.
 γ medium Russ. 60, 65, 66, 74, 88, 92, 94, 96, 107. I. 1 or 2, 18, 32—34, 38, 39.
 δ tenellum Warnst. 87.
- 5 *Warnstorffii* Russ. = *S. acutifolium* var. *gracile* Russ. No. 11 δ
- 6 *rubellum* Wils. = *S. acutifolium* var. *rubellum* Russ. No. 11 γ
- 7 *subtile* (Russ.). Warnst. 88.
- 8 *acutifolium* Ehrh. No. 11.
- 9 *quinquefarium* (Lindb.) Warnst. = *S. acutifolium* var. *quinquefarium* Lindb. No. 11 ζ
- 10 *plumulosum* Roell. = *S. acutifolium* var. *subnitens* Dixon. No. 11 β
- 11 *tenerum* (Aust.). Warnst. 4, 5, 81, 99.
- 12 *molle* Sulliv. No. 10.
 β *molluscoides* (C. Mull.).

RIGIDA W.

- 13 *compactum* D. C. == *S. rigidum* Schp. No. 5.
 27, 31, 33, 35, 37.
subsquarrosum Warnst. 2, 3, 5, 9—12, 17, 22, 24, 35, 37—49,
 56, 60—62, 64, 66, 69, 70, 75, 79, 88, 105, 108, 109. I.
 27, 31, 33, 35.
imbricatum Warnst. 3, 9—11, 17, 22, 27, 34, 45, 48, 60, 62, 65,
 66, 69—71, 73, 75, 82, 84, 92, 94—96, 101, 109. I. 16,
 27, 31, 36—39.
isophyllum Wheld. 17, 19, 35, 60, 62.

SQUARROSA Schlieph.

- 14 *squarrosum* Pers. No. 9.
spectabile Russ. 1, 2, 16, 17, 30, 38, 46, 49, 50, 58—66, 69—71,
 79, 88. I. 7, 8, 33, 34, 36—39.
subsquarrosum Russ. 1, 13, 14, 17—19, 25, 36, 48, 49, 58—60,
 63—65, 69, 71, 95, 109. I. 27, 33, 37, 39.
imbricatum Schp. 10, 14, 30, 35, 38, 48, 58, 59, 63, 71, 90, 96.
 I. 8, 38,
15 *teres* (Schp.). No. 8.
imbricatum Warnst. 4, 5, 11, 17, 27, 38, 48, 49, 65, 66, 69, 71,
 75, 88, 90, 96, 109.
subteres Lindb. No. 8 β
squarrosulum (Lesq.). Warnst. No. 8 γ

CUSPIDATA Schlieph.

- 16 *Lindbergii* Schpr. No. 14.
17 *riparium* Ångstr. No. 16.
coryphaeum Russ. 60.
18 *obtusum* Warnst. 59, 60.
riparioides Warnst. 59, 60.
recurviforme Warnst. 59, 60.
tenellum Warnst. 59.
19 *amblyphyllum* Russ. 2—5, 9, 11, 12, 14, 15—18, 22, 24, 35,
 36, 39, 42, 48, 57, 62, 66, 69.
macrophyllum Warnst. 2, 24, 35, 36, 60.
mesophyllum Warnst. 2—5, 9—12, 14—18, 22, 24, 35, 41, 42,
 46, 48, 59, 60, 62, 64, 66, 69—71, 96, 107—109. I. 1,
 28.
parvifolium (Sendt.). == *S. intermedium* var. *parvifolium* Warnst.
 No. 15 γ
20 *balticum* Russ. == *S. cuspidatum* var. *brevifolium* Lindb. No. 17 γ
21 *Torreyanum* Sulliv. == *S. cuspidatum* var. *Torreyanum* Braithw.
 No. 17 δ

- 22 **pulchrum** (*Lindb.*). *Warnst.* == *S. intermedium* var. *pulchrum* *Lindb.* No. 15 β
- 23 **riparioides** *Warnst.* 58.
- 24 **recurvum** *Pal. de Beauv.* 2, 4, 14—18, 21, 22, 24, 27, 35—37, 39, 41, 46, 57, 58, 62, 63, 65, 66, 69, 72, 79, 90, 99, 109, 110. I. 6, 7, 27, 35, 37—39.
 β *robustum* *Bredl.* 2, 16, 17, 22, 35, 36, 41, 46, 48, 58—60, 62, 64, 65, 69, 88, 99, 107, 109.
 γ *majus* *Angstr.* 2, 9, 10, 12, 14—18, 22, 24, 27, 35—39, 42, 46, 48, 51, 57—60, 62, 65, 66, 69—72, 78, 79, 84, 88, 108, 109. I. 34, 36, 40.
 δ *parvulum* *Warnst.* 5, 11, 16, 17, 24, 27, 35—38, 45, 46, 48, 51, 58—60, 62, 63, 65, 66, 69, 71, 75, 88, 90. I. 34.
- 25 **serratum** *Schlieph.*
 β *serrulatum* (*Schlieph.*). 5, 11, 16—18, 22, 35, 36, 38, 41, 43, 48, 58, 59, 60, 62, 63, 66, 69, 107, 109.
- 26 **fallax v.** *Klinggr.* 2, 13, 15, 18, 38, 42, 90.
 β *laxifolium* *Warnst.* 38.
 γ *plumosum* *Warnst.* 37, 38.
 δ *microphyllum* *Warnst.* 16, 17.
 ϵ *Röellii* (*Schlieph.*). 58, 59.
 ζ *robustum* *Warnst.* 17, 58.
- 27 **cuspidatum** *Ehrh.* No. 17.
 β *falcatum* *Russ.*
 γ *submersum* *Schp.* 2, 11, 16, 17, 22, 25, 35—38, 41—43, 46, 48, 49, 60—62, 66, 75, 79, 83, 84, 105, 109. I. 1, 8, 18, 33—39.
 δ *plumosum* *Bryol. germ.* 2, 4, 5, 11, 17, 35, 36, 38, 41, 43, 48, 49, 61, 62, 66. I. 14, 20, 26, 28, 29, 33, 37—39.
 ϵ *plumulosum* *Schp.* 5, 11, 14, 16, 17, 22, 24, 44, 48, 49, 63, 88, 105.
- 28 **molluscum** *Bruch.* == *tenellum* *Lindb.* No. 18.
 β *angustifolium* *Warnst.* 17.
 γ *confertulum* *Card.* 66, 69.
 δ *vulgatum* *Warnst.* 1—3, 9, 11, 12, 17, 22, 35, 41, 44, 48, 49, 62, 75, 88, 105, 109. I. 28, 29, 37.

SUBSECUNDA Schlieph.

- 29 **Holtii** *Warnst.* 2, 17, 22, 58, 60. I. 2.
 β *suberispulum* *Warnst.* 58.
- 30 **obesum** *Wils.* == *S. subsecundum* var. *obesum* *Wils.* No. 6 δ
 β *plumosum* *Warnst.* 16, 17, 60, 69, 70.
 γ *luxurians* *Warnst.* 2, 17, 63.
 δ *insolitum* *Card.* 2, 49, 50, 59, 75.
 ϵ *teretiramosum* *Warnst.* 36, 48.
 ζ *sanguineum* *Warnst.* 2, 60.

- η brachyeladum Warnst. 1, 2, 17, 48, 60, 64, 69, 70, 109.
 θ canovirens Warnst. 2. I. 37.
 ι hemiisophyllum Warnst. 60, 109.
 π devoniense Wheld. 2, 4.
- 31 **subsecundum** Nees apud Sturm. 1, 3, 17, 22, 48, 49, 61, 105, 109.
 β parvulum Grav. 1, 61, 111.
 γ tenellum Warnst. 1—3, 22, 28, 48, 49, 59—62, 65, 69, 71, 94,
 96, 109.
 δ intermedium Warnst. 3, 17, 22, 60, 64, 88, 109.
 ϵ lanceolatum Warnst. 22, 51, 60, 62, 105, 109.
 (hercynicum var. *Binsteadii* Wheld. 36, 49.)
- 32 **inundatum** Russ. 1—5, 11, 12, 14, 16—18, 20—22, 24, 27, 31,
 35—37, 41, 43, 45—49, 51, 57, 59, 60, 62, 63, 66, 69, 71,
 88, 90, 96. I. 1, 35.
 β ovalifolium Warnst. 2—4, 11, 12, 16—18, 22, 35—37, 41—43,
 45, 46, 49, 51, 52, 58—60, 62, 69, 71, 75, 85, 88, 90, 105,
 111. I. 25, 35.
 γ lancifolium Warnst. 1—3, 11, 17, 18, 22, 36, 42, 59, 60, 62, 66,
 71, 109.
 δ diversifolium Warnst. 1—3, 9, 11, 12, 17, 21, 31, 36, 48, 57,
 60, 62, 71, 90, 108, 109. I. 1.
- 33 **auriculatum** Schp. 1—5, 9, 11, 13—18, 21, 24, 34—36, 41, 46,
 49, 50, 62, 66, 69, 75, 85, 88, 105, 108, 109.
 β tenellum Warnst. 1—3, 17, 35, 43, 49, 62, 66, 88, 108, 109.
 γ ovatum Warnst. 1—5, 9, 14, 16—19, 22, 34—37, 41, 43, 45,
 46, 48, 49, 58, 60, 62, 69, 71, 75, 88, 105, 109, 110. I.
 28, 29.
 δ laxifolium Warnst. 1, 2, 13, 17, 41, 58, 69, 105.
 ϵ canovirescens Warnst. 1—4, 11—18, 20—22, 24, 34—38, 46,
 48, 58, 85, 109.
 ζ fluitans Grav. 3.
 η submersum Warnst. 1, 2, 16, 22, 58, 69, 88, 105.
 θ plumosum Warnst. 17, 22, 24.
 ι racemosum Warnst. 60.
- 34 **aquatilis** Warnst. 1—4, 9, 11, 17, 22, 35, 37, 48, 49, 62, 70, 71.
 I. 38.
 β turgidum (*C. Muell. p. p.*). 1, 2, 9, 22, 37, 48, 60.
 γ mastigocladum Warnst. 62.
 δ intortum Warnst. 4, 35, 48, 49, 70, 112.
 ϵ sanguinale Warnst. 1, 3, 9, 11, 17, 35, 49, 60, 62, 70, 105.
 ζ remotum Warnst. 35, 69.
 θ plumosum Warnst. 48.
 η pauperatum Warnst. 88.
- 35 **contortum** Schultz. = *S. laricinum* Spruce. No. 7.
 β majus C. Jens. 71, 96, 109.
 γ gracile Warnst. 14, 60, 61, 71, 88.

- δ microphyllum Warnst. 58, 60.
 36 **platyphyllum** (*Sull.* ; *Lindb.*) *Warnst.* = *S. laricinum* var. *platyphyllum* *Lindb.* No. 7 β
 β teretiusculum (*S. O. Lindb.*). 60, 69.
 γ gracile *Roell.* 49, 60.
 37 **crassicladum** *Warnst.* 1—4, 9—11, 14, 16, 17, 19, 21, 22, 34—38,
 42, 48, 51, 59, 65, 70, 71, 75, 84, 96, 98, 108, 109. I. 6,
 17, 25, 27, 30, 33, 35, 37, 38.
 β magnifolium *Warnst.* 2—4, 16, 17, 22, 34—37, 48, 59—62, 71,
 75, 88, 90, 108, 109. I. 17.
 γ diversifolium *Warnst.* Under revision.
 δ intermedium *Warnst.* Under revision.
 38 **bavaricum** *Warnst.* 2, 49, 62, 88, 105.
 39 **Camusii** *Card.* 1—3, 11, 16—18, 22, 57. I. 37.
 β plumosum *Warnst.* 11, 109.
 γ pyrenaicum *Warnst.* 3.
 δ venustum *Warnst.* 3, 11, 17.
 40 **rufescens** *Nees & Hornsch.* Under revision.
 β magnifolium *Warnst.* Under revision.
 γ parvulum *Warnst.* Under revision.
 41 **turgidulum** *Warnst.* Under revision.

CYMBIFOLIA Lindb.

- 42 **imbricatum** (*Hornsch.*). = *S. Austini* *Sull.* No. 4.
 43 **hakkodense** *Warnst.* 1, 2.
 44 **papillosum** *Lindb.* No. 3.
 β normale *Warnst.* 1—5, 9, 11, 12, 16, 17, 22, 35, 36, 41, 46, 48,
 51, 58—60, 62, 69, 70, 71, 75, 82, 94—98, 105, 109. I.
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 45 **cymbifolium** *Ehrh.* No. 1.
 46 **subbicolor** *Hampe.* 11, 60, 62, 75, 88, 105.
 47 **medium** *Limpr.* No. 2.

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