

1965 Paton Hepatic Cat. 4th ed.

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1965 Hepatics Cat., Ed. 4, BBS, J.A. Paton

CENSUS CATALOGUE OF
British Hepatics

(4th edition)

J. A. Paton

THE BRITISH BRYOLOGICAL SOCIETY

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Prepared by
J. A. PATON
TRURO
for
The British Bryological Society

1965

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INTRODUCTION

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

The first edition was published in 1905, the second in 1913 and the third in 1930. A supplement to the third edition was published in 1935. Since that time numerous additional records have been made and the nomenclature of British hepatics has been revised by Jones (1958).

In the first edition some records were taken from county floras but many were based on manuscript lists which cannot now be found. These lists were sent in by bryologists of varying competence and may have been accepted too uncritically.

For the second edition the name of the person contributing the record was sometimes written into a copy of the first edition, which is in the keeping of the Recorder. Unfortunately, it is frequently impossible to trace the source of records published in the first or second editions. Even where details of the record are known a herbarium specimen can seldom be found to support it. When authors of local floras have failed to substantiate certain records, these have either been deleted or treated as doubtful in the present edition. It must be emphasized, however, that in only a small proportion of the total number of vice-counties has an attempt been made to trace all the records, and that a number of erroneous and doubtful records may still occur in the present edition. Though attempts have been made to trace individually some of the more improbable records in the first and second editions, often these attempts have been unsuccessful. Owners of private herbaria, when they have no further use for them, are strongly urged to give or bequeath them to some institution where they can be preserved.

For the third edition and the supplement the sources of most of the records were entered in a book which is the property of the B.B.S. and is in the keeping of the Recorder. Unfortunately the source sometimes consists only of the name of the person who supplied the record in manuscript form. A few records which are not localized within a vice-county, and which cannot otherwise be traced, have now been treated as doubtful.

INTRODUCTION

Since the publication of the supplement the policy has been to include as new records only those for which details have been published. The most important source of additional records for the fourth edition consists of the annual lists of records published in the B.B.S. Reports and Transactions. All such records up to and including those in Trans. B.B.S. 1965 are included in this edition. Further records from published literature have been added, and a list of sources is given below. An exception has been made for certain species of *Anthoceros*, *Riccia*, *Riccardia*, *Calypogeia*, *Plectocolea*, *Cephaloziella* and *Lejeunea* which have recently been revised; for these full records have not been published, but a list of sources is in the keeping of the Recorder. Most of the records which have been added since the supplement are represented by specimens in the B.B.S. herbarium, but some records from other herbaria have also been included.

In general the records which are given in the third edition and in the supplement have been retained in the fourth edition unless there was some special reason for their exclusion.

Extinctions

An attempt has been made to indicate extinctions. If a vice-county record is enclosed in round brackets () the species in question has not been seen in that vice-county for a long time (usually since 1900). It has been possible to do this for only a few well-worked vice-counties. It is hoped that this treatment will stimulate search for particular plants in areas where they have not been seen recently.

Doubtful records

Records entered in square brackets [] are considered doubtful, and have been put at the end of each list in order that they may not confuse the general distributional pattern. A record may be considered doubtful either because it has already been regarded as doubtful in an earlier edition, or because of confusion between related species which were formerly not adequately understood, or because the record is not localized within the vice-county.

Arrangement and Nomenclature

The arrangement follows Jones (1958). The species which have been discovered in the British Isles since that date have been added and the results of some revisions have been incorporated. It has been necessary

INTRODUCTION

to make only very few changes in names but certain names have been retained (as in *Anthoceros*, *Lepidozia*, *Sphenolobus* and *Lejeunea*), even though they must be changed when the correct names have been agreed upon.

Where varieties occur the type variety is often not lettered separately (e.g. *Marchantia polymorpha*). This is because the varieties have not always been distinguished and some of the records for the species may belong to the varieties other than the type variety. In a few cases there is no aggregate list and the varieties only are given, that including the type being lettered α (e.g. *Calypogeia neesiana*).

Page 6
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Page 8
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Topographical – in order of vice-counties.

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VICE-COUNTY DIVISIONS OF THE
BRITISH ISLES

Great Britain

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

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

VICE-COUNTY DIVISIONS OF THE BRITISH ISLES

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

Ireland

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

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

1965 Hepatics Cat., Ed. 4, BBS, J.A. Paton

VICE-COUNTY DIVISIONS OF THE BRITISH ISLES

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

C Channel Islands

Page 16
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VICE-COUNTY BOUNDARIES

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

ENGLAND AND WALES

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

VICE-COUNTY BOUNDARIES

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

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

SCOTLAND

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

VICE-COUNTY BOUNDARIES

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

IRELAND

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

VICE-COUNTY BOUNDARIES

It should be emphasized that the boundaries of the counties to be used are those existing in Watson's time (1859) and not those at the present day. Sometimes this makes little difference, but in some areas, particularly in Scotland, there are large alterations (e.g. the part of Inverness-shire referred to by Watson as cutting Elginshire into two detached portions no longer exists and has been compensated for by transferring a large portion, formerly the southern part of Elginshire, to Inverness-shire). Detached portions of counties completely surrounded by other counties belong to the vice-county which surrounds them. The large detached part of Flint belongs to v.-c. 50, and that of Dunbarton to v.-c. 86. The following may be useful in elucidating vice-county boundaries.

For the boundary between 3 and 4 see Martin & Fraser, *Flora of Devon* (1939), p. 1, and map; for alterations in the Wiltshire boundaries see Grose, *The Flora of Wiltshire* (1957), pp. 58–61; for boundaries of v.-c. 11 see Paton, A bryophyte flora of South Hants, *Trans. B.B.S.* 4: 4–5 (1961); for boundaries of v.-c. 30 see Dony, *Flora of Bedfordshire* (1953), pp. 37–9; for v.-c. 33 and 34 see Riddelsdell, Hedley & Price, *Flora of Gloucestershire* (1948), pp. xciii–xcv, and map; for v.-c. 59 see Savidge, Heywood & Gordon, *Travis's Flora of South Lancashire* (1963), pp. 1–3; for v.-c. 84 and 86 see Ribbons, The boundaries of the vice-counties in Scotland. Part I. *Glasg. Nat.* 18: 160–8 (1961).

EXPLANATION OF SYMBOLS

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

[] Doubtful records.

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

Brackets enclosing a number following the name of a taxon refers to Notes, p. 49.

1. **Anthoceros L.**

- 1 **punctatus** L. (1)
1, 2, 5, 9–12, 14, 16, 17, 19, 22–24, (29), 30, 32, 33, 36–41, 46, 48, 54–56, 59, 68, 69, 72, 74, 75, 86, 90. H 27, 36. [3, 4, 8, 13, 20, 21, 25–27, 34, 35, 42, 44, 45, 49, 50, 52, 57, 58, 62, 63, 67, 80, 81, 89, 92, 97, 99, 102, 105, 109]. H 1, 2, 4, 12, 20, 21, 35, 38–40]
- 2 **husnotii** Steph.
1–6, 8, 9, 11, 13, 14, 16, 17, 22, 23, 38, 44, 48, 49, 52, 58, 61, 67, 70, 72–74, 85–87, 90, 97, 99, 101, 102, 109. H 1, 3, 27, 34, 35, 38. [34, 59, 69]
- 3 **laevis** L.
1–6, 8–11, 13–15, (16), 17, 18, 22, 33–36, 38, 40–46, 48, 49, 52, 59, 60, 62, (63), 64, 69, 71–76, 80, 81, 83, 84, 86–88, 90, 97, 99–102, 109. H 1, 3, 4, 9, 16, 21, 29, 32, 34–40. C.

2. **Sphaerocarpos Ludwig**

- 1 **michelii** Bellardi
1, 3, 9, 16, 19, (20), 22, 23, 25–28, (29), 32, 34, 36, 37, (55, 61). C. [15]
- 2 **texanus** Aust.
1, 9, (16), 17, 25, 27, 33, 34, 36, 37.

3. **Targionia L.**

- 1 **hypophylla** L.
2–4, 6, 12, 17, (26), 37, 39, 40, 43–45, 47–49, 52, 57, 83, 85, 87, 88, 90, 98, 99, 101, 104. H 1, 2, 4, 39. C. [63, 65]

4. **Reboulia Raddi**

- 1 **hemisphaerica** (L.) Raddi
1–17, (20), 22, 26, 27, 33–37, (38), 39–50, 52, 55, 57–60, (61), 62, 64–69, 72–77, 80–83, 85–90, 96, 97, 99, 100, 103–105, 108, 109. H 1, 2, 4, 5, 9, 16, 17, 21, 27–29, 33, 35, 38–40. C. [32]

5. **Conocephalum Wiggers**

- 1 **conicum** (L.) Underw.
1–112. H 1–3, 5–7, 9–16, 18–40. C.

6. **Lunularia** Adans.

- 1 **cruciata** (L.) Dum.

1–102, 104–106, 108–111. H 1–7, 9–12, 14, 16, 18, 20–22,
27–30, 32–40. C.

7. **Preissia** Corda

- 1 **quadrata** (Scop.) Nees

3, 4, 6, 11, 22, 26–28, 32, 35, 39, 41–50, 52, 54, 55, 57–60, (62),
64–80, 82–94, 96–112. H 1, 2, 6, 8, 9, 14–17, 19, 21, 23,
26–29, 33–36, 38–40. [63]

8. **Marchantia** Raddi

- 1 **polymorpha** L.

1–9, 11–50, 52–70, 72–93, 95–101, 103, 104, 106, 107, 109–112.
H 1, 3, 5, 6, 8–10, 16–23, 25, 27–31, 33, 35–39. (C)

- β **aquatica** Nees

3, 5, 6, 11, 13, 14, 17, 19, 22–24, 31, 34, 36, 41, 42, 49, 51, 52,
57–59, 61, 64, 65, 67, 69, 71, 72, 74, 76, 83, 88–90, 94, 95, 110.
H 18, 28–30, 33, 39, 40.

- γ **alpestris** Nees

52, 68, 70, 83, 88–90, 92, 94, 96, 98, 108, 112.

9. **Dumortiera** Nees

- 1 **hirsuta** (Swartz) Nees

1–4, 14. H 1–4, 6, 7, 9, 20, 29, 39. [55]

10. **Riccia** L.

- [1] **ciliata** (Weber) Hoffm.] (2)

[1, 3]

- [2] **michelii** Raddi] (2)

[1, 2, 14, 61]

- 3 **crozalsii** Levier

1–3, 42, 43, 48, 49, 52. H 36.

- 4 **warnstorffii** Limpr.

2, 4, 5, 7, 8, 10, 11, 13, 14, 17, 19, 24, 29, 34–37, 40, 43, 45–47,
72, 74, 97, 99. H 1, 16, 33, 35, 36, 39, 40. C. [16, 59,
69]

BRITISH HEPATICS

- 5 **glauca** L. (1)
 1–5, 8–17, 20, 22–24, 26, 29–33, 36, 38, 41, 45, 48, 54, 55, 58,
 62, 64, 65, 67, 69, 75, 83, 86–88, 90, 97, 99. H 1, 15, 16, 33,
 37, 39, 40. C. [6, 7, 19, 25, 27, 34, 35, 37, 39, 40, 42–44,
 49, 52, 56, 57, 59–61, 63, 68, 70, 72, 73, 78, 81, 84, 85. H 20,
 21, 34, 35, 38]
- 6 **bifurca** Hoffm.
 1, 7–9, 14, 16, 36, 48, 52, 59, 64, 69, 75, 88, (90). H 16.
 [41]
- 7 **beyrichiana** Hampe
 1, 2, 26, 41–43, 45, 46, 48, 49, 52, 59, 60, 64, 69, 73–76, 82–86,
 88, 90, 99, 101. H 1, 9, 20, 23, 26, 35, 39. [38]
- 8 **sorocarpa** Bisch.
 1–11, 13–20, 22–50, 52, 54–78, 80, 82–92, 94, 96–99, 101, 103,
 105, 106. H 1, 9, 15, 16, 20–22, 27, 28, 33–40. C.
- 9 **nigrella** DC.
 1, 37, 43, 48, 49. C.
- 10 **fluitans** L.
 3–7, 11–29, (30), 31, 33–38, 40, 41, 44, 47, 50, 52, 54–64, 69.
 H 8, 19, 20, 21, 29, 32, 36–39.
- 11 **rhenana** Lorbeer ex K. Müll.
 7, 17, 29.
- 12 **canaliculata** Hoffm.
 48, 83, 87, 88. [85]
- 13 **crystallina** L.
 1, 4–6, 8, 11, 14, (16, 17), 20, 22, 26–30, 32, 33, 36, (38), 39,
 41, 44, 48–50, 52, 54–56, 59, 61, 63, 64, 67, 83, 85, 90, 101, 110.
 H 1, 38, 39.
 β **angustior** Nees
 4, 6, 9, 26, 44.
- 14 **huebenerana** Lindenb.
 13, 14, 17, 42, 52, 58, 67.
11. **Ricciocarpus** Corda
- 1 **natans** (L.) Corda
 6, 12–15, 18–22, 24, 26–29, 31, 32, 36, 38, 40, 50, 53–55, 58,
 61–64, 66. H 8, 15, 19, 21–23, 25, 31.
12. **Riccardia** Gray
- 1 **incurvata** Lindb.
 11, 13, (14), 17, 48, 49, 52, 65, 75, (81), 90. [4–6]

BRITISH HEPATICS

- 2 **multifida** (L.) Gray
1–6, 8–22, 24–29, 34, 36–52, 54–112. H 1–3, 5, 6, 9–12,
16–21, 23, 24, 27, 29, 31–33, 35–40. C. [23, 30]
- 3 **sinuata** (Dicks.) Trev.
1–6, 8–26, 29, 31–39, 41, 44–64, 66–72, 74, 76, 78, 80, 81, 85,
86, 88, 90, 91, 93–100, 103–111. H 1–3, 5–7, 12, 14, 16, 20,
21, 27–30, 33–39. C.
- 4 **latifrons** (Lindb.) Lindb. (1)
1–3, 6, 8, 9, 11, 17, 22, 26, 28, 35, 40, 46, 48, 50, 67, 70, 73, 83,
90–92, 94–97, 108–110. H 1, 8–10, 14, 15, 19, 21–23, 27–29,
33, 35–37, 40. [4, 5, 13, 14, 36, 47, 58–60, 71, 74, 77, 78, 80,
84, 86, 88, 93, 98, 100, 101, 103–107, 111, 112. H 2, 3, 6,
17, 18, 20, 30, 38, 39]
- 5 **palmata** (Hedw.) Carruth.
3, 17, 24, 42, 48, 50, 58, (62, 63), 67–70, (72), 73, 75, 85–92,
94–112. H 1–3, 15, 16, 18, 20, 27, 29, 30, 33–36. [59]
- 6 **pinguis** (L.) Gray
1–6, 8–29, (30), 31–42, 44–52, 54–112. H 1–3, 5–10, 13–21,
27–29, 32–40. C.

13. **Cryptothallus** Malmb.

- 1 **mirabilis** Malmb.
3, 6, 12, 17, 22, 24, 69, 86, 92, 98, 99, 105.

14. **Pellia** Raddi

- 1 **epiphylla** (L.) Corda
1–6, 8–30, 32–112. H 1–3, 5–23, 26–30, 33–40. C.
- 2 **borealis** Lorbeer (2)
99. H 2.
- 3 **neesiana** (Gottsch.) Limpr. (1)
1–6, 9, 12, 14, 17, 22, 34, 36, 37, 41, 42, 44, 46, 48, 49, 53, 57,
64, 66–69, 72, 80, 88–92, 96–99, 104, 107, 110, 112. H 1, 3,
36, 37. C. [13, 35, 59, 60, 62, 63, 74, 76–79, 83, 85–87,
95, 100, 102, 105, 106, 109, 111]
- 4 **endiviifolia** Dicks. (*P. fabroniana* Raddi)
1–24, 26–95, 97–112. H 1–4, 6, 9–12, 14–23, 27–40. C.

15. **Metzgeria** Raddi

- 1 **furcata** (L.) Dum.
1–112. H 1–7, 9–23, 25–40. C.

BRITISH HEPATICS

- β ulvula* Nees
1–3, 5, 13, 97. H 1, 15.
- 2 *fruticulosa* (Dicks.) Evans
1–14, 16, 17, 22–25, 27–29, 32–35, 40–42, 45–50, (58), 62, 64, 65, 68, 70, 72–75, 78, 80–83, 85–91, 93, 95, 99, 106, 107, 109, 111. H 1, 2, 9, 10, 13–18, 20, 21, 23, 24, 27–40.
- 3 *conjugata* Lindb.
1–6, 13, 14, 33–37, 40–46, 48–50, 57, 60, 62–65, 67–83, 85–92, 95–106, 108–111. H 1–3, 6–9, 12, 13, 16–18, 20–22, 27–30, 33–36, 38–40.
- 4 *hamata* Lindb.
46, 48, 49, 64, 69, 70, 72, 73, 75, 76, 85–88, 97–106, 108, 111. H 1–3, 7, 16, 27, 35, 39.
- 5 *pubescens* (Schrink) Raddi
(10), 34–36, 39, 48–50, (56), 57, 60, (62), 63–70, 72, 78, 81, 83, 85–94, 96–98, 104–106, 108, 109. H 39. [3, 55]
16. **Pallavicinia** Gray corr. Trev.
- 1 *lyellii* (Hook.) Gray ex Trev.
6, 10, (11, 13), 14, 17, 25, 46, 48, 52, (59, 62), 64, (65, 69). H 1, 2, 19–21, 27. [3, 4]
17. **Moerckia** Gottsche
- 1 *hibernica* (Hook.) Gottsche (3)
90, 112. H 20.
- 2 *fotoviana* (Nees) Schiffn. (3)
(1), 4, 26–28, 41, 44, 46, 48–50, 52, 57, 59, (62), 63–69, 82, 85, 90–92, 97, 105, 108, 110, 112. H 17, 21, 27, 33, 35, 38–40.
- 3 *blyttii* (Mörcb.) Brockm.
88–90, 92, 94, 96–98, 105–107.
18. **Blasia** L.
- 1 *pusilla* L.
1–10, 12–15, (16), 17–20, (21), 22, (23), 25, 28, 32–46, 48–50, 54, 55, 57–60, (61), 62, (63), 64, 65, 67–81, 83–102, 104–112. H 1–3, 7, 12, 16, 18–22, 27–40.
19. **Petalophyllum** Gottsche
- 1 *ralfsii* (Wils.) Nees & Gottsche
1, 4, 6, 28, 41, 44–46, 48, 49, 52, 59, (62), 68. H 1, 2, 21, 27, 35, 39, 40.

BRITISH HEPATICS

20. **Fossombronia** Raddi

- 1 **foveolata** Lindb.
1–3, 9, 11, 13, 14, 17, 22, 27, 48, 49, 54, 58, 59, (61), 62, 69, 70, 74, 86–88, 95–97, 99, 105, 108, 112. H 1, 2, 9, 16, 27, 39.
- 2 **crozalsii** Corb.
1, 7, 22.
- 3 **incurva** Lindb.
88.
- 4 **angulosa** (Dicks.) Raddi
1, 2, 48, 49, 110. H 1–3, 16, 27, 34, 35. C.
- 5 **caespitiformis** De Not.
1, 2, 6–8, 13, 14, (16), 23, 34, 37, 39, 40, 45, 48, 52, (54), 58–60, 69. H 1, 3, 16, 34.
- † [6] **mittenii** Tindall] (4)
[4]
- 7 **husnotii** Corb. var. **anglica** Nich.
1–3, 7, 41, 44. C.
- 8 **pusilla** (L.) Dum.
1–11, 13–25, 27, 29–45, 47–75, 77, 81, 84, 90, 91, 93, 97, 99, 100, 102, 106, 109. H 1–3, 5, 11, 16, 19, 21, 23, 33, 35–39. C.
- β **decipiens** Corb.
13, 14, 58, 59, 102, 103.
- 9 **wondraczekii** (Corda) Dum.
1–18, 20, 22–24, 30, 32–37, 39, 40, 42–46, 48, 49, 52, 56, 57, 61–64, 67–70, 72, 73, 78, 81, 83, 84, 86–88, 90, 92, 96, 97, 99, 102, 103, 105, 109. H 1, 15, 33, 35, 38. [38]
- [10] **loitlesbergeri** Schiffn.] (2)
[1]

21. **Haplomitrium** Nees

- 1 **hookeri** (Sm.) Nees
(1, 3, 11, 13, 61), 70, 88, 90, 93, 95–97, 110. H (1), 21.

22. **Anthelia** Dum.

- 1 **julacea** (L.) Dum.
42, 46, 48, 49, 64, (65), 68–73, 75, 85–90, 92, 94–101, 103–112. H 1, 2, 7, 16, 20, 27, 34, 35, 38, 40.

BRITISH HEPATICS

- 2 ***juratzkana*** (Limpr.) Trev.
48, 49, 88–90, 92, 96–98, 101, 105, 106, 108–110. H 35.
[103]
23. ***Herberta*** Gray corr. Lindb. (5)
- 1 ***straminea*** (Dum.) Lett (*H. adunca* auct.)
48, 49, 70, 86–88, 90, 96–99, 103–108, 110–112. [92]
 - 2 ***adunca*** (Dicks.) Gray (*H. hutchinsiae* (Gottsche) Evans)
48, 49, 69, 70, 73, 75, 86–88, 97–106, 108, 110, 111. H 1–3,
6, 7, 16, 27, 29, 33–35, 39. [90]
24. ***Pleuroclada*** Spruce
- 1 ***albescens*** (Hook.) Spruce
88–92, 94, 96–98, 100, 105, 106.
25. ***Hygrobiella*** Spruce
- 1 ***laxifolia*** (Hook.) Spruce
(14), 42, 46, 48, 49, 57, (62), 64–70, 72, 73, 75, 77, 86–92, 94–106,
108–110, 112. H 1–3, 16, 20, 21, 33, 34, 36, 39, 40.
26. ***Mastigophora*** Nees
- 1 ***woodsii*** (Hook.) Nees
88, 97–99, 103–108, 110. H 1, 2, 16, 27.
27. ***Ptilidium*** Nees
- 1 ***ciliare*** (L.) Hampe
2–5, 12, 13, 15, 17, (19), 21, 22, 24–28, 30, 34–50, 52–102,
104–112. H 1, 2, 20, 21, 27, 36, 39.
 - 2 ***pulcherrimum*** (Weber) Hampe
5–9, 11, 13–18, 20, 22–24, 29, 32, 35, 37, 38, 41, 42, 47, 50, 51,
54, 55, (56), 57, 59, (61, 62), 64, (65), 67–70, 75, 78, 81, 83–86,
88, 90–92, 95, 96, 99, 100, 106, 108. H 31.
28. ***Trichocolea*** Dum. corr. Nees
- 1 ***tomentella*** (Ehrh.) Dum.
1–6, 8, 9, 11, (12), 13–18, (20), 26, 34–40, 42, 44–46, 48, 49, 52,
57, 58, (59), 60, 62–77, 79, 83, 85–92, 94–106, 108, 109. H 1,
2, 5, 6, 8, 10, 14, 16, 18, 20, 27, 29, 30, 33–36, 38–40.

29. **Blepharostoma** (Dum.) Dum.1 **trichophyllum** (L.) Dum.

1, 3, 4, 14, 16, 23, 33–37, 39–44, 46, 48–50, 54, 57, 59, 60, 62–81,
83, 85–92, 94, 96–112. H 1–3, 6, 16, 20, 27–29, 31, 33–35,
38, 39.

30. **Bazzania** Gray corr. Carringt.1 **trilobata** (L.) Gray

(1), 2–5, 11, 14, 34–37, 39, 40, 42–50, 52, 57–60, (62, 63),
64–74, 80, 81, 85–92, 96–105, 108, 111, 112. H 1–3, 5, 13,
16, 20, 21, 27, 28, 33, 35, 38–40. C.

2 **tricrenata** (Wahlenb.) Trev.

42, 44, 48, 49, 60, (64, 65), 69, 70, 72, 73, 75, 76, 78, 86–90, 92,
94, 96–112. H 1–3, 6, 7, 16, 20, 27–30, 33–36, 39, 40.

3 **pearsonii** (Steph.) Pears.

92, 97, 98, 105–108, 110. H 1, 2, 16, 27, 35.

31. **Lepidozia** (Dum.) Dum.1 **pinnata** (Hook.) Dum.

1–5, 34, 43–46, 48, 49, 52, 58, 60, (63), 64, 67, 68, 70, 71, 75,
96–105, 108, 110–112. H 1–4, 6, 8, 16, 20, 21, 27, 29, 30,
33–36, 39, 40.

2 **reptans** (L.) Dum.

1–7, 9–25, 27, 28, (30), 32–112. H 1–3, 5–9, 12–16, 18–31,
33–40. C.

3 **pearsonii** Spruce

46–50, 57, 59, 60, 63–65, 67–76, 78, 86, 87, 90, 97–106, 108,
109, 111. H 1, 27, 33–35, 39.

4 **setacea** (Weber) Mitt.

1–6, 8–17, 22, (23), 24–28, 34, 35, 37, 39–50, 52, 54, (55),
57–60, (61), 62–83, 85, 87–92, 96–112. H 1–3, 6, 7, 9–11,
14–18, 20–23, 25, 27–31, 33–36, 38, 39. C.

5 **trichoclados** K. Müll.

46, 48, 58, 60–65, 69, 70, 73, 75, 83–93, 95–98, 100, 102, 103,
105–111. H 1, 2, 9, 16, 20, 21, 23, 27–30, 33–36, 39. [5]

6 **sylvatica** Evans

13, 14, 16, 42, 48, 62, 67, 70, 80, 96. H 1, 33.

BRITISH HEPATICS

32. **Telaranea** (Spruce ex Sydow) Schiffn.

- 1 **sejuncta** (Ångstr.) S. Arnell
H 1–3, 16, 27.
- 2 **murphyae** Paton (6)
1.

33. **Calypogeia** Raddi

- 1 **neesiana** (Mass. & Carest.) K. Müll. (1)
α **neesiana**
11, 47, 59, 62–64, 66–68, 72, 80, 85, 88–92, 96, 97, 106. H 28.
[77]
β **meylanii** (Buch) Schuster
14–17, 58, 60, 64, 66–68, 70, 72, 86. H 1, 33.
- 2 **muellerana** (Schiffn.) K. Müll. (1)
1–5, 9–14, 16–25, 27, 35–37, 39–44, 46–50, 54, 55, 57–60,
62–64, 66–70, 72, 73, 75–77, 80, 83, 86, 88–102, 104, 105,
108–110. H 1, 2, 6, 7, 16, 17, 19, 20–23, 25, 27–29, 31–36,
38–40.
- 3 **trichomanis** (L.) Corda emend. Buch (1)
49, 57, 64, 66–70, 80, 88–90, 92, 93, 96, 97, 99, 105, 106, 108.
H 33, 35, 36, 40.
- 4 **fissa** (L.) Raddi
1–24, 26–50, 52, 54–100, 102–112. H 1–3, 5, 7, 9–12, 14–16,
18–29, 31–40. C.
- 5 **sphagnicola** (Arn. & Pers.) Warnst. & Loeske
3, 8, 9, 11–15, 17, 22, 26, 28, 40, 46, 50, 58, (60), 64–67, 70, 73,
87, 88, 92, 96, 97, 105, 109, 110. H 10, 14, 29, 32, 33, 36, 37.
- 6 **suecica** (Arn. & Pers.) K. Müll.
97, 105. H 33, 36.
- 7 **arguta** Nees & Mont.
1–6, 8–20, 22–24, 27, 32–50, 52–79, 81–84, 86, 90, 91, 93,
96–100, 102–106, 108–112. H 1–3, 6, 7, 9–16, 18–21, 23, 25,
27, 29–40. C.

34. **Lophozia** (Dum.) Dum.

- 1 **ventricosa** (Dicks.) Dum. (7)
1–6, 9–11, 13–18, 20–28, (29), 30, 32, 34–52, 54–112. H 1–3,
6, 7, 12, 14–18, 20, 21, 23, 26–40. C.

BRITISH HEPATICS

- β **silvicola** (Buch) E. W. Jones
 1–5, 11, 16, 17, 22, 35, 41, 42, 45, 47–49, 55, 56, 63–67, 69, 70,
 72, 73, 80, 88, 95, 97, 99, 104. H 1, 33, 36.
- γ **longiflora** (Nees) Macoun
 39, 88, 90.
- δ **confertifolia** (Schiffn.) Husn.
 14, 16, 20, 25, 40, 48, 70. H 35. [37]
- 2 **wenzelii** (Nees) Steph. (7)
 88, 89, 92, 96, 97.
- 3 **porphyroleuca** (Nees) Schiffn. (7)
 2, 16, 27, 35, 36, 38, 39, 48, 57, 58, 60–62, 64, 66, 69, 70, 72–78,
 85–92, 96–98, 100–102, 105, 107–112. H 12, 20, 27, 31–33,
 35–39.
- β **guttulata** (Lindb. & Arn.) Warnst.
 92, 96.
- 4 **alpestris** (Schleich. ex Weber) Evans
 2, 42, 43, 46–49, 57, 60, 64–66, 68–70, 72, 73, 75, 79, 86–92,
 94, 96–98, 105–110, 112. H 1, 2, 9, 12, 13, 20, 21, 27, 28,
 30, 36–39.
- 5 **longidens** (Lindb.) Macoun
 48, 65, 66, 88, 90–92, 94–99, 106, 108.
- 6 **excisa** (Dicks.) Dum.
 1–8, 10, 11, 13–19, (20), 22, 23, 25–28, 33–42, 44–50, 52, 54–64,
 66–70, 72, 73, 76–85, 87, 89–92, 94–97, 100, 103, 106, 109, 110.
 H 1, 3, 7, 16, 27–29, 33, 35–39. C.
- β **cylindracea** (Dum.) K. Müll.
 5, 48, 89, 92, 96, 108.
- 7 **obtusa** (Lindb.) Evans
 48, 49, 67, 71, 88, 96–99, 105, 106.
- 8 **capitata** (Hook.) K. Müll.
 (11), 12, 14, 17, 19, 22. H 3.
- 9 **incisa** (Schrad.) Dum.
 1–6, 9, 11, 13–17, 25–27, 35, 37, 39, 41–46, 48–50, 52, 55, 57,
 58, (59), 60–83, 85–112. H 1–3, 6, 8, 14, 16–22, 24, 26–30,
 32–40. [20, 23]
- 10 **opacifolia** Culm.
 88–90, 92, 96, 97, 105, 106.
- 11 **bicrenata** (Schmid.) Dum.
 1–3, 5–17, 19–25, 27, 33–45, 47–50, 54–58, (59), 60–64, 66–70,
 72–75, 77, 78, 80–86, 88–93, 96–99, 101, 105, 106, 109, 112.
 H 1, 2, 4, 7, 12, 16, 20, 21, 36, 38, 39. C.

BRITISH HEPATICS

35. **Leiocolea** (K. Müll.) Buch

- 1 **turbinata** (Raddi) Buch
1–25, 29, 30, 32–42, 44, 48–52, 54, 56–73, 75, 77, 80–85, 87, 89–91, 93, 94, 98, 100, 101, 106–109, 111. H 1, 2, 4–6, 9, 12–14, 17–21, 28, 29, 32–40. [78]
- 2 **badensis** (Gottsch.) Jörg.
1, 4–6, 9, 12–14, 17, 18, 20, 24, 25, 33–36, 41, 44, 48, 50, 52, 57, 59, 60, 62–68, 72, 75, 78, 80–85, 88–92, 94, 97, 105, 106, 108–110. H 9, 17, 27, 28, 33–36, 39, 40. [8, 38]
- 3 **muelleri** (Nees) Jörg.
34–36, 40–42, 44, 47–49, 57, 60, 62–67, 69–73, 75, 76, 78–80, 82, 83, 85–90, 92, 94–100, 102–109, 111, 112. H 1, 16, 27–29, 33, 36, 39. [25, 59]
- 4 **bantriensis** (Hook.) Jörg.
35, 36, 38, 40–42, 44, 48, 49, 57, 59, 60, 62, 64–70, 72, 73, 75, 78, 79, 81, 83, 85, 86, 88–92, 94, 96–100, 102, 105–107, 109, 112. H 1–3, 16, 20, 27–29, 33, 36, 38–40. [4, 77, 82, 84. H 14]
- 5 **heterocolpos** (Thed.) Buch
42, 48, 49, 72, 86–88, 90, 92, 98.
- 6 **gillmanii** (Aust.) Evans
88, 89, 92, 109.
- 7 **rutheana** (Limpr.) K. Müll.
27, 28.

36. **Barbilophozia** Loeske

- 1 **floerkei** (Web. & Mohr) Loeske
2, 4–6, 14, 35, 37, 39–52, 55, 57–60, 62–112. H 2, 20, 21, 27, 28, 33, 35, 36, 38–40.
- 2 **atlantica** (Kaal.) K. Müll.
47–49, 60, 63–70, 72, 73, 80, 90–93, 96, 100, 105, 108, 109, 111. H 34.
- 3 **attenuata** (Mart.) Loeske
(1), 2–6, 11, 13, 14, 16–18, (20), 23, 24, 27, 28, 34–37, 39–42, 44–52, 54, 55, 57–76, 79–92, 94–103, 105, 106, 108, 109. H 1, 7, 16, 20, 21, 27, 33, 35–40. C. [107]
- 4 **quadriloba** (Lindb.) Loeske
88, 92, 98.
- 5 **kunzeana** (Hüb.) K. Müll.
64, 67, 68, 71, 88, 90, 92, 96, 97, 110. H 28.

BRITISH HEPATICS

- 6 **hatcheri** (Evans) Loeske
26, 28, 40, 48–50, 59, 60, 65–68, 70, 71, 80, 81, 83–97, 105–109.
- 7 **lycopodioides** (Wallr.) Loeske
64, 65, 68–70, 88–90, 92, 94, 96, 97, 104–107. [108]
- 8 **barbata** (Schmid.) Loeske
(1), 2, (14), 26, 37, 40–42, 44, 47–50, 52, 54, 55, 59, 60, 62–70,
72–74, 77–99, 104–107, 109, 112. H 1, 6, 12, 20, 21, 27, 30,
35, 37, 40. [3, 4]

37. **Tritomaria** Schiffn.

- 1 **quinquedentata** (Huds.) Buch
5, 6, 35–37, 40, 42–44, 46–52, 57, 60, 62–70, 72–92, 94–112.
H 1–3, 6, 7, 16, 20, 27–29, 31, 33–36, 38–40. [1, 3, 4]
- 2 **exsecta** (Schmid.) Schiffn. (1)
35, 40, 48, 49, 70, 87, 97–100, 103, 105. H 1, 2, 27. [69]
- 3 **exsectiformis** (Breidl.) Schiffn.
1, 3–5, 7, 9–17, 22, 23, 25–27, 30, 34, 36, 37, 39, 40, 42, 48–51,
54, 57, 58, (59, 61), 62–64, 66–70, 72–74, 78, 80, 81, 85–94,
96–101, 104–110, 112. H 1–4, 6, 9, 17, 20, 22, 24, 27, 28,
33–40.
- 4 **politá** (Nees) Schiffn.
88, 89, 92, 97–99.

38. **Chandonanthus** Mitt.

- 1 **setiformis** (Ehrh.) Mitt.
68, 88–97, 105, 106, 108, 109.

39. **Sphenolobus** (Lindb.) Steph.

- 1 **helleranus** (Nees) Steph.
48, 69, 70, 88, 92, 96, 97, 105. H 33, 40.
- 2 **minutus** (Schreb.) Steph.
4, 11, (14), 44, 46, 48, 49, 51, 57, 58, 60, (62, 63), 64, 66, 68–70,
72–75, 78, 83, 85–92, 94, 96–112. H 1–3, 6, 7, 20, 21, 27,
33–36, 38, 39.
- 3 **saxicola** (Schrad.) Steph.
88, 92, 96.

40. **Anastrophyllum** (Spruce) Steph.

- 1 **donianum** (Hook.) Steph.
88, 92, 94, 96–98, 105–108. [90]

BRITISH HEPATICS

- 2 **joergensenii** Schiffn.
96, 105–108.
41. **Eremonotus** Kaal. in Pears.
- 1 **myriocarpus** (Carringt.) Pears.
42, 49, 69, 70, 87–89, 96–98, 104–106, 111. H 2, 34.
42. **Acrobolbus** Nees
- 1 **wilsonii** Nees
97, 104. H 1–3, 27.
43. **Anastrepta** (Lindb.) Schiffn.
- 1 **orcadensis** (Hook.) Schiffn.
4, 47–49, 60, 64, 65, 68–70, 72, 73, 75, 78, 85–90, 92, 94, 96–111. H 1, 6, 16, 27, 33, 35.
44. **Gymnocolea** (Dum.) Dum.
- 1 **inflata** (Huds.) Dum.
1–22, 24–28, 33–112. H 1–3, 6, 7, 10, 12, 14–16, 18, 20, 21, 24, 27–30, 33–40. C.
 β **heterostipa** (Carringt. & Spruce) K. Müll.
49, 57, 60, 73, 88–90, 92, 97–99. H 35.
- 2 **acutiloba** (Kaal.) K. Müll.
48.
45. **Jungermannia** L. emend. Jörg.
 \dagger 1 **lanceolata** L.
(14, 62, 64, 69). [3]
46. **Solenostoma** Mitt.
- 1 **triste** (Nees) K. Müll.
1–9, 13, 14, 23, 32–37, 39–51, 55, (56), 57–92, 94–112. H 1–5, 7, 9, 16, 20, 27–30, 33, 35, 36, 38–40.
- 2 **sphaerocarpoidea** (De Not.) Paton & Warb. (*S. atrovirens* (Schleich. ex Dum.) K. Müll. var. *sphaerocarpoidea* (De Not.) K. Müll.)
34–36, 57, 64–67, 69, 70, 72, 76, 80, 87–92, 97, 100, 101, 106–108, 112. H 9, 28, 29, 33, 36, 39.
- 3 **schiffneri** (Loitl.) K. Müll.
88, 89, 92.

BRITISH HEPATICS

- 4 **pumilum** (With.) K. Müll.
 1–6, 13–16, 34–37, 39–50, 52, 57, 59, 60, 62–81, 83–92, 94–100,
 102–106, 108–111. H 1–3, 16, 20, 21, 27, 29–31, 33–40.
 [22, 23]
- 5 **cordifolium** (Hook.) Steph.
 42, 44, 47–50, 57, 59, 60, 62, 64–73, 76–80, 83, 85–92, 94,
 96–99, 102, 104–106, 108, 110. H 1, 2, 35, 38–40.
- 6 **sphaerocarpum** (Hook.) Steph.
 3, 36, 42, 46–50, 55, 57–60, 62–73, 75, 80, 83, 86, 88–92, 96–99,
 104, 107–110. H 1–3, 6, 16, 20, 21, 27, 29, 31, 33, 36–40.
 C. [4, 5, 11, 14, 21, 35, 40]
- 7 **caespiticium** (Lindenb.) Steph.
 (10, 17, 33), 63.
- 8 **crenulatum** (Sm.) Mitt.
 1–28, 32–50, 52, 54, 55, 57–112. H 1–3, 7, 9, 10, 12, 14–16,
 20, 21, 27, 29–31, 33–40. C. [H 28]

47. **Plectocolea** (Mitt.) Mitt.

- 1 **obovata** (Nees) Mitt.
 2, 42, 45–50, 57–60, 62–80, 83, 86–92, 94–110, 112. H 1, 2,
 6, 7, 9, 16, 20, 21, 27, 30, 35, 36, 38, 39.
- 2 **subelliptica** (Lindb.) Evans
 88, 89. [71]
- 3 **hyalina** (Lyell ex Hook.) Mitt. (1)
 1–6, 8–17, 20, 22, 23, 36–38, 42–44, 48, 49, 55, 59, 60, 62, 64,
 67–69, 71–73, 75, 76, 80, 83, 85, 86, 88, 90–92, 96–100, 107,
 108. H 1, 20, 30, 31, 33, 34, 36, 39, 40. [33, 34, 39–41, 45,
 46, 50, 57, 63, 65, 66, 70, 74, 77–79, 82, 84, 87, 89, 94, 95,
 101–106, 109–112. H 2, 13, 16, 21, 27, 35, 37, 38]
- 4 **paroica** (Schiffn.) Evans (1)
 35, 41–44, 46, 48, 49, (62), 63, 65, 67, 68, 70, 72, 73, 75, 78,
 80, 81, 86–91, 97–101, 105, 107, 112. H 36, 38, 40. [59,
 92, 96, 108]

48. **Nardia** Gray

- 1 **compressa** (Hook.) Gray
 2–4, 14, 41, 42, 44, 46–49, 57–60, 62–67, 69–71, 73, 75, 86–92,
 94, 96–105, 108, 110–112. H 1–3, 6, 7, 16, 20, 21, 27, 33–36,
 38, 39.

BRITISH HEPATICS

- 2 **scalaris** (Schrad.) Gray
1–18, 20–25, 27, 28, 30, 32–112. H 1–3, 6–10, 12–14, 16–21,
26–31, 33–40. C.
- 3 **geoscyphus** (De Not.) Lindb.
3–5, 11–14, 16–18, 22, 28, 34, 48, 49, 57–59, (61), 62–67, 69,
72, 77, 87–90, 92, 93, 97, 98, 104, 105, 109. [10]
- 4 **breidleri** (Limpr.) Lindb.
88–90, 92, 94, 96, 97.

49. **Jamesoniella** (Spruce) Schiffn.

- 1 **autumnalis** (DC.) Steph.
2, 3, (14), 34, 37, 40, 48, 50, 69, 70, 73, 86–88, 90, 91, 97–99,
105. [49]
- 2 **undulifolia** (Nees) K. Müll.
2, (34), 69, 77, 98. [90]

50. **Southbya** Spruce

- 1 **nigrella** (De Not.) Spruce
9, 52.
- 2 **tophacea** Spruce
1, 41. H 28.

51. **Gongylanthus** Nees

- 1 **ericetorum** (Raddi) Nees
1. C.

52. **Marsupella** Dum.

- 1 **adusta** (Nees) Spruce
48, 49, 69, 70, 72, 77, 88–90, 92, 94, 96–99, 104, 106, 108.
- 2 **varians** (Lindb.) K. Müll.
88–90, 92, 94, 96–98, 105, 106.
- 3 **condensata** (Ångstr.) Kaal.
88, 92, 94, 96, 97.
- 4 **boeckii** (Aust.) Lindb.
97, 98.
- 5 **stableri** Spruce
48, 49, 69, 70, 88, 90, 92, 94, 96–98.
- 6 **sparsifolia** (Lindb.) Dum.
92.

BRITISH HEPATICS

- 7 **ustulata** (Hüb.) Spruce
3, 13, 42, 44, 48, 49, (62), 65, 66, 68–70, 72, 73, 79, 87–90, 92,
94, 96–99, 101, 103, 105, 106, 108. H 2, 36, 39, 40.
- 8 **sprucei** (Limpr.) Bernet
48, 49, 88, 90, 92, 97, 98.
- 9 **funckii** (Web. & Mohr) Dum.
1, 3, 7, 9, 14, 37, 40, 42–44, 46–49, 58, 68–70, 72, (73), 75, 79,
86, 88–92, 96–103, 105, 108. H 2, 16, 20, 27, 35, 37–39.
C.
- 10 **alpina** (Gottsche) Bernet
48, 49, 69, 70, 73, 88–92, 94, 96–98, 105, 108.
- 11 **emarginata** (Ehrh.) Dum.
1–6, 13, 14, 16, 34–37, 40–50, 52, (55), 57–60, (61), 62–112.
H 1–3, 6, 7, 9, 12–14, 16, 18, 20, 21, 27, 28, 30, 31, 33–40.
C.
- 12 **aquatica** (Schrad.) Schiffn.
3, 36, 41, 42, 44, 45, 47–49, 59, 60, 62, 65, 66, 68–71, 73, 74,
76, 78, 80, 83, 86–92, 94, 96–100, 102–106, 108–112. H 1–3,
16, 20, 21, 27, 28, 34–36, 38, 39.
- β **pearsonii** (Schiffn.) E. W. Jones
3, 42, 47–49, 65, 68–70, 73, 88, 90, 92, 96–99, 103, 108, 110,
112. H 1, 2, 20, 27, 31, 38.
- 13 **sphacelata** (Gies.) Dum.
42, 49, 62, (73), 86, 88–90, 92, 94, 96–98, 105, 106, 108, 110,
112. H 20, 27, 33, 35.

53. **Gymnomitrion** Corda

- 1 **concinnatum** (Lightf.) Corda
48, 49, (64, 65), 68–70, 72, 73, 75, 77, 78, 86–101, 103, 105–110,
112. H 16, 35, 39.
- 2 **obtusum** (Lindb.) Pears.
4, 48–50, 65–70, 72, 73, 75, 78, 85–92, 94–99, 103–106, 108–110.
H 1, 6, 16, 27, 35, 38.
- 3 **coralliodes** Nees
49, 88, 89, 92, 97, 105, 108, 109.
- 4 **crenulatum** Gottsche
3, 4, 45, 46, 48, 49, 52, 68–70, 72, 73, 75, 78, 88, 90, 92, 96–101,
103–106, 108–111. H 1–3, 6, 7, 16, 20, 21, 27–29, 31, 33–36,
38–40.
- 5 **apiculatum** (Schiffn.) K. Müll.
92, 96, 97.

54. **Mylia** Gray corr. Lindb.

- 1 **taylori** (Hook.) Gray
39, 40, 42, 44, 46–50, 57–74, 76–80, 82–94, 96–112. H 1–3,
6, 9, 14, 16–21, 26–31, 33–40. [53]
- 2 **anomala** (Hook.) Gray
2, 4–6, 8, 9, 11–17, 22, 24–28, 35, 39, 40, 43, 44, 46–48, 50,
(55), 57–60, (61), 62–70, 72–101, 103–112. H 1–3, 10, 14,
17–20, 22, 23, 27, 28, 31–33, 35–40. [3]
- 3 **cuneifolia** (Hook.) Gray
48, 87, 88, 97–99, 101, 103, 105, 108. H 1–3, 16, 27, 35.

55. **Pedinophyllum** Lindb.

- 1 **interruptum** (Nees) Lindb.
6, 42, 47, 49, 57, (62, 63), 64, 65, 69, 97, 98. H 1, 9, 20,
27–29, 33, 35, 38. [56]

56. **Plagiochila** (Dum.) Dum.

- 1 **carringtonii** (Balf. ex Carringt.) Grolle (*Jamesoniella carringtonii*
(Balf. ex Carringt.) Schiffn.)
88, 90, 92, 94, 96–99, 102–108, 110–112. H 27.
- 2 **asplenoides** (L.) Dum.
 α **asplenoides** (1)
1–17, 19, 20, 22–24, 30–112. H 1–3, 5–40. C. [18, 21,
25–28]
- β **major** Nees
1–19, 22–24, 27–38, 40–50, 53–55, 57, 58, 60, 62, 64–70, 72–77,
79–111. H 1, 2, 5, 6, 8, 10, 13–16, 24, 28, 29, 33, 35–40.
C.
- 3 **spinulosa** (Dicks.) Dum.
1–6, (11, 14), 34, 37, 40–50, 52, 57, (59), 60, 63–65, 67, 69–76,
78–80, 83, 85–92, 96–106, 108–112. H 1–3, 6–14, 16, 18,
20–22, 26–30, 33–40. C.
- β **killarniensis** (Pears.) Macv.
H 2.
- γ **inermis** Carringt.
48, 60, 69, 70, 86, 98, 99, 101, 103, 110, 111. H 1, 2, 27.
- †[4] **ambagiosa** Mitt.] (4)
[H 3]

- 5 **punctata** Tayl.
1–5, 42–49, (65), 69–73, 75, 86–88, 96–105, 108, 110. H 1–3,
6, 7, 13, 16, 20, 27–30, 33–35, 39.
- β **owenii** (Steph.) Macv.
H 2.
- 6 **tridenticulata** (Hook.) Dum.
48, 49, 64, 69, 70, 73, 75, 87, 88, 97–99, 101, 103–105, 108.
H 1–3, 16, 27, 28, 35, 39, 40.

57. **Lophocolea** (Dum.) Dum.

- 1 **bidentata** (L.) Dum.
1–112. H 1–16, 18–23, 25–30, 32–40. C.
- 2 **cuspidata** (Nees) Limpr.
1–30, 32–112. H 1, 2, 4, 6, 7, 9–12, 14–16, 19–25, 27–29,
31, 33, 35–39. C.
- 3 **heterophylla** (Schrad.) Dum.
1–42, 44–51, 53–77, 79–91, 93, 96–102, 105, 106. H 1–3, 5,
7, 12, 16, 19–21, 27, 30, 34–36, 38, 39. C.
- 4 **semiteres** (Lehm.) Mitt. (6)
1.
- 5 **fragrans** (Moris & De Not.) Moris & De Not.
1–5, 9, 35, 40, 41, 43–45, 48, 49, 52, 57, 70, 72–76, 81, 97, 98,
100–103, 105, 110. H 1–3, 5, 11, 13, 15, 16, 20, 27, 29, 33,
39. C. [H 6]

58. **Chiloscyphus** Corda

- 1 **polyanthos** (L.) Corda
1–8, 11–27, 31–52, 54, 55, (56), 57–112. H 1–3, 5–7, 9, 10,
12, 14, 20, 21, 23, 27, 29–33, 35–40. C.
- β **rivularis** (Schrad.) Nees
1–3, 5, 6, 9, 10, 12, 14, 16, 22, 30, 35, 37, 39–42, 45, 48, 49, 57,
59–64, 69–71, 73, 75–78, 82, 83, 87, 88, 90, 91, 97, 99, 100,
102, 104, 108. H 1–4, 6, 9, 27, 39, 40. [38]
- 2 **pallescens** (Ehrh.) Dum.
1–20, 22, 23, 26–29, 31–37, 39–45, 47–52, 54, 57–65, 67–70,
72–74, 80, 82–92, 96–100, 102–106, 111, 112. H 1, 2, 5, 16,
21, 28, 29, 33, 35–38. [56, 93–95, 108]

59. **Harpanthus** Nees

- 1 **fletovianus** (Nees) Nees
(73), 88–90, 92, 96–98, 105–109, 112. [62]
- 2 **scutatus** (Web. & Mohr) Spruce
3, 14, 16, 36, 46, 48, 49, 60, (62), 64, 67, 70, 72, 80, 86, 87, 89,
97, 98, 100, 101, 103–105. H 1–3, 20, 27, 33, 35, 36, 39, 40.

60. **Geocalyx** Nees

- 1 **graveolens** (Schrad.) Nees
97, 105.

61. **Saccogyna** Dum.

- 1 **viticulosa** (L.) Dum.
1–6, 11, 14, 34, 35, 37, 39–50, 52, 59, 60, 63–67, 69–76, 85–89,
(90), 91, 97–106, 108, 110–112. H 1–3, 5–7, 9–14, 16, 18,
20, 21, 27–36, 38–40. C.

62. **Cephaloziella** (Spruce) Schiffn.

- 1 **pearsonii** (Spruce) Douin
46, 48, 49, 69, 70, 73, 75, 87, 97, 98, 103. H 1, 3, 27, 31.
- 2 **elachista** (Jack) Schiffn.
12, 14, 22, 27. H 20, 21.
- 3 **subdentata** Warnst.
1, 3–5, 8, 12–14, 17, 22, 24, 34, 48, 52, 77, 88, 89, 92, 97, 104,
108. H 27, 29.
- 4 **rubella** (Nees) Warnst.
1, 2, 6, 12–14, 17, 20, 22–25, 28–30, 33, 34, 36–41, 46, 48, 50,
51, 56, 58, 62–64, 67–69, 72, 74, 76, 80, 81, 85, 86, 89–99, 105,
107, 111. H 37, 39. C.
- 5 **hampeana** (Nees) Schiffn.
1–7, 9–17, 22–24, 26, 29, 34, 35, 39–43, 45–50, 56, 57, 59–64,
66–70, 72, 73, 75, 76, 79, 80, 82, 85–92, 95, 96, 98, 99, 103,
105–109. H 1, 2, 9, 13, 20, 27–29, 33, 35–40. [18, 19, 25,
32, 36, 38, 58, 74, 78, 83, 84, 97, 100, 110, 112. H 3, 12, 17,
18, 21, 30]
- 6 **baumgartneri** Schiffn.
9, 10, 13–15, 17, 34.
- 7 **stellulifera** (Spruce) Schiffn. (1)
1–3, 6, 10, 13, 14, 16, 33, 34, 36, 37, 41, 44, 49, 50, 56, 57, 77.
H 27. [7, 8, 26, 38, 45, 80, 97, 103]

BRITISH HEPATICS

- 8 **massalongoi** (Spruce) K. Müll.
1–4, 48–50, 52, 91. H 3.
- 9 **starkei** (Funck) Schiffn. (1)
1–6, 8, 11–17, 20–23, 26, 28–30, 33–35, 37, 38, 40–42, 44, 45, 47–49, 52, 54, 55, 58–64, 66–70, 72–74, 77, 80–86, 88–92, 95–101, 104, 105, 107, 110, 111. H 1–3, 6, 9, 12, 16, 20, 21, 27, 29, 30, 33, 36–39. C. [7, 9, 10, 18, 19, 25, 27, 32, 36, 39, 43, 50, 51, 53, 56, 57, 65, 75, 78, 79, 87, 103, 106, 108, 109, 112. H 31, 35]
- β **scabra** (Howe) Clark & Frye
1, 14, 17, 50, 82, 88, 89, 96, 98.
- 10 **dentata** (Raddi) K. Müll.
1.
- 11 **turneri** (Hook.) K. Müll.
1–3, 10, 13, 14, 33–36, (38), 44, 45, 48. H 2, 3, 20. C.
- 12 **integerrima** (Lindb.) Warnst.
7, 13, 14, 22, 26.
- 13 **calyculata** (Mont. & Dur.) K. Müll.
1, 41.

63. **Cephalozia** (Dum.) Dum.

- 1 **ambigua** Mass.
88, 92.
- 2 **bicuspidata** (L.) Dum.
1–30, 32–112. H 1–3, 5–10, 12–23, 25–40. C.
- β **lammersiana** (Hüb.) Breidl.
1, 2, 5, 8, 11, 13–19, 22, 27, 36, 39, 41, 42, 44–46, 48, 50, 53, 54, 56–65, 67–70, 72–78, 81, 83–86, 88–92, 95–99, 101, 103–106, 108–112. H 1–3, 6, 7, 9, 12, 14, 16–18, 20, 21, 27, 30, 35, 37–40. [38]
- 3 **pleniceps** (Aust.) Lindb.
6, 14, 27, 49, 88–90, 92, 94, 96, 97, 105, 108. [34]
- 4 **loitlesbergeri** Schiffn.
48, 60, 64, 66, 69, 73, 74, 77, 88–90, 92, 94, 96, 97, 108, 109. H 37.
- 5 **connivens** (Dicks.) Lindb.
1–3, 5, 6, 8–20, 22, (23), 24–28, 32, 34, 35, (38), 39–43, 45, 46, 48–50, 54, 57–70, 72–93, 96–112. H 1–3, 7, 8, 14–21, 23–25, 27–29, 33, 35–40. C.

BRITISH HEPATICS

- 6 **hibernica** Spruce ex Pears.
H 1, 2, 40.
- 7 **media** Lindb.
1–6, 9, 11–17, 20, 22, 23, 34–37, 39, 40, 43, 44, 46, 48–51,
55–75, 77–106, 108–111. H 1, 2, 5–7, 15, 16, 18, 20, 21, 27,
28, 33, 35–38, 40. [38]
- [8] **affinis** Lindb. ex Steph.] (2)
[H 2]
- 9 **macrostachya** Kaal.
2, 3, 8, 9, 11, 13–15, 17, 22, 24, 27, 28, 39, 40, 46, 48, 50, 58,
60, 62, 64, 67, 68, (69), 77, 80, 81, 89, 96. [90]
 β **spiniflora** (Schiffn.) K. Müll.
13.
- 10 **catenulata** (Hüb.) Lindb.
2, 3, 13, 14, 42, 44, 48, 49, 58, 59, (62–64), 67–72, 80, 84, 88,
90, 92, 97, 98, 105, 110. H 1–3, 7, 9, 13, 16–18, 20, 21, 27–30,
33, 35, 36, 38, 39. [73]
- 11 **leucantha** Spruce
(17), 48, 49, 68, 72–74, 77, 78, 81–83, 86–93, 96–101, 103–112.
H 1, 2, 9, 12, 16, 27, 29, 34–36. [62]
64. **Cladopodiella** Buch
- 1 **francisci** (Hook.) Buch
1–3, 8, 9, 11–14, 16, 17, 22, 24–28, 34, 35, 41, 45, 48, 52, 58,
(61), 62, (64), 71, 88, 90–92, 96, 98, 100, 105, 110. H 1, 3, 6,
21, 27, 29, 35, 38, 39. [59]
- 2 **fluitans** (Nees) Buch
1–3, 8, 9, 11, 13–15, (16), 17, 27, 28, 39, 40, 43, 44, 46, 48–50,
58–60, 62–68, (69), 70, 71, 73, 80, 83, 88, 92, 95, 97, 104–106,
108–110. H 1, 2, 16, 20, 21, 23, 27, 37–39.
65. **Nowellia** Mitt.
- 1 **curvifolia** (Dicks.) Mitt.
1–6, 13, 17, 24, 29, 33, 39–44, 46–50, 57, 59, 62–81, 83–92,
94–106, 108, 110–112. H 1–3, 5, 7, 9, 15, 16, 20, 21, 26, 27,
29, 33–36, 38–40. [14]
66. **Odontoschisma** (Dum.) Dum.
- 1 **sphagni** (Dicks.) Dum.
1–5, 8, 9, 11–17, (21), 22, (23), 24, 25, 27, 28, (29), 34, 35, 37,
39–42, 44, 46, 48–52, 54, (55), 57–70, 72–81, 83–94, 96–112.
H 1–3, 7–10, 12–40. [20, 56]

BRITISH HEPATICS

- 2 **denudatum** (Mart.) Dum.
3, 8, 9, 11–14, 16, 17, 22, 26, 40, 45, 46, 48, 49, 57, 58, (59), 60,
61, (62, 64), 66–68, (69), 70–74, 78, 80, 81, 83–85, 87, 88, 91,
94, 96–103, 105–112. H 1, 2, 9, 14, 16–19, 21, 24, 27–29,
33–38.
- 3 **elongatum** (Lindb.) Evans
88, 99, 104, 108, 111.
- †4 **macounii** (Aust.) Underw.
88.

67. **Adelanthus** Mitt.

- 1 **decipiens** (Hook.) Mitt.
48, 49, 70, 97–101, 103, 104. H 1–3, 6, 7, 16, 27–29, 33, 35,
39, 40. [4. H 30]
- 2 **unciformis** (Tayl.) Mitt.
H 16, 27, 35.

68. **Douinia** (C. Jens.) Buch

- 1 **ovata** (Dicks.) Buch
1–4, 42, 44, 48, 49, 57, (65), 68–71, 73, 86–92, 94, 96–100,
102–106, 108, 109. H 1, 20, 21, 27, 31, 34, 35, 38.

69. **Diplophyllum** Dum.

- 1 **albicans** (L.) Dum.
1–25, 27, 28, (30), 32–112. H 1–3, 5–7, 9–16, 18–23, 26–40.
C.
- 2 **taxifolium** (Wahlenb.) Dum.
49, 68, 69, 87–90, 92, 94, 96–98, 105, 106.
- 3 **obtusifolium** (Hook.) Dum.
2–5, 13, 14, 16, 17, 35, 43, 46, 48, 49, 58, (61), 69, 73, 74, 77,
85, 88–91, 93, 97, 108, 112. H 1, 3, 4, 21, 32, 37.

70. **Scapania** (Dum.) Dum.

- 1 **gymnostomophila** Kaal.
89, 92.
- 2 **cuspiduligera** (Nees) K. Müll.
35, 44, 57, 64–66, 69, 88–92, 97, 108.
- †3 **calcicola** (Arn. & Pers.) Ingham
88.

BRITISH HEPATICS

- †4 **parvifolia** Warnst.
97.
- 5 **curta** (Mart.) Dum. (8)
13, 88. [1–7, 9, 11–18, 20, 22, 24, 27, 33–37, 39, 40, 42–52,
56–60, 62–65, 67–92, 96–100, 102, 103, 105–112. H 1, 2, 6,
16, 20, 27–30, 35, 36, 38–40]
- 6 **scandica** (Arn. & Buch) Macv. (8)
2, 42, 48, 49, 64–68, 72, 88–92, 95–98, 105, 106. H 34.
[100]
- 7 **mucronata** Buch (8)
64.
- 8 **irrigua** (Nees) Dum.
1–3, 5–18, 20–28, 30, 33–45, 47–52, 54, 55, 57–75, 77–112.
H 1–3, 6, 10, 16, 20, 26–31, 33, 35–40.
- 9 **umbrosa** (Schrad.) Dum.
2–6, 13, 14, 16, 34, 37, 39, 46, 48, 49, 57–60, 62–70, 72–74, 76,
78–93, 95–112. H 1, 2, 6, 7, 16, 20, 21, 25, 27–29, 33–40.
- 10 **aequiloba** (Schwaegr.) Dum.
6, 48, 49, 52, 57, 59, 60, 62, 64–66, 69, 70, 72, 76, 79, 80, 85–92,
94–98, 105–108. H 1–3, 8, 9, 13, 16, 20, 21, 28, 29, 33–35,
39, 40. [3]
- 11 **aspera** Bernet
3, 6, 8–11, 13, 14, 17, 20, 23, 24, 32–35, 39–43, 47–51, 53, (55),
57, 60, 64–67, 69–72, 78, 80, 87–90, 92, 94, 96–101, 104–106,
108–110. H 2, 6, 9, 13–16, 21, 23, 26–30, 33–36, 38–40.
- 12 **gracilis** (Lindb.) Kaal.
1–5, 14, 16, 34–36, 39–52, 57–62, 64–112. H 1–3, 6, 7, 9–13,
16, 20, 21, 27–31, 33–40. C. [6, 11, 20]
- 13 **nemorea** (L.) Grolle (*S. nemorosa* (L.) Dum.)
1–27, 30, 32–52, 54–60, 62–81, 83–107, 110, 111. H 1–3,
5–7, 9, 12, 13, 16, 20, 21, 27–31, 33–40. C.
- †14 **crassiretis** Bryhn
49, 88.
- 15 **degenii** Schiffn. ex K. Müll.
66, 88, 89, 92.
- 16 **undulata** (L.) Dum.
1–18, (19–21), 22–25, 32, 34–52, 54, 55, 57–60, 62–112.
H 1–3, 5–7, 9–23, 26–31, 33–40. [27]
- 17 **uliginosa** (Swartz) Dum.
48, 49, 60, (62, 64), 69, 70, 86–90, 92, 94, 96–99, 103–106, 108.
H 1, 2, 12, 20, 27, 31, 35. [3]

BRITISH HEPATICS

- 18 **paludosa** (K. Müll.) K. Müll.
48, 88, 90, 92, 96, 106. H 1, 40.
- 19 **subalpina** (Nees) Dum.
2, 3, 42–44, 48–51, 60, (63), 64, (65), 66–68, 70, 72–81, 83,
85–99, 101, 103–112. H 1, 2, 6, 20, 27, 35, 36, 38, 39.
[1]
- 20 **compacta** (Roth) Dum.
1–6, 10, 11, 13–17, 20, 22, 24–27, 32, 34–37, 40–50, 52, 54, 55,
57, 59, 60, (62, 64), 66–103, 105–112. H 1, 2, 4, 13, 16, 20,
21, 27, 31, 32, 35, 37–40. C.
- 21 **ornithopodioides** (With.) Pears.
49, 69, 70, 88, 92, 94, 96–99, 102–108, 110. H 1, 16, 27, 35.
[90]
- 22 **nimbosa** Tayl.
49, 88, 92, 94, 96–98, 102, 105–108. H 1, 27, 35.

71. **Radula** Dum.

- 1 **complanata** (L.) Dum.
1–112. H 1–30, 32–40. C.
- 2 **lindbergiana** Gottsche
1–3, 40, 48, 49, 52, 65, 68–70, 72, 73, 75–78, 85–90, 92, 96–101,
103–106, 108–111. H 1, 2, 27–29. [11, 74]
- 3 **carringtonii** Jack
97, 103. H 1–3, 27, 33. [88]
- 4 **holtii** Spruce
H 1–3, 27.
- 5 **aquilegia** (Tayl.) Tayl. ex Gottsche & Lindenb.
48, 49, 69, 70, 73, 86–88, 97–100, 103–105, 108, 110, 112.
H 1–3, 6, 7, 16, 27, 28, 34, 35, 38.
- 6 **voluta** Tayl. ex Gottsche & Lindenb.
48, 49, 70, 75, 98. H 1–3, 6, 16, 27, 30. [50]

72. **Pleurozia** Dum.

- 1 **purpurea** Lindb.
73–75, 86–88, 92, 96–112. H 1–3, 9, 16–18, 20, 21, 23–25,
27–30, 33–36, 38–40. [90]

73. **Porella L.**

- 1 **laevigata** (Schrad.) Lindb.
 1, 3–6, 9–14, 16, 17, 24, 33–37, 39, 40, 42–50, 52, 60, 62, 64–67,
 69, 70, 72–75, 77, 79, 80, 82, 83, 85–90, 96–105, 108. H 1–3,
 6, 9, 16, 20, 28–30, 33–35, 39, 40. C. [H 36]
- β **killarniensis** (Pears.) Jörg.
 3. H 2.
- γ **obscura** (Nees) Jörg.
 1, 40, 48, 49, 82, 83, 85, 99. C.
- 2 **thuja** (Dicks.) C. Jens.
 1–5, 9, 15, 34, 45, 46, 48–50, 52, 72–75, 81, 82, 85–88, 90, 91,
 96–104, 110–112. H 1–3, 5, 6, 16, 18, 20, 38, 39. C.
- 3 **platyphylla** (L.) Lindb.
 1–60, 62–73, 75–77, 79–81, 83, 85–92, 94, 95, 97–99, 101, 103,
 106, 108. H 1, 2, 4–9, 12–14, 19–22, 26–30, 32, 33, 36, 38–40.
 C.
- 4 **cordaeana** (Hüb.) Evans
 3, 5, 13, 17, 40, 42–45, 47, 49–51, 57, 64–73, 75–96, 98, 99, 101,
 106, 108, 109, 112. H 5, 15, 31–33, 36, 38, 39, [16]
- β **simplicior** (Zett.) Arnell
 36, 73, 77, 83, 87, 88. H 32, 38, 39.
- γ **faeroensis** (C. Jens.) E. W. Jones
 112.
- 5 **pinnata** L.
 2–5, 45, 48–50. H 1, 2, 5, 15, 20, 30. [1, 9]

74. **Marchesinia** Gray corr. Carrington.

- 1 **mackaii** (Hook.) Gray
 1–4, 6, 9, 10, 34–36, 39–41, 43–46, 48–50, 52, 60, 64, 69, 70,
 72–75, 86, 97–104. H 1–5, 9, 15–17, 20–23, 26–29, 33–35,
 38, 39.

75. **Lejeunea** Lib.

- 1 **cavifolia** (Ehrh.) Lindb. (9)
 1–6, 8, 9, 11, 14–17, 19, 22–24, 29, 30, 32–36, 38, 40–43, 45–50,
 52, 57, 59, 64–67, 69, 72, 73, 75, 79–81, 85, 87–100, 104–108,
 112. H 2, 5, 13, 17, 20, 21, 27, 29, 33, 35, 36, 38–40. [12,
 13, 20, 37, 39, 44, 53–55, 58, 60, 62, 63, 68, 70, 71, 74, 76–78,
 82–84, 101–103, 109–111. H 1, 3, 4, 6–9, 12, 14–16, 18,
 22, 26, 28, 30, 34. C]

BRITISH HEPATICS

- 2 **patens** Lindb. (9)
 41, 46–49, 64, 68–70, 72, 73, 75, 79, 80, 85–88, 92, 94, 97–100,
 102–106, 108, 110, 112. H 1–3, 9, 10, 13, 15, 16, 20, 21, 25,
 27–29, 31, 33–40. [4, 43, 45, 50, 62, 65, 66, 74, 76, 83, 89,
 90, 96, 101, 109, 111. H 6, 14]
- 3 **lamacerina** Gottsche ex Steph. (9)
 α **lamacerina**
 37, 42, 47–50, 52, 64, 67, 69–73, 75, 79, 80, 86, 97, 99, 101,
 104, 105, 110, 112. H 1–3, 5, 6, 9, 10, 15, 16, 27, 29, 35–39.
 β **azorica** (Steph.) Greig-Smith
 1–6, 10, 11, 17, 41–43, 45–49, 69, 70, 72–74, 90, 97, 99, 100,
 110, 112. H 1, 2, 6, 10–12, 15, 21, 27–29, 33–36, 39, 40. C.
- 4 **flava** (Swartz) Nees
 H 1–3, 16.
- 5 **holtii** Spruce
 H 1–3, 6, 16,
- 6 **mandonii** (Steph.) K. Müll.
 1, 97. H 29.
- 7 **diversiloba** Spruce
 H 1–3, 16.
- 8 **ulicina** (Tayl.) Tayl.
 1–17, 20, 22–24, 33–35, 40, 41, 45, 46, 48–50, 52, 60, (62), 64,
 65, 69, 70, 72–76, 86–88, 97–105, 110. H 1–7, 9, 11, 12,
 14–16, 18, 20, 21, 25, 27–31, 33, 35–40. [59]
76. **Drepanolejeunea** (Spruce) Schiffn.
- 1 **hamatifolia** (Hook.) Schiffn.
 48, 49, 64, (65), 69, 70, 73, 86, 97–101, 103–105, 108, 110.
 H 1–3, 9, 14–17, 20, 21, 27, 29, 31, 33–35, 38, 39. [4]
77. **Harpalejeunea** (Spruce) Schiffn.
- 1 **ovata** (Hook.) Schiffn.
 1, 48, 49, 64, 69, 70, 73, 75, 86, 87, 97–101, 103–105, 110.
 H 1–3, 6, 7, 9, 15, 16, 27, 29, 33–35, 38, 39. [4]
78. **Cololejeunea** (Spruce) Schiffn.
- 1 **calcarea** (Lib.) Schiffn.
 34–36, 41, 42, 48–50, 57, 59, 60, 64–67, 69, 70, 72, 73, 75, 80,
 82, 86–92, 94, 96–101, 103–109. H 1, 2, 9, 16, 21, 28, 29, 31,
 33, 38–40. [4]

BRITISH HEPATICS

- 2 **rossettiana** (Massal.) Schiffn.
 3, 6, 10, 34–36, 40, 57, 60, 64–66, 69, 70, 72, 75, 81, 91, 98.
 H 2, 6, 9, 21, 28, 29, 33, 36.
- 3 **minutissima** (Sm.) Schiffn.
 1–4, 6, 8–11, 13–17, 45, 48, 52, (65), 70, 97, 98, 100, 103.
 H 1–3, 5, 6, 8, 9, 15–18, 21, 27–29, 33, 35. C. [90]

79. **Aphanolejeunea** Evans

- 1 **microscopica** (Tayl.) Evans
 48, 49, 64, 69, 70, 72, 73, 75, 86–88, 97–101, 103–105, 108, 110.
 H 1–3, 9, 10, 16, 27–29, 33, 35, 36, 39. [1]

80. **Colura** Dum.

- 1 **calyptrifolia** (Hook.) Dum.
 1, 14, 48, 70, 73, 86, 87, 97–100, 103–105, 108, 110. H 1–3,
 6, 9, 10, 15, 16, 21, 27, 33, 35, 38, 39. [49. H 7]

81. **Jubula** Dum.

- 1 **hutchinsiae** (Hook.) Dum.
 (1), 2–5, 34, 35, 44–49, 63, 64, 69, 70, 72–74, 76, 97, 98, 100–104.
 H 1–4, 6, 16, 20, 27, 35, 36, 38, 39. [71]

82. **Frullania** Raddi

- 1 **tamarisci** (L.) Dum.
 1–17, (18), 20, 22–24, 26, 32–52, (54–56), 57–60, 62–112.
 H 1–22, 25–40. C.
- β **robusta** Lindb.
 1, 2, 4–6, 42, 44, 48, 49, 86, 89, 92, 97, 99, 100, 104, 105, 111.
 H 1, 2, 20, 33, 36.
- γ **cornubica** Carringt.
 1, 2, 4, 45, 48, 60, 71, 73–76, 89, 93, 97, 98, 103, 105, 108,
 110–112. H 1, 2, 16, 27, 28, 31, 35, 39. C.
- 2 **germana** (Tayl.) Tayl. ex Gottsche, Lindenb. & Nees
 1–3, 43, 45, 48, 49, 52, 70–72, 74, 75, 85, 88, 97–105, 108, 110,
 112. H 1–3, 9, 16, 18–20, 26–30, 33, 35, 36, 38–40.
- 3 **microphylla** (Gottsche) Pears.
 1–4, 42, 45, 48, 49, 64, 69–71, 73, 74, 86, 87, 97, 100, 101,
 103–105, 110. H 1–3, 7, 16, 27, 33–35.

BRITISH HEPATICS

- 4 **fragilifolia** (Tayl.) Tayl. ex Gottsche, Lindenb. & Nees
1-4, 11, 34, 40, 43, 45, 47-50, 52, 60, 64-67, 69-75, 81, 83,
85-89, (90), 91, 92, 94-110, 112. H 1-3, 7, 16, 20, 27, 33, 35,
38, 39. C.
- 5 **dilatata** (L.) Dum.
1-112. H 1-40. C.

NOTES

- (1) The distribution of this species has been revised by me for the fourth edition.
- (2) The material on which this species was recorded is unsatisfactory.
- (3) It is doubtful whether these two species are distinct.
- (4) The material on which this species was described may have been an abnormal form of the preceding species.
- (5) A third species of *Herberta* has been found in West Ross by D. A. Ratcliffe, but it has not yet been named.
- (6) This species is only known on Tresco, Isles of Scilly, where it is probably an introduction (Paton 1965).
- (7) The distribution of this species is being revised by Mrs J. W. Fitzgerald. Recent records have not been published and are not included here.
- (8) The distribution of this species has been revised by A. R. Perry. Only records of specimens with perianths have been accepted. *S. scandica* as accepted here may consist of more than one species.
- (9) The distribution of this species has been revised according to Greig-Smith (1954).

INDEX TO GENERA

- Acrobolbus, 33
- Adelanthus, 42
- Anastrepta, 33
- Anastrophyllum, 32
- Anthelia, 26
- Anthoceros, 21
- Aphanolejeunea, 47
- Barbilophozia, 31
- Bazzania, 28
- Blasia, 25
- Blepharostoma, 28
- Calypogeia, 29
- Cephalozia, 40
- Cephaloziella, 39
- Chandonanthus, 32
- Chiloscyphus, 38
- Cladopodiella, 41
- Cololejeunea, 46
- Colura, 47
- Conocephalum, 21
- Cryptothallus, 24
- Diplophyllum, 42
- Douinia, 42
- Drepanolejeunea, 46
- Dumontiera, 22
- Eremonotus, 33
- Fossombronia, 26
- Frullania, 47
- Geocalyx, 39
- Gongylanthus, 35
- Gymnocolea, 33
- Gymnomitrium, 36
- Haplomitrium, 26
- Harpalejeunea, 46
- Harpanthus, 39
- Herberta, 27
- Hygrobiella, 27
- Jamesoniella, 35
- Jubula, 47
- Jungermannia, 33
- Leiocolea, 31
- Lejeunea, 45
- Lepidozia, 28
- Lophocolea, 38
- Lophozia, 29
- Lunularia, 22
- Marchantia, 22
- Marchesinia, 45
- Marsupella, 35
- Mastigophora, 27
- Metzgeria, 24
- Moerckia, 25
- Mylia, 37
- Nardia, 34
- Nowellia, 41
- Odontoschisma, 41
- Pallavicinia, 25
- Pedinophyllum, 37
- Pellia, 24
- Petalophyllum, 25
- Plagiochila, 37
- Plectocolea, 34
- Pleuroclada, 27
- Pleurozia, 44
- Porella, 45
- Preissia, 22
- Ptilidium, 27
- Radula, 44
- Reboulia, 21
- Riccardia, 23
- Riccia, 22
- Ricciocarpus, 23
- Saccogyna, 39
- Scapania, 42
- Solenostoma, 33
- Southbya, 35
- Sphaerocarpos, 21
- Sphenolobus, 32
- Targionia, 21
- Telaranea, 29
- Trichocolea, 27
- Tritomaria, 32

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