

# BBS Interim Census Catalogue 2018

Including VC records compiled up to and including the year 2018

T.L. Blockeel and N.G. Hodgetts

This interim Census Catalogue includes additions and amendments compiled 2008-2018, as well as records (debracketers; Hill 2010) that had been submitted to the Biological Records Centre but had not been entered to the database in time to prevent their vice-county being signified as an old (pre-1960) record in the printed Census Catalogue (Hill *et al.* 2008). The current version also includes the amendments resulting from preparation of the 2014 BBS Atlas (Blockeel *et al.* 2014).

Symbols and conventions are as in the printed Census Catalogue. The numbers following each taxon indicate the vice-counties from which the species (or subspecies/variety) has been recorded. Round brackets indicate that no record has been made since the beginning of 1960 (or if a record has been made, then it has not been vouched). The dagger † (also known as an obelisk or obelus) is used to denote persisting introductions, i.e. records of introduced species that have been present for at least 10 years but which have not spread to the surrounding environment from the substrate or plant on which they were introduced (Blockeel 2010).

## References

- Blockeel TL. 2010. Persisting introductions: a new bryophyte recording category. *Field Bryology* 101: 54-55.
- Blockeel TL, Bosanquet SDS, Hill MO, Preston CD. 2014. *Atlas of British and Irish bryophytes*. Pisces: Newbury.
- Hill MO. 2010. Debracketing records submitted to BRC before September 2009. *Field Bryology* 100: 70-79.
- Hill MO, Blackstock TH, Long DG, Rothero GP. 2008. *A checklist and census catalogue of British and Irish bryophytes, updated 2008*. British Bryological Society: Middlewich.

## Hornworts

- H1.1 **Anthoceros punctatus** 1-6, (8), 9-11, 13, 14, (16), 17, 22, 25, 30, (34), 35, (38), 41, 43-49, 52, 54, 59, 61, (67, 70), 71-76, 80, 81, 85-87, 90, 91, 93-107, 109-111. H1-9, 12, 13, 16, 20, 27-29, 31, 32, 34, 35, (38), 40. C.
- H1.2 **Anthoceros agrestis** 1, 2, 4, 5, 8-10, (11), 12-14, 16-19, 22-24, 26-28, (30), 32, (34), 35, 36, (37, 38), 39-41, 44, 46, 47, (48), 50-52, 54, (55), 56-59, 63, 65, (68), 69, 72-77, 79-81, 83, 86, 88-91, 98. H31, 35, (36), 38.
- H2.1 **Phaeoceros laevis** 1-4, (5), 6, (8), 9, 10, 13, 14, (18), 35, (36, 43), 44-47, 49, 52, 58, 59, 64, 70, 72-75, 77, 81, 83, 88, 90, 98, (100), 101, 102, 104, 107, 110. H1-6, 8, 11, 13, 14, 16, 19-24, 26, 27, 29, 31, 32, 34-38, 40. C.
- H2.2 **Phaeoceros carolinianus** 2, (13), 17, (18), 24, 35, 38, 40, 41, 44-46, 69, 72, 80, 81, (86), 87, 89, (99), 103.

## Liverworts

- L1.1 **Haplomitrium hookeri** 1, (3, 11, 13), 42, 44, 45, 48, 49, 59, (61), 66, 68-71, 74, 77-79, 83, 87-90, 92-98, 101, 103-110, 112. H1-3, 16, 20, (21), 27, 28, 30, 34, 35, 39.
- L2.1 **Blasia pusilla** 1-6, (7), 8-15, (16), 17-20, (21), 22, (23, 25), 27, 28, (32, 33), 34-53, (54, 55), 56, 57, (58), 59-65, 67-112. H1, (2), 3-10, (12), 16, 18, (19), 20, 21, 26-30, (31), 32-40.
- L3.1 **Sphaerocarpos michelii** 1, 3, 5, 10, 11, 14-22, (23), 24-30, 32, (34, 36), 37, 54, 55, 61, (62). C.
- L3.2 **Sphaerocarpos texanus** 1, (9), 11-14, (16), 17, 19, 24-27, 34, 36, 37. C.
- L4.1 **Lunularia cruciata** 1-98, (99), 100-112. H1-13, (14), 15-40. C.
- L5.1.a **Marchantia polymorpha subsp. polymorpha** 1-4, (5), 6, 7, 11, (12), 13, 14, 16-20, (22, 23), 24-32, 34, 35, (36, 38, 39), 40-45, 47, 49-53, 56, 57, (58), 59-70, 72-86, (87, 88), 89, 90, 92-95, (96), 98, (99), 100, 101, (104), 105-110, (111), 112. H1-11, 13, 15, 16, (18), 19-23, 25-30, 32-37, (38), 39, (40).
- L5.1.b **Marchantia polymorpha subsp. ruderalis** 1-21, (22), 23-47, (48), 49, 51-83, 85, 86, 88-96, (97), 98, 101, 102, (103), 104-111. H1, 2, 4-12, 15-40. C.
- L5.1.c **Marchantia polymorpha subsp. montivagans** 35, 42, 52, 62, 64-66, 68-70, 72, 77-83, (85), 88, (89), 90, (91), 92-98, 105-108, 112. H(28), 29.
- L6.1 **Preissia quadrata** (3), 4, 6, 11, 17<sup>†</sup>, 22, (26-29, 31), 32, 35, 36, 39-42, (43), 44-50, 52, (54, 55), 57-70, 72, 73, (74), 75-92, (93), 94-112. H1-3, 5, (6), 7-9, 14-18, (19), 20, (21), 22-29, 31, 33-36, 38-40.
- L7.1 **Reboulia hemisphaerica** 1-3, (4), 5-17, 20, (22), 26, 27, 30, (33), 34-37, (38), 39-52, (55), 57, (58, 59), 60, (61, 62), 64-69, 72, 73, (74), 75, (76, 77), 80-84, (85, 86), 87-90, 92-94, 96-106, 108, (109), 110, 112. H1, (2), 4, 5, 7-9, 11, 16, (17, 21), 23, 25-29, (33), 35, (38-40). C.
- L8.1 **Athalamia hyalina** 92.
- L9.1 **Conocephalum conicum s.str.**<sup>1</sup> 1-3, 5, 7, 11, 13-17, 19, 20, 23-52, 55-83, 85-88, 90-95, 97, 98, 101-110, 112. H1-7, 9-12, 15-17, 19-21, 27-29, 31, 33, 34, 36-40. C.
- L9.2 **Conocephalum salebrosum** 4, 23, 27, 28, 33-53, 56-59, 62-65, 67-70, 72-77, 79-83, 85-96, 98-100, 103-112. H1, 7-11, 16, 18-21, 28, 29, 33-36, 38, 39.
- L10.1 **Riccia cavernosa** 1, 4-6, 8, 9, 11, 13-15, 17, 18, 20-29, (30), 32, (33), 34-36, 38-40, (41), 42, 44-46, 48, (49), 52, 53, 55, (56), 57-59, 61, 63-65, 67, 71-73, 79, 83, 85, 88-90, 93, 95, (101), 102, 103, 110, 111. H(1), 3, 4, 9, 15, 17, 25, 27, 30, 35, (38), 39. C.
- L10.2 **Riccia crystallina** 1-3, 11, 76.
- L10.3 **Riccia huebeneriana** 2, 3, (9), 13, 14, (17), 41, 42, 44, 46, 47, 49, (52), 57, (58), 59, 63-65, 67, 70, 99, 100. H20.
- L10.4 **Riccia fluitans** 3-6, (7), 9-32, (33, 34), 35-40, (41), 44, 47, 49-51, 53-55, (56), 57-61, (62), 63, (64), 66, 69. H5, 7, 8, 10, 13, (19), 20, (21), 23, 25, (29), 31-33, 36, 37, (38, 39), 40.
- L10.5 **Riccia rhenana** 1, 7, 15, (17), 18, 20, 24, 28, 29, 37, 58. H17.
- L10.6 **Riccia canaliculata** 13, 40, (48), 52, (58), 83, 86-90, 99.
- L10.7 **Riccia sorocarpa** 1-29, (30, 31), 32-98, (99), 100-108, 110. H(1), 2-6, 8-10, 12, 13, 15, 16, 19, 20, (21), 22, 23, 25-28, 31-40. C.
- L10.8 **Riccia nigrella** 1, 2, (37), 43, 48. C.
- L10.9 **Riccia glauca** 1-65, 67, 69-77, 79-82, (83), 84-90, 92-94, 96-98, (99), 100-103, 105-107. H1-7, 9-14, (15), 16, 17, 19-23, 25-28, 31, (33), 34, 35, 37-40. C.

---

<sup>1</sup> **Conocephalum conicum agg.** is recorded from 1-20, (21), 22-112. H1-23, (24), 25-31, (32), 33-40. C.

- L10.10 *Riccia subbifurca* 1-3, (4), 5-8, 11-14, 16, 17, 20, 22, 24, 28, 29, 34-37, 40-47, (48), 49, 50, 52, 56-58, 61, 63, 64, 69, 70, 73, (74), 81-83, 88, 93, 96-98, (99), 100-106, 108. H(1), 2-6, 9, 12, 14, 16, 22, 23, 27, 28, 33-35, (36), 37-40. C.
- L10.11 *Riccia crozalsii* 1-3, (14, 35), 45, 48, 49, 52. H3. C.
- L10.12 *Riccia bifurca* 1.
- L10.13 *Riccia beyrichiana* 1, 2, 26, 41-45, (46), 48, 49, 52, 54, (59), 60, 64, 65, 69, 73-75, (76, 82), 83, 84, (85, 86), 88, 90, 98, (99), 100-104, 110. H(1), 3, 9, 15, 16, (20), 26, 27, 30, 34, 35, 37-40. C.
- L11.1 *Ricciocarpos natans* (6), 9, 12, 13, (14), 15, 16, 18-20, (21, 22), 24-29, 31, 32, 35, 36, (38), 39, 40, 50, 53-55, (58), 61-66. H7-9, (15), 19, (20, 21), 22-24, (25), 30, (31).
- L12.1 *Targionia hypophylla* 2-5, (6), 12, 13, 17, (26), 36, (37), 39, 40, 42-45, 47-49, 52, 57, 70, 80, (85), 87, 88, (90), 98, (99), 101, 104, 107. H(1, 2, 4, 39). C.
- L13.1 *Dumortiera hirsuta* 1, 2, (3), 4, 14, 71, 98, 102. H1-4, 6-11, 20, 29, (39).
- L14.1 *Pellia epiphylla* 1-30, 32-112. H1-40. C.
- L14.2 *Pellia neesiana* 1-9, 11-18, 21, 22, 24-29, 31-36, (37), 38-54, 57-83, 87-99, 101-112. H1-4, 6-13, 15, 16, 18, 20, 21, 23-37, (38), 39, 40. C.
- L14.3 *Pellia endiviifolia* 1-112, H1-40. C.
- L15.1 *Petalophyllum ralfsii* 1, 3, 4, (6), 28, 41, 44-46, 48, (49), 51, 52, 59, (62), 68, 105, 110. H1, (2), 3, 9, 16, 21, 27, 28, 35, (39), 40.
- L16.1 *Fossombronia foveolata* 1-3, 8, (9), 11-14, 17, (22), 25, 27, 28, 37, 40, 43-46, 48, 49, 52, 54, (58, 59), 61, (62), 64, 69, 70, (74), 75, 86, (87), 88, 92, 95-98, (99), 101-106, 108-110, 112. H1-3, 9, 16, 20, 26, 27, 35, 37, (39).
- L16.2 *Fossombronia angulosa* 1-3, 45, (48), 49, 110. H1-3, 9, 16, 27, (34), 35. C.
- L16.3 *Fossombronia caespitiformis* 1-4, 6-9, 13, 14, 17, (23, 34), 35-37, (39), 40-42, (44), 45, 46, 49, (58-60, 69). H1, 3, 5, 9, 16, 27, 34. C.
- L16.4 *Fossombronia pusilla* 1-67, (68), 69-94, 96-98, (99), 100-107, 109. H1-13, 16, 19-22, (23), 24-29, 31-40. C.
- L16.5 *Fossombronia maritima* 1, 2, 4, 11, 45, 49, 52. H3, 27. C.
- L16.6 *Fossombronia wondraczekii* 1-20, 22, (23), 24, 25, 27-29, (30), 31, 32, 34-52, 55-90, 92-94, 96-99, 101-107, 109, 112. H1, 3-7, 9, 10, 12, 13, (15), 16, 20, 21, 24-29, 31-35, 37, 38. C.
- L16.7 *Fossombronia mittenii* (4), 7, (22).
- L16.8 *Fossombronia incurva* 1-3, 9-14, 16, 17, 19, 22, 25, 27, 28, 35, 37, 40-42, 44-46, 48, 49, 53-59, 62-64, 69, 70, 72, 74, 76-78, 80, 83, 87-89, (90), 93-98, 101-107, 110, 112. H1, 3, 6, 16, 27, 28, 30, 34-36, 38-40. C.
- L16.9 *Fossombronia fimbriata* 42, 44, 45, 49, 52, 57, 68, 72, 78, 79, 88, 96-98, 101, 104, 106. H27, 28.
- L17.1 *Moerckia hibernica* 88, (90), 92, 95, 96, 105, 106, 108, 112. H1, 2, (20), 27, 34.
- L17.2 *Moerckia flotoviana* (1), 4, 26-28, 41, 42, 44, (45), 46, 48, 49, (50), 52, 58, 59, 62-64, (65), 66-70, 72, 78-80, 82, 83, 85, 88-92, 94-98, 103, 105, 106, 108, 110-112. H1, 9, 14, 16, (17), 18, (21), 23, 26-28, 33-35, (38-40).
- L17.3 *Moerckia blyttii* 87-90, 92, 94, 96-98, 105-108.
- L18.1 *Pallavicinia lyellii* 6, 10, 11, (13), 14-18, 22, 25, 27, 42, 44-46, 48, 49, (59, 62, 64, 65), 69, 70, 74, 76. H(1), 2, 3, 8, 11, 17, (19), 20, 27.
- L19.1 *Pleurozia purpurea* 73-75, 86-89, 92, 96-98, (99), 100-112. H1-3, 9, 10, 16-18, (20, 21), 23-30, 33-36, (38), 39, 40.
- L20.1 *Metzgeria violacea* 1-91, 93-104, 106-112. H1-40. C.

- L20.2 **Metzgeria consanguinea** 1-26, 29, 31-52, 55, 57-61, 63-65, 67-73, (74), 75-77, 79-81, 83, 86-88, 97-102, 104. H1, 3-18, 20, 22, 24-36, 38-40. C.
- L20.3 **Metzgeria furcata** 1-112, H1-40. C.
- L20.4 **Metzgeria conjugata** 1-6, (13), 14, (33), 34-37, 39, 40, (41), 42-50, 52, 57, 60, (62), 63-65, 67-76, (77), 78-83, (85), 86-90, 92, 95-106, 108, (109), 110, (111). H1-4, 6-11, (12, 13), 16, (17, 18), 20, (21), 22, 27-30, 33-37, (38), 39, 40.
- L20.5 **Metzgeria leptoneura** 44, 46, 48, 49, 69, 70, 72, (73), 75, (76), 86-88, 97-108, 110, (111). H1-3, 6, 7, 16, 27-29, 35, 39.
- L20.6 **Metzgeria pubescens** 34-36, 39, 40, 47, 48, 50, 51, 56, 57, 60, 62-70, 72, 73, 78-83, (85), 86-90, (91), 92, (93), 94-99, 101, 104-108, (109). H39, 40.
- L21.1 **Aneura pinguis** 1-112, H1-40. C.
- L21.2 **Aneura mirabilis** 2-4, (6), 8, 9, 11-17, 22, 24, 25, 27, 28, 30, 38, 40, 41, 43-50, 69, 75, 79, 81, 83, (86), 87, 89, 92, 94-101, 105, 106, 108. H1, 2, 16, 20, 35.
- L22.1 **Riccardia multifida** 1-5, (6, 8), 9-17, 22, 25-29, (30), 34, 35, (36), 37, 39-52, 56-60, (61), 62-83, 85-90, (91), 92-112. H1-9, (10), 11-13, 15, 16, (17), 18-21, 23-40. C.
- L22.2 **Riccardia chamedryfolia** 1-86, 88-112. H1-40. C.
- L22.3 **Riccardia incurvata** 1, 2, 9, 11, (13, 14), 17, 26, 28, 32, 35, 41, 42, 44-49, 52, 53, 56, 58-60, 63, 65, 66, 69-71, 73-75, 78-80, (81), 82-86, 88-90, 92, 94-98, 101, 102, 104-108, 110, 112. H1, 5, 9, 16, 20, 27, 29, 34-36, 38, 40.
- L22.4 **Riccardia palmata** 2-6, 9, 11, 13, 17, 24, 33-35, 37, 39-51, 57-59, 62-92, 94-112. H1-7, 9, 11, 12, 14-18, 20, 23-30, 33-35, (36), 38-40.
- L22.5 **Riccardia latifrons** 1-13, 17, 22, 24, (26), 27, 28, 31, (35), 40-52, 58, 67, 69, 70, 72-75, 77-81, 83, 88, 90-98, 101-110, 112. H1-4, 6-9, (10), 11-13, (14), 15-20, (21, 22), 23-29, 31, 33-40. C.
- L23.1 **Porella platyphylla** 1-20, (21), 22-55, (56), 57-60, 62-70, (71), 72, 73, 75, (76), 77-83, 85-91, (92), 93-95, 97-102, 104, 106, 108, 112. H1, 2, 4-20, (21), 22-26, 28-31, (32), 33, (36), 37-40. C.
- L23.2 **Porella cordaeana** 2-5, 7, 11, (13), 16, 17, 36, 37, 39, 40, 42-44, (45), 47-52, 55, 57, 60, 64-70, (71), 72, 73, 75-99, 104-108, (109), 110, 112. H1, (5), 6, 7, 9, 13, 15, 20, 22, 23, 28, 29, 31, (32, 33, 36), 37, 38, (39), 40.
- L23.3 **Porella arboris-vitae** 1-6, 9-13, (14), 16, 17, 22-24, (33), 34-37, 39-50, 52, 57, 60, 62, 64-67, 69, 70, 72, 73, (74), 75, 77-80, 82, 83, 85-90, 96-105, 108, 112. H1-3, (5), 6-9, 16, 20, 23, 26-30, 33, (34), 35, 39, 40. C.
- L23.4 **Porella obtusata** 1-3, (4, 5), 6, 9, 10, 15, 33, (34), 41, 42, 45, 46, 48-50, 52, 69, 72-75, 81, 82, 85, 86, (87-89), 90, 91, (96), 97-105, 107, 108, 110-112. H1-4, (5), 6-8, 16, 18, 20, 27, 28, 34, 35, 38, 39. C.
- L23.5 **Porella pinnata** 1-5, 36, 42-50, 69. H1-6, 8-10, 12, 13, 15, 20, 28, 30, 32, 37, 38.
- L24.1 **Radula complanata** 1-83, (84), 85-112. H1-40. C.
- L24.2 **Radula lindenbergiana** 1-3, 45, 49, 52, 64, 65, 68-70, 72, 73, (75-77), 78, 85, (86), 87-90, 92, 95-99, (100), 101-106, 108-111. H1-3, 6, 8, 16, 27-29, 39. C.
- L24.3 **Radula voluta** 48, 49, 70, 73, (75), 86, 97, 98, 101-105. H1-3, 6, 7, 16, 27, 28, 35.
- L24.4 **Radula holtii** 97, 105. H1-3, 27.
- L24.5 **Radula aquilegia** 46, 48, 49, 69, 70, 73, 86, 87, 96-98, (99), 100-108, 110, 112. H1-3, 6, 7, 16, 27-29, 34, 35.
- L24.6 **Radula carringtonii** 97, 101, 103, 104. H1-3, 27.
- L25.1 **Frullania tamarisci** 1-19, (20), 22-25, (26), 28, 29, 31-52, 54, (55, 56), 57-60, 62-83, (84), 85-112. H1-40. C.

- L25.2 **Frullania teneriffae** 1-4, 45, 46, 48, 49, 52, 58, 64, 69-75, 85, 88, 97, 98, (99), 100-105, 108, 110-112. H1-9, 12, 16-18, (19), 20-22, 25, (26), 27-31, 33-36, 38-40. C.
- L25.3.a **Frullania microphylla var. microphylla** 1-5, 41, 44, 45, 48, 49, 52, 64, 69-71, 73-75, (86), 97-105, 108, 110, 111. H1-3, 6, 7, 12, 16, 27-29, 33-35, 39, 40.
- L25.3.b **Frullania microphylla var. deciduifolia** 42, 49, 100.
- L25.4 **Frullania fragilifolia** 1-4, 7-9, 11, 14, (34), 35, 36, 40, 42-50, 52, 60, 64, 65, (66), 67-75, 78-83, (85), 86-90, (91), 92-108, (109), 110-112. H1-3, 6-9, 16, 19-21, 27-30, 33-35, (36), 38-40. C.
- L25.5 **Frullania dilatata** 1-112, H1-40. C.
- L26.1 **Jubula hutchinsiae** 1-5, 34, 35, 41-50, 63, 64, 69-76, 86, 97, 98, 100-105, 110. H1-4, 6, 8, 9, 11, 16, 20, 27-29, 34-36, 38, 39.
- L27.1 **Aphanolejeunea microscopica** 41, 42, 44, 46, 48-50, 64, 65, 69, 70, (72), 73-75, (86), 87, 88, 96-108, 110. H1-4, 6-10, 15, 16, 20, 26-29, 33-35, (36), 39, 40.
- L28.1 **Cololejeunea calcarea** 34, 35, (36), 41, 42, 44, 46-50, 57, (59), 60, 63-65, (66), 67-70, 72, 73, 75, 76, 78, 80, 82, 83, 86-92, 94, 96-109, 111. H1, 2, 7-10, 15, 16, 27-30, (31), 33-36, (38), 39, 40.
- L28.2 **Cololejeunea rosettiana** 3, 5, 6, 8-10, 34-37, 39-41, 43-45, 50, 52, 56, 57, 59, 60, 63-67, 69, 70, (72), 75, 80, 81, 91, (98), 99. H2, 4-6, 8, 9, 12, 14-16, (21), 22, 28, 29, 33, 34, (36).
- L28.3 **Cololejeunea minutissima** 1-38, 40-65, 67, 69-71, 74-76, 97-105, 110. H1-13, 15-30, 32-35, 38-40. C.
- L29.1 **Colura calyptrifolia** 1-6, 8, 14, 34, 35, 39-50, 52, 57-60, 63-65, 67, 69, 70, 72-76, 79, 80, (86), 87, 88, 97-105, 108, 110, 111. H1-17, 20, (21), 24-30, 32-36, 38-40.
- L30.1 **Drepanolejeunea hamatifolia** 2, 6, 42, 44, 48, 49, 64, (65, 69), 70, 73, 75, 86, 87, 97-105, 108, 110. H1-10, (14), 15-17, 20, (21), 25-29, (31), 33-35, 38, (39), 40.
- L31.1 **Harpalejeunea molleri** 1-3, 11, 44, 46, 48-50, 64, 65, 69, 70, 72, 73, (75, 86), 87, 97, 98, (99), 100-105, 108, 110. H1-3, 6, 7, 9, 15, 16, 20, 27-29, 33-35, (38), 39, 40.
- L32.1 **Lejeunea cavifolia** 1-9, 11-20, (21), 22-26, 29, (30), 31-51, 54, 57-60, 62-70, 72-93, (94), 95-112. H1-8, 10, 11, (13), 14-16, (17), 19-21, 23, 25-30, 33-40.
- L32.2 **Lejeunea lamacerina** 1-6, 8-11, 13, 14, 17, 34-37, 39-52, 55, 57-60, 62-65, 67, 69-82, 84-86, 88, 90, 96-105, 107, 108, 110. H1-13, 15-17, 20, 21, 25, 27-29, 31-36, (37), 38-40. C.
- L32.3 **Lejeunea patens** 1-4, 35, 41-50, 52, 60, 63-65, 67, (68), 69-80, (83, 85), 86-89, 94, 96-112. H1-12, 15-17, 20, (21), 25-31, 33-40.
- L32.4 **Lejeunea flava** H1-3, 6, 16, 27.
- L32.5 **Lejeunea hibernica** H1-3, 16, 27.
- L32.6 **Lejeunea eckloniana** 102. H1-6, 10, 13, 16.
- L32.7 **Lejeunea mandonii** 1, 35, 97, 98, 104. H1, 2, 29.
- L33.1 **Marchesinia mackaii** 1-6, 9, 10, 34-36, 39-52, 56, 57, 60, 63-65, 69-75, 86, 97-105, 110. H1-12, 14-17, 20, (21), 22, 23, (26), 27-29, 31, 33, (34), 35, (38), 39, 40.
- L34.1 **Microlejeunea ulicina** 1-25, 30, 31, 33-52, 55-60, (62), 63-65, 67, 69-76, 79, 80, 83, 84, 86-88, 96-105, 108, 110. H1-40. C.
- L35.1 **Ptilidium ciliare** 2-6, 8, 11-13, 15, 17, (19, 21), 22, 24-28, 30, 34-112. H1, 2, 6, 8, 12, 20-22, 27, 29, 30, 35, 36, 38-40.
- L35.2 **Ptilidium pulcherrimum** 5-7, (8), 9-20, 22-44, 47, 48, (50, 51), 53, 54, (55), 56-70, 72, (75), 76-78, 80-83, (84), 85-96, 99-101, 105-107, (108). H(31), 39.

- L36.1 **Blepharostoma trichophyllum** 1, (3), 4, 14, 16, (23), 33, (34), 35, (36), 37, (39, 40), 41-44, 46-50, (54), 57, 59, 60, 62, (63), 64-70, (71), 72, 73, (74), 75-83, (85), 86-90, (91), 92, 94-112. H1-3, 6, 16, (20), 27-29, (31, 33), 34, 35, (38), 39, 40.
- L37.1 **Trichocolea tomentella** 1-6, 8, 9, 11-17, (18, 20, 21), 22, 24, (26), 34-38, (39), 40-50, (52), 57, (58), 59, 60, 62-67, (68), 69-83, 85-90, (91, 92), 93-105, (106), 107-109, 111. H1-6, 8, 9, (10), 13, (14), 16, (18), 20, 26-30, 33-36, (38), 39, 40.
- L38.1 **Mastigophora woodsii** 88, 96-98, (99), 103-108, 110, 112. H1, 2, 16, 27.
- L39.1 **Herbertus stramineus** 48, 49, 69, 70, 86-90, 96-99, 103-108, 110-112.
- L39.2 **Herbertus aduncus** 48, 49, 69, 70, 73, 75, 86-88, 97-108, 110, 111. H1-3, 6, 7, 16, 27-29, 33-35, 39.
- L39.3 **Herbertus delavayi** 105.
- L39.4 **Herbertus norenius** 112.
- L40.1 **Bazzania trilobata** 1-6, 11, 13, 14, 34, 35, (36), 37, 39-50, 52, 57, 58, (59), 60, 62-75, 78-80, (81, 85), 86-92, 94-108, 110-112. H1-3, (5), 6, 9, 12, (13), 16, 20, 21, 25, 27-30, 33-35, 37, (38), 39, (40). C.
- L40.2 **Bazzania tricrenata** 42, (44), 48, 49, 60, (64), 65, 69, 70, 72, 73, 75, (76), 78, 79, 86-90, 92, 94, 96-112. H1-4, 6-8, 10, 12, 16, 20, 26-30, 33-35, (36), 39, 40.
- L40.3 **Bazzania pearsonii** 92, 94, 96-98, 102, 104-108, 110, 112. H1, 2, 16, 27, 35.
- L41.1 **Kurzia pauciflora** 1-5, (6), 8-15, (16), 17, 22, (23), 24, (25, 26), 27, 28, (34), 35, (39), 40-46, (47), 48-50, 52, 54, (55, 57), 58-60, (61), 62-75, (76), 77, 78, (79), 80, 81, (82), 83, (85), 86-92, 95-112. H1-3, (5), 6, 7, 9-20, (21), 22-31, 33-36, 38-40. C.
- L41.2 **Kurzia sylvatica** 1-5, 9, 11, 13, 14, 16, 17, 28, (37), 39, 41, (42), 44-52, 57, 60, (62), 63, 64, 68-70, 73, 75, 80, 82, 83, 87, 89, 90, 92, 94-99, 103-105, 108, 110, 112. H1, 2, 4, 6, 8, 11, 15, 16, 20, 26-28, (33), 34, 35, 38. C.
- L41.3 **Kurzia trichoclados** 2, 5, 39, 42, 44-50, 57, 58, 60, (62), 63-65, 67, 68, (69), 70, 74-78, 80, 81, 83, 87-92, 94-112. H1-4, 6-17, 19-21, 25-27, 29, 30, 33-36, 39, 40.
- L42.1 **Lepidozia reptans** 1-6, (7), 8-112. H1-13, (14), 15-31, 33-40. C.
- L42.2 **Lepidozia pearsonii** 44, 46-49, (50), 57, (59), 60, 63-65, 67-73, (74), 75, 76, 78, 80, 83, 86-88, 90, 92, 94, 96-106, 108, (109), 110-112. H1-3, 7, 16, 20, 27-30, 33-35, 39.
- L42.3 **Lepidozia cupressina** 1-5, 34, 35, 40-50, 52, (58), 60, 63, 64, 67, 68, 70, (71, 75), 86, 92, 96-105, 108, 110-112. H1-3, (5), 6, (8), 12, 16, 20, (21), 25-30, 33-36, 39, 40.
- L43.1 **Telaranea europaea** 1, 49. H1-3, 6, 16, 27, 35.
- L43.2 **Telaranea murphyae** 1, 9, 11.
- L43.3 **Telaranea tetradactyla** 17, 98.
- L44.1 **Lophocolea bidentata** 1-112, H1-40. C.
- L44.2 **Lophocolea bispinosa** 1-4, 9, 11, 13, 14, 17, 41, 72, 74, 78, 83, 98, 102. H36.
- L44.3 **Lophocolea heterophylla** 1-91, 93, 95-106, 112. H1-8, 10-25, 27, 29-33, (34), 35, (36), 37-40. C.
- L44.4 **Lophocolea semiteres** 1-3, 6, 10-14, 16-19, 21, 22, 24-28, 30, 31, 35, 38-41, 45, 48, 53-59, 61-66, 68-70, 72, 73, 75-78, 80, 81, 83, 84, 86, 87, 90, 96, 98-100. H38.
- L44.5 **Lophocolea brookwoodiana** 17.
- L44.6 **Lophocolea fragrans** 1-6, 9, 10, 13, 14, 34, 35, 40-42, (43), 44-50, 52, 57, 60, 69-71, (72), 73-76, 81, 87, 97-105, 108, 110, 112. H1-3, 5-12, (13), 15, 16, 20, 21, 24-29, 33-40. C.
- L45.1 **Chiloscyphus polyanthos** 1-26, (30, 32), 33-52, 54, 55, (56), 57-60, (61), 62-112. H1-16, 18-21, 23, 25-40. C.

- L45.2 **Chiloscyphus pallescens** 1-20, 22-54, 56-60, (61), 62-65, 67-78, 80, 81, (82), 83-85, (86), 87-92, 94-98, (99), 100-112. H1-4, (5), 6-9, 12, 13, 16, 19, 20, (21), 22-35, (36), 37, (38), 40.
- L46.1 **Heteroscyphus fissistipus** H1.
- L47.1 **Leptoscyphus cuneifolius** 48, 87, (88), 97-105, 108, 110. H1-4, 7, 16, 27, 29, 33, 35.
- L48.1 **Plagiochila carringtonii** 87, 88, 90, 92, 94, 96-100, 102-108, 110-112. H16, 27.
- L48.2 **Plagiochila porelloides** 1-17, 20, 22-24, 29, 30, 32-37, (38), 39-52, 54-112. H1-40. C.
- L48.3 **Plagiochila asplenioides** 1-20, 22-112. H1-23, (24), 25-40. C.
- L48.4 **Plagiochila britannica** 3, 33-37, 39-45, 49-52, 57, 60, 62-70, 72, 75-78, 80-82, 86, 88-91, 94-99, 101-106, 110, 111. H2, 6-9, 16, 24-29, 33-35, 37, 39, 40.
- L48.5 **Plagiochila norvegica** 9.
- L48.6 **Plagiochila heterophylla** 46, 48, 49, 69, 70, 87, 97-99, 101-105, 108. H1-3.
- L48.7 **Plagiochila spinulosa** 1-5, (11, 34), 35, (37), 40-50, (57, 59), 60, (63), 64, 65, 67, 69, 70, 72, (73), 75, 76, 78-80, 82, 83, (85), 86-88, 95-108, 110-112. H1-13, 16, 17, 20, 25-30, 33-36, 38-40.
- L48.8 **Plagiochila bifaria** 1-4, 6, 9, 11, (14), 41-50, 52, 64, 65, 69-71, (73), 74, 75, 86-88, 95-98, 100-105, 108, 110-112. H1-3, 5-11, 16, 20, 23, 25-29, 31, 33-35, 38-40. C.
- L48.9 **Plagiochila punctata** 1-5, 41-49, 64, 65, 69-73, 75, 86-88, 96-106, 108, 110, 112. H1-3, (5), 6-10, 13, 16, 20, 26-31, 33-36, 39, 40.
- L48.10 **Plagiochila exigua** 42, 44, 46-49, (64), 65, 69, 70, 73, 75, 86, 87, 97, 98, (99), 100-105, 108, 110. H1-3, 6, 7, 16, 27, (28), 35, (39), 40.
- L49.1 **Adelanthus decipiens** 2, 3, 46, 48, 49, 69, 70, 73, 86, 87, 97-105. H1-3, 6, (7), 16, 25, 27-29, 33-35, (39, 40).
- L49.2 **Adelanthus lindenbergianus** 102. H1, 16, 27, 35.
- L50.1 **Jamesoniella autumnalis** 2, 3, 5, (14, 34), 35, 37, 40, 42-44, 46, 48, 49, 60, (64), 69, 70, 73, 86-88, (90), 96-99, 101, 105.
- L50.2 **Jamesoniella undulifolia** (1), 2, (34), 40, 43, 47, 69, 98, 101.
- L51.1 **Pedinophyllum interruptum** 42, 57, 60, 64, 65, 69, 98. H(1), 9, 28, 29, 33, 36.
- L52.1 **Cephalozia bicuspidata** 1-112, H1-18, (19), 20-40. C.
- L52.2 **Cephalozia ambigua** 88, 92, 94, 96.
- L52.3 **Cephalozia catenulata** 1-4, 11, (13), 14, 41, 42, 44, 47-49, 52, 62, (63), 64, 67, 68, (69), 70-75, 80, 83, (88), 92, 95-99, 102-105, 108, 110, 112. H1-3, 7, (9), 13, 16, (17, 18), 20, (21), 25, 27-31, 33-35, (36, 38, 39).
- L52.4.a **Cephalozia macrostachya var. macrostachya** 2, 3, 8, 10-14, (15), 17, (24), 28, 39, 40, 45, 46, (48), 50, 58, 62, 70, 72, 80, 96, 99, 102, 104-106, 108-110, 112. H1, 3, 10, 18, 19, 25, 28, 34, 35, 37.
- L52.4.b **Cephalozia macrostachya var. spiniflora** (9, 11, 13, 17, 39), 46, 52, 67, (68), 72, 74, 75, (80, 81), 83, 84, (89, 96), 99, 102, 109. H7, 9, 19, 20, 34, 35.
- L52.5 **Cephalozia leucantha** 1, 2, (17), 48, (49), 50, 60, 68, 70, 72-75, (77), 78, 80, (81-83, 86, 87), 88-90, (91), 92, (93), 94-112. H1, 3, (9, 12), 16, 20, 25-30, 33-35, (36), 40.
- L52.6 **Cephalozia lunulifolia** 1-17, 20, 22, 23, 25, 26, 29, 31-37, 39-52, 54, (55, 56), 57-60, (61), 62-76, (77), 78-112. H1-13, 15, 16, 18, 20, 21, 26-29, (30), 31, 33-40.
- L52.7 **Cephalozia pleniceps** 2, 4, 6, (11, 14), 27, 35, 40, 42-50, 52, (70), 75, 76, 79-81, 83, 88, 89, (90), 92, 93, (94), 95-98, 100, 103-106, 108-112. H1, 9, 16, 20, 23, 25-27, 35, 36, 38, 39.
- L52.8 **Cephalozia loitlesbergeri** 46-48, 50, 60, (64, 66), 70, 73-76, (77), 79-81, 83, 87-90, 92, (94), 95-98, 102-112. H9, 14, 16, 18, 22, 24, 35.

- L52.9 **Cephalozia connivens** 1-6, 8-20, 22, (23), 24-30, 32, 34, 35, 38-52, 54, 55, 57-112. H1-4, 6-14, (15), 16-20, (21), 22-40. C.
- L52.10 **Cephalozia crassifolia** H1-3, 7, 16, 27.
- L53.1 **Cladopodiella fluitans** 1-3, 8-15, 17, 22, (27), 28, 35, 39-50, 57-60, 62-64, (65), 66-70, 73-77, 80, (83, 88, 92, 95), 96-99, 101-110, 112. H1-3, 9, 10, 16-20, (21), 22-28, 33-36, (37, 38), 39.
- L53.2 **Cladopodiella francisci** 1-3, 8, 9, 11-14, 16, 17, 22, (24-26), 27, (28, 34, 35), 40, 41, 45, 46, (48), 52, (58), 61, 62, (64, 71), 88, 90, (91), 92, 94-99, (100), 101-105, (110). H1, (3, 21, 27), 29, 35, 38, (39).
- L54.1 **Hygrobiella laxifolia** (14), 41, 42, 44, 46-50, 57, 62-73, 75, 76, (77), 79, 80, 83, (86), 87-92, 94-108, (109), 110, 112. H1-4, 6, 7, 16, 20, (21), 27-29, (33), 34, 35, (36), 38, (39), 40.
- L55.1 **Nowellia curvifolia** 1-29, 31-52, 55-112. H1-3, (5), 6, 7, 9, 11, 15-18, 20, 21, 23, 25-31, 33-35, (36), 37-40.
- L56.1 **Odontoschisma sphagni** 1-5, 8, 9, 11-17, (21), 22, (23), 24, (25), 27, 28, (29, 34), 35, (37), 39-52, 54, (55), 57-84, (85), 86-112. H1-20, 22-40.
- L56.2 **Odontoschisma denudatum** 2-5, 8, 9, 11-14, 16, 17, 22, 25, 26, 28, 39-52, 57-64, 66-70, (71), 72-75, 77-81, 83, (84, 85), 87-89, 91, 94-110, (111), 112. H1-3, 7, 9-11, 13, (14), 15-20, (21), 22-31, 33-37, 40.
- L56.3 **Odontoschisma elongatum** 49, 75, 87-89, 92, 94, 96-98, (99), 102, 104-108, 110, (111), 112. H1, 3, 12, 16, 27.
- L56.4 **Odontoschisma macounii** 88, 97, 98, 105, 106.
- L57.1 **Pleurocladula albescens** 88, (89), 90, 92, 94, 96-98, (100), 105, 106.
- L58.1 **Cephaloziella spinigera** 1, 2, 4, 8, 12, (13), 14, 17, 22, (34), 46, (52), 67, 69, 70, 81-83, (88, 92), 96-98, 104, 105, 112. H1, 9, 10, 20, 23, (27), 29, 35.
- L58.2 **Cephaloziella elachista** 8, 11, 12, 14, (22), 27, 40, 45, 58, (61), 69, 70, 81. H19, (21), 23.
- L58.3 **Cephaloziella rubella** 4-7, 9, (11), 12-14, 17, 20, 22, (23), 24-26, (28, 29), 30, (33), 34, 35, (37, 38), 40-43, 46, 48, 50, (51, 56), 57-64, 67-69, 71, 72, (74, 76), 78, (80), 81-83, (85, 86), 87-93, (94), 95-99, 103, 105, 106, (107), 110, (111). H6, 9, 20, 23, 34, 37, (39). (C).
- L58.4 **Cephaloziella hampeana** 1-7, 9-20, 22, (23), 24, 26-29, 31, 34, 35, 38-52, 55, (56), 57-60, (61), 62-75, (76), 77-80, 82, 83, 85-99, 101-110, 112. H1-13, 15-18, 20-25, 27-30, 32-35, (36), 37-40.
- L58.5 **Cephaloziella baumgartneri** 9-11, 13, (14), 15, (17).
- L58.6 **Cephaloziella divaricata** 1-9, (10), 11-73, (74), 75-108, 110-112. H(1), 2-4, 6-13, 16, 18, 20-23, 26-29, (30), 31, 33-40. C.
- L58.7 **Cephaloziella stellulifera** 1-6, 10, (13, 14, 16, 33), 34-36, (37), 41, 44-49, (50), 52, (56), 57, 58, 61, 64, 66, 69, 71, (77), 87, 92. H1-3, 6, 9, 10, 12, 20, (27), 34, 35. C.
- L58.8 **Cephaloziella massalongi** 1-4, 48, 49, (52), 58, 69. H2, 3, 6, 20, 21.
- L58.9 **Cephaloziella nicholsonii** 1-4, 46, (48), 49, 58. H3, 6, 10, 12, 20.
- L58.10 **Cephaloziella dentata** 1.
- L58.11 **Cephaloziella turneri** 1-3, 10, (11, 13, 14), 16, (33), 34, 35, (36, 38), 44-46, 48, 49, 101. H(2), 3, 11, 12, 20, 35. C.
- L58.12 **Cephaloziella integerrima** 1, 2, (7, 13, 14, 22), 110. H3, 6, 34.
- L58.13 **Cephaloziella calyculata** 1, 2, 6, 41, 45.
- L59.1 **Gymnocolea inflata** 1-6, (7), 8-25, (26), 27, 28, 30, 32, (33), 34-112. H(1), 2, 3, 5-7, 9, 10, 12, 13, (14, 15), 16, 18, 20, 21, 23-31, (33), 34-40. C.
- L59.2 **Gymnocolea acutiloba** 48, 96.
- L60.1 **Barbilophozia quadriloba** 88, 89, 92, 98.



- L60.2 **Barbilophozia kunzeana** 35, 40, 42, 43, 47, 48, 51, 64, 67-69, (71), 80, 88, 90, (92), 95, 96, (97), 108, (110), 112. H(28).
- L60.3 **Barbilophozia floerkei** 2-5, (6), 13, 28, 35-37, 39-52, 55, 57-60, 62-112. H1-3, 6-8, 10, 12, 13, 16, 20, (21), 27-31, 33-36, 38-40.
- L60.4 **Barbilophozia atlantica** 39, 40, 46-52, 55, 57-60, 62-65, (66), 67-73, 75, 76, 78-80, 83, 86, 89-92, 94-99, (100), 101, 102, 105, 108-112. H6, 34.
- L60.5 **Barbilophozia attenuata** 1-6, (9, 11), 12-14, 16-18, (20), 22, (23), 24, 27, 28, 30, 34-37, 39-52, 54-60, (61), 62-108, (109), 110. H(1), 3, 6, (7), 11-13, 16, 20-22, 25, 27-31, 33-40. C.
- L60.6 **Barbilophozia hatcheri** (26), 28, 40, 42, 43, 48, 49, (50), 55, 64-70, 72, 75-99, 105-110.
- L60.7 **Barbilophozia lycopodioides** 64-66, 68, 69, (70), 87-90, 92, 94, 96-98, 104-106, (107), 108, 112.
- L60.8 **Barbilophozia barbata** 2, 3, (14, 25), 26, 28, 35, 36, (37), 40-44, 46-51, 54, (55), 57, (59), 60, 62-70, 72-76, (77), 78-101, 103-108, (109). H(1, 12), 20, (21, 27, 30, 35), 40.
- L61.1 **Anastrepta orcadensis** 4, 46-50, 60, 64, 65, 68-70, 72, 73, 75, 77, 78, 83, (85), 86-90, 92-112. H1-3, 16, 20, 27, 29, 30, 33, 35.
- L62.1 **Tetralophozia setiformis** 68, 88-98, 105, 106, 108, 109.
- L63.1 **Sphenolobopsis pearsonii** 42, 44, 46-49, 64, 69, 70, 73, (75, 87), 96-106, 108, 110. H1, 2, (3), 6, 7, 16, 27, (31), 33, 35, 40.
- L64.1 **Anastrophyllum minutum** 4, 11, (14), 35, 36, 42, 44-46, 48, 49, 52, 57, (60, 62, 63), 64-70, 72, 73, (74), 75-83, (85), 86-98, (99), 100-112. H1-3, 6, 7, 13, 16, 20, 21, 25, 27-30, 33-35, (36), 38.
- L64.2 **Anastrophyllum hellerianum** 41, 42, 44, 46-48, 69, 70, 87, 88, 92, 95-98, 101, 104, 105, 107, 108. H33, 40.
- L64.3 **Anastrophyllum saxicola** 92, (95), 96, 108.
- L64.4 **Anastrophyllum donnianum** 88, 92, 94, 96-98, 104-108.
- L64.5 **Anastrophyllum joergensenii** 92, 94, (96), 97, 105, 106, 108.
- L64.6 **Anastrophyllum alpinum** 105-108,
- L65.1 **Tritomaria exsectiformis** 1-5, (7), 8, 9, (10), 11, 12, (13), 14, (15), 16, 17, 22, (23), 24, (25), 26, (27, 30), 34, 35, (36), 37, 39, 40, 42-49, 51, 52, 54, 57, (58, 59), 60, 62-65, (66), 67-70, 72, 73, (74), 75-78, 80, 81, 83, 85-92, (93), 94-112. H1-3, 5-10, 13, 16, 17, 20, 22-30, 33-37, 39, 40.
- L65.2 **Tritomaria exsecta** (35, 40), 42, 44, 46, 48, 49, 70, 72, 73, 80, 86-88, 96-101, 103-105, 108. H1-3, 16, 27, 35.
- L65.3 **Tritomaria quinquedentata** 2, (3), 4-6, 35-37, 39, 40, 42-52, 57, 59, 60, 62-70, 72-83, (84), 85-112. H1-3, 6-9, 16, 20, 27-31, 33-36, (37), 38-40.
- L65.4 **Tritomaria polita** 86-90, 92, 96-98, (99), 104-106, 108.
- L66.1 **Lophozia longidens** 48, 65, 66, (70), 87-92, 94-99, 104-106, 108.
- L66.2 **Lophozia ventricosa** 1-6, (7), 8-18, (20), 21, 22, 24, (25), 26-28, (29), 30, (32), 34-52, 54, 55, (56), 57-112. H1-40. C.
- L66.3 **Lophozia longiflora** 96, 106.
- L66.4 **Lophozia wenzelii** 70, 90, 98, 105, 108.
- L66.5 **Lophozia sudetica** 2, 3, 35, 40, 42-50, 52, 57, 58, 60, 63-73, 75-99, 101, 103-106, (107), 108, (109), 110, 112. H1-3, 12, (13), 16, 20, (21), 25, 27, 28, (30), 31, 35, (36), 37-40.
- L66.6 **Lophozia excisa** 1-6, (7), 9-20, 22, 23, 25-30, 32, (33), 34-50, 52, 54, (55), 56-60, (61, 62), 63-75, (76), 77-85, (87), 88-99, 101-107, (108), 109, 110, 112. H1-6, (7), 12, (16), 20, 22, 27-29, 31, 33-40. C.
- L66.7 **Lophozia perssonii** 8, 12, 14-16, 18, 21, 24, 27, 29, 56, 57, 63, 64, 66. H19.

- L66.8 **Lophozia herzogiana** 12, 93.
- L66.9 **Lophozia obtusa** (48), 49, 65, 67, (71), 80, 88, 89, 92, 95-98, (99), 104-106, 108.
- L66.10 **Lophozia capitata** 9, (11), 12, 14, 17, (19), 22, 24, 28, 56, 58.
- L66.11 **Lophozia incisa** 1-6, (9), 11, 13-17, 22, (25-27), 28, 35-37, 39, 41-52, (55), 57-60, (61), 62-75, (76), 77-112. H1-11, 13-30, 32-37, (38), 39, 40.
- L66.12 **Lophozia opacifolia** 49, 69, 78, 86-90, 92, 94, 96-98, 105-108, 110. H1, 6, 8, 16, 27, 29, 35.
- L66.13 **Lophozia bicrenata** 1-6, (7), 8-19, (20, 21), 22-28, 30, 32, (33), 34-37, (38), 39-54, (55), 56-60, (61), 62, 63, (64), 65-75, 77-84, (85), 86, 88-92, 94-98, (99), 100-106, 108, (109). H(1, 2, 4), 6, (7), 8, 10, 12, 13, (16), 20, (21), 22, 28, 35-37, (38), 39, 40. C.
- L67.1 **Diplophyllum albicans** 1-25, 27-30, 32-52, (53), 54-112. H1-18, 20-40. C.
- L67.2 **Diplophyllum taxifolium** (49, 69), 87-90, 92, 94, 96-98, 105-108.
- L67.3 **Diplophyllum obtusifolium** 1, 2, (3), 4-6, 9, 11, (13, 14, 16), 17, 22, 27, 28, 34-36, 39-50, (61), 67-69, 72-75, 77-82, (85), 86-99, 101, 104-106, (108, 112). H1, (3, 4), 6, 10, 13, 20, 21, 32, 34, (37).
- L68.1 **Douinia ovata** 1-4, 42-49, (57, 65), 68-70, (71), 72, 73, 75, 78, 80, 86-92, (94), 95-101, (102), 103-108, (109), 110, 112. H1-3, 6, 8, 10, 12, 16, 20, (21), 27, (31, 34), 35, 38, 40.
- L69.1 **Scapania compacta** 1-6, 8-11, 13-17, (20), 22, 24, (25, 26), 27, 28, (32), 34-37, 39-50, 52, 54, (55), 57, 59, 60, (62), 63-65, (66), 67-90, (91), 92, 93, (94), 95-106, (107), 108-112. H1-4, 6, 8, 9, 12, 13, 16, 20, 21, 27, 28, 31, 34, 35, 37-40. C.
- L69.2 **Scapania gymnostomophila** 44, 49, 87-90, 92, 97, 98, 104. H1, 26, 34, 35.
- L69.3 **Scapania calcicola** 42, 86-90, 92, 94, 96-98, 104, 106, 111.
- L69.4 **Scapania cuspiduligera** 35, 40-42, 44, 47, 49, 57, 64-67, 69, 80, 83, 87-92, 94, 97, 105, 108-110. H27, 28, 34, 35.
- L69.5 **Scapania scandica** 1-5, 14, 34-36, 39-44, 46-52, 57, 59, 60, 62-70, 72, 73, 75-85, (87), 88-92, 94-99, 102-112. H1, 2, 5-8, 10, 14, 20, 27-30, 34, 35, (36).
- L69.6 **Scapania curta** 1, 2, (12), 13, 14, (15), 16, 57, 60, 63, 64, 95, 96, 104. H4, 27.
- L69.7 **Scapania lingulata** 42, 44, 45, 49, 52, 57, 81, 89, 90, 92, 95-98, 104, 106, 108. H10, 27, 39.
- L69.8 **Scapania praetervisa** (64), 88, 91, 95.
- L69.9 **Scapania parvifolia** 87, 88, (97), 98.
- L69.10 **Scapania umbrosa** 1-5, (13), 14, 16, (34, 37), 39, 42-50, 57-60, 62-70, 72, 73, (74), 75-84, (85), 86-92, (93), 94-112. H1-3, 6-10, 12, 13, 16, 20, 21, 25-30, 33-37, (38), 39, 40.
- L69.11 **Scapania nemorea** 1-7, (8), 9-18, (19), 20-22, (23), 24, (25-27), 30, 31, (32), 33-37, (38), 39-52, 54, 55, (56), 57-73, (74), 75, 76, (77), 78-81, 83-90, (91), 92, 93, (94), 95-112. H1-10, 12, 13, 16, 19-21, 25-40. C.
- L69.12 **Scapania irrigua** 1-9, (10), 11-24, (25-27), 28, (30, 33), 34-52, 54, (55), 56-112. H1-12, 15-17, 20-40.
- L69.13 **Scapania degenii** 65, 66, 70, 87-89, 92, 94-98, 104, 105, 107, 108, 112.
- L69.14 **Scapania paludicola** 2, 35, 40-50, 64, 79, 80, 90.
- L69.15 **Scapania undulata** 1-6, (7), 8-18, (19, 20), 21-23, (24), 27, (32), 34-37, (38), 39-52, 54, 55, 57-60, 62-112. H1-16, 18, 20, 21, 24-40. C.
- L69.16 **Scapania subalpina** 2-5, 42-44, 46-49, (50, 51), 60, (64), 65-70, 72-81, 83, (85), 86-99, 101-110, (111), 112. H(1), 6, 7, 16, (20, 27), 34, 35, (36, 38), 39, 40.
- L69.17 **Scapania uliginosa** 36, 46, 48, 49, 60, (62, 64), 69, 70, 73, 86-90, 92, 94, 96-98, (99), 103-108, 112.
- L69.18 **Scapania paludosa** 49, 70, 88-90, 92, 94, 96-98, 105, 106, 112.

- L69.19 *Scapania aequiloba* 35, 42, 44, 48, 49, 64, (65, 66), 68, 69, (70), 72, 77-80, 83, (85), 86-92, 94, 96-101, 104-108, 110. H1, 7, 28, 29, 34, 35, 39.
- L69.20 *Scapania aspera* 3, 6, 8-14, 17, (20), 23, 24, (32), 33-37, 39-45, 47-53, (55), 57, 59, 60, 62-70, (71), 72, (76), 78-83, 86-90, 92, 94, (95), 96-111. H1-3, 7-11, (13), 14-18, 22-30, 33-36, 39, 40.
- L69.21 *Scapania gracilis* 1-5, 9, 11, 14, 16, 34, 35, (36, 39), 40-52, 57-60, 62-76, (77), 78-81, (82), 83-90, (91), 92-112. H1-18, 20, 21, 25-31, 33-40. C.
- L69.22 *Scapania ornithopodioides* 49, (69), 70, 87, 88, 92, 94, 96-98, (99), 100, 102-108, 110, 112. H1, 2, 16, 27, 35.
- L69.23 *Scapania nimbosea* (49), 87, 88, 92, 94, 96-98, 102-108, 110. H1, 27, 35.
- L70.1 *Mylia taylorii* 2-4, 36, 39, (42), 43, 44, 46-50, 57-60, (61), 62-70, (71), 72-81, (82), 83, (84, 85), 86-88, 90-112. H1-4, 6-10, 12, 13, (14), 16, (17, 18), 19, 20, (21), 25-30, (31), 33-40.
- L70.2 *Mylia anomala* 1-5, (6), 8-17, 22, (24, 25), 27, 28, 35, 39-52, (55), 57-112. H1-4, 7-11, 13, 14, 17-20, 22-30, (31), 32-40.
- L71.1 *Acrobolbus wilsonii* 97, 98, 101, 103-105, 108, 110. H1-3, 16, 27, 35.
- L72.1 *Gongylanthus ericetorum* 1. C.
- L73.1 *Southbya tophacea* 1, 41, 45, 51, 52. H20, 26, 28.
- L73.2 *Southbya nigrella* 9, 10.
- L74.1 *Calypogeia fissa* 1-112, H1-40. C.
- L74.2 *Calypogeia muelleriana* 1-30, 34-52, 54-112. H1-14, 16-31, (32), 33-40. C.
- L74.3 *Calypogeia azurea* 35, 40, 42, 48-50, 52, 57-60, 63-70, 72, 73, 75, 76, 78, 80-83, 87-90, 92-94, 96-98, (99), 101-103, 105, 106, 108, 110-112. H1-3, 6, 7, 16, 20, 27, 33-35, (36), 40.
- L74.4 *Calypogeia neesiana* 3, 11, 13, 17, 40, 42, 44-50, 58-60, 62, 63, 67-70, 72, 73, 75, 77-81, 83, 85, 87-93, 95-98, 101, 102, 104-110, 112. H2, 7, 10, 13, 15, 16, 20, 22, 23, 26-30, 33-35, 40.
- L74.5 *Calypogeia integristipula* 8, 14-16, 39, 57-60, 62-64, 66-68, 70, 72, 74, 78, 83, (86), 92, 96, 97, 99-101, 105, 106. H(2), 33, 39.
- L74.6 *Calypogeia sphagnicola* 2, 3, 8, 9, 11-14, (15), 17, 22, (26), 28, 39, 40, 42, 44-50, 58, (60), 64, (65), 66, 67, 70, 73-77, 79-81, 83, 84, 86-90, 92, 93, 95-98, 101-112. H2, 3, 6, 7, 9-11, 14, 16-19, 22-30, 32-40.
- L74.7 *Calypogeia suecica* 96-98, 100, 101, 103-108. H1, 21, 33, (36).
- L74.8 *Calypogeia arguta* 1-29, 32-88, 90, (91), 92-94, 96-106, 108-112. H1-18, (19), 20-22, (23), 24-40. C.
- L75.1.a *Leiocolea rutheana* var. *rutheana* (27), 69, 79, 80, 89. H27.
- L75.1.b *Leiocolea rutheana* var. *laxa* 22, (27), 28.
- L75.2 *Leiocolea gillmanii* 64, 65, 68, 88, 89, 92, 97, 98, 104-106, 108-110, 112. H27, 35.
- L75.3 *Leiocolea bantriensis* 35, 36, 38, 40-44, 46-50, 52, 59, 60, (62), 64-67, (68), 69, 70, 72, 73, 75-83, (85), 86-98, (99), 100-112. H1-3, 7, 9, 14-16, (20), 27-31, 33, 35, 36, (38), 39, 40.
- L75.4 *Leiocolea fitzgeraldiae* 49, 88, 96-98, 103-105, 108, 111. H27-29, 33, 35.
- L75.5 *Leiocolea collaris* (34), 35, 36, 39-44, 46-50, 56, 57, 60, 62-67, 69, 70, (71), 72, 73, 75-80, 82, 83, (85), 86-92, 94-99, (100), 101-108, (109), 110-112. H1, 2, 16, 26-29, 33-35, (36), 39.
- L75.6 *Leiocolea heterocolpos* 42, 44, 46, 48-50, 65-69, 72, 83, 86-90, 92, 94-98, 101, 103-108. H39.
- L75.7 *Leiocolea badensis* 1, 2, 4-9, 11-14, 16-18, 20, 22-24, (25), 28-30, 32, (33), 34-36, 39-42, 44, 47, (48), 49-52, 57-60, 62-70, 72, 75-77, (78), 79-90, (91), 92, 94, 97, 98, 101, 102, 104-106, 108-111. H4, 5, 7-11, 13-20, 22, 23, 25-29, 33-35, (36), 38-40.
- L75.8 *Leiocolea turbinata* 1-47, (48), 49-54, 56, 57, (58), 59-78, 80-85, (87), 89-91, 93-104, 106, (107), 108-112. H1, 2, 4, (5), 6-17, (18), 19-22, 24-29, 31, (32), 33-37, (38), 39, 40.

- L76.1 *Liochlaena lanceolata* (14, 62), 64, (69), 105.
- L77.1 *Eremonotus myriocarpus* 42, 48, 49, (69), 70, 80, 86-91, 96-99, 101, 103-106, 108, 111. H1, 2, 16, 27, 34, 40.
- L78.1 *Jungermannia atrovirens* (1), 2-9, 12-14, (23), 32-37, 39-52, 55-60, (61), 62-73, (74), 75-112. H1-3, (4), 5-11, 16, 17, 20, 22, 23, 25-37, (38), 39, 40.
- L78.2 *Jungermannia pumila* 1-6, 12-16, 34-37, 39-52, 57-60, 62-90, (91), 92-106, 108-112. H1-8, 10, 11, 13, 14, 16, 20, 26-30, (31), 33-35, (36), 37-40.
- L78.3 *Jungermannia polaris* 88-90, 92, 94, 97, 111.
- L78.4 *Jungermannia borealis* 42, 44, 49, 87-90, 92, 94, 96-98, 101, 104-106.
- L78.5 *Jungermannia exsertifolia* 35, 42, 44, 45, 47-51, 57, 59, 60, (62), 63-70, (71), 72, 73, 75, (76), 77-83, (85), 86-93, 95-98, (99), 101-112. H1-3, 6, 16, 27, 34-36, (38, 39), 40.
- L79.1 *Nardia compressa* 2-4, 14, 35, 39-50, 57-60, 62-67, 69-73, 75, 76, 80, 83, 86-92, 94, 96-108, 110-112. H1-3, 6-8, 10, 12, 13, 16, 20, (21), 26-30, 33-35, (36), 38, (39).
- L79.2 *Nardia scalaris* 1-6, (7), 8-18, 20, (21), 22, 23, (24, 25), 27, 28, 30, 32, (33), 34-52, (54), 55-60, (61), 62-112. H1-16, 18, 20-22, 25-31, 33-40. C.
- L79.3 *Nardia geoscyphus* (3-5), 11, 12, (13), 14, 16-18, 22, (28, 34), 35, 38, 40, 41, 45, 48, 49, 54, 57-60, (61, 62), 63, (64, 65), 66, 67, (69), 72, 77, 79, 87-90, 92, 93, 95-98, 101, 102, 104-108, (109), 112. H1, 2, 13, 16, 27, 34, 35.
- L79.4 *Nardia insecta* 67.
- L79.5 *Nardia breidleri* 87-89, (90), 92, 94, (96), 97, 98, 105, 106.
- L80.1 *Solenostoma sphaerocarpum* 3, 4, (36), 39, 41-44, 46-50, (55), 57-60, 62-73, (75), 80, 83, (86), 87, 88, (89), 90-92, 96-99, 101, 102, 104-109, (110), 112. H(1-3), 9, 14, 16, 20, 21, 27, 29, (31, 33, 36-39), 40. C.
- L80.2 *Solenostoma confertissimum* 44, 65, 66, 79, 88, 89, 91, 92, 94, 96-98, 104, 105.
- L80.3 *Solenostoma gracillimum* 1-25, (26), 27, 28, (32, 33), 34-37, (38), 39-60, (61), 62-83, (84, 85), 86-112. H1-16, 20, 21, 25-30, (31), 32-40. C.
- L80.4 *Solenostoma caespiticium* 1, 2, (10, 17, 33), 43, 47, 57, 59, 63, 64.
- L80.5 *Solenostoma hyalinum* 1-5, (6), 7, 8, (9, 10), 11-16, (17, 20), 21, 22, (23), 27, (33, 34), 35-51, (55), 57, (59), 60, 62-73, 75-77, 80, (83-86), 88-92, 94, 96-104, 106-108, 110. H(1), 2, 3, 5, 8-10, 15, 16, 20, 25, 27, 28, 30, (31), 33-35, (36), 37, 39, 40.
- L80.6 *Solenostoma paroicum* 5, 12, 35, 39, 41-43, (44), 46-50, 57, 59, 60, 62, (63, 64), 65, 67-73, 75-83, 86-98, (99), 100-112. H1, 6, 8, 16, 27, 34, 35, (36, 38), 39, 40.
- L80.7 *Solenostoma obovatum* 41-50, 57, (58, 59), 60, 62-71, (72), 73, (74), 75-78, (79), 80-83, 86-92, 94-108, (109), 110, 112. H1-4, 6-8, (9), 16, 20, 21, 27, 29, 30, 33-36, (38), 39, 40.
- L80.8 *Solenostoma subellipticum* 2, (5), 35, 42, 48, 49, 62, 64, 65, (67), 70, 72, 79, 80, 82, 83, 87-92, 94-98, 100-106, 108, 110-112. H16, 27-29, 34, 35, 39.
- L81.1 *Geocalyx graveolens* 97, 104, 105, 108, 110. H1, 27, 33, 35.
- L82.1 *Harpanthus flotovianus* 69, (73), 87-90, 92-94, 96-98, 104-108, (109), 111, 112.
- L82.2 *Harpanthus scutatus* 2, 3, 5, 14, 16, (36), 45-49, 60, 62, 64, 65, 67, 69, 70, (72), 80, (86, 87), 97-105, 108, 110-112. H1-3, 6, 16, (20), 27-29, 33, 35, (36), 39, 40.
- L83.1 *Saccogyna viticulosa* 1-6, 11, 14, 34-37, 39-50, 52, 59, 60, 62-65, (66), 67, 69-78, 86-88, (90), 93, 96-108, 110-112. H1-11, (12), 13, 14, 16, 18, 20, (21), 25-31, (32), 33-35, (36), 38-40. C.
- L84.1 *Anthelia julacea* 3, 42, 46-49, 64, (65), 68-70, (71), 72, 73, 75, 78, (85), 86-90, 92, 94-98, (99), 100-108, 110, (111), 112. H1-3, 6, (7), 8, 13, 16, 20, 27, 28, 34, 35, 38, (40).

- L84.2 ***Anthelia juratzkana*** (48), 49, 75, 86-90, 92, 94, 96-98, 100, 101, 103-108, (109), 110, 112. H1, 16, 27, 34, 35, 39.
- L85.1 ***Gymnomitrium concinnatum*** 2, 45, 47-49, (64), 68-70, 72, 73, (75), 77, 78, 80, 86-98, (99), 100, 101, 103-108, (109), 110. H16, 27, 34, 35, 39.
- L85.2 ***Gymnomitrium obtusum*** 2, 4, 40, 42, 46-50, 65, 66, (67), 68-70, 72, 73, 75-78, 80, (85), 86-100, 103-108, (109), 110, 112. H1, 6, 13, 16, 20, 27, 35, 38, 40.
- L85.3 ***Gymnomitrium corallioides*** (49), 88, 89, 92, 97, 104, (105), 106, 108, (109). H(1), 34.
- L85.4 ***Gymnomitrium crenulatum*** 3, 4, 44-46, 48, 49, 65, 68-73, 75, 78, 86-88, 90, 92, 96-98, (99), 100-112. H1-4, 6, 7, 12, 13, 16, 20, (21), 27-31, 33-35, (36), 38-40.
- L85.5 ***Gymnomitrium apiculatum*** 92, 94, 96, 97.
- L86.1.a ***Marsupella emarginata* var. *emarginata*** 1-6, 13-16, 34-37, 39-50, 52, 57-60, 62-70, (71), 72-112. H1-10, 12, 13, (14), 16, 20-22, 25-40. C.
- L86.1.b ***Marsupella emarginata* var. *aquatica*** 3, 4, (36), 41, (42), 43-49, 57, 58, (59, 60, 62), 63, (65, 66), 67, (68), 69-71, 73, (74), 75, (76), 78, (80, 83), 86, 87, (88, 89), 90, (91), 92, 94-96, (97-100), 101, (102-104), 105, 107, (108, 109), 110, (111). H1, 2, (3), 4, 6, (13, 16), 20, (21), 26-30, 33-35, (36, 38, 39).
- L86.1.c ***Marsupella emarginata* var. *pearsonii*** (3, 42), 46, 48, 49, (65, 68), 69, 70, (73), 75, 88, 90, 96-98, (99), 100, 103-105, (108, 110), 112. H1, (2), 16, 20, (27, 31), 34, 35, (38, 39).
- L86.2 ***Marsupella arctica*** 92, 94.
- L86.3 ***Marsupella sphacelata*** 4, (42), 44, 48, 49, (62), 65, 70, 73, (86), 88-90, 92, 94, 96-108, (110). H6, 20, 27, (33), 35.
- L86.4 ***Marsupella funckii*** (1), 2-4, (7, 9, 14, 37, 40), 42-44, 46-50, (58), 65, 68-70, (72), 73, 75, 77, 79, 80, 83, 86-90, (91), 92, 94-99, (100), 101, 103-108, 110. H(2), 3, 7, 12, 16, 20, 27, 31, 35, (37, 38), 39. C.
- L86.5 ***Marsupella sprucei*** 1-3, 13, 42, 44-46, 48, 49, (62), 64, 65, (66), 67-70, 72, 73, 76, 78, 79, (87), 88-90, 92, 94, 96-99, 101-106, 108. H1, (2), 16, 20, 27, 35, (36), 38, 39.
- L86.6 ***Marsupella profunda*** 1, 2.
- L86.7 ***Marsupella sparsifolia*** 92, 94, 97.
- L86.8 ***Marsupella boeckii*** 92, 96-98.
- L86.9 ***Marsupella stableri*** 48, 49, 69, 70, 88, 90, 92, 94, 96-98, 100, 103-106, 108.
- L86.10 ***Marsupella condensata*** 88, 92, 94, 96, 97.
- L86.11 ***Marsupella adusta*** 48, 49, 69, 70, 72, 73, (77), 87-90, 92, 94, 96-98, (99), 103-106, 108, 110. H1, 27, 35, 36, 38-40.
- L86.12 ***Marsupella brevissima*** 87-90, 92, 94, 96-98, 104-108.
- L86.13 ***Marsupella alpina*** 48, 49, 69, (70), 73, 75, 86-88, (89), 90, (91), 92, 94, 96-98, 103-106, 108. H20.

## Mosses

- M1.1 ***Sphagnum austinii*** 3, 4, 46, 48, 49, 66, 67, (69), 70, 73-75, 77-81, 83, 88-90, 92-98, 102-105, 107-112. H1, 2, 9, 10, 14-20, 22-30, 32, 33, 35, 36, 39, 40.
- M1.2 ***Sphagnum affine*** 48, 49, 69, 70, 72-75, (86), 87, 88, 92, 95-100, 102, 104-107. H1, 2, 16, (37).
- M1.3 ***Sphagnum papillosum*** 1-6, 8-17, 20, 22, 24, (26), 27, 28, (29), 34-55, 57-112. H1-40.
- M1.4.a ***Sphagnum palustre* var. *palustre*** 1-6, (7), 8-32, 34-50, (51), 52-112. H1-40. C.
- M1.4.b ***Sphagnum palustre* var. *centrale*** 29, 30, 48, 49, 55, (60, 62, 71), 88, 89, 92, 97.

- M1.5 **Sphagnum magellanicum** 2, 3, 8, 9, 11-17, 22, 24, 27, 28, 39, 40, 44-51, 57, (58), 59, 60, 62, 63†, 64-70, 72-84, 86-112. H1-4, 7-11, 14-20, 22-30, (31), 32-40.
- M1.6 **Sphagnum squarrosum** 1-6, 8-15, (16), 17-22, (23), 24-32, 34-112. H1-3, (4), 5-7, 9, 10, 12-14, 16-18, (19), 20-25, 27-40.
- M1.7 **Sphagnum teres** 3, 4, 9, 11, (13, 14), 17, (25), 27, 28, (29), 35, (38), 39-50, 55, 57-59, 62-83, 85-98, (99), 100-112. H1, 2, 6, 7, 15, 18, 20, 22, 23, 25, 26, (27), 28, 30-35, 37-39, (40).
- M1.8 **Sphagnum fimbriatum** 1-6, 8-31, 34-104, 106-112. H1, 2, 4-10, 13, 14, 16-20, (21), 22-32, (33), 35-40.
- M1.9 **Sphagnum girgensohnii** 3, (5), 30, (38), 39, 43, 44, 46-51, 53, 56-83, (84), 85-112. H1-3, 6, 18, 20, 28-30, 35-37, (38), 39, 40.
- M1.10 **Sphagnum russowii** (5), 13, (17), 22, (26), 27, 29, 30, 34, 39-50, 54, 57-60, 62-73, (74), 75-96, 98-101, 104-112. H2, (3), 6-8, 10, 12, 13, 18, 20, (21), 28-30, 33, (34), 35-37, (38, 39), 40.
- M1.11 **Sphagnum quinquefarium** 2-5, 35, 37, 39-50, 57-60, 62-70, 72-92, (93), 94-112. H1-3, 5-10, 12, 14-16, 18, 20, (21), 26-30, 33-36, (37), 39, 40.
- M1.12 **Sphagnum warnstorffii** 42, 43, 46-50, 57, 60, (62), 64-66, (67), 69, 70, 72-81, 83, 87-90, 92-102, 104-110, 112. H7, 10, 14, 16, 25, 27, 28, 32, 34, 35, (40).
- M1.13.a **Sphagnum capillifolium subsp. capillifolium** 3, 4, 11, 13-15, 34, 35, 39, 40, 43-50, 54-59, 62-70, 72, 75-78, 80, 83, 85, 87, 92, 96, 100, 104-106, 108-111. H1-4, 6-9, 11, 17, 20-22, 26-30, 32, 35, 36.
- M1.13.b **Sphagnum capillifolium subsp. rubellum** 1-6, 8-20, (21), 22, 24, 25, (26), 27, 28, 30, (32, 34), 35-112. H1-20, 22-40.
- M1.14 **Sphagnum fuscum s.str.**<sup>2</sup> (13), 58, (65, 66), 67-70, 72, 74, 76-81, 83, 87-90, 92-98, 104, (105), 106, 108-112. H18, (22).
- M1.14A **Sphagnum beothuk** 9, 46, 48, 66, (69, 70), 73, 74, 87-89, 97, 98, 102, 104, 105, 107-110. H2, 9, 10, 14-18, (19), 22, (23), 24, 25, (27), 28-30, (32), 33, 34, 36.
- M1.15.a **Sphagnum subnitens var. subnitens** 1-19, (20, 21), 22-32, 34-112. H1-40. C.
- M1.15.b **Sphagnum subnitens var. ferrugineum** 75, 86, 104, 105. H1, 2, 16-18, 25-28, 33-35, 39.
- M1.16 **Sphagnum skyense** 46, 102-104, 110. H6-8, 16, 26, 27, 35.
- M1.17 **Sphagnum molle** 1, 3, (5, 8), 9, 11-14, 17, 22, (26), 28, (34), 44-50, 55, (59, 62, 66), 67-70, 72, 73, 75, 77, 79, 80, 83-88, 91, 92, 94, 96-98, (99), 100-110. H1, 2, (3, 15), 16, 18-20, 25, 27-30, 33-36, 38-40.
- M1.18 **Sphagnum strictum** 48, 49, (69), 73, 75, (86), 87-89, 92, 96-98, 100, 101, 103-108, 110, 111. H1-3, 16, 27, 28, 34, 35, (39, 40).
- M1.19 **Sphagnum compactum** 1-6, 8, 9, (10), 11-18, (19), 20, (21), 22, 24, (26), 27, 28, 34-36, 40, 41, (42), 43-54, 57-60, (61), 62-73, (74), 75-112. H1-10, (12), 13-18, 20, (21), 22, 24-31, 33-35, (36), 37-40.
- M1.20 **Sphagnum subsecundum** 3-5, 11, (12, 17), 27, 28, 35, 40, 42, 43, 45-50, 63, 69, 70, 73-79, 81, (86), 87-90, 95-99, 103, 104, 106-108, 110. H10, 16, 18, 25, 27, 34, 35.
- M1.21 **Sphagnum inundatum** 1-9, 11-14, 16-18, (19-21), 22-28, 30, 34-55, 57-83, 85-92, 94-112. H1-4, 6-12, (15), 16-18, (19), 20-22, 24-40.
- M1.22 **Sphagnum denticulatum** 1-25, 27-29, 34-112. H1-40. C.

---

<sup>2</sup> **Sphagnum fuscum agg.** is recorded from 9, (13), 46, 48, 58, (60, 65), 66-70, 72-74, 76-81, 83, 86-98, 102-112. H2, 9, 10, 14-19, 22-30, 32-34, 36, 39, 40.

- M1.23 **Sphagnum contortum** 3-5, 9, 11, (13, 14, 16), 27, 28, 40-52, (58, 59), 60, (61), 62, 64, 65, 67, 69-81, 83, 85, 88-90, 92-112. H1-3, 6, 7, (9), 12, (15), 16, 17, (20), 21-23, 25-31, 33-35, (36), 37-39, (40).
- M1.24 **Sphagnum platyphyllum** 35, 40, 42, 44-46, 48-50, 52, (60), 65, 69, 70, 72-75, 78, (87), 88, 89, 92, 95-98, 101, 103, 104, 107, 108, 110, 112. H1, 3, 16, 27, 31, (33), 34.
- M1.25 **Sphagnum tenellum** 1-5, 8, 9, 11-14, (15, 16), 17, (18, 19), 22, 24, 27, 28, (29, 34), 35, 36, (37, 39), 40-50, 52, 54, (57), 58-60, (61), 62-81, 83, 84, (85), 86-112. H1-20, 22-40.
- M1.26 **Sphagnum cuspidatum** 1-6, 8-19, (20, 21), 22, 24, 25, 27, 28, 30, 35, 36, (37), 38-112. H1-40.
- M1.27 **Sphagnum majus** 67, 88, (90), 95-98, 107-109.
- M1.28 **Sphagnum balticum** 46, (58, 59), 63, 67, 72, 92, 96.
- M1.29 **Sphagnum pulchrum** 9, 40, 46, 47, 49, 50, (58, 60), 67, 69, 70, (71), 73, 74, 77, (97), 98, 102, 104, 107. H1, 2, 16-19, 23, 25, 27, 28, 33, 35, 36, (38, 39), 40.
- M1.30 **Sphagnum fallax** 1-6, 8-22, 24-31, (32), 34-50, (51), 52-112. H1-4, 6-40.
- M1.31 **Sphagnum flexuosum** 2-6, 8, 9, 11-17, 20-22, 24, 25, 27, 30, 34, 35, 38-49, (50), 51, 57-60, (61), 62-64, (65), 67, 69-77, 79-81, 83, 85, 86, 88-90, 92, 94-97, 100-105, 107-112. H2, 3, 5, 10, 16, 20, 25, 27, 40.
- M1.32 **Sphagnum angustifolium** (4), 5, 9, 11, 14, 16, 22, 25, 39-50, 55, 57-60, 63-67, 69, 70, 72, 75-81, 83, 86-98, 100-102, 104-111. H1-3, 6, 10, 16, 18, 23, 25-30, 32-34, 39, 40.
- M1.33 **Sphagnum obtusum** (59, 60).
- M1.34 **Sphagnum riparium** 22, 52, (58, 60, 61), 64, 67, 69, 77, 80, 88, 90, 92, 94, (95), 96, 97, 104-109, 112.
- M1.35 **Sphagnum lindbergii** 88, 90, 92, 94, 96, 97, 105, 106, 108, 112.
- M2.1 **Andreaea alpina** 42, 44, 46, 48, 49, (64), 65, (66), 68-70, 72, 73, (74), 75, 77, 78, 86-90, 92, 94, 96-98, (99), 100-108, 110, 112. H1-3, 7, 8, 16, 20, (21), 27, 31, 35, 38-40.
- M2.2.a **Andreaea rupestris var. rupestris** (1), 3, 4, 35, 40-50, 57, (59), 60, 62-90, (91), 92-100, 102-112. H1-4, (6), 7, 8, 11, 13, 16, 20, 21, 27, 28, (29), 30, 31, 34-36, (37), 38-40.
- M2.2.b **Andreaea rupestris var. papillosa** 48, 49, (70).
- M2.3 **Andreaea alpestris** 90, 92, 94, 96, 97, 106.
- M2.4 **Andreaea mutabilis** 46, 48, 49, (60, 65, 68), 69, (70), 72, 73, 75, 77, 78, (85, 87, 88), 89, 90, 92, 94, 96-98, 103-106.
- M2.5 **Andreaea sinuosa** 92, 94, 97, 105, 106.
- M2.6.a **Andreaea rothii subsp. rothii** 1, 2, (3), 40, (41), 45, 49, 60, 63, (64), 65, (69, 71, 73), 76, 80, (82, 87, 88, 90), 92-94, 97, 103-105, (106), 107. H1, (2), 3, 4, 6-9, 12, (13), 16, 20, 21, 26-31, 34, 35, (36, 38), 39, 40.
- M2.6.b **Andreaea rothii subsp. falcata** 1-5, (34), 35, 36, (37), 41-50, 52, 57, 58, 60, (62), 63-81, (82), 83-92, (94, 95), 96-100, 102-108, 110, (111), 112. H(1), 2, (3, 5, 6), 7, 9, 10, 12, 13, 16, 20, 21, 25-28, (29, 30), 31, 33-36, 38, 39.
- M2.7 **Andreaea frigida** (65), 70, 92, 94, 96.
- M2.8 **Andreaea megistospora** 45, 46, (48, 66), 70, 72, 73, (74), 75, 78, 87, (88), 92, (96), 97, 98, (99), 100, 104-106, 108, 110. H1, 3, (4), 6, 16, 27, 34, (38).
- M2.9 **Andreaea blyttii** 92, 94, 96, 97, 105, 106.
- M2.10 **Andreaea nivalis** (88, 90), 92, 94, 96-98, 105-107.
- M3.1 **Oedipodium griffithianum** (42), 44, 46-50, (64), 65, 68-70, 72, 73, 75, (78, 80, 86), 87, 88, (89), 90-92, 96-100, 103, (104, 105). H(1), 27, 35.
- M4.1 **Atrichum crispum** 3-5, 17, 39-50, 57-60, 63-65, 69-71. H20, 25, 29.

- M4.2 **Atrichum tenellum** 1-3, (7), 11, 14-17, 42, 43, 45, 46, 49, 57-59, 63, 64, 70, 73, 75, 76, 78, 81, 83, (85), 86-88, (89), 90, 92, 95-98, 103-106, 110. H1, 3, 9, 16, 27, 28, 35, 38.
- M4.3.a **Atrichum undulatum var. undulatum** 1-112, H1-40. C.
- M4.3.b **Atrichum undulatum var. gracilisetum** (17, 20, 37, 40, 59).
- M4.4 **Atrichum angustatum** 13-16, (17, 19), 33, (37, 44, 87). H(36, 38).
- M5.1 **Oligotrichum hercynicum** (1), 2-4, 39-50, 57-60, 62-83, (85), 86-112. H1-4, (5), 6-10, 13, 14, 16, 20, 21, 27, 28, (29), 30, (31), 33-36, 38-40.
- M6.1 **Pogonatum nanum** 1-6, (7), 8-10, (11, 12), 13-17, (18, 19), 20, (21), 22, 23, (24-26), 27, (29, 30, 32, 33), 34-37, (38, 39), 40-49, (50, 51), 52, (55, 57-64, 66), 67, 68, (69), 70-73, 75, (76), 78, 79, 81, 83, (84-87), 88-92, 94-98, (101), 103, 104, 106, 108-110, 112. H(4, 5), 8, (10, 12, 20), 21, 22, 25, 27, (28), 31, (32, 33, 36), 37, (38), 39, 40. C.
- M6.2 **Pogonatum aloides** 1-6, (7), 8-22, (23), 24-28, (29), 30, (32, 33), 34-52, (53), 54-112. H1-22, 24-40. C.
- M6.3 **Pogonatum urnigerum** 1-6, (7), 8, 9, (10, 11), 12-17, 20, (21), 22, 24, (26), 27-29, (30, 32, 33), 34-37, (38), 39-53, (54), 55, 57-112. H1-18, 20-22, 25-40. (C).
- M7.1 **Polytrichastrum alpinum** 2-4, (34), 35, 36, (37), 39-50, 57, (59), 60, 62, (63), 64-83, (84), 85-112. H1-4, 6-8, 11-13, 16, 20, 21, 27-31, 33-40.
- M7.2 **Polytrichastrum longisetum** (1), 3, 5, (6, 7), 8, 9, (10), 11-29, (30), 31, (32, 33), 34-44, 46, 47, 50, 51, 53, 54, (55, 56), 57-70, 72, 73, (74), 75-78, (79), 81-84, 86, 87, (88, 89), 90-92, 94-98, 103, 105-108, (110, 111), 112. H(1, 2), 3, (7, 8, 12-14), 15-19, (20), 22-28, (29, 30, 32), 33, (36), 37, (38-40).
- M7.3 **Polytrichastrum formosum** 1-112, H1-40. C.
- M7.4 **Polytrichastrum sexangulare** 88-90, 92, 94, 96, 97, 105, 106.
- M8.1.a **Polytrichum commune var. commune** 1-6, (7), 8-112. H1-40. C.
- M8.1.b **Polytrichum commune var. perigoniale** 2, (3, 12), 13, 17, 18, 22, 27, (32), 35, (36-39), 41, 43-49, (51, 54), 56, 57, (59), 62, (63), 70, 72, 76, (85, 88), 89, 90, 92, 95, 97, 98, 103-108, 110, (111). H7, 8, 12, 20, 21, 23, 28.
- M8.2 **Polytrichum piliferum** 1-6, (7), 8-112. H1-13, (14), 16, 17, (19), 20-22, 24-40. C.
- M8.3 **Polytrichum juniperinum** 1-112, H1-16, 18-40. C.
- M8.4 **Polytrichum strictum** 2-5, (6), 11-14, 17, 22, 25, 27, 28, 35, 39-52, 54, 57, 58, (59), 60-84, 86-92, 94-112. H1, 6-10, 13-20, (21), 22-25, 27-40.
- M9.1 **Tetraphis pellucida** 1-108, 110. H1-8, 10-13, 16, (18), 20, 21, 23, 25-31, 33-40.
- M10.1 **Tetodontium brownianum** 3, 4, 14, 16, 34, 35, (36), 39-42, 44, (46), 47-49, 57-60, 62-72, (73), 75-78, 80, 81, 83-88, 90, 91, 96-101, 103-108, 110. H1, 2, 8, 16, 20, (21), 27, 29, 33, 35, 36, (39), 40.
- M10.2 **Tetodontium repandum** (14, 62).
- M11.1 **Buxbaumia aphylla** (17), 22, (23, 27, 30), 37, 40, 43, (47, 48, 57-59, 63, 64), 66, (67, 68), 72, (73), 77, (78, 79), 80, (81), 82-86, (87), 88-92, 95, 96, (98, 99). H(1).
- M11.2 **Buxbaumia viridis** 87, 89, (90), 92, 94-98, 106.
- M12.1 **Diphyscium foliosum** 1-5, 14, (23), 35, 36, (39), 40-50, 57, 58, (59), 60, (62, 63), 64-81, 83, 86-108, 110, 112. H1-3, 6-8, 12, 13, 16, 20, 27-29, 31, 33-35, (36), 37-40.
- M13.1 **Timmia austriaca** 88, 89, (90).
- M13.2 **Timmia norvegica** 87, 88, (90), 96-98, 104. H28, 29.
- M13.3 **Timmia megapolitana** 27.
- M14.1 **Encalypta streptocarpa** 1-17, 20, 22-24, 26, 28-73, (74), 75-98, (99), 100-111. H1-31, 33-40.



- M14.2 *Encalypta alpina* (49), 64, 88-90, 96-98, 104, 108. H28.
- M14.3 *Encalypta raptocarpa* (49), 64, 65, (66), 68, 69, 82, (85), 87-90, 92, 94, (96), 97, 98, 104, 105, 107-110, 112. H(9, 27), 28, 29, 40.
- M14.4 *Encalypta vulgaris* 1-12, (13-15), 16, 17, (19), 20-24, (25), 26, 28-44, (45), 46, 47, 49-57, (59), 60-70, 75, (77), 79-83, (84-86), 87-92, 94, 95, (96), 100, 106-108, 110. H2, 4, 5, (6), 7, 9, 11, 13, (14, 15, 18, 19, 21), 22, (23), 24, 25, (27, 32, 33, 35), 37, (39), 40.
- M14.4B *Encalypta pilifera* 47, 51, 57, 65.
- M14.5 *Encalypta brevicolla* (90).
- M14.6 *Encalypta ciliata* 35, (36), 42-44, 48, 49, (59), 64-66, 68-70, (72, 75, 78, 80), 82, 83, (85), 86-90, (91), 92, 94-98, (99), 101, 104, 105, (106), 107, (108). H2, 8, 39, (40).
- M15.1 *Funaria hygrometrica* 1-112, H1-40. C.
- M16.1 *Entosthodon muhlenbergii* (3), 6, (9, 34), 35, (36), 39-42, 44, 47, (48), 49-51, 55, 57, 60, (62), 64, 65, 69, 88. H(4), 5.
- M16.2 *Entosthodon pulchellus* 2, (3), 6, 9, (13), 34, 41, 45, 47, 49, 51, 52, (60), 94. H7.
- M16.3 *Entosthodon attenuatus* 1, 2, (3), 4, 5, 35, 42-50, 52, (58-60, 62-65), 66-71, (72, 73), 74, 75, 77, 79, (83, 86-88, 91), 96-112. H1-3, (4, 5), 6-9, 12, 16, 20, (21), 25-29, 31, 33-35, (36), 38-40. C.
- M16.4 *Entosthodon fascicularis* 1-20, 22-27, 31, (32), 33-37, (38), 39-41, (42), 43-46, (47, 48), 49-52, (55), 56, 57, (58, 59), 60, (61, 62), 64, (66), 67, 69, 71, (72, 73), 74, (75, 76, 81, 85, 90, 91). H(1), 2-6, 8, 11, 12, 17, 19, 20, (27, 36), 38, (39, 40). C.
- M16.4A *Entosthodon mouretii* 1, 12, (32, 33), 34, 45, 46, (48).
- M16.5 *Entosthodon obtusus* 1-6, (7), 9-12, (13), 14-17, (20), 22, (27), 34-37, 40-52, 57, 58, (59-61), 62-81, 83, (85), 86, 88-93, 95-112. H1-10, (12), 13, (14, 15), 16, 20, (21), 25-30, (31), 32-40. C.
- M17.1 *Physcomitrium pyriforme* 1-37, (38), 39-75, (76), 79-85, 88, (89), 90, 91, 93, 94, 97, 98, (99), 100-104, 106-108, (109), 110-112. H1-6, 8-10, (11), 12, 13, 16, (18), 19, 20, (21), 22, (23), 24, 25, 27, (28), 29, (30), 32-36, (37), 38-40. C.
- M17.2 *Physcomitrium eurystomum* 20, 28.
- M17.3 *Physcomitrium sphaericum* (14, 17, 39), 42, 44, 57-59, 63, 64, 76, 83, (85), 86, 99. H39.
- M18.1 *Aphanorrhagma patens* 1-9, 11-40, (41), 42, 44-48, 50-55, 57-65, (66), 67, 68, 73, 76, 78, (79), 80, 82, 83, (84), 85, 99, 101. H2, (4), 5, 6, 8, 9, 11, 12, 14, 15, 17, 18, (21), 22-27, 29, 30, 32, 34, 35, 37-39.
- M18A.1 *Ephemerella readeri* 4, 57, 64.
- M19.1 *Discelium nudum* 2, 3, 14, 15, (32), 34, (37), 39, 40, 42, 43, 46, 47, 49, 50, 57-60, 62-67, 69, (70, 75), 77, (82, 88), 99, 106. H29, 30, 33.
- M20.1 *Coscinodon cribrosus* 2, 4, 44-50, 57, 62, 64, (69), 70-72, (73), 83, 88, 94.
- M21.1.a *Schistidium maritimum subsp. maritimum* 1-5, 44-46, 48, 49, 52, 58, (59), 60, 62, (66), 68-71, 73-76, 81-85, 90, 91, 93-112. H1-4, (5), 6, 8, 9, 12, (13), 16, 17, 20, 21, 27-29, 31, 34, 35, 38-40. C.
- M21.1.b *Schistidium maritimum subsp. piliferum* 103, 104, 110, 112.
- M21.2 *Schistidium rivulare* 2-5, (34), 35, 36, (37-39), 40, 42-52, (55), 57, 58, (59), 60, 62-70, (71), 72-101, 103-106, 108, 109, 111, 112. H1-4, (5, 6), 7-9, 16, 20, 21, 24, 25, 28-30, 33-35, 38-40.
- M21.3 *Schistidium platyphyllum* 35, (36), 39, 41-44, 47, 52, 54, 56-60, 62-67, (68), 69, 70, 72, 75, 77, 79, 80, (81), 83, 84, (86), 88-90, 92, 94, 95, (96), 98, 104, 108, 112. H1, 3, 8, 9, (19), 28, 33, 34, 36, 39, (40).
- M21.4 *Schistidium agassizii* 48, 49, 65, 66, 69, (70), 72, (73), 87, 88, 90-92, 94-98, 105-108. H35.

- M21.5 *Schistidium apocarpum* 1-6, 27, 33-37, 39-53, 57-59, 62-70, 72-98, (99), 100, (101), 103-112. H1-4, 6-11, 15-17, 19, 20, 25-40.
- M21.6 *Schistidium trichodon* (49), 64-66, 69, 70, 87-90, 92, 94, 96-98, 105, 108. H29, 33.
- M21.7 *Schistidium papillosum* 48, 72, 88-90, 92, 96, 97, 104.
- M21.8 *Schistidium pruinoseum* 43, 47, 57, 75-77, 81, 83, 85, (87), 88-90, 92, 97, 98, 103, 104, 107, 112. H39, 40.
- M21.9 *Schistidium strictum* 41, 42, 44, 46, 48-50, 64-66, 68-70, 72, 73, 75, 78, 83, 86-90, 92, 94-98, (99), 100, (101), 103-108, (109), 110-112. H1, 3, 6-8, 13, (18), 25, 27-29, 35, 39.
- M21.10 *Schistidium dupretii* 88-90, 92, 97, 107.
- M21.11 *Schistidium robustum* 2, 33, 42, 46, 50, 57-59, 64-67, 69, (88), 89, 90, 92, 94, 95, 97, 98, 101, 104, 105, 107, 108. H28, 29.
- M21.12 *Schistidium confertum* 46-48, (49), 64, (65, 69), 70, (76), 77, 79, (83, 85, 87-89), 90, 96-98, (99), 108. H(26, 31, 32, 39).
- M21.13 *Schistidium flaccidum* 49, 103.
- M21.14.a *Schistidium frigidum* var. *frigidum* 42, 46, (47, 49, 65), 72, 78, 92, 97, 104, 108.
- M21.14.b *Schistidium frigidum* var. *havaasii* 49, (65, 72), 92, 104.
- M21.15 *Schistidium atrofusum* 88, 89, 92, 94, 96.
- M21.16 *Schistidium crassipilum* 1-78, 80-98, 100, 101, 103-112. H1, 3-16, 18-36, 38-40. C.
- M21.17 *Schistidium elegantulum* 18, 19, 33-37, 40, 41, 43-49, 51, 52, 57-60, 64-66, 69, 72, 75, 76, 97, 98, 103-105, (108), 110. H2-11, 15, (16), 17, 19, 20, 24, (26), 28, 33-36. C†.
- M21.17A *Schistidium helveticum* 47, 94.
- M21.18 *Schistidium flexipile* 104.
- M22.1 *Grimmia anodon* 69, 83.
- M22.2 *Grimmia crinita* 2, 17, 24, (38). H(21).
- M22.3 *Grimmia laevigata* 1, (2), 3, 4, (7), 13-15, (16), 22, 34-37, 40, 42-47, (48), 49, 50, (52, 55), 57, (71), 75, 82, 83, 85, (87), 88, (89, 90, 99), 100, 104. H(3, 5, 39). C.
- M22.4 *Grimmia tergestina* 7, 19, 23, 33, 34, 49, 51, 98, 103, 112.
- M22.5 *Grimmia montana* 3, (35), 40, 43, 45, 47, (48), 49, (52, 65, 70), 72, (73), 80-83, (85), 86, (90), 92, 93, 98. (C).
- M22.6 *Grimmia sessitana* 75.
- M22.7 *Grimmia alpestris* 48.
- M22.8 *Grimmia donniana* 3, 4, (5), 6, 35, (36, 37), 40-52, 57-59, (60), 63-83, 85, (86), 87-101, 103-105, 108, (110), 112. H1, (2), 6, 7, 16, (19), 20, (21), 27, 31, (34, 37), 38, 39.
- M22.9 *Grimmia arenaria* 46, 48, 49, (50), 69, 70.
- M22.10 *Grimmia elongata* 46, 48, 49, (68), 69, 70, (73), 90, 92.
- M22.11 *Grimmia longirostris* (3), 4, 13-15, 35, (39), 43, 44, 49, (55), 68, (69), 83, (85), 87-90, (91), 92, (93), 95, 97, 98, 101, (102), 103-106, 108, 112. H(1, 4), 16, (38, 39).
- M22.12 *Grimmia ovalis* 10, 13, (16, 19, 34), 35-37, 42-44, 50, 66, (69, 70, 73), 81, 82, (83, 85, 87), 88-90, 96, 98, 107, 108.
- M22.13 *Grimmia unicolor* 90, 108.
- M22.14 *Grimmia atrata* 46-49, 69, 70, 72, 73, (88), 89, 90, 92, 96, 98, 101, 103, 106. H(1), 35.
- M22.15 *Grimmia incurva* 40, 45, 48, 49, 68-70, 72, (73), 80, 89-92, (94), 96-98, 101, 106, 108.
- M22.16 *Grimmia pulvinata* 1-112, H1-40. C.
- M22.17 *Grimmia orbicularis* 1-4, 6, 8, 9, 13, (14), 16, 22, 23, 33, 34, 36, (37), 40, 41, 44, 45, (48), 49-52, 59, 60, (64, 65), 67, (69, 82), 83, 85, (88, 89), 94, 97, 101, 102, 104, 108. H(4), 5, 11, 20, 21.

- M22.18 **Grimmia torquata** 42-44, 48-50, 64, (65), 66, 68-70, 72, 73, 75, (78), 86-90, 92, 95-101, 103-108. H1, (2), 3, 6-8, 16, (20), 27, 28, 39.
- M22.19 **Grimmia funalis** 45, 47-49, 64, (65), 66, 69, 70, 72, 73, 75, 77, 78, (85), 86-90, 92, 94, 96-99, (100), 101, 103-110. H1, 3, (4), 6, (7), 16, (20), 27, (31), 34, 35, 38, (39), 40.
- M22.20 **Grimmia trichophylla** 1-14, 16-18, 20, 22, 24-28, 29<sup>+</sup>, 32, 34-50, 52, 55-112. H1-4, 6-9, 11-13, (14), 16-18, (19), 20-22, 26-29, (30), 31-40. C.
- M22.21 **Grimmia lisae** 1-3, (4), 5, 13, 18, 29, (34, 36), 42-50, 52, 69, (70, 73), 74, 75, 77, 78, 80-86, 88, (89), 90, 92, (93), 96-99, 101-105, 107, 108. H1-3, 5, 6, 8, 9, 16, 22, 31, 35. C.
- M22.22 **Grimmia dissimulata** 5-7, 12-14, 19, 25, 26, 28, 29, 33, 34, 57, 64, 75, 106, 112. H9, 15.
- M22.23 **Grimmia muehlenbeckii** 47-49, 75, 86, 90, 94, 97, 98, 101-105, 110. H1, 3, 6, 40.
- M22.24 **Grimmia hartmanii** 2, 3, (34), 35, 36, 42-45, 47-50, 52, 64, 65, (66), 67-70, 72-75, 79, 81, 86-99, 101-108, 110. H2, 3, 7, (16), 20, (26), 27, 29, (31, 34), 35, (38, 39), 40.
- M22.24A **Grimmia anomala** 49, 88, 96, (97). H3, 26, 28.
- M22.25 **Grimmia decipiens** 1, (2-4), 7, 13, (14), 16, 22, 24, 26, 35, 36, 42-45, (47), 48, 49, (52, 55, 62, 66, 68), 69, (70), 73, 75, (79), 80-83, 85, 86, (87-89), 90, (92, 94), 96-98, 100-108, (110). H6, 8, 16, 20, 27, 31, 38, 39. C.
- M22.26 **Grimmia elatior** (90), 107, 108.
- M22.27 **Grimmia ramondii** 2, 3, 42-45, 47-49, (57), 65, 68-70, (71), 72, 73, 75, 76, 78, 80, (82), 86-90, 92-100, (101), 102-110, 112. H1-3, 6, 7, 16, 20, (21), 27, 31, 34, 35, 38-40.
- M23.1 **Racomitrium ellipticum** 48, 49, (65), 69, 70, (72, 73), 75, 76, (86), 87, 88, 90, 92, (94), 96-98, (99), 100-108, 110, 112. H1-3, (4), 16, (20), 27, 28, 31, 34, 35, 38-40.
- M23.2 **Racomitrium aciculare** 1-6, 13-15, (16), 17, 19-21, 24, 25, 27, 30, 32-53, 55, 57-60, 62-112. H1-4, 6-10, 12-16, 18-40. C.
- M23.3 **Racomitrium aquaticum** 1-6, 9<sup>+</sup>, 35, 36, (37), 40-50, 52, (55), 57, 58, (59), 60, 63-78, 80, 82, (83), 84-92, 94-108, (109), 110-112. H1-8, 11-14, 16, (18), 20, 21, 24-31, (32), 33-35, (36), 37-40. C.
- M23.4 **Racomitrium fasciculare** 1-6, 8, 11-14, (16), 17, 19, 20, 22, 24, 26, 30, 32, (33), 34-51, (52), 54, 55, 57-60, 62-112. H1-4, 6-13, (14), 16, (19), 20-22, 24-40.
- M23.5 **Racomitrium macounii** 42, 44, 46, 48, 49, 69, 88, 90, 92, 94, 96, 97, (98), 105-108. H1, 3, 27.
- M23.6 **Racomitrium sudeticum** 4, 40-42, 44-50, (52), 57, 59, (60), 63-65, (66, 68), 69-73, 75, 76, 78-80, (81, 86), 87-90, 92-94, 96-108, (109), 110, 112. H1-4, 6-8, 12, 13, 16, 20, 21, 27-31, (33), 34-36, 38, (39), 40.
- M23.7 **Racomitrium affine** 3, 4, 9, 13, 14, (15), 16, 17, 34-36, 39-48, (49, 50), 55, 57-59, (60), 62-70, 72-76, 78, (79), 82, 83, 85-90, 92-94, 96-98, 100, 101, 103-108, 110-112. H1, 6, 8, 12, 13, 16, 20, (27), 31-36, 38-40.
- M23.8 **Racomitrium heterostichum** 1-8, 9<sup>+</sup>, (11), 12-14, (16), 17, 19, 20, 22-25, 27, 29, 32, 34-37, 40-50, 52, 54, 55, 57-60, 62-90, (91), 92-100, 102-110, 112. H1-9, 11-13, 15, 16, 19-22, 24-31, 33-40.
- M23.9 **Racomitrium himalayanum** 88, 98.
- M23.10 **Racomitrium lanuginosum** 1-6, 8, 9, 11-14, (16), 17, 19, 20, 22-24, 27, 29, 30, 32, (33), 34-36, (37), 38-52, 55, 57-60, (61), 62-81, (82), 83-112. H1-40.
- M23.11 **Racomitrium ericoides** 1-6, 8, (9), 12, 13, (19, 23, 27), 28-30, (33, 34), 35-51, (52, 54), 55, 57, 59, 60, 62-90, 92, 94-99, (100), 101-112. H1-3, 5, 8-10, 12-14, (15), 16, 18, (19), 20, 21, 25-36, 38-40.

- M23.12 *Racomitrium elongatum* 2-4, (9), 11, (12), 17, (20), 26, 28, 40, (42), 43-50, (52), 57, 60, 65-70, 72, 74-78, 80-83, (85, 86), 87-94, 96-99, 104-106, 108, 109, 112. H20, (39).
- M23.13 *Racomitrium canescens* (5), 6, 8, (14, 17, 23), 26, (27), 28, (30), 35, (36, 37), 41, 42, 47, 52, 54, 66, 69, 70, 82, 84, 85, 87-90, 92-95, 97, 103, 104, 106, 107, 109, 112. H21, 22, 38. (C).
- M24.1 *Ptychomitrium polyphyllum* 1-6, 9, 13, 17, 23, (32, 33), 34-37, (38), 39-50, 52, (55), 57-60, (62), 63-94, (95), 96-112. H1-14, (15), 16, 19-22, 25-40. C.
- M25.1 *Campylostelium saxicola* 3, 12-16, (36), 42, 46, (48), 49, 57, (58, 59), 60, 62, (64, 67), 68-70, 72, (77), 80, 86, 98, (99), 103, 104. H1, 2, 8, (20, 21), 28, 29, 40.
- M26.1 *Blindia acuta* 1-4, 35, 36, 40-50, 52, 57-60, 62-112. H1-4, 6-8, 13, 16, 20, 21, 26-29, 31, 33-40.
- M26.2 *Blindia caespiticia* (86), 88, 97.
- M27.1 *Brachydontium trichodes* 1-3, 12, 13, 16, 17, 30, 34, 35, (36), 39, 40, 42-44, (48), 49, 57, 59, 60, 62-65, (66), 67-70, 72, (73), 76-78, 80, (81, 83), 84-87, (88), 89, 90, (92, 95), 96-98, (99), 103, 104, (105), 111. H20, (21, 28), 29, 35, 38, (40).
- M28.1 *Seligeria pusilla* 3, 6-9, 23, 33-37, (38), 39-44, 48, 50-52, (54), 57, (59), 60, 62, 64-67, 69, 70, (72, 74), 78, 80, 83, 88, 89, (90, 92), 94, 95, 97, 98, 101, 102, 104, (108). H28-30, 33, 39.
- M28.2 *Seligeria acutifolia* 6, 7, 9, 23, 33-35, (36, 39), 41, 42, 44, 47, 57, 60, 64, 65, (66), 69, (70), 89, 94, 97, 98, 104. H9, 11, 16, 24, 28-30, 33, 39, 40.
- M28.3 *Seligeria brevifolia* 49, 57, 87, 89.
- M28.4 *Seligeria diversifolia* 62, 97.
- M28.5 *Seligeria campylopoda* 24, 34, 35.
- M28.6 *Seligeria recurvata* (3), 11-13, (14, 24), 34-36, (37), 39-44, 46-51, 57-60, 62-70, 72, 73, (74), 75-78, 80, 81, 83, 84, (85), 86-90, (91), 92, 94, 97-109, 111. H1, 3, 6, 7, 16, 27-29, 31, 33-35, (36).
- M28.7 *Seligeria calycina* 3, 6-17, 20-24, 26, 28-30, 32, 33, 54, 61. H(39), 40.
- M28.8 *Seligeria calcarea* 3, 6-18, (19), 20-26, 28-30, 32-34, 37, 53-55, 61. H39, 40.
- M28.9 *Seligeria donniana* 6, (7), 16, 22, 23, 29, 32, 33, 35, (36), 37, 39-43, 48, 49, 57, 60, 62-67, (68-70, 72, 75-77), 80, 83, 86-92, 94, 96-99, 101, 103-108. H9, 14, 16, 28-30, 33, 35, 39.
- M28.10 *Seligeria trifaria* s.str.<sup>3</sup> 105.
- M28.11 *Seligeria patula* 35, 42, 64, 65. H28, 29, 33.
- M28.12 *Seligeria oelandica* 42. H28, 29, 33.
- M28.13 *Seligeria carniolica* 67, 80.
- M29.1 *Archidium alternifolium* 1-17, (18), 20, (21), 22, 23, (24, 29, 30, 33, 34), 35-37, (38), 39-49, 51, 52, (54), 55, 57-60, (61), 62-79, 81-90, (91), 92, 93, 95-112. H1-3, 5, 8, 9, 12, 13, 16, 20, (21), 25-31, 34, 35, 38-40. C.
- M30.1 *Fissidens viridulus* 1-70, 72, 79-83, (85), 86, 87, 90, 94, 99-101, 103-105. H1-3, 5-12, 15, 19-24, 26-29, 31, (32), 33-35, (36, 37, 39). C.
- M30.2 *Fissidens crispus* 1-4, 6, 8-12, 14, 20, 22, 24, (35), 39-42, 44-50, 52, 57, 58, (59), 60, 61, 69, 70, (71), 73, 75, (83, 84), 98, 101-104. H(1), 2, 3, 15, (21), 27. C.
- M30.3 *Fissidens pusillus* 1-6, (7), 8-17, 19, (20), 22, (23), 24-27, 30, 32-42, (43), 44-52, 54, 56-73, (74), 75-90, (91), 92, 93, 96-98, (99), 100-108, (109). H1-9, 11, 13, (15, 16), 18-20, 22, 23, 26-30, 32-36, (38), 39.
- M30.4 *Fissidens gracilifolius* 3, 6-18, 20-24, 26-38, 40, 41, 44, 45, 49-51, 53-57, 60-65, 69, 70, 77, 80, 81, 83, 86, 88, (89), 101. H2, 6-9, 11, 14, 23, 24, 28-30, 33.

<sup>3</sup> *Seligeria trifaria* agg. is recorded from 35, 42, 57, 64, 65, (69), 89, 105, 108. H28, 29, 33.

- M30.5 *Fissidens incurvus* 1-47, 49-71, (75, 77), 81-84, (85), 90, 91, 100. H2, 3, 5, 7-9, 11, 12, 15, 18, (21), 24-26, 29, 31-33, (37, 38), 39, 40. (C).
- M30.6.a *Fissidens bryoides* var. *bryoides* 1-112, H1-17, 19-25, 27-40. C.
- M30.6.b *Fissidens bryoides* var. *caespitans* 1-6, 35, 41-50, 57, 59, 63, (64), 68, (69), 70, 71, 73, (86), 87, 88, 92, 96-105, 107-110, 112. H1-3, 5-7, 12, 16, 20, 27, 31, (34), 35, (38). (C).
- M30.7 *Fissidens rivularis* 1-6, 9, 14, 34-37, 40-46, 48, 57, 73, 86, 101. H2, 6. (C).
- M30.8 *Fissidens monguillonii* 2, 3, (4), 5, 44, 45, 49, 52, 73. H3, 25, 29, 30, (33), 40.
- M30.9 *Fissidens crassipes* 1-11, (12), 13-44, 47, 50-55, 57-70, (71), 72, 73, 75, 77, 78, 81-85, (86, 91), 93. H2, 3, 5-8, (9), 10-19, 21, 22, 25, 28-31, 33, 34, 36-40.
- M30.10 *Fissidens rufulus* 35-37, 39-44, 60, 62, 64-66, 68-70, 72, 77, 79-81, 88-90. H(6), 20, 33, 34, (38).
- M30.11 *Fissidens exilis* 1-6, (7), 8-50, (51), 52-72, (77), 78-84, 86, (88), 89, 90, 99, 101, 103, 111. H8, 11, 12, (19), 21, 22, 32, (38-40). (C).
- M30.12 *Fissidens celticus* 1-6, 10, 13-17, 34, 35, 37, 39-50, 52, 57, 58, 60, 64, 65, 69-75, 86, 97-99, 101-104. H1-5, 7-10, 12, 16, 25, 27, 36-38, 40.
- M30.13 *Fissidens curvatus* 1, 2, (3, 33), 41, 43, 44, (45), 48, 49. H(1).
- M30.14 *Fissidens osmundoides* 1-3, 5, 11, 35-37, 40-52, 57, (58), 59, 60, 62-80, (81), 82, 83, (85), 86-90, 92, 94-112. H1-4, 6-9, (10, 12), 14, 16, (18, 19), 20, (21, 24, 25), 27-31, (32), 33-40.
- M30.15.a *Fissidens taxifolius* var. *taxifolius* 1-112, H1-40. C.
- M30.15.b *Fissidens taxifolius* var. *pallidicaulis* 3, 4, 9, 11, 39, 41, 42, (44), 48, 49, 57, 60, 62, 63, 76, 88, 97-104, 106, 108, 112. H1, 7, 16, 27, 35, 40.
- M30.16 *Fissidens dubius* 1-26, (27), 28-112. H1-23, 25-40. C.
- M30.17 *Fissidens adianthoides* 1-20, (21), 22-112. H1-40. C.
- M30.18 *Fissidens serrulatus* 1, 3, 48. H1, 3, 27.
- M30.19 *Fissidens polyphyllus* 1-3, 5, 47-49, 98, 101, 102. H1-3, (4), 6, 20, (28).
- M30.20 *Fissidens fontanus* 2, 4, 7, 8, 17-24, 29-40, 45, 47, 50, 55-59, 62-64. H1, 2, 5, 16, 29, 30, 37.
- M31.1 *Pleuridium acuminatum* 1-28, (29), 30-60, (61), 62-72, (73), 74-84, (85), 86-94, (95), 96-98, (99), 100-104, (105), 106, 107, 111, 112. H1, 3, (4), 5, 7-12, (14), 16, 17, 19, 21, 22, 25, 27-33, (34), 35, (36), 37, 38, (39), 40. C.
- M31.2 *Pleuridium subulatum* 1-31, (32), 33-47, (48), 49-54, (55), 57-72, (73), 74-84, (85), 88-90, (91), 92-96, 98-101, 103-106, 108, 109, 111. H(1), 2-7, 9, 11-13, 21-23, 27, 28, 31, 32, 36, 38, (39), 40. C.
- M32.1 *Pseudephemerum nitidum* 1-84, (85), 86, 87, 89, 90, (91), 92-109, 111, 112. H1-10, 12, 13, (15), 16, 17, 19-22, 25-27, 29-40. C.
- M33.1 *Trichodon cylindricus* 1-112, H1-8, 10-14, (15), 16-20, 22, 23, 26-40. C.
- M34.1 *Ditrichum pusillum* 2, 3, 13, (14, 16), 17, 22, 37, 39, (46), 48, 49, 54, 58, (60, 62, 64), 76, 89, 90, 95, 97-99, 101, 104, 108, 109. H(5, 12, 32, 34, 38, 39).
- M34.2 *Ditrichum cornubicum* 1, 2. H3.
- M34.3 *Ditrichum lineare* 42-49, 69, 73, 88-94, 96-98, 103, 104, 110. H(28, 39).
- M34.4 *Ditrichum plumbicola* 1, 6, 44, 46, 47, 49, 50, 64, 65, 67, 69, 71, 77, 88. H10, 20, 21.
- M34.5 *Ditrichum heteromallum* 1-5, (6), 9-17, (19), 24, (27, 32), 34-52, 55, 57-60, (61), 62-112. H1-16, 18, 20, 21, 25-30, (31, 32), 33-40.
- M34.6 *Ditrichum zonatum* 41, 43, 44, 46-50, (68), 69, (70), 72, 73, 75, 77, 78, 87-90, 92, 94, 96-98, 100-106, 108, 110. H1, 16, 20, 27, 35, (38, 39).
- M34.7 *Ditrichum subulatum* 1-3, (15), 44, 45.

- M34.7B *Ditrichum pallidum* 13.
- M34.8 *Ditrichum flexicaule* 6, 8-13, (14), 17, 26, 32, 33, (35), 36, 39-42, (44), 47, (48), 49-52, (55), 56, 57, 59, 60, 62-65, (66), 69, 76, 82, 88-90, 92, 94, (98), 103, 108. H(10), 19, (27, 34, 39).
- M34.9 *Ditrichum gracile* 1, 3, 6, 8-14, 16, 17, 20, 22-24, (25), 26, 28, 29, 32-37, 39-47, (48), 49-54, 57, 59, 60, 62, 64-70, 72, 73, 75, 77, 78, 80-83, 87-94, 96-98, 100-106, 108-112. H1, 7-9, 11, 13-19, (21), 22-31, 33-36, 38-40. C.
- M35.1 *Saelania glaucescens* 90, 96.
- M36.1 *Distichium capillaceum* 1, 2, (35), 42, 44, 48, 49, (50), 57, 59, (60), 62-70, 72, (73), 75, (77), 80, 82, 83, (85), 86-98, (99), 100-112. H1, (9), 12, 16, 20, 27-29, 33-35, (39), 40.
- M36.2 *Distichium inclinatum* 1, 6, 41, 42, 44-46, 50, 52, 56-60, 62-64, (65, 66), 68, (69), 70, (72, 75), 82, (83), 85, 87-90, 93, 94, 97, 98, 101-105, 107-112. H2, 16, 26-29, 34, 35, 39, 40.
- M37.1 *Ceratodon purpureus* 1-112, H1-40. C.
- M37.2 *Ceratodon conicus* (22), 23, 32, (33), 34, 38, (53).
- M38.1 *Cheilothea chloropus* 3, 6.
- M39.1 *Bruchia vogesiaca* 2.
- M40.1 *Trematodon ambiguus* (88).
- M41.1 *Amphidium lapponicum* 42-44, 48, 49, (64), 65, (66), 68-70, 72, (73), 75, 78, 86-90, 92, 94, 96-98, (99), 103-108. H1, 27.
- M41.2 *Amphidium mougeotii* 1-5, 35, 36, (37), 40-50, 52, 57-60, 62-112. H1-4, 6-8, 10, 11, (13, 14), 16, 20, (21), 26-40.
- M42.1 *Rhabdoweisia fugax* 1-5, 35, (39, 40), 41-50, (63, 64), 65, 66, 68-73, (76), 80, 82, (85), 87-93, 96-101, 103-108, 112. H(1), 6, (7, 16), 20, (21, 31), 35, 38, (39), 40.
- M42.2 *Rhabdoweisia crispata* 1-4, 35, 40-50, 57, (59), 60, 64, 65, (66), 68-70, (71), 72, 73, (74), 75-79, 83-91, (92), 93, 96-101, 103-108, (109), 110, 112. H1, (2), 3, 5-8, 10, 12, 13, 16, 20, 27-29, (31, 33), 34, 35, (36), 38-40.
- M42.3 *Rhabdoweisia crenulata* 41-43, (44), 46-50, 58, 64, 66, 68-70, 72, 73, (74), 75, 76, 78-80, 86-88, 97-101, 103-105, 108, 110. H1-4, 6, 7, 16, 26-29, 33, 35, (36), 38, 40.
- M43.1 *Cynodontium bruntonii* 1-3, (4), 5, 6, (16), 34-37, 40-50, 52, 57, (58, 59, 62, 63), 64, 65, (66), 67-72, (73), 74, 75, (76), 77, (78), 80-83, (84), 85-92, 95-100, 105-109. H1, 4, (5), 6-8, 12, 13, 20, 29, 30, 35, (36, 39). C.
- M43.2 *Cynodontium strumiferum* 89, 90, 92, 93, 96, 104, 106.
- M43.3 *Cynodontium jenneri* 48, 49, 68-70, 72, (73), 75, 76, 78, 80-82, 86-93, 95-98, 101, 104, 105, 107, 108, 112. H35.
- M43.4 *Cynodontium polycarpon* 48, 68, (70), 90, 92, (96).
- M43.5 *Cynodontium fallax* (90).
- M43.6 *Cynodontium tenellum* 81, (87-89), 90-92, (95), 96, 108.
- M44.1 *Oncophorus virens* 69, 70, 86-90, 92, 96-98, (107), 108.
- M44.2 *Oncophorus wahlenbergii* 88, 89, (90), 92, 96-98, (99), 104-106.
- M45.1 *Dichodontium pellucidum* 1-6, 8-17, 21, 22, (27, 30), 32, (33), 34-54, (55), 57-60, 62-112. H1-16, (18), 20-22, 24-40.
- M45.2 *Dichodontium flavescens* 1, 2, 35, (37, 40), 41, 42, 44, 47, 48, (49, 50, 52), 57, (58, 59), 60, 62, 64, 65, 67-69, (70), 71-73, 75, 77, 78, 80, 85-92, 94-99, 101, 102, 104-106, 108. H1, 3, 6, 8, 10, 11, 16, 18, 20, (21), 27-29, 31, 35, 39, 40.
- M45.3 *Dichodontium palustre* 1-6, (14), 34-37, 39-52, 57-60, 62-112. H1-8, (9), 10, 12-16, 18, 20, 21, 25-40.

- M46.1 *Dicranoweisia cirrata* 1-110, 112. H1-9, 11-13, 20-22, 25, 28, 30-32, 34, 35, (36), 37-40. C.
- M46.2 *Dicranoweisia crispula* 49, 57, (65), 69, 70, (72, 73), 75, 86-90, (91), 92, 96-98, (99), 103-106, (107), 108.
- M47.1 *Arctoa fulvella* 48, 49, (65), 69, 70, 72, 73, 75, 77, 78, (86), 87, 88, (89), 90, 92, (94), 96-98, 100, 103-106, 108, 110. H1, 16, 27, 35.
- M47.2 *Arctoa anderssonii* 108.
- M48.1 *Kiaeria falcata* 49, (65, 66, 69, 70, 72, 78), 86-90, 92, 94, 96-99, 104-107, (108), 110. H35.
- M48.2 *Kiaeria blyttii* 45-50, 65, 68-70, 72, 73, 75, 77, 78, 80, 83, 85-100, 103-108, 110, 112. H6, 7, 12, 20, 27, 34, 35, 38, 40.
- M48.3 *Kiaeria starkei* (65), 69, 78, 86-90, 92, 94, 96-98, (103), 104-107, (108).
- M48.4 *Kiaeria glacialis* 88, 90, 92, 94, 96-98, 105-108.
- M49.1 *Glyphomitrium daviesii* (2, 3), 45, 48, 49, (52, 69), 70, 75, (86), 93, 97, 98, (99), 100, 102-105, 108, 110, 112. H1-3, 16, 27, 31, 35, (38), 39, 40.
- M50.1 *Schistostega pennata* 1-6, 9, 12, (13), 17, 28, (32), 34-50, 55-59, 62-65, 68, (69), 70, (76), 85, 86, 88, (97), 112. C.
- M51.1 *Aongstroemia longipes* 88, 89, 95, 96, 98, 99, 102, 106-108. H27.
- M52.1 *Dicranella schreberiana* 1-95, 97-99, 101, 102, 104-112. H1-40. C.
- M52.2 *Dicranella grevilleana* 88, 89, 92, 94, 97, 98, 106, 108. H28, 29.
- M52.3 *Dicranella crispa* 1, 2, (3, 13), 14, (15, 16), 17, (21, 25, 38, 39), 40, 43, 47, 48, 54, 55, (57, 58), 59, (62-64), 65, 66, 68, (69, 70), 71, (72, 76, 81, 85, 86), 88, (89), 90, (91), 94, 95, 97, 106, 107, 109, (111), 112. H1, (2, 5, 16), 28, 29, 34, (38), 39, (40).
- M52.4 *Dicranella subulata* (1), 2, 3, (4, 10, 17), 34, (35), 39, 41-50, 57, 58, (59), 60, 62, (63), 64, 65, (66), 67-69, 71-73, 75, 76, 78, 80-83, (85), 86-90, (91), 92-98, (99), 101, 104-106, 108-110, (111), 112. H1, (3), 5-8, 10, (12), 13, 16, 27, 34, 35, (36, 38, 39), 40.
- M52.5 *Dicranella varia* 1-112, H1-40. C.
- M52.6 *Dicranella staphylina* 1-99, 101-109, 111, 112. H2-40. C.
- M52.7 *Dicranella rufescens* 1-9, 11-20, 22, (23, 25, 27), 32, (33), 34-37, (38), 39-53, (55), 57-60, (61), 62-84, (85), 86-112. H1-10, 12, (14), 15, 16, 18, 20, (21), 26-30, (31), 32-40. (C).
- M52.8 *Dicranella cerviculata* (1-4), 5, (6), 8-13, (14), 15-22, (23, 24), 25, (26), 27-30, (31), 32, (33, 35), 37-40, (42, 43), 44, (45), 46, 48-50, (52), 54, (55), 56-65, (66), 67-70, 72-74, (76), 77, 78, 81-85, (86, 88, 89), 90, (92, 96), 97-99, 102, 104, (105), 107, 108, 111, 112. H(1), 2, (3-6), 13, (14, 16, 17), 18, 22, 23, (25), 26, 27, (28, 29), 30, (31-33), 34-37, (38, 39), 40.
- M52.9 *Dicranella heteromalla* 1-112, H1-40. C.
- M53.1 *Dicranum polysetum* 11-13, 17, 22, 25-28, 30, (31, 34, 38), 40, 52, 54, 55, 57-59, (61), 62-64, 69, 70, (73), 80, (85, 87-89), 90, 92, 95, 96, 106.
- M53.2 *Dicranum bonjeanii* 1-28, (30), 32-37, (38), 39-52, 54, 55, 57-112. H2, 3, 7-12, 14-20, 22, 23, 25-29, 31-35, (36), 37, (38), 39, 40. (C).
- M53.3 *Dicranum leioneuron* 40, 42, 46, 47, 67, 70, 88, 92.
- M53.4 *Dicranum scoparium* 1-112, H1-40. C.
- M53.5 *Dicranum majus* 1-18, (19), 20-28, (29), 30, (32), 33-37, (38), 39-52, (53), 54-112. H1-9, (10, 11), 12, (13), 14, 16, 18, 20-22, 25-31, 33-40. C.
- M53.6 *Dicranum spurium* (3), 5, 8, 9, 11-13, (14), 17, (22), 27, 28, (38), 54, (61), 62, (63, 64), 66, (68, 69, 72), 75, (85, 87), 88-90, (91), 92, 95, 96.
- M53.7 *Dicranum undulatum* 40, 46, 50, 58, (59, 68), 70, (80), 81, 88, 89, 92, 95, 96, 109. H18.

- M53.8 *Dicranum fuscescens* 1-3, (5), 11, 13, 14, 16, 17, 25, 26, 28, 31, 34-36, (37, 38), 39-51, 53, 57-60, (61), 62-70, 72-83, 85-112. H1-4, 6-10, 12, 13, 16, 20, (21), 25, (26), 27-30, 33-35, (36), 38-40.
- M53.9 *Dicranum flexicaule* (66), 68, (88), 89, 90, 92, (94), 96-98, 105-108, (109, 110), 112.
- M53.9A *Dicranum spadiceum* 92.
- M53.10 *Dicranum elongatum* (68, 90), 92, (96, 97, 105, 109, 112).
- M53.11 *Dicranum scottianum* 1-5, 14, 16, 34, 35, (36, 39), 40, 41, (44), 45-50, 52, (58, 62), 67, 68, 70, 73, 75, 80, 86, (87), 88-90, (92), 97-105, 108, 110, (111), 112. H1-4, (5), 6-9, 16, 20, 25-30, 33-36, (38). C.
- M53.12 *Dicranum tauricum* 3, 6-9, 11-41, 47, 50, 51, 53-70, 75-78, 81-86, 88, 94-96, 99, 106.
- M53.13 *Dicranum montanum* 6-8, 10-32, 34-44, 47, 48, 50, 53-58, 60, 62-67, (68), 69, 70, 77, 80, 81, 83, 88-90, 94, 95, (96), 99, 107.
- M53.14 *Dicranum flagellare* 3, 12-17, 19-23, 30, (38), 39, 41, 42, 47, 54, 64, 73.
- M53A.1 *Dicranoloma menziesii* H1<sup>†</sup>.
- M54.1 *Paraleucobryum longifolium* 88, 90, 92, 94, 96, 107, 108.
- M55.1 *Dicranodontium uncinatum* (69), 70, 73, 75, (86), 87, (88), 92, (94), 96-98, (99), 102, 104-108, 110. H1, 2, 16, (20), 27.
- M55.2 *Dicranodontium asperulum* 49, 67, 69, 80, 86, 87, (88), 90, 92, 94, 96-98, (99), 102, 104-108. H29, 30, 33.
- M55.3 *Dicranodontium denudatum* 2, (3), 11, 13, 14, 34, 39, 41-50, 57-60, 62-67, 69, 70, 72, 73, 75-84, 86-90, (91), 92, 96-108, 110, 112. H1-3, 6, (14), 16, (20, 21), 27, 28, 30, 33-35, (36, 39), 40.
- M56.1 *Campylopus subporodictyon* 97, 104, 105.
- M56.2 *Campylopus subulatus* 2, 4, (11), 14, 17, (36), 40-49, 64, 66, 69, 70, 72, 73, 75, (88, 89), 90, 91, 94, 95, (96), 97, 98, (99), 101-105, 108, 110, (111). H(2), 3, 14, 20, 27, (29), 31, (34), 35, 36, 39, 40. C.
- M56.3 *Campylopus schimperi* (86, 87), 88, (89), 90, 96-98, (99), 100, 103-106, 108, 110, (111), 112. H(1), 35.
- M56.4 *Campylopus gracilis* 46-49, (69), 70, 73, (86), 87, 88, 90, 96-98, (99), 100, 101, 103-108, 110, 111. H1-4, 7, 8, 16, (20), 27, 28, (30, 34), 35, (36).
- M56.5 *Campylopus fragilis* 1-6, 9-11, 13, 14, (15), 16, (23), 25, 26, (27), 28, 29, 31, (33), 34-37, 40-52, 57-60, 62, 64-75, 78-83, 85-92, 94-112. H1-11, 13, 15, 16, 18, 20, 23, 25, 27-31, 33-40. C.
- M56.6 *Campylopus pyriformis* 1-50, (51), 52-112. H1-13, (14), 15-30, (31), 32-40. C.
- M56.7 *Campylopus flexuosus* 1-112, H1-14, 16-20, (21), 22-40. C.
- M56.8 *Campylopus setifolius* 48, 49, (69), 70, 73, 97, 98, 100, 102-105, 108, 110. H1-3, 7, (15), 16, (20), 27, 28, 31, 34, 35, 38.
- M56.9 *Campylopus shawii* (97), 103-105, 108, 110. H1-3, (27).
- M56.10.a *Campylopus atrovirens* var. *atrovirens* 1-4, 40-50, 52, (57), 60, 62, 64-67, 69-79, (85), 86-90, 92-112. H1-4, 6-9, 12, (14), 15-17, 20, (21), 24-31, 33-40.
- M56.10.b *Campylopus atrovirens* var. *falcatus* 48, (69, 75), 100, 102-105, 108, 110, 112. H1, 3, 16, 27, 28, (35), 39.
- M56.11 *Campylopus pilifer* 1-3, 45, 48, 49, 102, 104. H1-3, 16, 20, 27. C.
- M56.12 *Campylopus introflexus* 1-112, H1-40. C.
- M56.13 *Campylopus brevipilus* 1-5, (6, 7), 8-14, (15), 17, 22, (24, 25, 27), 28, (34), 41, 45, 46, 48, 49, 52, (58, 60, 61), 62, (67), 69-72, (73, 81, 87), 88, (89), 90, (91), 92, 93, 96-98, 100-112. H1-3, 5, (7, 8), 9, (10, 12, 15), 16-20, (21), 25-29, (31), 33-35, 38, 39. C.



- M57.1 *Leucobryum glaucum* 1-6, (7), 8-30, (32), 34-55, 57-84, 86-112. H1-20, 22-40. (C).
- M57.2 *Leucobryum juniperoideum* 1-25, 27, 28, 30, 34, 35, 37, 39-49, 55, 57, 58, 60, 63-65, 69, 70, 72, 86, 97-99, 101-103, 105. H1-3, 6, 11, 13, 16, 20, 38. C.
- M58.1 *Scopelophila cataractae* 1-4, 41, 44, 46, 49, 71. H3, 12.
- M59.1 *Eucladium verticillatum* 1-17, 19, 20, 22-29, (30), 32-47, (48), 49-54, (55), 56-91, 93-95, 97-112. H1-14, 16-25, (26), 27-31, 33-40. C.
- M60.1.a *Weissia controversa* var. *controversa* 1-112, H1-14, (15), 16-40. C.
- M60.1.b *Weissia controversa* var. *crispata* 1, (3), 6, 8-11, 13, 14, 17, 28, 33, 37, 40-42, 44, 45, 47, 49, 50, 52, 57, 60, (64), 69, 75, (80, 81, 83). H7-9, 11, (18), 20, 38, 39.
- M60.1.c *Weissia controversa* var. *densifolia* 1-6, (36), 41, 44-47, (48), 49-51, (60), 64, 65, 67, 70, 71, (81, 84, 87). H1-3, 9, 10, 18, 20, 27, 33, 34.
- M60.1.d *Weissia controversa* var. *wimmeriana* (96).
- M60.2 *Weissia perssonii* 1-4, 6, (36), 41, 44-46, 48, 49, 52, 69, 71, 73-75, 98, 100-108, 110-112. H1-6, 9, 16, 17, 27, 28, (34), 35, (38), 39. C.
- M60.3 *Weissia rutilans* 1-4, (5), 6, (7), 9, 10, (11), 12-19, (20), 22, (23), 34-37, (38), 39-50, 52, (57), 58, (59), 60, (61, 62), 63, (64), 65-67, (68, 69), 71-73, 75, (77), 78, 79, 81-85, 88, 90, 92, 96-98, 101, 104, 105, 107-109, 111. H8, 9, (35, 38), 39, 40. (C).
- M60.4 *Weissia condensa* 3, 6, 9-11, 13-16, (17), 33, (81). H5.
- M60.5.a *Weissia brachycarpa* var. *brachycarpa* 1-3, 5, 6, 8-11, 13, 14, (15), 20-22, (23), 24, 31, (32), 36-38, 44-46, 50, 53, 54, 57, 59, (61), 62-64, 66, 76, 77, 81-85, 88, 98, 109. H12, 33.
- M60.5.b *Weissia brachycarpa* var. *obliqua* 1-4, (5), 6, (7), 8-20, (21), 22-30, 32-37, (38), 39-41, 43-47, (48), 49, 51-61, (62), 63-75, (76), 77, 79-85, (86), 88-94, 96-98, (99), 102-105, 107-112. H(1), 2, 4, 5, 8, 11, 12, 15, 16, 18, (21), 22-28, (31, 34), 35, 37-40. C.
- M60.6 *Weissia squarrosa* (3), 10, (13-16), 17, 22, 24, 29, 31, (32), 33-35, 37-40, 44, 45, 53, (55), 56, (57-60, 62, 64, 69, 85).
- M60.7 *Weissia rostellata* 3-5, 9, 13, 14, (15, 17, 22, 24), 29, 35-37, (38), 40, 44-46, 52, (55), 56-58, 61, 63, 64, 67, 83. H16, 26, 29, 30, 39, 40.
- M60.8 *Weissia mittenii* (13, 14, 17).
- M60.9 *Weissia multicapsularis* 1-3, (13, 14, 17), 23, 35, (58).
- M60.10 *Weissia sterilis* (3), 8-17, 20, 22, 24, 29, 30, 33, (37).
- M60.11 *Weissia levieri* 3, 6, 41, 47.
- M60.12.a *Weissia longifolia* var. *longifolia* 1-3, 5-9, 13-15, (16), 17-33, (34), 35-37, (38), 41, 44, 45, 47, 49, 50, 52-57, 62, 65, 66, 81, 82, 99.
- M60.12.b *Weissia longifolia* var. *angustifolia* 1-3, 5, 6, (7), 8-17, 19-24, (25, 26), 28-34, 37, (38, 39), 40, 41, (43), 44, 45, 49-51, 53-55, 57, (58), 61, (62), 63, 64, (65), 66, (67). H11, 19, (21), 23, (35, 38, 39).
- M61.1 *Tortella tortuosa* 2-14, 16, 17, 20, 22-25, 29, (30), 32-37, (38), 39-54, (55), 56-60, 62-73, (74), 75-83, (85), 86-112. H1-31, (32), 33-40. C.
- M61.2 *Tortella fasciculata* 33, 35-37, 40-50, 52, 57, 63-65, 69, 70, 72, 74-76, 86-89, 92, 94, 96-98, 100, 103-105, 109. H1, 3, 6-9, 16, 29.
- M61.2A *Tortella pseudofragilis* 88, 89.
- M61.3 *Tortella densa* 33, 49, 50, 60, 64-66, 69, (71), 72, 77, 97, 98, 104, 105, 108, 110-112. H7, 9, 16, 17, 26-28, 33.
- M61.4 *Tortella fragilis* 85, 88, (90), 94, 107-110.

- M61.5 *Tortella nitida* 1-9, 13, 14, (20), 34-36, 39, 41-46, 48-52, 55†, 57, 60, (64), 69, 71, (73), 75, 86-88, 98, 100-103. H(1), 2, 3, 5, 7-10, 15-18, 22-24, 27, 28, 33, 35. C.
- M61.6 *Tortella inflexa* 6-17, 20, 22-24, 29, (30), 32-34, 61.
- M61.7 *Tortella inclinata* 17, (23, 28), 29, 33, 41, 44, (45), 48, 52, (53, 55), 59, 60, 65, (66), 69, 70, 75, 82, 84, (85), 91, 95, 100, 102, 106-109. H27, 38.
- M61.8 *Tortella limosella* (97).
- M61.9 *Tortella flavovirens* 1-6, 9-11, 13-15, 18, 19, 25, 27, 28, 34, 35, 41, 44-46, 48, 49, (50), 52, 54, 58-61, 66-71, 73-76, 81-85, 89-91, 93-95, 97, 98, 100-112. H1-6, 8, 9, 11, 12, 16, (17), 20-22, 27, 28, 31, 34, 35, (37), 38-40. C.
- M62.1 *Trichostomum brachydontium* 1-6, 8-16, (17), 20, 26, 29, 32-37, 39-54, (55), 56-79, (80), 81, 82, 84-112. H1-12, (14), 16, 17, 21, 23-31, 33-36, 38-40. C.
- M62.2 *Trichostomum crispulum* 1-17, 20, 22-24, 26, 28-30, 32-37, (38), 39-54, (55), 56-76, 79-83, 85-112. H1-11, (12), 14-40. C.
- M62.3 *Trichostomum tenuirostre* 1-5, 13, 14, 34-37, 39-52, 57, 59, 60, (62), 63-73, (74), 75-81, (85), 86-108, 110. H1-3, 6-9, 16, 20-22, 26-28, 31, 33-35, (36), 38-40.
- M62.3.a *Trichostomum tenuirostre* var. *tenuirostre* 35, 44, 46, 48, 52, 64, 72, 77, 80, 81, 87, 104.
- M62.3.b *Trichostomum tenuirostre* var. *holtii* 3, 14, 42, 44, 46-48, 50, 51, 57, 59, 63, 64, 69, 71-73, 78, 80, 88, 97, 98, 105. H1, 2, 8, 27, 38.
- M62.3A *Oxystegus daldinianus* 44, 46-49, 69, 70, 72, 75, 76, 78, 87, 97, 98, 104-106, 108, 110. H1, 3, 6, 20, 27.
- M62.4 *Trichostomum hibernicum* 49, 72, 73, 75, (86), 87-89, 96-98, (99), 100, 101, 103-106, 108, 110. H1-3, (5), 16, 27, 28, 35.
- M63.1 *Pottiopsis caespitosa* 1, 6, 8-14, (15, 16), 17, 22-24, 29, 36, 40, 49.
- M64.1 *Pleurochaete squarrosa* 1-6, 8-11, 13-17, 22, (23), 26, 28, 33, 34, (36), 39-41, 44, 45, 47, 49-52, 57, 60, 64, 69. H9, 12, (20), 21, 22, 31. C.
- M65.1.a *Hymenostylium recurvirostrum* var. *recurvirostrum* 1, 6, 40, (41), 42-45, 48-50, (51), 52, (57), 59, 60, 62, 64-72, 75, (76), 77, 78, 80-82, 84, (85), 86-91, 94-112. H2-4, 9, 15, 16, 20, 21, 26-30, 33-35, (36, 38, 39).
- M65.1.b *Hymenostylium recurvirostrum* var. *insigne* 87, 88, 97, 98, 103-105, 108. H28, 29.
- M66.1 *Anoetangium aestivum* (39), 41, 42, 44, 46-50, 57, 59, (62), 64-67, 69, 70, 72, 73, 75, 76, 78-80, 83, (85), 86-92, 95-108, 110. H1-3, 6-9, 16, (20), 27-29, (31), 33-35, (38), 39.
- M67.1 *Gyroweisia tenuis* 1-47, 49-72, (73, 74), 75-78, 80-91, 93-102, 104, 106-108, 110, 112. H(1), 3-6, 8-11, 14-16, 19, 20, (21), 25-27, (28), 29-33, (34), 35-40.
- M67.2 *Gyroweisia reflexa* (38).
- M68.1 *Gymnostomum viridulum* 1-4, 6, 9-12, 14, 21, 34-36, 41, 42, 44, 45, 49, 63, 64. H1-7, 11, 12, 14, 19, 25, 32, 35. C.
- M68.2 *Gymnostomum calcareum* 3, 6, 32, 34-36, (37), 39, 41, 42, 44, 45, (50), 56-58, (60), 63-65, (69), 73, 88-90, 92, 97, 98, 101, 102, 104, 105, 108. H(2), 9, 11, 15, (16), 26-29, 33-36, 39. C.
- M68.3 *Gymnostomum aeruginosum* 1-4, (5), 6, 13, 35, 36, 39-50, 52, 57, (58), 59, 60, 62-112. H1-3, 6-9, 16, 17, 20, (21), 22, 23, 25-31, 33-35, (36, 37), 38-40.
- M69.1 *Molendoa warburgii* 48, 49, 86-90, (91), 92, 96-101, 103-108, 110, 112. H27, 34.
- M70.1 *Leptobarbula berica* 1, 6, 8-19, 21, 24-29, 33-35, 40, 44, 45, 55, 57, 61-64. H11, 16.
- M71.1 *Micromitrium tenerum* 4, 13, 14, (16, 17), 52.
- M72.1 *Ephemerum recurvifolium* (3), 5-9, (10), 11-17, 19, 20, 22-38, 40, 41, 45, 49, 53-55, 57, (66). H20.

- M72.2 *Ephemerum sessile* 1-6, (7), 8, 12-14, 16, 17, (24), 26, 34, 35, 41-45, 52, 57, 58, 63, 64, 67.  
H7, 12, 16, 24, 27, 30, 39.
- M72.3 *Ephemerum hibernicum* 35, 44. H9, 18, 25-27, 29, 30.
- M72.4 *Ephemerum cohaerens* 13, 20, 29, 32, 37, 47, 55. H(15), 17, 19, 24, 29.
- M72.5 *Ephemerum spinulosum* H26, 39.
- M72.6 *Ephemerum serratum* 1-6, 10, (11), 12-14, 17, 19, 20, 22, (23), 24, 35-37, 40-49, 52, 55, 57-59, 62-64, 66-70, 73, 75-83, (84, 86), 87, 88, 90, 92, 96-98, (99), 100, 101, 103-105, 109, 110, 112. H(1), 3, 12, 13, 20, 22, 24, 26, 27, 29, 30, 34, 35, 38.
- M72.7 *Ephemerum minutissimum* 1-60, (61), 62-68, 70, 72, 73, (74), 75-78, 80-83, 85-87, 89-94, 98, (99), 101, 106-112. H3-8, 10-14, 19, 21-23, 26, 27, 31-34, (36), 37-40.
- M73.1 *Paraleptodontium recurvifolium* 48, 49, (69), 70, (86), 87, 88, 92, 94, 96-98, (99), 104-108, 110. H1-3, 16, 27, 35.
- M74.1 *Dialytrichia mucronata* 1-26, 28-47, 52, (54), 55, 57, 59, 64, 66. H9, 10.
- M74.2 *Dialytrichia saxicola* 2, 3, 6-9, 11, 17, 21-24, 33, 34, (49).
- M75.1 *Pseudocrossidium hornsouchianum* 1-99, (100), 101-112. H1-13, 15-29, (30), 31-36, (37), 38-40. C.
- M75.2 *Pseudocrossidium revolutum* 1-78, (79), 80-98, (99), 100-104, 106, 108-111. H1-40. C.
- M76.1 *Bryoerythrophyllum recurvirostrum* 1-112, H1-40. C.
- M76.2 *Bryoerythrophyllum ferruginascens* 1-3, 5-7, 34-36, 39-50, 52, 57-60, 64-70, 72-74, 77, 78, 80, 81, 83, 86-92, 94, 96-99, (100), 101-106, 108, 110, 111. H1, 2, 7-10, 13, 14, 16, 20, 25-29, 31, 32, 34-36, 39, 40.
- M76.3 *Bryoerythrophyllum caledonicum* 88, 97, 98, 104.
- M77.1 *Leptodontium flexifolium* 1-6, 11, 12, (13), 14, 16, 17, 20-22, (24), 26-28, (30, 32), 34, 35, (36), 37, (38), 39-52, 55, 57-60, 62-84, 86-93, (96), 97-106, 108, 110. H1, 3, 6, 8, 10, 12, 13, 20, (21), 27-29, (30), 33, 37, (39).
- M77.2 *Leptodontium gemmascens* 1, 3-5, 7, 9, 10, (11), 13, 14, (16, 17), 20, 21, 23-26, (33), 34, (36), 41, 63.
- M77.3 *Leptodontium proliferum* 59.
- M78.1 *Barbula convoluta* 1-112, H1-40. C.
- M78.1.a *Barbula convoluta* var. *convoluta* 1-112, H1-13, 15-40. C.
- M78.1.b *Barbula convoluta* var. *sardoa* 1-47, 49-77, 81, 83-88, 90, 91, 93, 96, 98, 100-104, 106, 110, 112. H1-13, 15-25, 27-29, 31-40. C.
- M78.2 *Barbula unguiculata* 1-112, H1-40. C.
- M79.1 *Didymodon acutus* 6, 11.
- M79.2 *Didymodon icmadophilus* 1-3, (4), 6-10, 12-14, 16, 17, 20, 22-25, 29-31, 33, 34, 36, 37, 39-41, 44, 45, 47, 49, 50, 52, 53, (54), 57-61, 63, 64, 69, 70, 80, 88-90, (93), 94, 104, 108. H6, (8), 9, 28, 31. (C).
- M79.3 *Didymodon rigidulus* 1-98, (99), 100-112. H1-40. C.
- M79.4 *Didymodon nicholsonii* 1-60, 62-70, 76, 77, (80), 81, 94, 100, 111. H2-13, 15-17, 19-21, 23, 26-31, 33, 39. C.
- M79.5 *Didymodon glaucus* 7, (13, 65).
- M79.6 *Didymodon umbrosus* 1, 6, 8-15, 17-33, 35, 39-41, 45, 53, 54, 56, 57, 59, 62, 64. H11, 21.
- M79.6A *Didymodon australasiae* 1, 44.

- M79.7 *Didymodon vinealis* 1-6, (7), 8-38, (39), 40, 42-70, 73, (78), 81-84, (85, 86), 89, 92, 93, 96, (99), 100, (101), 106, (108), 110, 112. H2-5, (6), 7, 9, 11, 12, (14), 16, 17, (18), 19-21, 23, 24, 26, 27, (28), 33, 35-37, (38, 39), 40. C.
- M79.8 *Didymodon insulanus* 1-112, H1-40. C.
- M79.9 *Didymodon luridus* 1-72, 74-78, 80-85, 91, 93, (94), 100, 111, 112. H(1), 2-7, (8), 9-12, (13), 14, 16-19, 21-27, 29, 31, 33, (34, 35), 38, (39). C.
- M79.10 *Didymodon cordatus* 4.
- M79.11 *Didymodon sinuosus* 1-67, (68), 69-72, 75-77, 79-85, 88, 93, 97, 98, 103, 105, 108, 109, 112. H1-13, 15, (16), 18, 19, 21-29, (30), 31, (32), 33, 35, (36), 37, (38), 39. C.
- M79.12 *Didymodon tophaceus* 1-72, (73), 74-85, (86), 87-91, 93-98, (99), 100-106, (107), 108-112. H1-12, (14), 15, 16, 18-31, 33-40. C.
- M79.13 *Didymodon spadiceus* (3), 4, 6, (14), 16, 34-37, 40-45, 47, 48, 50, 51, (52), 54, 57, 59, 60, 62-72, (73), 75-83, 85, (86), 87-90, (91, 92), 93-96, (97), 98-109, (110), 111, 112. H(1), 4-6, (7, 9), 10, (11, 14), 15, 18, (19), 20, 23, (25), 27-30, 33, 35, (36, 38), 39, (40).
- M79.14 *Didymodon fallax* 1-73, 75-112. H1-13, (14), 15-40. C.
- M79.15 *Didymodon tomaculosus* 1-4, 40, 45, 56, 57, 63, 64. H4, 13, 18, 19, 21.
- M79.16 *Didymodon ferrugineus* 1, 2, (3), 4, 6, (12), 13, (14, 15), 16, 17, (20), 22, (23), 24, (27), 28, (30), 32-37, 39-46, 48, 50, (51), 52, 53, 57-60, 62-70, (72), 75, 77, 80, 82, 83, 87-90, 92, 94, 95, 97, 98, 101-108, (109), 110, 111. H(2, 3), 4, 5, 7-13, (15), 16-20, (21), 22-31, 33-36, (38), 39, 40.
- M79.17 *Didymodon maximus* H28, 29.
- M80.1 *Stegonia latifolia* (88), 89, (90), 92, 94.
- M81.1 *Pterygoneurum ovatum* (3), 6, 8-10, (13), 14-19, (20), 22, 23, (24), 25, 26, 28-30, (31), 32, (33, 34, 36-38), 40, (50, 52), 53-55, (57-59, 61-64, 66), 67, 68, (72, 77), 79, 81, (82), 83, (85), 90, 94, (96), 106. H(4, 21).
- M81.2 *Pterygoneurum lamellatum* (3, 6, 13, 16, 23, 24), 28, 29, (32, 33, 37, 55, 57, 62-64, 86). H(21, 38).
- M81.3 *Pterygoneurum papillosum* 5, 6, 9, 14, 23.
- M82.1 *Aloina brevirostris* 9, (11), 17, 19, 20, (22), 29, 54, 55, (57), 58, 61-66, 84.
- M82.2 *Aloina rigida* 8, (11, 13), 14, 15, (16, 17), 20, 21, (22, 23), 24, 26, 28, 29, 32, 33, (34, 35, 37), 43, (48, 50), 51, 53, (54), 55, (57-59), 61, (62), 63, (64), 65-67, 69, (77, 82), 83, (85), 89, 94, 95, (96), 99, 106. H19, (21, 38, 39).
- M82.3 *Aloina aloides* 1-29, (30), 31-71, (72), 75, 76, 80-87, 90, 94, 98, 100, 101, 106. H1-13, (14), 15, 17, (18), 19-26, 28, 29, 31, (32), 33, 35, (36), 37-40. C.
- M82.4 *Aloina ambigua* 1-3, 5, 6, (7), 8, 9, (11), 12, (13), 14, 15, 17-26, (27), 28-32, (33, 34), 35, (36), 40, (41), 44, 45, 48-50, (52), 54, 55, 57, (58), 59, (60, 62), 63, 64, 66, (68, 69). H(2), 5, (6), 9, (21, 31, 38, 39). C.
- M82A.1 *Crossidium squamiferum* 10.
- M83.1 *Tortula subulata* (1), 3-30, (32), 33-72, (73), 74-112. H(1), 4, (5), 8, (9, 11-14, 16, 20), 21, 22, (25), 26, (27), 28, 29, (30, 33), 35, (36-38), 39, 40.
- M83.1A *Tortula inermis* 94.
- M83.2 *Tortula schimperi* 5, (11), 13, 19, 20, 24-29, 31-33, (34, 57), 68.
- M83.3 *Tortula cuneifolia* 1-6, (11, 13-15, 17, 19, 22, 25, 36, 37, 39, 45), 48, 49, (52). H(1), 3, (5), 8, (12, 14, 21, 38). C.
- M83.4 *Tortula freibergii* 14, 39, 40, 58, 59, 62, 84, 85, 100.
- M83.5 *Tortula solmsii* 1, 3.

- M83.6 *Tortula marginata* 1-30, 32-41, 45, 47, 50, 51, 53, 55-59, 61-64, (65, 66), 69, 70, 72, 81, 98, 99. H5, 13, (15), 16, (17), 23, 26, 27, 29, (36, 38, 39). (C).
- M83.7 *Tortula vahliana* 3-5, 15, (16), 19, 25, 28, 29, (33, 34, 36). H(21).
- M83.8 *Tortula canescens* 1-4, (14, 43, 45), 47, 48, 101. H5. (C).
- M83.9 *Tortula muralis* 1-112, H1-40. C.
- M83.10 *Tortula leucostoma* 89, 92.
- M83.11 *Tortula cernua* (56), 57, 58, 63, (64).
- M83.12 *Tortula atrovirens* 1-5, 9, (10, 13), 14, 15, (36, 38), 41, (44), 45, 46, 48, 49, 52, (68), 71, (73), 74, 81, 82, (85), 90, 91, (94, 99), 106, 109. H(1), 4-6, 8, 12, (20), 21, 35, (38, 39). C.
- M83.13 *Tortula amplexa* 19, 33, 37, 40, 55-58.
- M83.14 *Tortula lanceola* 1, (2), 3-6, (7), 8-17, 19, 20, (21), 22-30, 32-37, (38), 39-42, 44, 45, 47, 49-55, 57, (58), 60, (61), 62-64, (65), 66-68, (69), 70, (75), 80-83, (84, 85), 88-90, 92, 94, 95, (99, 100), 106. H(4-6, 19), 21, 22, (38).
- M83.15 *Tortula wilsonii* 1-4, (5), 6, 9, 11, (13, 14, 19, 27, 40, 44), 45, 48, (49, 50, 52, 58). H(3, 5, 20, 21). (C).
- M83.16 *Tortula viridifolia* 1-6, 9-11, (13, 25), 41, 43-46, 48, 49, 52, 54, (68), 71, (73, 74), 75, (77), 81, 85, 90, 91, (92), 93, 94, 101, 106, (108), 109-112. H1-6, 9, 12, 20, 21, 35, (38), 39, (40). C.
- M83.17 *Tortula modica* 1-13, (14), 15-65, (66), 67-69, (71, 73, 75, 76, 81), 82, 83, (85, 88), 89-92, (95, 99), 101, (104), 105, 106. H(1, 4), 5, 7, 9-13, 16, (18), 19, (20), 21, (26), 27, 31, (33, 37-39). C.
- M83.18 *Tortula truncata* 1-98, (99), 101-112. H1-40. C.
- M83.19 *Tortula protobryoides* 1, 3, (4), 5-14, (16), 17-34, 36, 37, 39-41, 45, 47, 49-54, (55), 56-59, (60), 61-64, 66, (67, 68), 69, 82, (85, 90, 109), 111. H(39).
- M84.1.a *Phascum cuspidatum* var. *cuspidatum* 1-72, 74, 75, 77-86, 88-95, (96, 99), 100, 101, 106, 109-111. H1-23, (24), 25-29, 31, (32, 33), 34, 35, 37-39, (40). C.
- M84.1.b *Phascum cuspidatum* var. *piliferum* 1, 2, (3, 5), 9-11, 13, (14), 15, (16), 18, 19, 25, 27-29, 33-35, 41, 45, 49, 60, 66, (67, 68), 81-83, (84, 89), 90, 91, 109. H12. C.
- M84.1.c *Phascum cuspidatum* var. *schreberianum* 6, 11, 13, 14, (17), 20-22, 24-30, 32-34, 37, 40, 53, 58, 62, (66).
- M84.1.d *Phascum cuspidatum* var. *papillosum* 1, 2, 25-28, 39, (48), 56, 57. H38, (39). C.
- M85.1 *Microbryum starckeanum* 1-4, 6, 8-12, (13), 14, (17, 19), 23, 27, 34, 40, 41, 44, 45, 47, 49-52, (56), 57, (59), 68, (90), 101, 102. H(5, 21, 33). C.
- M85.2.a *Microbryum davallianum* var. *davallianum* 1-20, (21), 22-41, 44-46, 49-53, (54), 55-57, (58, 59), 60-67, 69, (75, 77), 80-84, (85), 86, (90), 101, 111. H1, 2, 5, 8-11, 13-15, 19-22, 24, (28), 31, 33, 34, 38, 39, (40). C.
- M85.2.b *Microbryum davallianum* var. *commutatum* 1-4, 9, 10, 13-15, (17), 45, 49, 66.
- M85.3 *Microbryum rectum* 1-6, (7), 8-17, 19, 20, 22-30, 32-37, 40, 41, 44-47, 49-52, 54-57, (59, 60), 61-64, (65), 69, 71, (75, 81, 83), 101, 111. H1, 3-5, 7-9, 11-16, 19, (21), 22, 23, 26, (28), 31, (34). (C).
- M85.4 *Microbryum curvicollum* 1, 3, (4, 5), 6-17, 19, 20, 22-24, 26, (27), 28-30, 32-38, 40, 49-55, 57, (61), 63, 64, (65), 66, (68, 69), 81, (90), 92, (94), 106. H(21).
- M85.5 *Microbryum floerkeanum* 1, 6-17, 19, 20, 22, (23), 24-26, (27), 28-30, 33-35, 38, (49), 51, 53, 54, 56, 57, (58), 61-64, (66).
- M86.1 *Hennediella stanfordensis* 1, 4, 14, 15, 25, 26, 29, 31, 33-40, 42, 43, 47, 50, 56, 58, 62-64, 66, 82, 83. H21.

- M86.2 **Hennediella macrophylla** 3, 10, 11, 13-22, 24-26, 28, 29, 31, 32, 38, 53, 54, 57, 68, 78-81, 83, 92-94.
- M86.3 **Hennediella heimii** 1-3, (4), 5, 6, 9-11, 13-21, 24, 25, 27-30, 32, (34), 35, 37, (38), 41, 44-49, (50), 51-54, 56, 58-63, (64, 65), 66-75, 81, 82, (83), 84, 85, 90, 91, (92), 93-98, (99), 100-112. H2-4, (5), 6, 8, 9, 11, 12, 15-17, (20), 21, 27-29, 31, 34, 35, 38, 39, (40). C.
- M87.1 **Acaulon muticum** 1-9, (10), 11-16, (17), 18-20, (21), 22-27, 29, (30), 31-33, 35-37, (38, 39), 40, 41, 43, 45-47, (48), 50, 52, (54), 55-58, (59-66), 67, 68, (69, 71), 72, (73), 81, (83, 85), 87-90, (91), 92, (95), 106. H(1, 4, 21, 34, 39, 40). C.
- M87.2 **Acaulon mediterraneum** 1, 2, (3, 5), 17, 57.
- M87.3 **Acaulon triquetrum** (3), 9, 10, 14.
- M88.1 **Leptophascum leptophyllum** 1, 10, 36.
- M89.1.a **Syntrichia ruralis var. ruralis** 1-73, 75, 77-86, 88-96, 98, (100), 101-104, 106, 108-112. H(1), 2-14, (15), 16-31, 33-40. C.
- M89.1.b **Syntrichia ruralis var. ruraliformis** 1-6, (8), 9-20, 22, (23), 24-29, 31, 32, 34, 35, 37, 40, 41, 43-62, 66-71, 73-75, 81, 82, (83), 84-86, 90-112. H1-3, 5, 6, 8, 9, 12, 16, (19), 20-22, 27, 28, 31, (33), 34, 35, 38-40. C.
- M89.1.c **Syntrichia ruralis var. epilosa** 24, 25.
- M89.2 **Syntrichia norvegica** 88, (92), 97, 98.
- M89.3.a **Syntrichia montana var. calva** 33, 41.
- M89.3.b **Syntrichia montana var. montana** 1-73, 75, 77, (78), 79-96, 98, 100-104, 106-109, 111, 112. H1-11, (12), 13-34, (35), 38-40. C.
- M89.4 **Syntrichia princeps** 40, 49, 57, (65, 75-77), 81, 83, 85, 86, (87), 88, (89, 90, 92), 96, 98, (99), 101, 106-108. H28, 39, (40).
- M89.5 **Syntrichia virescens** 3, 6-8, 11-14, 16-41, 43-47, 50, 53-58, 61, 63-67, 81, 82, 89-94, 106. H21.
- M89.6 **Syntrichia laevipila** 1-72, (73), 74-83, 85-91, 93-99, (101), 102-107, (109, 110). H(1, 2), 3-12, 14, 15, 18-23, 25, 27-31, 33-35, (36), 37-40. C.
- M89.7 **Syntrichia papillosa** 1-29, (30), 31-37, (38), 40-51, 53, 54, (55), 56-75, 78-83, 85, 86, 88-91, (92), 93-98, (99), 100, 101, 103, 105-107. H(1), 2-13, 15, 17-25, 27-29, 31-34, 36, 38-40. C.
- M89.8 **Syntrichia latifolia** 1-88, (89), 90-93, 106. H2, 4-8, 11-14, 18, 19, (20), 21, 22, 29, 31, 33, 36-39, (40). C.
- M90.1 **Cinclidotus fontinaloides** 1-11, 13, (14), 15-17, 19-27, 29-52, 54-60, (61), 62-72, (73), 74-84, (85), 86-91, (92), 93, 94, (95), 97-99, 101-105, 107-112. H1-40.
- M90.2 **Cinclidotus riparius** 36, 37, 40. H(9).
- M91.1 **Tayloria lingulata** (86), 88, (89), 90, 92, 94.
- M91.2 **Tayloria tenuis** (87, 88, 90-92, 96, 105), 109. H(40).
- M92.1 **Tetraplodon angustatus** (49, 88), 89, 90, 92, 94-97, (104), 105, 106, (108). H18.
- M92.2 **Tetraplodon mnioides** (3, 4), 12, 17, 35, 40-42, 44, 46-49, 52, (54), 57, 58, (59), 60, (61), 62-70, 72-83, (85, 86), 87-100, (101), 103-109, (110), 111, 112. H1, (2), 3, (7), 8, 10, 14, 16-18, (19), 20, 22-25, 27-30, 33, 35, 36, (38), 39, 40.
- M93.1 **Aplodon wormskioldii** 66, (69), 70, (88), 96.
- M94.1 **Splachnum sphaericum** (3), 4, (35, 36), 41-43, (44), 47-50, 57-60, 62-73, 75-81, 83, (84, 85), 86-92, 94-98, (99), 100-110, (111), 112. H1-3, 7, 9, 11, 16, 19, 20, (21, 26), 27-30, 33-36, 38-40.
- M94.2 **Splachnum ampullaceum** 2, 3, (4, 5), 8, 9, 11, (14, 15, 17, 22, 23, 25-27), 28, (29-31), 35, 38, 39, (40), 41-50, 52, (55), 57, 58, (59), 60, 62-70, 72, 73, (74), 75-80, (81), 82, 83, 86-89, (90), 92-99, 101-110. H1-4, 7-10, 12, 14-17, (19), 20, (21), 22-29, 31, 33, (34), 35, (36), 37-40.

M94.3 *Splachnum vasculosum* (65), 68-70, 72, 78, 87, 88, (89), 90, 92, 93, (95), 96, 97, (106, 107).  
M95.1 *Paludella squarrosa* (58, 61, 62). H27.  
M96.1 *Meesia uliginosa* 52, 59, (60, 65), 66, 67, 69, 70, (75, 78), 80, (82, 85, 86), 87-89, (90, 91), 92, 94-98, 105, 106, 108-110. H35.  
M96.2 *Meesia triquetra* H(27), 28.  
M97.1 *Amblyodon dealbatus* (4, 26, 27, 37, 38), 41, 42, 44, 48, 52, 59, (60, 62, 63), 64-70, (74, 75), 80-83, (85, 86), 87-90, 92, 94, 95, (96), 104-106, 108-112. H1, 3, 9, 16, (17, 21), 26-29, (31, 32), 33-35, (38), 39, 40.  
M98.1 *Leptobryum pyriforme* 1-35, (36), 37-42, 44-78, (80), 81-86, 88-90, 92-96, (97), 98, (99), 101-111. H2-4, 6-8, (9, 14), 17-23, 25-27, 29, 30, (31), 33-36, 38, 39, (40). C.  
M99.1.a *Zygodon viridissimus* var. *viridissimus* 1-112, H1-40. C.  
M99.1.b *Zygodon viridissimus* var. *stirtonii* 1-6, 9-16, (17), 18-20, 24-28, 31, (32), 33-37, 39-53, 56, 57, 60, 62-65, 68-77, 79-91, 93-95, 97, 98, (99), 100-109, 111, 112. H1, 2, (3), 4-6, 8-11, 13, 16-18, (20), 21-23, 25, 27-31, 33-35, 38-40. C.  
M99.2 *Zygodon rupestris* 2-14, 16, 17, 19, 21-23, 25, 26, 28, 29, 31, 33-36, 39-50, 54, 57, 60, 63, 67, 69, 70, 72, 73, 75-77, 79-84, 86-90, 92-99, 101, 102, 104, 105, 107, 108, 110, 112. H1-4, 6, 7, (14), 16, 20, 28, 38, 39.  
M99.3.a *Zygodon conoideus* var. *conoideus* 1-77, 79-83, 85-88, 90, 91, 93, 95-108, 110, 112. H1-11, (12), 13-40. C.  
M99.3.b *Zygodon conoideus* var. *lingulatus* 17.  
M99.4 *Zygodon gracilis* 64.  
M99.5 *Zygodon forsteri* (5), 11, 18, 19, 24, (37).  
M100.1 *Orthotrichum lyellii* 1-29, (30), 31-50, (51), 52-73, (74), 75-83, 85-98, (99), 100, 101, 103, 105-107, 109. H2, 4-13, (14), 18-24, 27, 30-33, 36-40. C.  
M100.2 *Orthotrichum striatum* 1-36, (37), 38-54, (55), 56-59, (60), 61-73, 75-77, (78), 79-81, (82), 83, 84, (85, 86), 87-101, 103-108. H1-13, (14), 15-20, (21), 23, 25, 26, 28-30, (31), 32, 33, 36, 38-40. C.  
M100.3 *Orthotrichum shawii* (75).  
M100.3B *Orthotrichum acuminatum* 36, 57.  
M100.4 *Orthotrichum speciosum* 9, (13), 14, 20, 24, 25, 28, 29, 57, (62), 63, 64, 66, 88, (89, 90), 92, (94), 95, 96, 106.  
M100.5 *Orthotrichum affine* 1-111, H1-40. C.  
M100.6 *Orthotrichum rupestre* 2, (3), 4, 6, 7, 21, 22, 28, (34), 36, (38, 40), 43, 47, 48, (49), 50, 52, 57, (59, 60), 61, 65-68, (69-71), 72, (73), 74, 75, 78-83, 85, 86, (87), 88-98, (99), 100-112. H(1), 2, 8, 12, 16, (20, 21), 24, 25, (26), 27-29, 34, 35, (37, 38), 39, 40.  
M100.7 *Orthotrichum gymnostomum* 92, 96.  
M100.8 *Orthotrichum obtusifolium* 18, (22-24), 28, 29, 31, (32), 33, (36, 38), 46, (65), 90, (91), 92-96.  
M100.9 *Orthotrichum anomalum* 1-112, H1-13, (14), 15-40. C.  
M100.10 *Orthotrichum cupulatum* 1-9, 11-54, (55), 56-73, (74), 75-85, (86), 87-98, 100-112. H1-31, (32), 33-40. C†.  
M100.11 *Orthotrichum rivulare* 2-5, (9, 13, 14), 16, (17, 33), 34-37, (38, 39), 40, 42-50, 52, (55, 57), 60, 62-70, 72, (73), 75-91, (92), 93-96, 106. H1, 2, 4-6, 8, 9, 13, (20, 21), 28-31, 34, 36, 38-40.  
M100.12 *Orthotrichum sprucei* 2-6, 8, 9, 11, 13, 14, 16, (17, 19), 24, (32), 33-37, (38), 39-50, 54, (55), 57, (58), 59-65, 67-70, 72, 73, 75, 79, 80, 88. H4-6, 12, 29, 36-38, (39).

- M100.13 *Orthotrichum stramineum* 3, 5-14, 16-73, (74), 75-100, 103-108. H(2, 10), 11-13, 20, 21, 31, (38, 39).
- M100.13A *Orthotrichum alpestre* 94.
- M100.13B *Orthotrichum patens* 25, 57.
- M100.14 *Orthotrichum tenellum* 1-15, (16), 17-20, 22-53, 55-60, (61), 62-78, 80-83, 86, 88-91, 97, 98, (99), 100, 101, 103, 104, 106, (110). H(1), 2-13, 15, 16, 18-22, 24-29, 31-34, 36, 38-40. C.
- M100.14A *Orthotrichum cambrense* 44.
- M100.15 *Orthotrichum pallens* 13, 14, 20, 24, 35, 50, 57, (60, 62), 63, 64, (65), 66, 94, 97, (106). H(4), 13, (20), 26.
- M100.16 *Orthotrichum pumilum s.str.* 26, 28, 35, 57, 65, 66, 78.
- M100.16A *Orthotrichum rogeri* 14.
- M100.16B *Orthotrichum schimperi* 20, (26), 29, 35, (62), 90, 91.
- M100.17 *Orthotrichum diaphanum* 1-98, (99), 100, (101), 102-112. H1-40. C.
- M100.18 *Orthotrichum pulchellum* 1-112, H1-13, (14), 15-30, 32-40. C.
- M100.19 *Orthotrichum consimile* (13), 20, 24, 56, 57, 61, 63, 69.
- M100.20 *Orthotrichum scanicum* 17, 57.
- M101.1 *Ulota coarctata* (5, 11), 12-15, 17, 24, 25, (27), 28, 37, 48, 56, 79, (86), 87, 88, (90, 96), 97, 98, 104-106. H2.
- M101.2 *Ulota drummondii* 42, 43, 46-49, (60), 63, (65), 66-70, 72, 73, 75-83, 85, (86), 87-108, (109, 111). H(2, 6), 7, (20), 35, (39).
- M101.3A *Ulota crispa s.str.*<sup>4</sup> 1, 2, 4-6, 9-11, 14, 17, 24-26, 28, 29, 32-36, 42-44, 46, 48-52, 54-58, 61-65, 69-72, (73), 76, 81, 85, 87, (97), 98, 100, 104, 105. H(2), 20, 35. C.
- M101.3B *Ulota crispula* 1-3, 10, 11, 14, 16, 22, 24, 26, 28, 31, 35, 41, 43-49, 53, 55, 57, 61, 69, 71, 79, 83. H20, 21. C.
- M101.3C *Ulota intermedia* 4, 10, 11, 15, 16, 24, 26, 36, 41, 46, 48, 52, 56-58, 63, 64, 67, 68, 71-73, 80, 89, 100, 105-107. H(2), 36.
- M101.4 *Ulota bruchii* 1-112, H1-40. C.
- M101.5 *Ulota calvescens* 1, 2, 5, 6, 9, 13, 14, 17, 24, 32, 35, 36, 38-40, 42-48, 56-60, 63-65, 68, 69, 72-76, (86), 97, 98, 100-106, 108, 110, (112). H1-3, 7-10, 12, 14-18, 24, 26-30, 32-36, (39), 40.
- M101.6 *Ulota hutchinsiae* (2, 3), 4, (7, 44), 48, 49, (62, 65), 67, (69, 70, 73), 75, (86), 87, 88, (89-91), 92, 95-98, (99), 101-108, 110, 112. H1-3, (4), 6, (15), 16, (20), 27, 28, 30, (32, 34), 35, (37, 38, 40).
- M101.7 *Ulota phyllantha* 1-98, (99), 100-112. H1-13, (14), 15-40. C.
- M102.1.a *Hedwigia ciliata var. ciliata* 7, 13, (14), 19, 29, 35-37, 40, 42, 43, 47, (48), 55, 57, 61, 70, 80.
- M102.1.b *Hedwigia ciliata var. leucophaea* 35, 36, 82.
- M102.1A *Hedwigia striata* 48, 49, 69, (73, 87), 97, (98), 105, 108. H6.
- M102.2 *Hedwigia stellata* 1-9, 12-15, 20, 22, 28, 34-36, (37), 40-50, 52, (55), 57-59, 63-65, (66), 67-70, 72-83, (84, 85), 86-90, (91), 92-110, 112. H1-4, 6-9, 11, 12, (15), 16, 19-22, 24, (25), 26-40. C.
- M102.3 *Hedwigia integrifolia* 45, 46, 48-50, 52, 69, 70, (71), 72-75, 82, (87), 88, 89, 96-98, (100), 101, 103-105, 108. H1, 3, 6, 20, 31, 37, 39.

---

<sup>4</sup> *Ulota crispa* agg. is recorded from 1-29, (30), 31-77, 79-112. H1-16, 18-30, 32-40. C.



- M103.1 **Catoscopium nigratum** 52, 59, (60, 64, 65), 66, 68, (82), 85, 88, 89, (90, 92), 94, 95, 98, 105, 106, 108-110, 112. H16, 27, (34), 35, (39, 40).
- M104.1 **Plagiopus oederianus** (1, 34), 35, (36, 39, 41), 42-44, 46-50, 57, 60, (62), 64, 65, (66), 69, (70, 72, 76, 83, 85), 86-90, 92, (94), 96-98, (99), 103, 104, 108. H(1), 29, 39.
- M105.1 **Bartramia halleriana** 35, 42-44, 46, 48, 49, (57, 62), 64, 65, (66), 69, 70, (72), 73, 75, 76, 80, 86-90, 92, 96-99, (100, 101), 103-106, 108. H1, (4, 6), 20, (36, 39).
- M105.2 **Bartramia pomiformis** 1-6, (7), 8-17, (18), 19, 20, (21), 22, (23), 24-28, (29, 30, 32), 34-37, (38), 39-52, (54, 55), 57-60, 62-110. H1-13, 16, 20-22, 27-31, 33-40. C.
- M105.3 **Bartramia ithyphylla** 2, 3, 13, (14-17, 25), 35, 36, (37), 40, (41), 42-44, 46-50, (55), 57-60, 62-70, (71), 72-84, (85), 86-112. H1, 6-8, (16), 22, (27), 30, (31, 35, 36, 38), 39, 40.
- M105.4 **Bartramia stricta** (14), 43, 47, 88. C.
- M106.1 **Conostomum tetragonum** (49, 69), 86-90, 92, 94, 96-100, 103-108, (112).
- M107.1 **Philonotis rigida** 1-4, 43, 45, 48, 49, (50), 71, 75, (87). H1, (2, 3), 16, (20), 27, 33-35, 39. C.
- M107.2 **Philonotis marchica** 10, (65).
- M107.3 **Philonotis arnellii** 1, 2, (3), 4, (9, 10), 13, (14-17, 22, 23), 35, (36, 37), 40, 42-50, 57-60, 64, 67-69, (70), 72, (73), 75, 81-83, (86), 87, 90, 92, 93, 95-98, 101, 103-105, 108, (109), 111. H16, 30, (36, 38, 39). C.
- M107.4 **Philonotis caespitosa** 1, 2, 4, 6, 8, 9, (10), 11, (13, 14), 17, (22), 38, 40-49, 57-60, 63-69, (70), 73, 75, 79, 81, 83-86, (90), 93, 95-98, (99), 102-105, 107, 108, 112. H(1), 4, 8, 12, 16, 20, 27, 29, 30, (31, 33), 37, 38, (39), 40. C.
- M107.5 **Philonotis fontana** 1-18, (19), 20, (21), 22, 23, (24, 25), 26-28, (29), 30, (32), 33-55, 57-112. H1-18, (19), 20-40. C.
- M107.6 **Philonotis tomentella** 49, (65, 68-70), 88-90, 94, 96-98, 103-105, 107, 110, 112. H27, 34, 35.
- M107.7 **Philonotis seriata** 49, 87-90, 92, 94-98, 103, 105-108, (111).
- M107.8 **Philonotis calcarea** 2, (3), 4, 5, (7), 8, 9, 11, (12), 22, 23, (26), 27, 28, 32, (33, 34), 35, 36, (37), 38-52, 54, 57-70, 72, 73, (74), 75-83, 85-95, (96), 98-112. H(1), 2, 6, 7, 9-11, 14-31, (32), 33-36, (37-39), 40.
- M107.9 **Philonotis cernua** (48, 90), 97, (98, 105, 110). H(1, 16), 27, 35.
- M108.1 **Breutelia chrysocoma** 1-6, (9), 11, 35, 36, (39), 40-52, (54, 55), 57, (59), 60, (61), 62, (63), 64-80, (81), 83, (85), 86-112. H1-18, 20, (24), 25-40.
- M109.1 **Plagiobryum zieri** 35, 36, (39-41), 42-44, 47-50, 57, (59), 60, (62), 63-70, 72, (73), 75-80, 82, 83, (85), 86-90, 92, 94, 96-99, (100), 101-108, (109), 110, 111. H1, 7, 8, 16, 27-29, 34, 35, 39, 40.
- M109.2 **Plagiobryum demissum** 88, (89), 90, 98.
- M110.1 **Anomobryum julaceum** 1, (3), 35, 36, (39), 40-50, 52, 57, (59), 60, 64-70, (71), 72-83, 86-92, (93), 94-112. H1-3, 6, 7, 9, (15), 16, 20, 26-29, (30, 31), 33-36, (37), 38-40.
- M110.2 **Anomobryum concinatum** 6, 36, 40-45, 47-49, 57, 59, 60, 64, 65, (66), 68, 69, (70), 72, 76, 78-80, 82, 83, 87-90, 92, 94-99, 101-105, 107, 108, 110. H1, 3, 6, 8, 9, 16, 26-29, 31, 33-35, 39, 40.
- M111.1 **Bryum marratii** 41, 44, 46, 48, 49, (54, 59, 60, 62), 68, 70, (75), 82, (85), 90, 101-103, 105, 108, 109. H1, 21, 27, 34, 35, (40).
- M111.2 **Bryum warneum** 4, (6), 15, (28), 41, (44), 46, 48, (49), 51, 52, 54, (58), 59, (60, 62, 66), 69, (75), 82, 85, 90, (95), 102, 105, 109. H21, 27, 34, 35.
- M111.3 **Bryum calophyllum** (4), 46, 48, (49), 52, (58, 59, 62, 66, 68), 69, 82, (85), 90, (95), 102, 105, 108, (109), 111. H16, 27.

- M111.4 **Bryum arcticum** 88-90, 92, 104.
- M111.5 **Bryum uliginosum** (22, 23, 37, 39, 48, 58-64, 68, 70, 72, 77, 82, 85, 86, 88, 90, 92, 108, 109).  
H(7, 18), 21, 25, 26, (33), 34, (39).
- M111.6 **Bryum pallens** 1-20, (21), 22-25, (26), 27-30, (32), 33-73, 75-112. H1-40.
- M111.7 **Bryum turbinatum** (13, 23, 35, 39, 42, 48, 59, 67, 104). H(27).
- M111.8 **Bryum schleicheri** 86, (88).
- M111.9 **Bryum weigelii** 40, 49, (64), 65, 68-70, 72, 77-80, 87-94, (95), 96-98, 103-108, (109, 111).  
H(6).
- M111.10 **Bryum cyclophyllum** (69, 70), 83, 86, 98, 99, 101, (105).
- M111.11 **Bryum algovicum** 1-4, (5), 6-9, (10), 11-16, (17), 18, 19, (20), 22-29, (30), 31-33, (34), 36,  
37, (39), 40, 41, (42), 43-60, (61), 62-64, (65), 66-71, (72), 73-75, (77, 78), 80, 82-86, (87), 88-  
95, (96), 97, 100-112. H1-4, (5), 6, (7), 8, 9, 11-13, (14), 16-20, (21, 22), 23, 25-30, (33), 34, 35,  
37, 38, (39), 40. C.
- M111.12 **Bryum salinum** (5), 68, 70, (75), 91, 102, 105, 106, 108. H1, (17).
- M111.13 **Bryum knowltonii** (4, 9), 19, 20, (22), 24, (25, 26), 28, 47-49, (52), 54, 59, (60, 62), 65, (66),  
68, 69, (82), 90, 105, 106. H26.
- M111.14 **Bryum archangelicum** 1-6, (8), 9-13, (14), 15, (16, 17), 18, (19, 21), 22, (23), 24-26, 28, 29,  
(30), 32, (33, 34), 35-37, (38), 39-41, (42), 43-60, (61), 62-69, 71, (72, 73), 74, 75, (78), 81-84,  
(85), 86-98, (99), 100, 101, 103-112. H1-3, (4, 5), 6, 9, 10, (11), 12, 15-18, (20, 21), 22, (23), 24-  
33, 35, 36, (37), 38-40. C.
- M111.15 **Bryum intermedium** (1-4), 6, (8), 9, (10, 11), 12, (14), 15, (16, 17), 18, (19), 21, 22, (23, 25,  
26), 28, 29, 31, (32), 33, 34, 36, (37-39), 40, 41, (44, 45), 46, (48, 49), 51-56, (57), 58-60, (61-  
63), 64, 65, 67-70, (73, 74), 81, 82, (83, 85, 86), 90, (91, 92), 97, (104), 109. H(4), 21, 26, (34),  
38, 39, (40).
- M111.16 **Bryum donianum** 1-15, (16), 17-19, 25-29, (34), 35-37, 40-42, 44-50, 52, (53), 57, (59), 60,  
71, 74. H1, 3-7, 9, 11, 12, 19-23, 27, 28, 40. C.
- M111.17 **Bryum capillare** 1-112, H1-40. C.
- M111.18 **Bryum elegans** (14, 36), 40, 42, 47, 50, 57, 59, 60, 64-66, (68), 69, 70, (81), 82, (87), 88-90,  
92, 94, 95, 97, (98), 108. H28, 29.
- M111.19 **Bryum moravicum** 3-45, 47, 48, 50, 51, 53-70, 72, 74, 75, 78-85, 88, 89, 92-96. H1.
- M111.20 **Bryum torquescens** 1-3, 5, 6, 8-12, (13), 14, 15, (16), 19, (23), 24, 26, (28), 29, 32, 33, (34,  
36), 41-43, 45, 47-50, 52, (54), 60, 63, (64, 66, 71, 75, 86, 87), 106. H(2, 5, 7, 9), 10, 11, (16, 21,  
25), 33, 34, 39, 40. C.
- M111.21 **Bryum canariense** 3, 6, 9, 10, (13, 14), 15, (16, 34, 36), 39-41, 44, 45, 47, 49-52, 57, 60. C.
- M111.22 **Bryum creberrimum** 6, 9, (11, 13), 14, (16), 17, 23, (29, 34), 40, (42), 43, 49, 50, (57, 58),  
59, (60, 61, 66, 69, 70, 77, 88), 89, 95, (96), 106. H4, 15, 21.
- M111.23 **Bryum pallescens** 1-3, 6, 8, 9, 11, 13-15, (16), 17-19, 22, (23), 25-29, 31, 32, (34), 35-52,  
55, 57-60, (61, 62), 63-65, (66, 67), 68, (69), 70-74, 78, 80-83, (85), 87, 88, 90, 92-97, (98), 102,  
104, 105, 107, 108, 110-112. H1-4, 7, 9-13, 15-18, 20, 22, 25-30, 32-36, (38), 39, 40. C.
- M111.24 **Bryum pseudotriquetrum** 1-6, (7), 8-36, (37, 38), 39-112. H1-13, (14), 15-40. C.
- M111.24.a **Bryum pseudotriquetrum var. pseudotriquetrum** 1-3, 18, 28, (29), 46, 49, 57, 59, 64, 65,  
68, 70-73, 82, 88-92, 102, 104-107, 109, 110, 112. H1-3, 7, 9, 12, 15-18, 21, 25-31, 33-35, (37),  
38-40.
- M111.24.b **Bryum pseudotriquetrum var. bimum** (1), 2, (3), 5, (6), 9, (10, 11), 12, (16), 17, (18), 19-  
24, 26, (27), 28-33, (34), 35, (36-38), 41, 44-46, 50, 51, (52), 53, 54, (55), 58-61, 63, (64), 66,

- (68), 69, 70, 75, 77, (81, 83, 86, 88), 90, 92, 96, 98, 99, 101, 106, 107, 109. H1, 2, 4, 9-12, 15-18, (20, 23), 25-28, (32), 33, 35, (38), 39, 40. C.
- M111.25 *Bryum caespiticium* 1, 2, 8, 9, 11, 12, 14, (15), 16-19, 22, 25, 28-30, (31), 32, (33), 35, 36, (37), 38, 44, 47-51, 53-55, 57-60, (61, 62), 63, 65, 67, (72), 75, 77, 80-83, (85, 87, 88), 90, 92, 94, 98, (99), 101, 108, 109. H(7), 11, 18, 26, 31, (39).
- M111.26 *Bryum kunzei* 1, 3, 6, 9, (14), 35, (36), 40, 41, 43, 47, 49, 51, 52, (57, 63, 66).
- M111.27 *Bryum argenteum* 1-112, H1-40. C.
- M111.28 *Bryum dixonii* 87-90, 92, 96-98, 104-108, 110.
- M111.29 *Bryum gemmiferum* 1-4, 6, (7), 8-38, 40-42, 44-51, 53-68, 70-72, 75, 80-82, 84-86, 88, 95, 97, 101, 106, 108-111. H4, 5, 7, 8, 11, 12, 14, 18, 19, 21, 22, 24-27, 29, 30, 36, 38, 39. C.
- M111.30 *Bryum gemmilucens* 6, 9, (13), 20, 22, 25, 27-29, 34, 38, 53, 54, 56, (62), 63.
- M111.31 *Bryum dichotomum* 1-112, H1-40. C.
- M111.31A *Bryum apiculatum* 1, 2.
- M111.32 *Bryum dyffrynense* 1, 15, 48, 52, 59, 69. H16, 27, 35, 40.
- M111.33 *Bryum radiculosum* 1-43, 45-68, (69), 70-90, 92-94, 96-98, (101), 102-104, (105), 106-109, (110), 111. H1-5, 7, (8), 9-13, (14), 15-23, 25, 27, 29-33, 35-40. C.
- M111.34 *Bryum ruderale* 1-70, 72, 75, 76, 78-87, 89, 90, 92-97, 99-103, 105, 107-110, 112. H1-27, 29-35, 37-40. C.
- M111.35 *Bryum violaceum* 1-51, 53-66, 68, 70-74, 76, 77, 79-85, 88, 89, 91-96, 98, (99), 101-103, 106-109, 111. H1, 3-5, 7-9, 11, 13-15, 18, 19, 21-23, 26, 29, 31, 34, 35, (38), 39. C.
- M111.36 *Bryum klinggraeffii* 1-20, 22-74, 76, 77, 79-83, (84), 85, 87, 88, 90-96, 98, (99), 101-103, 106, 108-112. H1, 3-32, 34-36, 39, 40. C.
- M111.37 *Bryum sauteri* 1-5, 9, 11-16, 20, 22, 27, 28, 34-37, 41-52, 57, 60, 62, 63, 66, 69-71, 73-77, 81, (83), 85-87, 89-94, 96, 98, (99), 100-104, 106, 107, 109, 112. H1, 3, 4, 6-9, 13, 16, 20, 27, 30, 31, 34, 35, 39. C.
- M111.38 *Bryum valparaisense* 1.
- M111.39 *Bryum tenuisetum* 1, 2, (9), 11, 12, (17), 20, 21, (25), 29, 42, 43, 46-50, 52, 57, 59, (61), 63, 64, (70), 73, 75, 76, 78, 82, 83, (86, 90), 97-99, 101, 104, 108, 112. H29, 35. C.
- M111.40 *Bryum subapiculatum* 1-17, 20-50, 52-69, 71-94, 96-98, (99), 101-105, 108-112. H1, 3-6, 10, 12, 13, 15, 16, 20, 22, 23, 27, 29-31, 34, 36-40. C.
- M111.41 *Bryum bornholmense* 1-3, 5, 7-9, 11-17, 19, 20, 22-30, 36, 37, 39, (40), 41, 43-45, 47-50, (55), 56, 57, 60-62, 64, 67, 69, 72, 73, 79, 83, 86, (88), 90, 92, 95, 98, 102, 103, (105), 106, 110, 112. H(1), 2, 8, 21, 22, 35, 40.
- M111.42 *Bryum rubens* 1-112, H1-29, 31, 33-40. C.
- M111.43 *Bryum riparium* 41, 43, 44, 46-49, 64, 65, (69), 70, 72, 73, 75, 78, 80, 86-90, 92, 95-99, 101-106, 108-110. H(1), 6, 16, 20, 27, (38).
- M111.44 *Bryum mildeanum* (36), 42, 44, (49), 64, (65, 66, 69), 70, 80, (87, 88), 89, 91, 92, 97, 98, 107, 108.
- M111.45 *Bryum muehlenbeckii* 49, 88, 92, 96-98, (103), 105-107, (108).
- M111.46 *Bryum gemmiparum* (3), 4, (35), 42. H26.
- M111.47 *Bryum alpinum* 1-5, 9, (10), 11, 12, (14, 18, 34), 35, 36, 40-50, (51), 52, (55), 57, 58, (59), 60, 63-80, (81), 82, 83, (84), 85-90, 92, 93, 95-112. H1-9, (13, 14), 16, 20, (21), 24, (25), 26-28, 30, 31, 33-40. C.
- M112.1 *Rhodobryum roseum* 2-14, (15), 16, 17, 19, 20, (21), 22-24, (25), 26, (27), 28, (29), 30, 32, 33, (34), 35-37, (38), 39-45, (46), 47-52, 54, 55, 57, (58, 59), 60, 62, (63, 64), 65-70, (71), 72,

- (73, 74), 75, (76, 77), 78-84, (85, 86), 87-90, (91), 92, 95-98, (99), 100-108, 110, 112. H2, (4, 5), 6, 8, 9, 11, 15, 16, (18, 20), 22, 26, 27, 29, 31, 33, 35, (36, 38), 39, 40.
- M113.1 *Mielichhoferia elongata* 62, 92, 108.
- M113.2 *Mielichhoferia mielichhoferiana* 92, 98.
- M114.1.a *Pohlia elongata* var. *elongata* 2, 4, (11), 35, 40-50, 57, 59, 60, 63-70, 72, 73, 75, 76, 78, 86-90, 92, 94, 96-98, (99), 100, 101, 103-108, 110. H1, 3, 6-8, 16, (20), 27, 29, 34, 35, (38), 40.
- M114.1.b *Pohlia elongata* var. *greenii* 49, 69, 70, 73, (86), 87-90, 92, 96-100, 103-106, (107), 108. H(1), 7, 16.
- M114.2 *Pohlia crudoides* 96.
- M114.3 *Pohlia cruda* 3, (4), 35, 36, 40, 42-44, 46-50, 57, 59, 60, (62), 63-70, 72, (73), 75-99, (100), 101, 103-110, 112. H1, 2, 6-8, 10, 16, (20, 21), 27-29, 33-35, (38), 39, 40.
- M114.4 *Pohlia nutans* 1-112, H1-13, (14), 15-18, (19), 20-25, 27-30, 32-40. C.
- M114.5 *Pohlia obtusifolia* (88), 94, 96, 97, 105.
- M114.6 *Pohlia drummondii* 1-3, (7, 11), 12-14, (22), 27, 38, 40-49, 57-60, (62), 63-69, 72, 73, 75, 78-80, (81), 82-90, 92, 94-100, 103-108, 110, 112. H1, 3, 5, 12, 16, 27-29, 31, 34-36.
- M114.7 *Pohlia scotica* 87, 88, 96-99, 105, 106, 108.
- M114.8 *Pohlia filum* 2, (17), 43, 44, (60), 67, 73, (74), 83, (85, 86), 87-90, 92-99, 101, 105-108, 112. H6, 27, 35, 36, 40.
- M114.9 *Pohlia andalusica* 1-3, 88, 105. H3, 6.
- M114.10 *Pohlia bulbifera* 2, 3, 5, 27, 36, 38, 40, 42-50, 57-60, 63, 64, 67, 69, 70, 73-78, 81-84, 86-90, 92-108, 110, 111. H1, 3, 4, 6, 11, 16, 26-31, 34, 35, 38, 39.
- M114.11 *Pohlia annotina* 1-25, (26), 27-30, 32, 34-36, (37), 38-52, 54-110, 112. H1-10, 12-14, 16, (19), 20, (21), 25-31, 33-40. C.
- M114.12 *Pohlia prolifera* (37), 50, (69), 77, 80, 81, 86, 88-90, 92-97, 106. H40.
- M114.13 *Pohlia camptotrachela* 1-6, 10, (11), 17, 23, 39-50, 52, 57-60, 62-65, 68-78, 80-109, 112. H1-4, 6, 9, 10, 12, 16, 20, 26, 27, 30, 32-36, 38-40.
- M114.14 *Pohlia flexuosa* 1-3, 41, 42, 44, 46-49, 57, 59, 60, 63-65, 69, 70, 72-75, 77, 78, 80, 83, 86-88, 95-106, 108, 110. H1-3, 6, 7, 9, 16, 27-29, 34, 36, 39, 40.
- M114.15 *Pohlia ludwigii* (48), 49, (65), 68, 69, (70, 86), 87-90, 92, 94, 96-98, (99), 104-107, (108).
- M114.16 *Pohlia lutescens* 1-20, 22-27, 29, 30, 32-52, 55-60, 62-64, 66-68, (69), 70-74, 78-83, 86, 89, 92, 93, 95, 96, 98-101, 104, 107, 109. H2, 3, 6, 8-10, 12, 20, 27, 33, 36, 37. C.
- M114.17 *Pohlia lescuriana* 1-3, 6, 8, 10-17, 20, 21, 24, 29, 33-35, 39-41, 43, 44, 46-50, 57-60, 63, 64, 71, 76-78, 80, 85, 86, 88, 90-92, 96, 98, 99, 107-109. H3, 4, 8, 35.
- M114.18 *Pohlia melanodon* 1-75, (76), 77-85, 88-95, 97-112. H1-40. C.
- M114.19.a *Pohlia wahlenbergii* var. *wahlenbergii* 1-20, (21), 22-112. H1-40.
- M114.19.b *Pohlia wahlenbergii* var. *glacialis* 49, 68, (69), 78, 88-90, 92, 94, 96-98, 103-106, (107). H2, 28.
- M114.19.c *Pohlia wahlenbergii* var. *calcareo* (1), 2, (10, 14, 17), 25, (64). H16, 34, 35, 39.
- M115.1 *Epipterygium tozeri* 1-6, 8-19, 33-35, (36), 37, 40-50, 52, 71, 93, 98, 101, 102. H1-6, 8, 9, 12, 20, 29, 34, 37-40. C.
- M116.1 *Mnium hornum* 1-112, H1-40. C.
- M116.2 *Mnium spinosum* 88-90, 92, 96-98.
- M116.3 *Mnium thomsonii* 39, 44, 49, 57, 60, 64, 65, 69, 70, 72, 87-90, 94, 96-98, 104-106, 108. H9, 16, 28, 29, 33, 35.
- M116.4 *Mnium lycopodioides* 88, 90.

- M116.5.a **Mnium marginatum var. marginatum** (2, 3), 8, (13, 14), 22, (26), 33-37, 39, (40), 41, 42, 44, (46), 48-50, (52-54), 56, 57, 59, 60, (62), 63-70, 72, (73), 75-77, (78), 79-83, (84, 85), 86-92, 94, 96-98, (99), 101-108, (109), 111, 112. H(1, 6), 7, 11, 16, 19, 20, 28, 29, 33-35, 39, (40).
- M116.5.b **Mnium marginatum var. dioicum** (13), 35, 41, 50, 57, (62), 63, (65, 88). H40.
- M116.6 **Mnium stellare** 3-17, 19, 22-24, 27, 32-37, (38), 39-54, (55), 56-70, (71), 72, 73, 75-91, (92), 94-108, 110-112. H2, 6, 8-11, 16, (20, 21, 23), 28-30, 33, 34, (35, 36), 39, 40.
- M117.1 **Cinclidium stygium** (26), 27, 28, (48, 60), 64-66, 69, 70, 79, 80, (87), 88, 89, (90), 92, 95, 96, (97), 98, 102, 104, 105, 108, 112. H9, 23, 28, 29, 39.
- M118.1 **Rhizomnium punctatum** 1-51, (52), 53-112. H1-21, 23-40. C.
- M118.2 **Rhizomnium magnifolium** 87, 88, 90, 92-94, 96-98, 105-107.
- M118.3 **Rhizomnium pseudopunctatum** 3, 4, (6), 11, 12, (14, 18), 22, 25-28, 35, (37), 38-52, 57-60, 62-70, 72, (73, 74), 75, 76, (77), 78-81, 83, (84), 85, (86), 87-90, (91), 92-98, 101-112. H(2), 6, (12), 13, 15, 16, 19, (21), 22, 26-30, (31, 32), 33, 35, (36), 38, 39, (40).
- M119.1 **Plagiomnium cuspidatum** 1-6, (7), 8-10, (12), 13-17, 19, 20, 22, (23), 24, (25), 26-30, (32), 33-52, 55-70, 72, (73), 75, (76), 77, 79-84, (85, 86), 87-91, (92), 93, 95-99, 101-105, 107-110, 112. H(1), 2-4, (7), 12, (15), 16, (17, 20, 21), 24-27, (28), 29, 30, (32), 33-35, (36), 38-40.
- M119.2 **Plagiomnium affine** 1-66, 68-70, 72-77, 80-83, (84), 85, (86), 87-106, 110. H1, 3, 4, 8, 10, 12, (14), 15, 17, 19-21, 25, 26, 33, 35, (36), 38-40. C.
- M119.3 **Plagiomnium medium** 88, 90, 92, 97, 98, 103, 106, 108.
- M119.4 **Plagiomnium elatum** (5, 6), 7-15, (17, 18), 19, 20, 22-29, (30), 32, 33, 35, 36, (37), 38-53, (54), 55-70, (71), 72-112. H2, 3, (5), 7-11, 13-19, 21-36, 38-40.
- M119.5 **Plagiomnium ellipticum** 1, 3, 6, (14, 17, 21), 22, 23, (24), 25-29, 32-35, 38-42, (43), 44-46, 48-50, 52-60, 62-70, (71), 72-83, 85, 86, (87), 88-112. H6-10, (15), 16, 17, 19, 22-25, 27-37, (38), 39, (40).
- M119.6 **Plagiomnium undulatum** 1-112, H1-40. C.
- M119.7 **Plagiomnium rostratum** 2-6, (7), 8-51, (52), 53-108, (109), 110-112. H1-11, 13, 14, 16-30, (31), 32-35, (36), 37-40. (C).
- M120.1 **Pseudobryum cinclidioides** 46, 48, 49, 68-70, 72, (73), 75, 76, 78-83, 88, (89), 90, (91), 92, 93, (94), 95-99, 105, (106), 107-109, 112.
- M121.1 **Aulacomnium palustre** 1-22, (23), 24-32, (33), 34-112. H1-40. C.
- M121.2 **Aulacomnium turgidum** (65), 88, 96-98, 103-108.
- M121.3 **Aulacomnium androgynum** (2, 3), 4-51, 53-70, 72, (73), 75-77, 80, 81, 83-97, 99, 100, 105-109. H11, (18), 20, 30, 31, 33, (37-40).
- M122.1 **Orthodontium lineare** 1-102, 106, 107, 109, 110. H2, 5-9, 11, 18-22, 27, 29, 30, 32, 33, 36-40. C.
- M122.2 **Orthodontium gracile** (3), 14, 34, (39, 40, 50, 51, 55), 58, 64, (68), 70, (75, 77), 83, (86). H33.
- M123.1 **Leptotheca gaudichaudii** 1<sup>+</sup>, 2<sup>+</sup>, 34<sup>+</sup>. H1<sup>+</sup>.
- M124.1 **Calomnion complanatum** H1<sup>+</sup>.
- M125.1 **Achrophyllum dentatum** 1<sup>+</sup>.
- M126.1 **Calyptrochaeta apiculata** 1, 2, 14. H5.
- M127.1 **Daltonia splachnoides** 41, 42, 44, 59, 63, 97-99, 104, 105. H1-6, 8-10, 14, 18, 20, (21), 27, 29, 30, 33, 36.
- M128.1 **Hookeria lucens** 1-6, 8-17, (18), 22, 24-29, 34-52, (55), 57-60, 62-112. H1-18, 20-22, 24-40. C.
- M129.1 **Cyclodictyon laetevirens** 1, 102. H1-3, (4, 6), 27, 29.

- M130.1.a **Fontinalis antipyretica var. antipyretica** 1-112, H1-40. C.
- M130.1.b **Fontinalis antipyretica var. gracilis** 1-3, 5, 19, 42-44, 46, (48), 49, (57, 59), 60, (63), 64, 65, 67-72, (74), 75-79, (80), 83, (88, 89), 90-93, 96, 98, 100, 104, (105), 106, 107, (108), 109, 110, 112. H7, 9, 16, 27, 39, 40.
- M130.1.c **Fontinalis antipyretica var. cymbifolia** (5), 6, (7, 14), 24, 25, (31), 40, 53, 57. H2, 9, 18, 23, 24.
- M130.2.a **Fontinalis squamosa var. squamosa** 1-5, (36, 37), 39-50, 57, 58, (59), 60, 62-75, (76), 78-80, 86-88, (89), 90-98, (99), 100-102, 104-110. H1-8, 12, 13, 15, 16, 20, 21, 27, 30, (33), 34, 35, (36), 37, 38, 40.
- M130.2.b **Fontinalis squamosa var. curnowii** 1, 2, (3), 4.
- M131.1 **Climacium dendroides** 1-9, 11-20, (21), 22-31, (32-34), 35-112. H1-4, (5), 6-30, 32-40.
- M132.1 **Palustriella commutata** 1-7, 9, (10), 11-15, (16), 17, 19, (20), 22-29, (30), 32-37, (38), 39-112. H1-4, (5), 6-11, 13, 14, 16-31, (32), 33-40. (C).
- M132.2 **Palustriella falcata** 1-6, (7), 9, 11, (12, 14, 18), 22, 23, (25), 26-28, (29), 32, 33, (34), 35-37, (38), 39-50, (51), 52-55, 57-60, (61), 62-70, (71), 72-85, (86), 87-112. H1-3, 8, 9, 11, (12), 13, 14, 16-20, 22-31, 33-36, (37, 38), 39, 40.
- M132.3 **Palustriella decipiens** 88-90, (91), 92, 96-98, 106.
- M133.1 **Cratoneuron filicinum** 1-112, H1-40. C.
- M133.2 **Cratoneuron curvicaule** 88.
- M134.1 **Campylium stellatum** 1-9, 11-15, (16), 17, (18), 19, 20, 22-29, (30, 31), 32-37, (38), 39-112. H1-40. C.
- M134.2 **Campylium protensum** 1-3, (4), 5, 6, 8-20, (21), 22-26, 28-37, (38), 40-42, 44-78, 80-84, (86), 87-92, 94-98, 100-106, 108-112. H1-5, 7-11, 15-17, (18), 19, 22, 23, 25-31, 33-36, (37), 38-40.
- M135.1 **Campyliadelphus chrysophyllus** 1-24, 26-30, 32-71, 73, 75, (76), 79-85, (86), 88-90, 92, 94, 96-98, 101-112. H1, 2, 5, 7-11, (12), 13, (14), 15-19, (20), 21-29, (30, 31), 33-35, (36, 37), 38-40. (C).
- M135.2 **Campyliadelphus elodes** 1, (4), 7, 9, 11, 12, 15, (17), 18, 19, 22, 24, 26-30, 34, (38), 41, 44, 46-49, 51, 52, 54, (55), 59, 60, (61, 62), 64, (65), 67-70, (73), 79-82, (85, 87, 89), 90, 96-98, 101-104, (105), 106-110, 112. H2, 7-10, 12, 15-17, (18), 19, (20, 21), 22, 23, 25, 26, 28, (30), 33-35, (36, 37), 38, (39, 40).
- M136.1.a **Amblystegium serpens var. serpens** 1-112, H1-40. C.
- M136.1.b **Amblystegium serpens var. salinum** 1, 2, (3, 5), 6, 9, 14, (18), 41, (44), 45, 46, (48), 49, 52, 59, 60, 62, 68, 69, 73, 75, 76, (82, 85, 90, 91), 94, 101, 102, 105, 107-110, 112. H1-3, 6, 9, 12, 16, 21, 27, 28, 34, 35, 38, 40. C.
- M136.2 **Amblystegium radicale** 2, 41, 44-46, 48, 49, 107, 109.
- M136.3 **Amblystegium confervoides** (2), 3, 6, 7, 16, 22, 23, 33-36, 39-42, 44, 50, 57, 60, (62), 64-66, 69, (70, 90), 94. H8, 9, 15, (21), 33.
- M137.1 **Hygroamblystegium fluviatile** 1-5, 17, 18, 22-24, (33), 34-37, (38), 39-51, (52), 55, 57-60, 62-84, (85), 86, 87, (88), 89-96, (99), 100, 103, 104, 107, 109. H4-6, 8-10, 12, 13, 19, 20, 25, 30, (35, 38), 39. C.
- M137.2 **Hygroamblystegium tenax** 1-24, 26, 31-55, 57-60, (61), 62-93, (94), 98, 99, 101, 102, 106, 108, 109, (111). H(1, 2), 5, 6, (7), 8, 11, 12, (15), 19, (20), 21, (25), 27, 28, (29), 32, 33, 38-40. C.

- M137.3 **Hygroamblystegium varium** 1, 3, 5, 6, (7), 8-17, 19, 20, (21), 22-38, (39), 40-42, 45, 48-53, (54), 55-62, (63), 64-67, (69), 70, 71, 73-75, (80), 81, 83, 88-90, (91, 97), 98, 99, 101-103, 108, (110). H6, (8), 9, 15, 16, (17), 22, 24-28, 30, (33-36), 37, (38), 39, (40). C.
- M137.4 **Hygroamblystegium humile** 3-12, (13), 14, 15, (16), 17-29, 31, 32, 35, (36), 37, 38, 40, 41, 47, (48, 50), 51, 53, (54), 55-58, 61, (62), 63, (64, 85, 90), 92, 109. H15, 25, 30, 39, (40).
- M138.1 **Leptodictyum riparium** 1-75, (76), 77, 79-90, (91), 92, 93, 95, 96, 98-100, 103, (104-106), 107, 108, (110), 111, 112. H(1), 2-5, (6), 7-9, 11-33, 35-39, (40). C.
- M139.1 **Conardia compacta** 2, 3, 10, 34, 36, (37, 40), 56, 57, 63, 64, 66-68, 72, 81-83, 85, 90, 91, 95, 98, 100, 101, 108. H(28).
- M140.1 **Drepanocladus polygamus** 1, 3, 4, (5), 9, (11, 13, 14), 15-17, (18), 22, (23), 24-29, (31), 35, (37), 38-41, (43), 44-50, 52, 54, 55, 58-60, (61), 62, (64), 67-69, (70, 71), 73, (74), 75, 76, (77), 80-84, (85, 86), 88-90, 92, 93, 95, 98, 100-112. H1-4, 9, 12, 13, 16, 17, (19), 20-25, 27, (28), 33-35, 37, 38, (39, 40).
- M140.2 **Drepanocladus aduncus** 1-49, 51-93, (94), 95, 96, 98, (99), 100-105, 107-112. H1-3, 5-11, (12, 14), 16-25, 27, 28, (29), 30-40. C.
- M140.3 **Drepanocladus sendtneri** 1, 2, 4, 11, (15), 18, (23, 24, 26-28, 30, 32), 33, 34, (35, 37-39), 41, 43-45, 48, 51-53, (54), 59, (60-64), 65, 68, 70, 82, (85, 87), 90, (96, 100), 103, (104), 105, (109), 110, 111. H1, 9, 15-17, 21, 23-28, (34-37, 39), 40.
- M141.1 **Tomentypnum nitens** 26, (27), 28, (37), 39, (40), 43, 46, 47, 49, 50, 52, (58, 62), 64, (65), 66-70, 72, 75, 77-81, 83, 85, 87-95, (96), 104, 106, 109. H8, 16, 19, 22, 23, 27, 28, (33), 35.
- M142.1 **Sanionia uncinata** 1-4, 6, 9, 11, 13, (14), 15, (16, 17), 18, (19), 22, 24, 25, (26), 27-29, 32-37, (38), 39-51, 54, 56-60, 62-112. H1, 2, 4, 6, 7, (8), 9, 10, 12, 14, (15), 16-18, 20, (21), 22, 24-26, 28-30, (31), 32-36, (37), 38-40.
- M142.2 **Sanionia orthothecioides** 91, 93, 94, 104, 105, 108-112.
- M143.1 **Hygrohypnum ochraceum** 1-5, 35, 36, 39, 41-51, 57-60, 62-110, 112. H1-10, 12, 13, 15, 16, (19), 20, 21, 27, (31), 33-36, 38, (39), 40.
- M143.2 **Hygrohypnum polare** 105.
- M143.3 **Hygrohypnum luridum** 1-9, 11-73, (74), 75-112. H1-7, (8), 9-11, (13, 14), 15-17, 19, 20, (21, 22), 23-25, (26), 27-31, (32), 33, (34), 35-37, (38), 39, 40.
- M143.4 **Hygrohypnum styriacum** 96.
- M143.5 **Hygrohypnum eugyrium** 4, 36, 42, 44, 45, 47-50, 64-66, 68-70, 72-76, 78-80, (81), 83, 86-90, (91), 92, 95-100, 102-108, 110, 112. H1-3, 6-8, 16, 20, 27, (31), 33-35, (36, 38), 39.
- M143.5A **Hygrohypnum subeugyrium** 36, (48), 49, 70, (72), 73, 87, 96-99, 101, 103-105, 108.
- M143.6 **Hygrohypnum smithii** 88, (89), 90, 92, 96-98, 105.
- M143.7 **Hygrohypnum molle** 92, 94, 96, 97.
- M143.8 **Hygrohypnum duriusculum** 48, 49, (65), 68, (69), 70, 88, 90, (91), 92, 94-97, (98), 105, 106, 108, (112). H1, (2), 27.
- M144.1 **Pseudocalliergon lycopodioides** 1, (3), 4, (11, 25, 27), 28, (38), 41, 45, 52, 54, 59, (60-62, 65-67), 68, (85, 90), 92, 95, (96), 106, 107, (109), 110, (111). H9, 15, 17, (20, 21), 23-27, 35, (37), 38, (39), 40.
- M144.2 **Pseudocalliergon turgescens** 60, 88.
- M144.3 **Pseudocalliergon trifarium** (86), 87-89, (90), 92, 94, 96-99, 103-108, 112. H9, 16.
- M145.1 **Warnstorfia fluitans** 1-9, 11-22, 24, 27, 28, 30, (34), 35-55, 57-84, (85), 86-90, 92-112. H1, (3), 6, 7, 10, 12, 13, (15), 16-21, 23-25, 27, 30-35, 38-40.

- M146.1 **Sarmentypnum exannulatum** 1-6, 8, 9, 11-13, 17-19, (20), 22, 23, (25, 26), 27, 28, 30, 34-36, (37), 38-55, 57-84, (85, 86), 87-93, 95-98, (99), 100-112. H1-10, 12, 14-16, 18-20, (21), 22, (24), 25-39.
- M146.2 **Sarmentypnum sarmentosum** 1, 2, 42-51, (52), 60, 64-67, 69-76, (77), 78, 79, (85), 86-92, 94-112. H1-3, 16, (20), 26-30, 34, 35, (38), 39.
- M147.1 **Straminergon stramineum** 1-6, (7), 8, 9, (10), 11-17, (18-21), 22, 24, 25, 27, 28, 30, 34-52, 54-112. H1, 2, 4-7, 9, 10, 12-18, 20, (21), 22-24, 26-40.
- M148.1 **Hamatocaulis vernicosus** 3, 4, (11, 15), 27, 38-50, 52, (57, 58, 60), 63, (64), 65, 69, 70, 72, 75, 76, 78-80, (83), 86, 88-90, (91), 96, 98, 99, (100), 103, 104. H6, 12, 16, 20, 22, 23, 27, 30, 34, 35, 38, 39.
- M149.1 **Scorpidium revolvens** 1-4, 9, 11, 12, 17, 27, 28, (29), 35, 36, 39-50, (54), 57, (58, 59), 60, 62-70, 72-81, (83, 85), 86-92, 94, (95), 96-98, 100-112. H1-7, 9, 10, 12, 14-18, 20, 21, 23, 26-31, 33-40.
- M149.2 **Scorpidium cossonii** 1, (3), 5, 6, 9, 11, 12, 22, 23, (25), 26-28, (32), 33, (34), 35, 36, (37, 38), 39-52, (53, 54), 57, (58), 59-70, 72-83, 85-94, 96, 98, (99), 100-112. H1, (2), 7-11, 14-20, 22-29, 31-35, (37), 38-40.
- M149.3 **Scorpidium scorpioides** 1-4, (6), 7, 9, 11, (12, 13), 17, 25, (26), 27, 28, (29), 35, (37), 39-50, (51), 52, 54, (57, 58), 59, (60, 61), 62, (63), 64-70, (71), 72-77, 79-82, (83), 85, (86), 87-90, (91), 92-112. H1-3, (4), 9-11, 13-19, 21-35, (36, 37), 38-40.
- M150.1 **Calliergon cordifolium** 1-28, 30-32, 34-87, (88), 89-104, (105), 106-112. H2-7, (8), 9, 10, 12, 13, (15), 16-18, 20, (21), 22-25, 27-34, 36-40.
- M150.2 **Calliergon giganteum** 1, 3, (7, 9), 11, 12, (13, 14), 17, (21), 22, (23), 26-28, (29, 31-34), 35, 36, (37), 38-40, (41), 42-52, 54, (55), 57-60, (61), 62, 64-90, (91), 92, 94-104, 106, 108-112. H1, 6-11, 13-19, (20), 21-40.
- M151.1 **Leskea polycarpa** 1-48, (49), 50-72, (73, 74), 75-91, 93, 95, 96, 98, 99. H1-7, 9, 11-13, 15, 18-22, 24-40. (C).
- M152.1 **Pseudoleskeella catenulata** 64-66, 69, 70, 88-90, 92, 94, 96, 97, (98), 108.
- M152.2 **Pseudoleskeella rupestris** 49, (69), 88-90, 92, 94, 96-98, 104, 105, 108.
- M152.3 **Pseudoleskeella nervosa** 92.
- M153.1 **Pseudoleskea patens** 88, 90, 92, 96-98, 105, 106.
- M153.2 **Pseudoleskea incurvata** (80), 88-90, (92), 94, 97.
- M154.1 **Lescurea saxicola** (88).
- M155.1 **Ptychodium plicatum** 88-90, 97.
- M156.1.a **Abietinella abietina var. abietina** 1, 8, 12, 13, (15, 19), 20, 23, (25), 26-30, (32), 33, 41, 44, (49), 52, 53, 55, 64, (66), 69, (71, 75), 82, (85), 87, 88, (89), 90, (94), 106. H(21), 40.
- M156.1.b **Abietinella abietina var. hystricosa** 6, 8, 9, 11-13, 15-17, 20, 22-24, (26), 30, (64, 65, 88). H27, 28, 34, 35, 40.
- M157.1 **Thuidium tamariscinum** 1-112, H1-40. C.
- M157.2 **Thuidium delicatulum** 1-5, (6), 9, 11, (12), 17, 25, 34, 35, 40, 42-50, (52), 57, 59, 60, 64-67, 69-84, 86-89, (91), 96-110, 112. H1-3, 6-8, (9), 10, 12, 15, 16, 18-20, 25-29, (30), 31-36, 38-40.
- M157.3 **Thuidium assimile** (3, 4), 5, 6, (7), 8, (9), 10-15, (16), 17, (19), 20-24, (25), 26-30, (32), 33-35, (36), 37, (38, 39), 40-44, 46-52, (54, 55), 57, 60-70, 72-75, 80-85, (86), 87-90, 92, 94, 97, 98, 100-110. H1, 7, 9-11, (14), 16-19, 22-25, 28, (32), 34, 35, 37-40.
- M157.4 **Thuidium recognitum** 6, (34), 35, 50, 51, 57, 60, 64, (69, 86), 87, 88, 90, 92, 96-98, 104-108. H(9), 16, (26), 29, 33-35, 40.



M158.1 *Helodium blandowii* (58, 62, 64, 65).  
M159.1 *Pseudoscleropodium purum* 1-112, H1-40. C.  
M160.1 *Scorpiurium circinatum* 1-3, (4), 5, 6, 8-11, 13-15, 17, 22, 24, 34-36, 41, 44, 45, 50, 52. H(1), 2, 5, (6), 8-11, 15, 23-26. C.  
M161.1 *Plasteurhynchium meridionale* 9.  
M161.2 *Plasteurhynchium striatulum* 3-7, 9, 10, (11), 12-14, 17, 29, 33-36, 39-42, 44, 45, 49, 50, 52, 57, 60, 63-65, 69, 98. H(1), 2, 5, 8, 9, 15-17, (20), 25, 26, 28, 29.  
M162.1 *Eurhynchium striatum* 1-112, H1-40. C.  
M163.1 *Platyhypnidium riparioides* 1-112, H1-16, 18-40. C.  
M163.2 *Platyhypnidium lusitanicum* 1-4, (5, 35, 36), 41-44, 46-50, 57-60, 63, (69, 70), 71, 73-75, 80, (91, 92), 94, 98, 105-108. H1, 2, 5, 6, 12, 16, 19, 20, 27, 33, 35.  
M164.1 *Rhynchostegium murale* 1-72, (73), 74, 76-78, 80-85, (86), 87-90, (91, 95), 98, (99), 100-104, 106, 108, (111), 112. H1, (2, 4, 7, 8), 9, 10, (12, 14), 15, 17, 18, (19), 20-29, 33, (34, 36), 37, (38), 39. C.  
M164.2 *Rhynchostegium confertum* 1-78, (79), 80-94, (95), 96-105, (106), 110-112. H1-13, (14), 15-31, 33-40. C.  
M164.3 *Rhynchostegium megapolitanum* 1-6, (7), 8-31, (37, 38), 41, 44-46, 48-54, 57-60, 64, 67, 71, 73, 75, 81, 82, 85, 90. H(1), 5, 6, 12, 20, 21, (33). C.  
M164.4 *Rhynchostegium rotundifolium* (6), 14, 33.  
M165.1 *Rhynchostegiella tenella* 1-86, 88-91, 97-106, 108, 110. H1-40. C.  
M165.2 *Rhynchostegiella litorea* 2, (3), 5, 6, 10-14, (15, 16), 17, 19, (21), 22, 23, 29.  
M165.3 *Rhynchostegiella curviseta* 2-15, (16), 17, 19, 22-25, 29, (30), 32-34, (35), 36, 37, (38), 39, 40, 46, (62). H33, (39). (C).  
M165.4 *Rhynchostegiella teneriffae* 1, (2), 3, 5-9, 11-14, 22-24, 29, 32-37, (38), 39-45, 47, 49, (50), 51-53, 57, (58), 59, 60, (61), 62-70, 72, 73, (75), 76, 77, 80-83, (85, 86), 87, (88), 89-91, 97, 98, (99), 100, 101, 104, 108, (111). H(1, 3), 4-6, 8-11, 15, 16, 20, (21), 28, 29, 33, (34), 35, 38-40. C.  
M166.1 *Cirriphyllum piliferum* 1-111, H1-12, (13), 14-29, (30), 31-36, (37), 38-40. C.  
M166.2 *Cirriphyllum crassinervium* 1-71, (72, 73), 75-77, 79-85, (86), 87-91, 93-106, 108, (111), 112. H1-11, (12), 13, 15-17, (18), 19-30, (32), 33, 35, (36, 38, 39), 40. C.  
M167.1 *Oxyrrhynchium pumilum* 1-75, (76), 77, 78, 80-85, 87-91, 93-95, 97-106, 108-112. H1-15, (16), 17-23, 25, 27-40. C.  
M167.2 *Oxyrrhynchium hians* 1-112, H1-40. C.  
M167.3 *Oxyrrhynchium schleicheri* 3-17, 19, 20, 22-24, (27), 33-37, 40-44, 50, 58, 60, (62), 64, 67, (68), 69, 79-81. H10.  
M167.4 *Oxyrrhynchium speciosum* 1-3, 5-17, 19-32, (33), 34-41, (42), 43-45, 47, (48), 49, 52-58, (59), 60, 61, (62, 63), 64, (68), 69-71, 73-75, 81, 90, 91, 98, 101-103, 111, 112. H2, 4, 5, (6), 8, 9, 15, 17-22, 25, 28, 32, 35, (36), 37, (38), 39, (40). C.  
M168.1 *Kindbergia praelonga* 1-112, H1-40. C.  
M169.1 *Sciuro-hypnum starkei* 88, 90, 92, 97, (105), 106.  
M169.2 *Sciuro-hypnum glaciale* 88, 90, 92, 94, 96-98, 105, 106.  
M169.3 *Sciuro-hypnum reflexum* 88-90, 92, 96-98, 105-107.  
M169.4 *Sciuro-hypnum populeum* 1-9, 11-60, (61), 62-91, (92), 93-112. H1-13, 16, (19), 20-27, 29, (30), 31-40. C.  
M169.5 *Sciuro-hypnum plumosum* 1-6, 8, 9, 11, 13-17, 32, 34-50, (51), 52, (53, 54), 55, 57-60, (61), 62-112. H1-16, 18, 20, (21), 24-40. C.

- M170.1 **Brachythecium albicans** 1-85, (86, 87), 88-112. H1, 3-6, 9, 12, 16, (19), 20-22, 27, 28, 31, 34, 35, (37), 38-40. C.
- M170.2 **Brachythecium erythrorrhizon** (108).
- M170.3 **Brachythecium glareosum** 1-3, (4), 5, 6, (7), 8-24, (25), 26-47, (48), 49-55, 57-69, (70), 72, 75, (77, 79), 80-83, 85, 87-90, (91), 94-98, (100), 101-106, 108, 110. H1, (2, 3, 6), 7-9, 15, 16, (18), 19, 20, (21), 22, 25-29, (31), 33-35, (38), 39, 40. (C).
- M170.4 **Brachythecium salebrosum** 3, (9), 12-14, (15), 17, 20, 22-38, 40, 44, (54), 57, (62), 63, 64, (66), 67, (80), 88, (90), 92.
- M170.5 **Brachythecium mildeanum** 1-20, 22-41, 43-60, (61), 64-68, (69), 70, 73-75, (81-83), 85, (86, 88), 90, 94, 95, (96), 97, 100, 102, (104), 105-112. H(1), 2, 4-8, 10, 11, 13, 16-23, 26-28, 34, 35, (37), 39, 40. C.
- M170.6 **Brachythecium rutabulum** 1-112, H1-40. C.
- M170.7 **Brachythecium rivulare** 1-112, H1-13, 15-40. C.
- M170.8 **Brachythecium cirrosum** 88, 98, 105, 106.
- M171.1 **Scleropodium cespitans** 1-40, 42-50, 52, 54-58, (59), 61, (62), 63, 64, (65), 67, 68, 70, 73, 75, 79-81, 98, 99. H2-7, 9, 12, 13, 21, 28-30, 33, 35, 36, 38, 39. C.
- M171.2 **Scleropodium touretii** 1-6, (7), 8-17, (18), 19, (20), 22, (23), 24, 26, (27), 28, (29, 33), 34-37, (38), 40-52, 71, 74, 75, 81, (88). H3-5, (6, 12, 21, 37, 39). C.
- M172.1 **Eurhynchiastrum pulchellum** 26, 89, 90, 92, 104. H40.
- M173.1 **Brachytheciastrum velutinum** 1-73, 75-99, 101-104, 106-109, 111, 112. H9, 18, 20, (21), 28, (37-39). C.
- M173.2 **Brachytheciastrum trachypodium** (88), 96-98.
- M174.1 **Homalothecium sericeum** 1-112, H1-40. C.
- M174.2 **Homalothecium lutescens** 1-71, 73, 75, (77, 78), 79-88, (89), 90-99, 101-112. H1-31, 33-35, 37-40. C.
- M175.1 **Myrinia pulvinata** 9, 13, (14, 17, 30), 33, 35, 36, 40, (42), 43, 44, 47, 48, 50, (59), 60, (61), 62, (63), 64, 65, 69, (73, 77), 87-89.
- M176.1 **Campylophyllum calcareum** 3, 5-8, (10, 11), 12-20, (21), 22-26, 29, 30, 32-38, 40-42, 47, 49-51, (54), 55, 57, 61-63, (64), 65, 67, 69, 70, (73, 75, 86, 88), 89, 90, (94), 95, 96. H20.
- M176.2 **Campylophyllum halleri** 88, 90, 97.
- M177.1 **Calliergonella cuspidata** 1-112, H1-40. C.
- M177.2 **Calliergonella lindbergii** 1-5, (6), 7-20, 22, 23, (24), 30, 31, 33-37, (38), 39-53, 55, 57-60, 62-73, (74), 75-90, 93, (94), 95-98, (99), 100-108. H1-14, (15), 16, 18, 20-23, 25-29, (31), 32-40.
- M178.1 **Taxiphyllum wissgrillii** 3-17, 19, 20, (21), 22-24, 33-37, (38), 39-45, 47-53, 56, 57, (58, 59), 60-70, 72, (73, 75, 77), 80-84, (85), 86-90, 93, 97, 98, 101, 103, 104, (108). H2, 5, 7, 9, 11, 16, (21), 23, 28-30, 33, 34, (38), 39, 40.
- M179.1 **Pylaisia polyantha** 6-8, (13), 14, 15, (19), 22-24, 26-29, 32-37, (38), 39-41, 43, 44, 48, 51, (52), 53, (54, 55), 56-59, 61-68, (69, 70, 73-75, 78), 80-83, (85), 88-91, 94. (C).
- M180.1 **Homomallium incurvatum** 64-66, 69, (70, 87), 88, (89), 90.
- M181.1.a **Hypnum revolutum var. revolutum** 88.
- M181.1.b **Hypnum revolutum var. dolomiticum** (88).
- M181.2 **Hypnum vaucheri** 88, 89, 94.
- M181.3.a **Hypnum cupressiforme var. cupressiforme** 1-112, H1-40. C.
- M181.3.b **Hypnum cupressiforme var. lacunosum** 1-75, (76), 77-112. H1-13, (14), 15-31, 33-40. C.
- M181.3.c **Hypnum cupressiforme var. heseleri** 28, 29.

M181.3.d *Hypnum cupressiforme* var. *resupinatum* 1-112, H1-40. C.

M181.4 *Hypnum andoi* 1-55, 57-60, 62-83, 85-108, 110, 112. H1-13, 15-18, 20-23, 25-36, 38-40. (C).

M181.5 *Hypnum uncinulatum* H1-3,

M181.6 *Hypnum jutlandicum* 1-112, H1-40. C.

M181.7 *Hypnum imponens* (3), 8, 9, 11-13, (14, 15), 17, 22, 24, 28, 49, 50, 54, (59), 60, (61, 62, 64), 66-70, 72, 77-79, (80), 81-83, (88), 95, (105).

M181.8 *Hypnum bambergeri* 88-90, 92, 96-98, 108.

M181.9 *Hypnum callichroum* 44, 46, 48, 49, (50, 51), 64, 68-70, (72), 73, (78), 80, (85), 86-90, 92, 94, 96-108, 110, 111. H1-3, 16, 27-29, 34, 35.

M181.10 *Hypnum hamulosum* 48, 49, (64), 69, 70, 87-92, 94, 96-98, 103-108.

M182.1 *Ptilium crista-castrensis* 26, 28, 34, 47-49, 54, 57, 60, (62), 63-65, 67, 69, 70, 72, (73), 78-81, 83, (85), 86-99, 101-108. H27.

M183.1.a *Ctenidium molluscum* var. *molluscum* 1-112, H1-40. C.

M183.1.b *Ctenidium molluscum* var. *condensatum* 1, 36, 37, 42, 44, 46, (47), 48, 49, (57, 59), 65-70, 72, 73, (74), 76-78, 80, 83, 87, 88, 90, (91), 92, 94, 96-98, (99), 100-108, 110, 112. H1, 3, 6-8, 16, 20, 27, 29, 31, 34, 35, (36), 38, 40.

M183.1.c *Ctenidium molluscum* var. *robustum* 44, 48, (69), 72, (73, 86, 88), 90, 92, 98, 99, 103-105, 108. H(38).

M183.2 *Ctenidium procerrimum* 88, 96.

M184.1 *Hyocomium armoricum* 1-6, 11, 13-16, 34-36, 39-50, 57-60, 62-75, (76), 77-80, 86-92, 95-108, 110-112. H1-10, (11), 12-16, 18, 20, 21, 25-40.

M185.1 *Habrodon perpusillus* (3, 4), 5, 6, 9, 36, 41, 42, 44, 47, 60, (65, 69, 70, 75), 78, 88, 90, 94, 97-99, (100).

M186.1.a *Heterocladium heteropterum* var. *heteropterum* 1-6, 13-16, 34-37, 39-52, 55, 57-60, 62-84, (85), 86-93, 95-112. H1, 3-8, (9), 10-13, (14), 16, 20, 21, 25-31, 33-40. C.

M186.1.b *Heterocladium heteropterum* var. *flaccidum* 1-6, 9, 12-17, 24, 34-37, 39-52, 57, 60, 62, (63), 64-72, (73), 74, 75, 77-84, 86-90, 95-105, (106), 108. H1-3, 5, 6, 8-11, 13, 16, 20, 21, 25-29, 31-40. C.

M186.2 *Heterocladium wulfsbergii* 1-4, 41-44, 46-50, (59), 63, 68-71, 73, 86, (87), 96, 97, 102, 104, 105, 108, 110. H1-3, 6-8, 20-22, 27, 35, 40.

M186.3 *Heterocladium dimorphum* 87-90, 96, 97, (99).

M187.1 *Pterigynandrum filiforme* 26, 29, (42), 49, (57, 68-70), 72, 79, 87-90, 92-98, 104-108, (112). H(20, 21, 38, 40).

M188.1 *Pleurozium schreberi* 1-31, (32), 33-112. H1-13, (14), 15-40. (C).

M189.1 *Rhytidiadelphus triquetrus* 1-17, (18), 19, 20, (21), 22-112. H1-40. C.

M189.2 *Rhytidiadelphus squarrosus* 1-112, H1-40. C.

M189.3 *Rhytidiadelphus subpinnatus* (36), 41, 42, 44, 45, 48, (57, 58), 60, 64, (65), 69, 70, 86, 98. H6.

M189.4 *Rhytidiadelphus loreus* 1-18, 20, (21), 22-30, 32-55, 57-112. H1-22, 24-40. C.

M190.1 *Loeskeobryum brevirostre* 1-9, (11), 12-17, (20), 22, (23), 24, 29, 32-37, (38), 40-50, 54, (55), 57, (58), 59, 60, (62), 63-65, 67, 69, 70, 72-77, 79-81, 87-89, (90), 92, 96-108, 110. H1-20, (21), 22-31, (32), 33-37, (38), 39, 40. (C).

M191.1 *Hylocomiastrum pyrenaicum* 88-90, 92, 96-98, 104-107.

M191.2 *Hylocomiastrum umbratum* 46-50, 64, 69, 70, 72, 73, 75, 76, (78), 79, 80, 86-90, 92, 94-106, (107), 108, 110. H1, 2, 16, 20, 27-29, 35, (39).

- M192.1 *Hylocomium splendens* 1-17, (18), 19, 20, (21), 22-112. H1-40. C.
- M193.1 *Rhytidium rugosum* 6, (23), 26, 28, (29, 36, 39), 49, 57, (59), 60, 64-66, 69, 70, 82, (85), 86-90, (92), 96-98, 103-106, 108. H40.
- M194.1 *Myurella julacea* (49), 64, 65, 87-90, 92, 94, 96-98, 101, 104, (105), 107, 108, 110. H(6), 28, 29, 34, 40.
- M194.2 *Myurella tenerrima* 88, (90).
- M195.1 *Platydictya jungermannioides* 6, 34-36, (40), 42-44, 47-50, 57, (59), 63-65, (66, 69), 70, 72, 75, 76, 80, 82, 86-90, 92, 94, 96-98, (99), 101, 104, 106, 108, 110. H(2), 3, 11, 28, 29, 33, 35.
- M196.1 *Orthothecium rufescens* 42, (48), 49, (62), 64, 65, 69, 86-90, 92, 96-99, 103-105, 107, 108, 111. H9, 28, 29, 33, 35.
- M196.2 *Orthothecium intricatum* (4), 6, 34-36, 39, 41-44, 46-50, 52, 57, (59), 60, 62-67, 69, 70, (71), 72, (73), 75, 76, (77, 78), 79, 80, 83, 86-92, 94, 96-108, 110, 111, (112). H1-3, 6-9, 16, 27-30, 33-35, 39, 40.
- M197.1 *Plagiothecium latebricola* 2-27, 31, 32, (33, 34), 35-37, (38), 39, 40, (41), 43-51, 54-58, (59), 62-65, (81, 86). H29.
- M197.2 *Plagiothecium piliferum* (88, 90).
- M197.3.a *Plagiothecium denticulatum* var. *denticulatum* 1-112, H3, 4, 6, 8, 10, (12), 13, 15, 17, 19, 20, 22, 24-26, 28, 30, 33, (36), 37, (38), 39, 40. C.
- M197.3.b *Plagiothecium denticulatum* var. *obtusifolium* 2, 4, 42, 44, 46, 48, 49, 64, 65, 69, 70, 72, 75, 78, 86-92, 94-101, 104-108, 110. H1, 3, 7, 8, 16, 27, 35, (40).
- M197.4 *Plagiothecium laetum* 12-16, 18-20, 22, 25-29, 32-36, 39, 40, 43, 47-51, 54-58, 60, 62-70, 75, 77, 78, (79), 81, 83, 86-92, 94-96, 98, (99), 101, 105, 106, 109. H8, 20, 21, 33.
- M197.5 *Plagiothecium curvifolium* 2-40, 42-44, 46-51, 53-70, 72-75, 77-85, (86), 88-96, 98, 99, 103, 106, 107. H20, 29, 40. C.
- M197.6 *Plagiothecium platyphyllum* 49, (69), 70, 88-90, 92, 94, 96-99, 105-108. H6, 7, 20, 27.
- M197.7 *Plagiothecium cavifolium* 1, 2, 26, 27, 42, 46-48, (49, 60, 62), 65, (70), 78, (81), 82, 83, 88, 90, 92, 93, 95-98, 101, 103-106, 108, 112. H1, 6, 27, 34.
- M197.8 *Plagiothecium succulentum* 1-28, 30-112. H1-12, 14, 16-18, 20-22, 24-35, 38-40. C.
- M197.9 *Plagiothecium nemorale* 1-77, 79, 80, 83-87, (88), 90-93, 95-105, 108, 110-112. H1-11, 13, 15, 16, 19-21, 25, 27-31, 33-40. C.
- M197.10 *Plagiothecium undulatum* 1-30, 32, 34-112. H1-10, 12-18, 20-23, 25-40. C.
- M198.1 *Isopterygiopsis muelleriana* 49, 87-90, 96-98, 103-107, (108). H1, 16, 27.
- M198.2 *Isopterygiopsis pulchella* (3), 5, 35, 36, 39, 41-44, 46-50, 57, 59, 60, (62), 63-70, 72, 73, 75-83, (85), 86-90, (91), 92-108, 110-112. H1-3, 6-8, 10, 16, (20), 27-29, (33), 34, 35, 38, 39, (40).
- M199.1 *Pseudotaxiphyllum elegans* 1-112, H1-14, 16, 18, (19), 20-22, (23), 25-40. C.
- M200.1 *Herzogiella striatella* (71), 86-90, 92, 94, 96-98, (99), 105-108.
- M200.2 *Herzogiella seligeri* 3, 6-17, (19), 21-29, 31, 32, 34-37, 41, 43, 54, (61), 62.
- M201.1 *Entodon concinnus* 6-17, 19, 20, 22-24, 29, 30, 32-34, (36), 37, 38, (39), 40, 41, 49, 50, (52), 53, 54, (55), 57, (59), 60, (61), 62, 64-67, 69, 70, (71), 72, 79-83, 85-90, 92, 97, 98, 101-110. H1, (6), 7, (8), 9, 10, 13, 15-17, 19, (20), 21-31, 33-35, 38-40.
- M202.1 *Platygyrium repens* 6-8, 10-17, 19-38, 40, 42, 50, 53, 54, 81, 82.
- M203.1 *Hageniella micans* 48, 70, 86, 87, 97-99, 101, 103-105. H1-3, 16.
- M204.1 *Sematophyllum demissum* 48, 49. H1-3, 16.
- M204.2 *Sematophyllum substrumosum* 1-3, 5, 6, 8-11, 13, 14, 16, 23, 24, 34-36, 38, 41, 44-46, 52. H1, 2, 12, 13, 38, 40. C.

M205.1 **Cryphaea heteromalla** 1-77, 79-86, (87), 88, 89, (90), 97-104, 106, 110. H1-40. C.

M206.1 **Dendrocryphaea lamyana** 2-4, 44-46.

M207.1.a **Leucodon sciuroides var. sciuroides** 1-17, (18), 19, 20, (21), 22-30, (31), 32-50, 52-59, (60), 61-67, (68), 69, 70, (71), 72, (73, 76), 78-83, (85), 87-94, (95), 96, (97), 98, 101, 102, (103), 104-108. H(3), 6, 7, (9), 11, (14, 16), 18-20, (21), 22, 23, 31, 33, (39). C.

M207.1.b **Leucodon sciuroides var. morensis** 1, 2, 9, 13, (17), 45, (73), 88, 96.

M208.1 **Antitrichia curtipendula** 2-4, 6, 13, (14), 15, (18-23, 25), 26, (27), 28, 29, (32, 33), 34, 35, (36-40), 42, (45), 46-50, (52, 55), 57, (60, 62), 63-67, (68), 69, 70, 72, 73, 75, 77-81, (82), 83, (85), 86, (87), 88-99, (101), 103-112. H1, 3, 6, 7, (12, 20, 28, 32), 33, (34, 36, 39), 40.

M209.1 **Pterogonium gracile** 1-4, (5), 6, 7, 9-13, (14, 17, 21, 26, 34), 35-37, 40-50, 52, 57, 60, 64-66, 68-70, (71), 72-75, 77-83, 85-91, (92), 96-110, 112. H1-4, 6-8, 13, 16, 20-22, 27, 28, (31, 33), 35, (38, 39). C.

M210.1 **Neckera pennata** (90).

M210.2 **Neckera crispa** 1, (2), 3-17, 20, (22), 23, 24, 26, 30, 33-37, 39-53, (54, 55), 56, 57, 59-83, (85), 86-90, (91, 92, 94), 96-110, (111). H1-3, (4, 5), 6-11, 14-18, 20, 23-31, 33-40. C<sup>+</sup>.

M210.3 **Neckera pumila** 1-17, (18, 19), 20, 22-25, (27), 32-37, (40), 41-50, 52, (55), 57-59, (60, 62), 64, 65, 67, 69, 70, 72, 73, 75, 78, 80, 85, (86, 87), 88-91, 96-99, 101-105, 111. H1-13, (14), 15, (16), 17-34, 36-38, (39), 40. C.

M210.4 **Neckera complanata** 1-112, H1-40. C.

M211.1 **Homalia trichomanoides** 1-57, (58), 59-94, (96), 97-104, 106, 108, 111, 112. H1-6, 8-12, (13), 14-16, 18-20, (21), 22-29, 31-34, 36-40. C.

M212.1 **Thamnobryum alopecurum** 1-112, H1-40. C.

M212.2 **Thamnobryum maderense** 39, 42, 55, 63.

M212.3 **Thamnobryum angustifolium** 57, 70.

M212.4 **Thamnobryum cataractarum** 64.

M213.1 **Leptodon smithii** 1-15, 17, (18), 22, (23), 28, 41, 45, (48), 49, 52, 69, (70). H(3), 6, 9. (C).

M214.1.a **Isothecium myosuroides var. myosuroides** 1-112, H1-40. C.

M214.1.b **Isothecium myosuroides var. brachythecioides** 44, 48, 49, 70, 72, 73, 75, 78, 81, (85), 86, 88-90, 92-94, (95), 96-112. H1-4, 6-8, 10, 11, 13, 16, 20, 27-30, 33-36, 38-40.

M214.2 **Isothecium alopecuroides** 1-112, H1-20, (21), 22-40. C.

M214.3 **Isothecium holtii** 2-5, 42-50, 57, 63, 64, 69, 70, 72-75, 86, 87, (88), 94-99, 105-109. H1-3, 6, 20, 27, 35, 38, (40).

M215.1 **Myurium hochstetteri** 97, 103, 104, 108, 110. H16.

M216.1 **Anomodon longifolius** (6), 34, 35, (36), 63, (64), 65, 66, 88-90.

M216.2 **Anomodon attenuatus** 70, (88), 90.

M216.3 **Anomodon viticulosus** 1-17, (18), 19-37, (38), 39-54, (55), 56, 57, (58), 59-73, 75-83, 85-106, 108, 110. H1-11, 13-31, (32), 33, (35), 36, 37, 39, 40. C.